



City of Tacoma
Department of Public Works

SPECIFICATION NO. PW20-0261F

**S 19th St Signal & Crosswalk Improvements
at Yakima Ave and Tacoma Ave**

**Project No. PWK-G0039
Federal Aid Project No. HSIP-3244(007)
State Contract No. LA 9711**

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

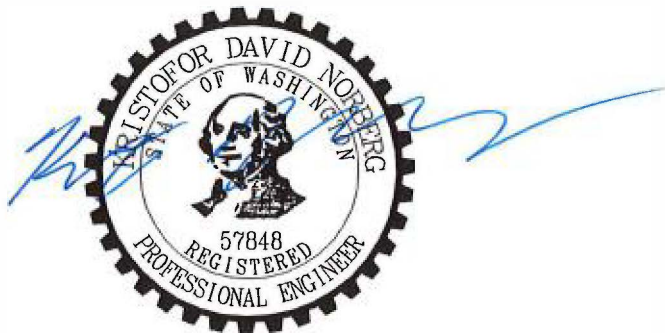
REQUEST FOR BIDS, SPECIAL PROVISIONS, BID PROPOSAL AND CONTRACT

FOR

SPECIFICATION NO.
PW20-0261F

**S 19th St Signal & Crosswalk Improvements
at Yakima Ave and Tacoma Ave**

PROJECT NO. PWK-G0039-01



Kris Norberg, P.E.
Traffic Engineering Division
Public Works Department

Room 644, Tacoma Municipal Building
Tacoma, Washington 98421-2711

Nick Correll
Public Works Engineering

Room 544, Tacoma Municipal Building
Tacoma, Washington 98421-2711

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City of Tacoma
Public Works Engineering

REQUEST FOR BIDS PW20-0261F

S 19th St Signal & Crosswalk Improvements at Yakima Ave and Tacoma Ave

Submittal Deadline: 11:00 a.m., Pacific Time, Tuesday, November 3, 2020 Submittal

Delivery: Sealed submittals will be received as follows:

By Email:

bids@cityoftacoma.org

Maximum file size: 35 MB. Multiple emails may be sent for each submittal

Submittal Opening: Submittals in response to a RFB will be recorded as received. As soon as possible on the day of submittal deadline, preliminary results will be posted to www.TacomaPurchasing.org.

This public bid opening will be held via webinar only. Registration is required to attend.

Register in advance for this webinar:

https://us02web.zoom.us/webinar/register/WN_OqyhFVuJRzWxjKhL6UnMvg

After registering, you will receive a confirmation email containing information about joining the webinar.

Solicitation Documents: An electronic copy of the complete solicitation documents may be viewed and obtained at the City's plan distribution service provider, ARC, 632 Broadway, Tacoma, WA, or by going to <http://www.e-arc.com/location/tacoma>. Prospective bidders will be required to pay reproduction costs. A list of vendors registered for this solicitation is also available at their website.

Pre-Proposal Meeting: A pre-proposal meeting will not be held.

Project Scope: Improve traffic signal phasing and the visibility of pedestrian crosswalks at S 19th St / Yakima Ave and S 19th St / Tacoma Ave intersections. Add high-visibility crosswalk markings. Add protected left turn signal phasing, including associated supporting hardware and conduit.

Estimate: \$444,000.00

Paid Leave and Minimum Wage: Effective February 1, 2016, the City of Tacoma requires all employers to provide paid leave and minimum wages, as set forth in Title 18 of the Tacoma Municipal Code. For more information visit www.cityoftacoma.org/employmentstandards.

The following is applicable to Federal Aid Projects: The City of Tacoma in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR, part 26, will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

Additional Information: Requests for information regarding the specifications may be obtained by contacting Tina Eide, Senior Buyer by email to TEide@cityoftacoma.org.

Protest Policy: City of Tacoma protest policy, located at www.tacomapurchasing.org, specifies procedures for protests submitted prior to and after submittal deadline.



Meeting sites are accessible to persons with disabilities. Reasonable accommodations for persons with disabilities can be arranged with 48 hours advance notice by calling 253-502-8468.

SPECIAL REMINDER TO ALL BIDDERS

HEALTH & SAFETY: Be sure to comply with all City of Tacoma health and safety requirements.

1. This project has been deemed to be an essential project by the City of Tacoma and it is anticipated that the contract will be operational during the COVID-19 outbreak. Therefore the contractor shall complete a health and safety plan describing how the contractor will complete the work while combating the COVID-19 spread (social distancing practices) and what Personal Protective Equipment (PPE) will be in place.

PLEASE NOTE: Be sure you have complied with all specifications and requirements and have signed all required documents.

YOUR ATTENTION IS PARTICULARLY CALLED to the following forms, which must be executed in full before the bid is submitted:

1. **BID PROPOSAL**: The unit prices bid must be shown in the space provided. Check your computations for omissions and errors.
2. **BID PROPOSAL SIGNATURE SHEET**: To be filled in and executed by a duly authorized officer or representative of the bidding entity. If the bidder is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.
3. **BID BOND**: The Bid Bond must be executed by the person legally authorized to sign the bid, and must be properly signed by the representatives of the surety company unless the bid is accompanied by a certified check. If Bid Bond is furnished, the form furnished by the City must be followed; no variations from the language thereof will be accepted. The amount of the Bid Bond must be not less than 5% of the total amount bid.
4. **NON-COLLUSION DECLARATION**: Must be returned by the bidder and included with the submittal.

FAILURE TO RETURN THE AFOREMENTIONED NON-COLLUSION DECLARATION AND TO SUBMIT SAID DECLARATION WITH THE BID SHALL BE DUE CAUSE FOR REJECTION OF BID.

5. **CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).
6. **STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).
7. **UDBE UTILIZATION CERTIFICATE**: For federal purposes, DBEs proposed to be used on this project shall be shown as a DBE listed in the current Office of Minority and Women's Business Enterprises (OMWBE) Directory, or who can produce written proof from OMWBE showing they were certified as a DBE as of the date fixed for opening

bids. When DBE goals are established failure to submit this form will render the proposal as non-responsive. The federal DBE goal for this project is **three** percent (**3%**).

8. **ACKNOWLEDGEMENT:** Must be signed by the bidder and be subscribed and sworn to before a Notary Public. Be sure all parties whose signatures are legally necessary have signed, whether the bidder be an individual, partnership or corporation.

POST AWARD FORMS EXECUTED UPON AWARD:

- A. CONTRACT: Must be executed by the successful bidder.
- B. PAYMENT BOND TO THE CITY OF TACOMA: Must be executed by the successful bidder and his/her surety company.
- C. PERFORMANCE BOND TO THE CITY OF TACOMA: Must be executed by the successful bidder and his/her surety company.
- D. CERTIFICATE OF INSURANCE: Shall be submitted with all required endorsements.
- E. GENERAL RELEASE.

CODE OF ETHICS: The successful bidder agrees that its violation of the City's Code of Ethics contained in TMC Chapter 1.46 shall constitute a breach of the contract subjecting the contract to termination.

PART I

BID PROPOSAL AND CONTRACT FORMS

B I D P R O P O S A L

SPECIFICATION NO. PW20-0261F

S 19th St Signal & Crosswalk Improvements at Yakima Ave and Tacoma Ave

The undersigned hereby certifies that he/she has examined the location and construction details of work as outlined on the Plans and Specifications for Project No. PWK-G0039 and has read and thoroughly understands 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 proposes to undertake and complete the work embraced in this improvement in accordance with said Plans, Specifications and contract and at the following schedule of rates and prices.

NOTE:

1. Unit prices of all items, all extensions and total amount of bid should be shown. Show unit prices in figures only.
2. The notations below the item numbers refer to the specification section where information may be found regarding each contract item. These notations are intended only as a guide and are not warranted to refer to all specification sections where information may be found.

All bid items are sorted in the following groups:

Schedule A: Roadway, Bid Items R1 – R22

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R1 1-07	SPCC Plan, per lump sum	1 LS	Lump Sum	\$ _____
R2 1-09	Mobilization, per lump sum	1 LS	Lump Sum	\$ _____
R3 1-10	Pedestrian Traffic Control, per lump sum	1 LS	Lump Sum	\$ _____
R4 1-10	Project Temporary Traffic Control, per lump sum	1 LS	Lump Sum	\$ _____

Contractor's Name: _____

Specification No. [PW20-0261F]

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R5 1-10	Uniformed Police Officer, per hour	32 HR	\$ _____	\$ _____
R6 2-01	Clearing and Grubbing, per lump sum	1 LS	Lump Sum	\$ _____
R7 2-14	Remove Existing Pavement, Type 1, Class C4, per square yard	44 SY	\$ _____	\$ _____
R8 2-14	Remove Existing Pavement, Type 1, Class C6, per square yard	188 SY	\$ _____	\$ _____
R9 2-15	Remove Curb and Gutter, per linear foot	50 LF	\$ _____	\$ _____
R10 5-04	HMA CL 1/2" PG 58H-22, per ton	14 TN	\$ _____	\$ _____
R11 5-05	Cement Conc. Pavement, 8-Inch Section, per square yard	188 SY	\$ _____	\$ _____
R12 8-01	Erosion/Water Pollution Control, per lump sum	1 LS	Lump Sum	\$ _____
R13 8-01	Stormwater Pollution Prevention Plan (SWPPP), per lump sum	1 LS	Lump Sum	\$ _____
R14 8-04	Cement Conc. Traffic Curb and Gutter, per linear foot	60 LF	\$ _____	\$ _____
R15 8-14	Cement Conc. Sidewalk, per square yard	44 SY	\$ _____	\$ _____
R16 8-20	Traffic Signal System Tacoma Avenue, per lump sum	1 LS	Lump Sum	\$ _____
R17 8-20	Traffic Signal System Yakima Avenue, per lump sum	1 LS	Lump Sum	\$ _____
R18 8-22	Plastic Crosswalk, per linear foot	220 LF	\$ _____	\$ _____
R19 8-22	Plastic Line, per linear foot	444 LF	\$ _____	\$ _____

Contractor's Name: _____

Specification No. [PW20-0261F]

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R20 8-22	Plastic Stop Line, per linear foot	95 LF	\$ _____	\$ _____
R21 8-22	Plastic Wide Lane Line, per linear foot	150 LF	\$ _____	\$ _____
R22 8-22	Removal of Pavement Markings, per lump sum	1 LS	Lump Sum	\$ _____

TOTAL BASE BID (Not Including Sales Tax)	\$ _____ (1)
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Proposal for Incorporating Recycled Materials into the Project

In compliance with a new law that went into effect January 1, 2016 (SHB1695), the Bidder shall propose below, the total percent of construction aggregate and concrete materials to be incorporated into the Project that are recycled materials. Calculated percentages must be within the amounts allowed in Section 9 03.21(1)E, Table on Maximum Allowable Percent (By Weight) of Recycled Material, of the Standard Specifications.

Proposed total percentage: _____ percent (%)

Note: Use of recycled materials is highly encouraged within the limits shown above, but does not constitute a Bidder Preference, and will not affect the determination of award, unless two or more lowest responsive Bid totals are exactly equal, in which case proposed recycling percentages will be used as a tie-breaker, per the APWA GSP in Section 1-02.6 of the Special Provisions. Regardless, the Bidder's stated proposed percentages will become a goal the Contractor should do its best to accomplish. Bidders will be required to report on recycled materials actually incorporated into the Project, in accordance with the APWA GSP in Section 1 06.6 of the Special Provisions.

Bidder: _____

Signature of Authorized Official: _____

Date: _____

Contractor's Name: _____

Specification No. [PW20-0261F]

BID PROPOSAL SIGNATURE SHEET

The total bid price for completion of all the work required in accordance with the Plans and Specifications, together with any and all Addenda issued as a Supplement thereto, is

\$_____ (GRAND TOTAL FROM BID PROPOSAL)

ACKNOWLEDGMENT OF ADDENDUM FOR:
PW20-0261F

S 19th St Signal & Crosswalk Improvements at Yakima Ave and Tacoma Ave

#1 _____ (initial)

#2 _____ (initial)

#3 _____ (initial)

#4 _____ (initial)

Bidder: _____

Signed: _____ Title: _____

Print Name: _____

Address: _____ City/State/Zip: _____

Telephone Number: _____ Date: _____

Contractor's Registration Number: _____

- NOTE: 1. If the bidder is a co-partnership, so state, giving firm name under which business is transacted.
2. If the bidder is a corporation, this Bid Proposal must be executed by its duly authorized officials.
3. The bidder agrees, by submitting a bid under these Specifications, that in the event any litigation should arise concerning the submission of bids or the award of contract under this Specification or Request for Bids, the venue of such action or litigation shall be in the Superior Court of the State of Washington, in and for the County of Pierce.

CITY OF TACOMA

Elizabeth Pauli
CITY MANAGER

Herewith find deposit in the form of a cashier's check in the amount of \$_____ which amount is not less than 5-percent of the total bid.

SIGN HERE_____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held and firmly bound unto the City of Tacoma, as Obligee, in the penal sum of _____ dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for

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

SIGNED, SEALED AND DATED THIS _____ DAY OF _____, 20_____.

PRINCIPAL:

SURETY:

_____, 20_____

Received return of deposit in the sum of \$ _____



City of Tacoma

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (**October 13, 2020**), that 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

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Individual ☐

Partnership ☐

Joint Venture ☐

Corporation ☐

State of Incorporation, or if not a corporation, the 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.*

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

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

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. **That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report 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.

Specification No. _____

Name of Bidder: _____

State Responsibility and Reciprocal Bid Preference Information

Certificate of registration as a contractor
(Must be in effect at the time of bid submittal):

Number: _____

Effective Date: _____

Expiration Date: _____

Current Washington Unified Business Identifier
(UBI) Number:

Number: _____

Do you have industrial insurance (workers' compensation)
Coverage nor your employees working in Washington?

☐ Yes ☐ No
☐ Not Applicable

Washington Employment Security Department Number

Number: _____

☐ Not Applicable

Washington Department of Revenue state excise tax
Registration number:

Number: _____

☐ Not Applicable

Have you been disqualified from bidding any public
works contracts under RCW 39.06.010 or 39.12.065(3)?

☐ Yes ☐ No
If yes, provide an explanation of your
disqualification on a separate page.

Do you have a physical office located in the state of
Washington?

☐ Yes ☐ No

If incorporated, in what state were you incorporated?

State: _____ ☐ Not Incorporated

If not incorporated, in what state was your business
entity formed?

State: _____

Have you completed the training required by RCW
39.04.350, or are you on the list of exempt businesses
maintained by the Department of Labor and Industries?

☐ Yes ☐ No

Box 1: _____ certifies that the UDBE firms listed below have been contacted regarding participation on this project. If this Bidder is successful on this project and is awarded the Contract, it shall assure that subcontracts or supply agreements are executed with named UDBEs. (If necessary, use additional sheets.)

[illegible]

DOT Form 272-056U
Revised 03/2018

Instructions for Underutilized Disadvantaged Business Enterprise Utilization Certification Form

Box 1: Name of Bidder (Proposal holder) submitting Bid.

Box 2: Name of the Project.

Column 1: Name of the Underutilized Disadvantaged Business Enterprise (UDBE). UDBE Firms can be found using the search tools under the Firm Certification section of the Diversity Management and Compliance System web page <https://wsdot.diversitycompliance.com> Repeat the name of the UDBE for each Project Role that will be performed.

Column 2: The Project Role that the UDBE will be performing as follows;

- Prime Contractor
- Subcontractor
- Subcontractor (Force Account)
 - Work sublet as Force Account must be listed separately.
- Manufacturer
- Regular Dealer
 - Work sublet to a Regular Dealer must be listed separately.
 - Regular Dealer status must be approved prior to Bid submittal by the Office of Equal Opportunity, Washington State Department of Transportation, on each Contract.
- Broker
 - Work sublet to a Broker must be listed separately.

List each project role to be performed by a single UDBE individually on a separate row(s). The role is used to determine what portion of the amount to be subcontracted (Column 4) may be applied toward meeting the goal (column 5).

Column 3: Provide a description of the work to be performed by the UDBE. The work to be performed must be consistent with the Certified Business Description of the UDBE provided at the Diversity Management and Compliance System web page <https://wsdot.diversitycompliance.com>

- A Bidder subletting a portion of a bid item shall state **“Partial”** and describe the Work that is included.
 - For example; “Electrical (Partial) – Trenching”.
- “Mobilization” will not be accepted as a description of Work.

Column 4: List the total amount to be subcontracted to each UDBE for each Project Role they are performing.

Column 5: This is the dollar amount for each line listed in the certification that the prime intends to apply towards meeting the COA Contract goal. It may be that only a portion of the amount subcontracted to a UDBE in Column 4 is eligible to be credited toward meeting the goal **See Note 1, Note 2, Note 3**. The Contracting Agency will utilize the sum of this column (Box 4) to determine whether or not the bidder has met the goal. In the event of an arithmetic error in summing column 5 or an error in making appropriate reductions in the amounts in column four, **See Note 1, Note 2, Note 3**, then the mathematics will be corrected and the total (Box 4) will be revised accordingly.

Note 1: For Work sublet as Force Account the bidder **may only claim 50%** of the amount subcontracted (Column 4) towards meeting the goal (Column 5). This information will be used to demonstrate that the UDBE contract goal is met at the time that the bidder submits their bid. For example; amount sublet as force account = \$100,000 (Column 4) equates to $(\$100,000 \times 50\%) = \$50,000$ (Column 5) to be applied towards the goal.

Note 2: For Work sublet to a Regular Dealer the bidder **may only claim 60%** of the cost of the materials or supplies (Column 4) towards meeting the goal (Column 5). For example; Material cost = \$100,000 (Column 4) equates to $(\$100,000 \times 60\%) = \$60,000$ (Column 5) to be applied towards the goal

Note 3: For Work sublet to a Broker the bidder **may only claim the fees** paid to a Broker towards meeting the goal (Column 4). For example; amount sublet to a broker = \$100,000 (Column 4) equates to $(\$100,000 \times \text{reasonable fee \%}) = \$$ (Column 5) to be applied towards the goal.

Box 3: Box 3 is the COA Contract goal which is the minimum required UDBE participation. The goal stated in the Contract will be in terms of a dollar amount or a percentage in the Contract. When expressed as a percentage you must multiply the percentage times the sum total of all bid items as submitted in the Bidder's Proposal to determine the dollar goal and write it in Box 3. In the event of an error in this box, the Contracting Agency will revise the amount accordingly.

Box 4: Box 4 is the sum of the values in column 5. **This value must equal or exceed the COA Contract goal amount written in Box 3 or;**

Box 5: Check Box 5 if insufficient UDBE Participation has been achieved and a good faith effort is required. Refer to the subsection titled, *Selection of Successful Bidder/Good Faith Efforts (GFE)* in the Contract.

See the Disadvantaged Business Enterprise Participation specification in the Contract for more information.

Underutilized Disadvantaged Business Enterprise Utilization Certification

To be eligible for Award of this Contract the Bidder shall fill out and submit, as a supplement to its sealed Bid Proposal, an Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification. The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal that does not contain a UDBE Utilization Certification which properly demonstrates that the Bidder will meet the UDBE participation requirements in one of the manners provided for in the proposed Contract. **Refer to the instructions on Page 2 when filling out this form or the Bid may be rejected. An example form has been provided on Page 3.** The successful Bidder's UDBE Utilization Certification shall be deemed a part of the resulting Contract.

Box 1: A Plus Construction Company certifies that the UDBE firms listed below have been contacted regarding participation on this project. If this Bidder is successful on this project and is awarded the Contract, it shall assure that subcontracts or supply agreements are executed with named UDBEs. (If necessary, use additional sheets.)

Box 2: US 395, Spokane City Limits to Stevens County Line - Paving and Safety

Column 1 Name of UDBE (See instructions)	Column 2 Project Role (See instructions)	Column 3 Description of Work (See instructions)	Column 4 Dollar Amount Subcontracted to UDBE (See instructions)	Column 5 Dollar Amount to be Applied Towards Goal (See instructions)
A Plus Construction Company	Prime	Asphalt and concrete paving, asphalt milling, preleveling and pavement repair	N/A	900,000
In the Line Services, Inc.	Subcontractor (Force Account)	Crack sealing	20,000	10,000
In the Line Services, Inc.	Subcontractor	Guideposts, joint seal, pavement markers, temporary signage, construction sign installation	200,000	200,000
The Everything Guys, LLC	Regular Dealer	Rental and sales of highway construction and related equipment and materials	100,000	60,000
Optimus Prime Trucking, Inc.	Subcontractor	Dump Trucking	50,000	50,000
Metalheads, Inc.	Manufacturer	Dowel Bars	75,000	75,000
Erosion Under Control Co.	Broker	Erosion control blankets, straw bales and wattles, sand bags	15,000	250

EXAMPLE

Underutilized Disadvantaged Business Enterprise Condition of Award Contract Goal 356,968.16 Box 3 Total UDBE Commitment Dollar Amount 1,295,250 Box 4

5 ☐ By checking Box 5 the Bidder is stating that their attempts to solicit sufficient UDBE participation to meet the COA Contract goal has been unsuccessful and good faith effort will be submitted in accordance with Section 1-02.9 of the Contract



**Underutilized Disadvantaged Business
Enterprise (UDBE) Written
Confirmation Document**

See Contract Provisions: *UDBE Document Submittal Requirements*
Disadvantaged Business Enterprise Participation

THIS FORM SHALL ONLY BE SUBMITTED TO A UDBE THAT IS LISTED ON THE CONTRACTOR'S UNDERUTILIZED DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION CERTIFICATION.

THE CONTRACTOR SHALL COMPLETE PART A PRIOR TO SENDING TO THE UDBE.

PART A: To be completed by the bidder

The entries below shall be consistent with what is shown on the Bidder's Underutilized Disadvantaged Business Enterprise Utilization Certification. Failure to do so will result in Bid rejection.

Contract Title: _____

Bidder's Business Name: _____

UDBE's Business Name: _____

Description of UDBE's Work: _____

Dollar Amount to be Applied Towards UDBE Goal: _____

Dollar Amount to be Subcontracted to UDBE*: _____
*Optional Field

PART B: To be completed by the Underutilized Disadvantaged Business Enterprise

As an authorized representative of the Underutilized Disadvantaged Business Enterprise, I confirm that we have been contacted by the Bidder with regard to the referenced project for the purpose of performing the Work described above. If the Bidder is awarded the Contract, we will enter into an agreement with the Bidder to participate in the project consistent with the information provided in Part A of this form.

Name (printed): _____

Signature: _____

Title: _____

Address: _____ Date: _____



Underutilized Disadvantaged Business Enterprise (UDBE) Bid Item Breakdown Form

1. Contract Number		2. Contract Name	
3. Prime Contractor		4. Prime Contractor Representative Name	
5. Prime Contractor Representative Phone Number		6. Prime Contractor Representative Email	

Column 1 Name of UDBE (See Instructions)	Column 2 Bid Item # (See Instructions)	Column 3 Full/Partial (See Instructions)	Column 4 Quantity (See Instructions)	Column 5 Description (See Instructions)	Column 6 Unit Price (See Instructions)	Column 7 Total Unit Cost (See Instructions)	Column 8 Dollar Amount to be Applied Towards Goal (See Instructions)
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
TOTAL UDBE Dollar Amount:						\$ 0.00	\$ 0.00

Submit this form to DBEDOC@wsdot.wa.gov

Underutilized Disadvantaged Business Enterprise (UDBE) Trucking Credit Form

PART A: TO BE COMPLETED BY THE BIDDER

This form is in support of the trucking commitment identified on the UDBE Utilization Certification Form submitted with the proposal. Please note that UDBE's must be certified prior to time of submittal.

Federal Aid #	Contract #	Project Name
If listing items by hours, or by lump sum amounts, please provide calculations to substantiate the quantities listed.		
Bid Item	Item Description	

Use additional sheets as necessary.

Bidder		Name/Title (please print)
Phone	Fax	Signature
Address		
Email		I certify that the above information is complete and accurate.
		Date

PART B: TO BE COMPLETED BY THE UDBE TRUCKING FIRM

Note: DBE/UDBE trucking firm participation may only be credited as DBE/UDBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also recognized as a supplier of the materials used on the project and approved for this project as a regular dealer.

1. Type of Material expected to be hauled? _____
2. Number of fully operational trucks expected to be used on this project? _____ Tractor/trailers: _____ Dump trucks: _____
3. Number of trucks and trailers owned by the UDBE that will be used on this project? _____ Tractor/trailers: _____ Dump trucks: _____
4. Number of trucks and trailers leased by the UDBE that will be used on this project? _____ Tractor/trailers: _____ Dump trucks: _____

UDBE Firm Name		Name/Title (please print)
Certification Number		
Phone	Fax	Signature
Address		
Email		I certify that the above information is complete and accurate.
		Date

Submit this form to DBEDOC@wsdot.wa.gov.

Instruction to Bidder: The Bidder shall complete and submit the Underutilized Disadvantaged Business Enterprise (UDBE) Trucking Credit Form in accordance with Section 1-02.9 of the Contract.

INSTRUCTIONS

Please note – All Fields are required

PART A: TO BE COMPLETED BY THE BIDDER

Federal Aid: Include the project federal-aid number.

County: Specify the County where the project will take place.

Contract #: Specify the Project Contract Number which can be found in the Engineer's estimate bid check report.

Bid Item: Provide the Bid Item Number (as it appears in the engineer's estimate bid check report) for which trucking services will be utilized.

Item Description: Provide description of the bid item (as it appears in the engineer's estimate bid check report) for which trucking will be utilized.

Bidder: In this section, provide the bidder's legal name, title, Business address, Phone and email.

The bidder's representative signature is required in addition to the date the form was signed.

PART B: TO BE COMPLETED BY THE UDBE TRUCKING FIRM

Question 1: Specify type of material that will be hauled (i.e. Sand, HMA, gravel)

Question 2: Specify the total number of operational trucks that will be used on the project.

Question 3: Specify the total number of operational trucks and trailers owned by the UDBE that will be used on the project.

Question 4: Specify the total number of operational trucks and trailers leased by the UDBE that will be used on the project.

UDBE Firm: In this section, provide the UDBE Firm's legal name, UDBE Firm's representative legal name and title, certification Number (Found in the firm's OMWBE profile page in the OMWBE directory), Business address, Phone, fax and email.

The UDBE Firm's representative signature is required in addition to the date the form was signed.

ACKNOWLEDGMENT

SPECIFICATION NO. PW20-0261F

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

The undersigned hereby agrees to pay labor not less than the prevailing rates of wages in accordance with the requirements of the Special provisions for this project.

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

CASH _____ IN THE AMOUNT OF _____
CASHIER'S CHECK _____ _____ Dollars
CERTIFIED CHECK _____ (\$_____) PAYABLE TO THE CITY TREASURER
BID BOND _____ IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID

**Receipt is hereby acknowledged of Addendum No.(s) ____, ____, ____, & ____.

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Firm Name _____

Signed and sworn to (or affirmed) before me on _____
Date

Notary Public

My appointment expires _____
(Seal or Stamp)

NOTE:

1. This bid proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Secretary of Transportation will be cause for considering the bid proposal irregular and subsequent rejection of the bid.
2. Please refer to Section 1-02.6 of the standard Specification, re: "Preparation of Proposal," or "Article 4" of the Instructions to Bidders for building construction jobs.

CONTRACT

Resolution No.
Contract No.

This Contract is made and entered into effective this _____ day of ,20____, ("Effective Date") by and between the City of Tacoma, a Municipal Corporation of the State of Washington ("City"), and legal name of Supplier including type of business entity ("Contractor").

That in consideration of the mutual promises and obligations hereinafter set forth the Parties hereto agree as follows:

- I. Contractor shall fully execute and diligently and completely perform all work and provide all services and deliverables described herein and in the items listed below each of which are fully incorporated herein and which collectively are referred to as "Contract Documents":

-
1. Specification No. Enter Spec Number and Enter Spec Title together with all authorized addenda.
 2. Contractor's submittal (or specifically described portions thereof) dated Enter Submittal Date submitted in response to Specification No. Enter Spec Number and Enter Spec Title.
 3. Describe with specific detail and list separately any other documents that will make up the contract (fee schedule, work schedule, authorized personnel, etc.) or any other additional items mutually intended to be binding upon the parties.
-

Delete this highlighted sentence, paragraph II and sub-bullets #1 and #2 if there are no additional attachments to the contract (attachments would be things other than a specific, contract, or bonds).

- II. In the event of a conflict or inconsistency between the terms and conditions contained in this document entitled Contract and any terms and conditions contained the above referenced Contract Documents the following order of precedence applies with the first listed item being the most controlling and the last listed item the least controlling:
1. Contract
 2. List remaining Contract Documents in applicable controlling order.
- III. The Contract terminates on xxxxx. {May remove if not applicable}
- IV. The total price to be paid by City for Contracts full and complete performance hereunder may not exceed:
\$ _____, plus any applicable taxes.
- V. Contractor agrees to accept as full payment hereunder the amounts specified herein and in Contract Documents, and the City agrees to make payments at the times and in the manner and upon the terms and conditions specified. Except as may be otherwise provided herein or in Contract Documents Contractor shall provide and bear the expense of all equipment, work and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work and providing the services and deliverables required by this Contract.
- VI. The City's preferred method of payment is by ePayables (Payment Plus), followed by credit card (aka procurement card), then Electronic Funds Transfer (EFT) by Automated Clearing House (ACH), then check or other cash equivalent. CONTRACTOR may be required to have the capability of accepting the City's ePayables or credit card methods of payment. The City of Tacoma will not accept price changes or pay additional fees when ePayables (Payment Plus) or credit card is used. The City, in its sole discretion, will determine the method of payment for this Contract.
- VII. Failure by City to identify a deficiency in the insurance documentation provided by Contractor or failure of City to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- VIII. Contractor acknowledges, and by signing this Contract agrees, that the Indemnification provisions set forth in the controlling Contract Documents, including the Industrial Insurance immunity waiver (if applicable), are totally and fully part of this Contract and, within the context of the competitive bidding laws, have been mutually negotiated by the Parties hereto.

- IX. Contractor and for its heirs, executors, administrators, successors, and assigns, does hereby agree to the full performance of all the requirements contained herein and in Contract Documents.
- X. It is further provided that no liability shall attach to City by reason of entering into this Contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Parties hereto have accepted and executed, as of the Effective Date stated above, which shall be Effective Date for bonding purposes as applicable.

CITY OF TACOMA:

CONTRACTOR:

By:

By:

(City of Tacoma use only - blank lines are intentional)

Director of Finance: _____

City Attorney (approved as to form): _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____



PAYMENT BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned,

as principal, and _____
as a surety, are jointly and severally held and firmly bound to the CITY OF TACOMA, in the penal sum of,
\$ _____, for the payment whereof Contractor and Surety bind themselves,
their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

This obligation is entered into in pursuance of the statutes of the State of Washington, the Ordinances of the City of Tacoma.

WHEREAS, under and pursuant to the City Charter and general ordinances of the City of Tacoma, the said City has or is about to enter with the above bounden principal, a contract, providing for

Specification No. _____

Specification Title: _____

Contract No. _____

(which contract is referenced to herein and is made a part hereof as though attached hereto), and

WHEREAS, the said principal has accepted, the said contract, and undertake to perform the work therein provided for in the manner and within the time set forth.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW 39.08, 39.12, and 60.28, including all workers, laborers, mechanics, subcontractors, and materialmen, and all person who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Titles 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract shall in any way affect its obligation on this bond, and waives notice of any changes, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

No suit or action shall be commenced hereunder by any claimant unless claimant shall have given the written notices to the City, and where required, the Contractor, in accordance with RCW 39.08.030.

The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of claims which may be properly filed in accordance with RCW 39.08 whether or not suit is commenced under and against this bond.

If any claimant shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgment and attorney fees as provided by RCW 39.08.030, shall also pay such costs and attorney fees as may be incurred by the City as a result of such suit. Venue for any action arising out of or in connection with this bond shall be in Pierce County, WA.

Surety companies executing bonds must be authorized to transact business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Department of the Treasury.

Resolution No.
Bond No.
Specification No.
Contract No.

One original bond shall be executed, and be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: _____

Surety:

By: _____

Agent's Name: _____

Agent's Address: _____

SAMPLE



PERFORMANCE BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned,

as principal, and

as a surety, are jointly and severally held and firmly bound to the CITY OF TACOMA, in the penal sum of

\$ _____, for the payment whereof Contractor and Surety bind themselves,

their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

This obligation is entered into in pursuance of the statutes of the State of Washington, the Ordinances of the City of Tacoma.

WHEREAS, under and pursuant to the City Charter and general ordinances of the City of Tacoma, the said City has or is about to enter with the above bounden principal, a contract, providing for

Specification No. _____

Specification Title: _____

Contract No. _____

(which contract is referenced to herein and is made a part hereof as though attached hereto), and

WHEREAS, the said principal has accepted, the said contract, and undertake to perform the work therein provided for in the manner and within the time set forth.

This statutory performance bond shall become null and void, if and when the principal, its heirs, executors, administrators, successors, or assigns shall well and faithfully perform all of the Principal's obligations under the Contract and fulfill all terms and conditions of all duly authorized modifications, additions and changes to said Contract that may hereafter be made, at the time and in the manner therein specified; and if such performance obligations have not been fulfilled, this bond shall remain in force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increase.

If the City shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgement, shall pay all costs and attorney's fees incurred by the City in enforcement of its rights hereunder. Venue for any action arising out of in connection with this bond shall be in Pierce County, Washington.

Surety companies executing bonds must be authorized to transact business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Department of the Treasury.

One original bond shall be executed, and signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: _____

Surety:

By: _____

Agent's Name: _____

Agent's Address: _____

GENERAL RELEASE TO THE CITY OF TACOMA

The undersigned, named as the contractor for _____
between _____ and the City of Tacoma,
(Themselves or Itself)
dated _____, 20____, hereby releases the City of Tacoma, its departmental officers and agents from any and all claim or claims whatsoever in any manner whatsoever at any time whatsoever arising out of and/or in connection with and/or relating to said contract, excepting only the equity of the undersigned in the amount now retained by the City of Tacoma under said contract, to-wit the sum of \$_____.

Signed at Tacoma, Washington this _____ day of _____, 20____.

Contractor

By _____

Title _____

PART II

REQUIRED FEDERAL AID CONTRACT PROVISIONS

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

FHWA-1273 -- Revised May 1, 2012

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with

the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this

contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and

mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may,

after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and

individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual

was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or

general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or

voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--
Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

AMENDMENT

REQUIRED CONTRACT PROVISIONS

(Exclusive of Appalachian Contracts)

FEDERAL-AID CONSTRUCTION CONTRACTS

The Federal-Aid provisions are supplemented with the following:

XII. Cargo Preference Act

1. U.S. Department of Transportation Federal Highway Administration memorandum dated December 11, 2015 requires that all federal-aid highway programs awarded after February 15, 2016 must comply with the Cargo Preference Act and its regulation of 46 CFR 381.7 (a)-(b).

PART III

SPECIAL PROVISIONS

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1 **INTRODUCTION TO THE SPECIAL PROVISIONS**
2 **(August 14, 2013 APWA GSP)**
3

4 The work on this project shall be accomplished in accordance with the Standard
5 Specifications for Road, Bridge and Municipal Construction, 2020 edition, as issued by
6 the Washington State Department of Transportation (WSDOT) and the American Public
7 Works Association (APWA), Washington State Chapter (hereafter "Standard
8 Specifications"). The Standard Specifications, as modified or supplemented by the
9 Amendments to the Standard Specifications and these Special Provisions, all of which
10 are made a part of the Contract Documents, shall govern all of the Work.
11

12 These Special Provisions are made up of both General Special Provisions (GSPs) from
13 various sources, which may have project-specific fill-ins; and project-specific Special
14 Provisions. Each Provision either supplements, modifies, or replaces the comparable
15 Standard Specification, or is a new Provision. The deletion, amendment, alteration, or
16 addition to any subsection or portion of the Standard Specifications is meant to pertain
17 only to that particular portion of the section, and in no way should it be interpreted that
18 the balance of the section does not apply.
19

20 The project-specific Special Provisions are not labeled as such. The GSPs are labeled
21 under the headers of each GSP, with the effective date of the GSP and its source. For
22 example:
23

24 **(March 8, 2013 APWA GSP)**
25 **(April 1, 2013 WSDOT GSP)**
26 **(May 1, 2013 Tacoma GSP)**
27

28 Also incorporated into the Contract Documents by reference are:

- 29 • *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently
30 adopted edition, with Washington State modifications, if any
- 31 • *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA,
32 current edition
- 33 • City of Tacoma Standard Plans
- 34 • City of Tacoma Traffic Control Handbook
35

36 Contractor shall obtain copies of these publications, at Contractor's own expense
37
38

39 **DESCRIPTION OF WORK**
40 **(March 13, 1995)**
41

42 This Contract provides for the improvement of the traffic signal systems at the S 19th St /
43 Tacoma Ave and S 19th St / Yakima Ave intersections, including the creation of
44 protected left turn signal phasing and the installation of all associated hardware, the
45 installation of high visibility crosswalk striping, the restoration of asphalt pavement,
46 concrete pavement, concrete curb and gutter, and concrete sidewalk, and other work, all
47 in accordance with the attached Contract Plans, these Contract Provisions, and the
48 Standard Specifications.
49

50 **END OF SECTION**
51

1 **1-01 DEFINITIONS AND TERMS**

2
3 **1-01.3 Definitions**

4 **(January 4, 2016 APWA GSP)**

5
6 *Delete the heading Completion Dates and the three paragraphs that follow it, and*
7 *replace them with the following:*

8
9 **Dates**

10 ***Bid Opening Date***

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

12 ***Award Date***

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

15 ***Contract Execution Date***

16 The date the Contracting Agency officially binds the Agency to the Contract.

17 ***Notice to Proceed Date***

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

19 ***Substantial Completion Date***

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

25 ***Physical Completion Date***

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

29 ***Completion Date***

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

34 ***Final Acceptance Date***

35 The date on which the Contracting Agency accepts the Work as complete.

36
37 *Supplement this Section with the following:*

38
39 All references in the Standard Specifications, Amendments, or WSDOT General Special
40 Provisions, to the terms "Department of Transportation", "Washington State
41 Transportation Commission", "Commission", "Secretary of Transportation", "Secretary",
42 "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

43
44 All references to the terms "State" or "state" shall be revised to read "Contracting
45 Agency" unless the reference is to an administrative agency of the State of Washington,
46 a State statute or regulation, or the context reasonably indicates otherwise.

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

3
4 All references to "final contract voucher certification" shall be interpreted to mean the
5 Contracting Agency form(s) by which final payment is authorized, and final completion
6 and acceptance granted.

7
8 **Additive**

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

12
13 **Alternate**

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

17
18 **Business Day**

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

21
22 **Contract Bond**

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

26
27 **Contract Documents**

28 See definition for "Contract".

29
30 **Contract Time**

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

33
34 **Notice of Award**

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

37
38 **Notice to Proceed**

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

42
43 **Traffic**

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

46
47 *This section is supplemented with the following:*
48 **(April 1, 2018 Tacoma GSP)**

49
50 All references in the Standard Specifications to the term "Proposal Bond" shall be
51 revised to read "Bid Bond."

1 **Base Bid**

2 The summation of Bid Item amounts (extensions) in the Bid Forms, excluding Additives,
3 Alternates, Deductives, Force Accounts, and taxes collected separately pursuant to
4 Section 1-07.2.

5
6 **Calendar Day**

7 The time period of 24 hours measured from midnight to the next midnight, including
8 weekends and holidays.

9
10 **Change Order**

11 A written order to the Contractor, issued by the Contracting Agency after execution of
12 the contract, authorizing an addition, deletion, or other revision in the Work, within the
13 scope of the Contract Documents, and establishing the basis of payment and time
14 adjustments, if any, for the Work affected by the change.

15
16 **Day**

17 Unless otherwise specified, a calendar day.

18
19 **Deductive**

20 A supplemental unit of work or group of Bid Items, identified separately in the Bid, which
21 may, at the discretion of the Contract Agency, be deducted from the Base Bid should the
22 Contract Agency choose not to Award the total Base Bid.

23
24 **Grand Total Price**

25 The Grand Total Price of the Contract will include the Base Bid, Additives, Alternates,
26 Deductives, Force Accounts, and taxes collected separately pursuant to Section 1-07.2.

27
28 **Standard Specifications**

29 Divisions One through Nine of the specified edition of the WSDOT "Standard
30 Specifications for Road, Bridge, and Municipal Construction."

31
32
33 **END OF SECTION**
34
35

1 **1-02 BID PROCEDURES AND CONDITIONS**

2
3 **1-02.1 Prequalification of Bidders**

4 *Delete this section and replace it with the following:*

5
6 **1-02.1 Qualifications of Bidder**
7 **(January 24, 2011 APWA GSP)**

8
9 Before award of a public works contract, a bidder must meet at least the minimum
10 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified
11 to be awarded a public works project.

12
13 **1-02.2 Plans and Specifications**
14 **(June 27, 2011 APWA GSP)**

15 *Delete this section and replace it with the following:*

16
17 Information as to where Bid Documents can be obtained or reviewed can be found in the
18 Call for Bids (Advertisement for Bids) for the work.

19
20 After award of the contract, plans and specifications will be issued to the Contractor at
21 no cost as detailed below:

22

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	6	Furnished automatically upon award.
Contract Provisions	6	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	Furnished only upon request.

23
24 Additional plans and Contract Provisions may be obtained by the Contractor from the
25 source stated in the Call for Bids, at the Contractor's own expense.

26
27 **1-02.4(1) General**
28 **(August 15, 2016 APWA GSP Option B)**

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

31
32 Any prospective Bidder desiring an explanation or interpretation of the Bid Documents,
33 shall request the explanation or interpretation in writing by close of business 6 business
34 days preceding the bid opening to allow a written reply to reach all prospective Bidders
35 before the submission of their Bids.

36
37 **1-02.5 Proposal Forms**
38 **(July 31, 2017 APWA GSP)**

39 *Delete this section and replace it with the following:*

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

11
12 The Contracting Agency reserves the right to arrange the proposal forms with alternates
13 and additives, if such be to the advantage of the Contracting Agency. The bidder shall
14 bid on all alternates and additives set forth in the Proposal Form unless otherwise
15 specified.

16
17 **1-02.6 Preparation of Proposal**
18 **(July 11, 2018 APWA GSP)**
19

20 *Supplement the second paragraph with the following:*

- 21 4. If a minimum bid amount has been established for any item, the unit or lump
22 sum price must equal or exceed the minimum amount stated.
23 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be
24 initialed by the signer of the bid.

25
26 *Delete the last two paragraphs, and replace them with the following:*
27

28 If no Subcontractor is listed, the Bidder acknowledges that it does not intend to use any
29 Subcontractor to perform those items of work.

30
31 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law
32 Compliance form, provided by the Contracting Agency. Failure to return this certification
33 as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for
34 Award. A Contractor Certification of Wage Law Compliance form is included in the
35 Proposal Forms.

36
37 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.
38

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

41
42 A bid by a partnership shall be executed in the partnership name, and signed by a
43 partner. A copy of the partnership agreement shall be submitted with the Bid Form if any
44 UDBE requirements are to be satisfied through such an agreement.

45
46 A bid by a joint venture shall be executed in the joint venture name and signed by a
47 member of the joint venture. A copy of the joint venture agreement shall be submitted
48 with the Bid Form if any UDBE requirements are to be satisfied through such an
49 agreement.

1 **1-02.6(1) Recycled Materials Proposal**
2 **(January 4, 2016 APWA GSP)**

3
4 The Bidder shall submit with the Bid, its proposal for incorporating recycled materials
5 into the project, using the form provided in the Contract Provisions.
6

7 **1-02.7 Bid Deposit**
8 **(April 1, 2012 Tacoma GSP)**

9 *Delete this section and replace it with the following:*

10
11 A deposit of at least 5 percent of the total Bid shall accompany each Bid. This deposit
12 may be cash, certified check, cashier's check, or a proposal bond (Surety bond). Any
13 proposal bond shall be on a form acceptable to the Contracting Agency and shall be
14 signed by the Bidder and the Surety. A proposal bond shall not be conditioned in any
15 way to modify the minimum 5 percent required. The Surety shall: (1) be registered with
16 the Washington State Insurance Commissioner, and (2) appear on the current
17 Authorized Insurance List in the State of Washington published by the Office of the
18 Insurance Commissioner.
19

20 The failure to furnish a Bid deposit of a minimum of 5 percent shall make the Bid
21 nonresponsive and shall cause the Bid to be rejected by the Contracting Agency.
22

23 If a Bid Bond is furnished, the form furnished by the Contracting Agency must be
24 followed. No variations from the language thereof will be accepted.
25

26
27 If submitting your bid electronically, a scanned version of the original bid bond must
28 accompany your electronic bid submittal. The original bid bond shall be sent to the
29 Contracting Agency and postmarked no later than the day of bid opening. **Original**
30 **bid bonds will be delivered to:**

31
32 **City of Tacoma Procurement & Payables Division**
33 **Tacoma Public Utilities**
34 **P.O. Box 11007**
35 **Tacoma, WA 98411-0007**
36
37

38 If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.
39

40 **1-02.9 Delivery of Proposal**
41 **(*****)**

42
43 *Delete this section and replace it with the following:*
44

45 Each Proposal shall be submitted to the City electronically via email to
46 bids@cityoftacoma.org, with the Project Name as stated in the Call for Bids noted on
47 the subject line of the email, or as otherwise required in the Bid Documents, to
48 ensure proper handling and delivery. All electronic documents shall be in PDF
49 format.
50

To be considered responsive on a FHWA-funded project, the Bidder may be required to submit the following items, as required by Section 1-02.6:

- UDBE Written Confirmation Document from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification (WSDOT 272-056U)
- Good Faith Effort (GFE) Documentation
- UDBE Bid Item Breakdown (WSDOT 272-054)
- UDBE Trucking Credit Form (WSDOT 272-058)

These documents, if applicable, shall be received either with the Bid Proposal or as a supplement to the Bid. These documents shall be received **no later than 48 hours** (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) must be submitted via email to bids@cityoftacoma.org, with "Supplemental Information" noted in the subject line. 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.

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" (UDBE confirmations, or GFE documentation) that is received after the time specified above, 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.

1-02.10 Withdrawing, Revising, or Supplementing Proposal (***)**

Delete this section, and replace it with the following:

After submitting an electronic 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 emails it to bids@cityoftacoma.org, 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.

The Bidder's written request to revise or supplement a Bid Proposal must be accompanied by the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

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

1-02.12 Public Opening of Proposals (***)**

The first paragraph of this section shall be deleted and replaced with the following:

Proposals will be opened and publicly read via webcast at the time indicated in the call for Bids unless the Bid opening has been delayed or canceled. The link for the webcast will be provided on the call for Bids page.

Preliminary and final bid results are posted at www.TacomaPurchasing.org

1-02.13 Irregular Proposals (December 19, 2019 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
 - i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
 - j. The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;

- k. The Bidder fails to submit a UDBE Bid Item Breakdown form, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
 - l. The Bidder fails to submit UDBE Trucking Credit Forms, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
 - m. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
 - n. More than one Proposal is submitted for the same project from a Bidder under the same or different names.
2. A Proposal may be considered irregular and may be rejected if:
- a. The Proposal does not include a unit price for every Bid item;
 - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
 - c. Receipt of Addenda is not acknowledged;
 - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
 - e. If Proposal form entries are not made in ink.

1-02.14 Disqualification of Bidders (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 **1-02.15 Pre Award Information**
2 **(August 14, 2013 APWA GSP)**
3

4 *Revise this section to read:*
5

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

- 8 1. A complete statement of the origin, composition, and manufacture of any or all
9 materials to be used,
- 10 2. Samples of these materials for quality and fitness tests,
- 11 3. A progress schedule (in a form the Contracting Agency requires) showing the
12 order of and time required for the various phases of the work,
- 13 4. A breakdown of costs assigned to any bid item,
- 14 5. Attendance at a conference with the Engineer or representatives of the Engineer,
- 15 6. Obtain, and furnish a copy of, a business license to do business in the city or
16 county where the work is located.
- 17 7. Any other information or action taken that is deemed necessary to ensure that
18 the bidder is the lowest responsible bidder.
19
20

21 **END OF SECTION**
22

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids

(January 23, 2006 APWA GSP)

Revise the first paragraph to read:

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

1-03.1(1) Identical Bid Totals

(January 4, 2016 APWA GSP)

Revise this section to read:

After opening Bids, if two or more lowest responsive Bid totals are exactly equal, then the tie-breaker will be the Bidder with an equal lowest bid, that proposed to use the highest percentage of recycled materials in the Project, per the form submitted with the Bid Proposal. If those percentages are also exactly equal, then the tie-breaker will be determined by drawing as follows: Two or more slips of paper will be marked as follows: one marked "Winner" and the other(s) marked "unsuccessful". The slips will be folded to make the marking unseen. The slips will be placed inside a box. One authorized representative of each Bidder shall draw a slip from the box. Bidders shall draw in alphabetic order by the name of the firm as registered with the Washington State Department of Licensing. The slips shall be unfolded and the firm with the slip marked "Winner" will be determined to be the successful Bidder and eligible for Award of the Contract. Only those Bidders who submitted a Bid total that is exactly equal to the lowest responsive Bid, and with a proposed recycled materials percentage that is exactly equal to the highest proposed recycled materials amount, are eligible to draw.

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

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

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

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

6
7 If the bidder experiences circumstances beyond their control that prevents return of the
8 contract documents within the calendar days after the award date stated above, the
9 Contracting Agency may grant up to a maximum of 10 additional calendar days for
10 return of the documents, provided the Contracting Agency deems the circumstances
11 warrant it.

12
13 **1-03.4 Contract Bond**
14 **(July 23, 2015 APWA GSP)**

15 *Delete the first paragraph and replace it with the following:*

16
17 The successful bidder shall provide executed payment and performance bond(s) for the
18 full contract amount. The bond may be a combined payment and performance bond; or
19 be separate payment and performance bonds. In the case of separate payment and
20 performance bonds, each shall be for the full contract amount. The bond(s) shall:

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

47
48 **END OF SECTION**

1 **1-04 SCOPE OF THE WORK**

2
3 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**
4 **Specifications, and Addenda**
5 **(March 13, 2012 APWA GSP)**

6 *Revise the second paragraph to read:*

7
8 Any inconsistency in the parts of the contract shall be resolved by following this order of
9 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

- 10 1. Addenda,
11 2. Proposal Form,
12 3. Special Provisions,
13 4. Contract Plans,
14 5. Amendments to the Standard Specifications,
15 6. Standard Specifications,
16 7. Contracting Agency's Standard Plans or Details (if any), and
17 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

18
19
20 **END OF SECTION**
21
22

1 **1-05 CONTROL OF WORK**

2
3 **1-05.4 Conformity With and Deviations from Plans and Stakes**

4
5 Supplement this section with the following:

6
7 **Roadway and Utility Surveys**
8 **(July 23, 2015 APWA GSP, Option 1)**
9

10 The Engineer shall furnish to the Contractor one time only all principal lines, grades,
11 and measurements the Engineer deems necessary for completion of the work.

12 These shall generally consist of one initial set of:

- 13 1. Slope stakes for establishing grading;
14 2. Curb grade stakes;
15 3. Centerline finish grade stakes for pavement sections wider than 25 feet; and
16 4. Offset points to establish line and grade for underground utilities such as water,
17 sewers, and storm drains.

18
19 On alley construction projects with minor grade changes, the Engineer shall provide
20 only offset hubs on one side of the alley to establish the alignment and grade.

21
22 **1-05.7 Removal of Defective and Unauthorized Work**
23 **(October 1, 2005 APWA GSP)**

24 *Supplement this section with the following:*

25
26 If the Contractor fails to remedy defective or unauthorized work within the time specified
27 in a written notice from the Engineer, or fails to perform any part of the work required by
28 the Contract Documents, the Engineer may correct and remedy such work as may be
29 identified in the written notice, with Contracting Agency forces or by such other means
30 as the Contracting Agency may deem necessary.

31
32 If the Contractor fails to comply with a written order to remedy what the Engineer
33 determines to be an emergency situation, the Engineer may have the defective and
34 unauthorized work corrected immediately, have the rejected work removed and
35 replaced, or have work the Contractor refuses to perform completed by using
36 Contracting Agency or other forces. An emergency situation is any situation when, in the
37 opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause
38 serious risk of loss or damage to the public.

39
40 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
41 remedying defective or unauthorized work, or work the Contractor failed or refused to
42 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
43 monies due, or to become due, the Contractor. Such direct and indirect costs shall
44 include in particular, but without limitation, compensation for additional professional
45 services required, and costs for repair and replacement of work of others destroyed or
46 damaged by correction, removal, or replacement of the Contractor's unauthorized work.

47
48 No adjustment in Contract time or compensation will be allowed because of the delay in
49 the performance of the work attributable to the exercise of the Contracting Agency's
50 rights provided by this Section.

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

4 5 **1-05.11 Final Inspection**

6 *Delete this section and replace it with the following:*

7 8 **1-05.11 Final Inspections and Operational Testing** 9 **(October 1, 2005 APWA GSP)**

10 11 **1-05.11(1) Substantial Completion Date**

12
13 When the Contractor considers the work to be substantially complete, the Contractor
14 shall so notify the Engineer and request the Engineer establish the Substantial
15 Completion Date. The Contractor's request shall list the specific items of work that
16 remain to be completed in order to reach physical completion. The Engineer will
17 schedule an inspection of the work with the Contractor to determine the status of
18 completion. The Engineer may also establish the Substantial Completion Date
19 unilaterally.

20
21 If, after this inspection, the Engineer concurs with the Contractor that the work is
22 substantially complete and ready for its intended use, the Engineer, by written notice to
23 the Contractor, will set the Substantial Completion Date. If, after this inspection the
24 Engineer does not consider the work substantially complete and ready for its intended
25 use, the Engineer will, by written notice, so notify the Contractor giving the reasons
26 therefore.

27
28 Upon receipt of written notice concurring in or denying substantial completion, whichever
29 is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized
30 interruption, the work necessary to reach Substantial and Physical Completion. The
31 Contractor shall provide the Engineer with a revised schedule indicating when the
32 Contractor expects to reach substantial and physical completion of the work.

33
34 The above process shall be repeated until the Engineer establishes the Substantial
35 Completion Date and the Contractor considers the work physically complete and ready
36 for final inspection.

37 38 **1-05.11(2) Final Inspection and Physical Completion Date**

39
40 When the Contractor considers the work physically complete and ready for final
41 inspection, the Contractor by written notice, shall request the Engineer to schedule a
42 final inspection. The Engineer will set a date for final inspection. The Engineer and the
43 Contractor will then make a final inspection and the Engineer will notify the Contractor in
44 writing of all particulars in which the final inspection reveals the work incomplete or
45 unacceptable. The Contractor shall immediately take such corrective measures as are
46 necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously,
47 diligently, and without interruption until physical completion of the listed deficiencies.
48 This process will continue until the Engineer is satisfied the listed deficiencies have been
49 corrected.

1 If action to correct the listed deficiencies is not initiated within 7 days after receipt of the
2 written notice listing the deficiencies, the Engineer may, upon written notice to the
3 Contractor, take whatever steps are necessary to correct those deficiencies pursuant to
4 Section 1-05.7.

5 The Contractor will not be allowed an extension of Contract time because of a delay in
6 the performance of the work attributable to the exercise of the Engineer's right
7 hereunder.

8
9 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
10 Contracting Agency, in writing, of the date upon which the work was considered
11 physically complete. That date shall constitute the Physical Completion Date of the
12 Contract, but shall not imply acceptance of the work or that all the obligations of the
13 Contractor under the contract have been fulfilled.

14 15 **1-05.11(3) Operational Testing**

16
17 It is the intent of the Contracting Agency to have at the Physical Completion Date a
18 complete and operable system. Therefore when the work involves the installation of
19 machinery or other mechanical equipment; street lighting, electrical distribution or signal
20 systems; irrigation systems; buildings; or other similar work it may be desirable for the
21 Engineer to have the Contractor operate and test the work for a period of time after final
22 inspection but prior to the physical completion date. Whenever items of work are listed in
23 the Contract Provisions for operational testing they shall be fully tested under operating
24 conditions for the time period specified to ensure their acceptability prior to the Physical
25 Completion Date. During and following the test period, the Contractor shall correct any
26 items of workmanship, materials, or equipment which prove faulty, or that are not in first
27 class operating condition. Equipment, electrical controls, meters, or other devices and
28 equipment to be tested during this period shall be tested under the observation of the
29 Engineer, so that the Engineer may determine their suitability for the purpose for which
30 they were installed. The Physical Completion Date cannot be established until testing
31 and corrections have been completed to the satisfaction of the Engineer.

32
33 The costs for power, gas, labor, material, supplies, and everything else needed to
34 successfully complete operational testing, shall be included in the unit Contract prices
35 related to the system being tested, unless specifically set forth otherwise in the proposal.

36
37 Operational and test periods, when required by the Engineer, shall not affect a
38 manufacturer's guaranties or warranties furnished under the terms of the Contract.

39
40 *Add the following new section:*

41 42 **1-05.13 Superintendents, Labor and Equipment of Contractor** 43 **(August 14, 2013 APWA GSP)**

44
45 *Delete the sixth and seventh paragraphs of this section.*
46
47
48
49
50

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

3 *Revise the second paragraph to read:*

4
5 All correspondence from the Contractor shall be directed to the Project Engineer. All
6 correspondence from the Contractor constituting any notification, notice of protest, notice
7 of dispute, or other correspondence constituting notification required to be furnished
8 under the Contract, must be in paper format, hand delivered or sent via mail delivery
9 service to the Project Engineer's office. Electronic copies such as e-mails or
10 electronically delivered copies of correspondence will not constitute such notice and will
11 not comply with the requirements of the Contract.

12
13 *Add the following new section:*

14
15 **1-05.16 Water and Power**
16 **(October 1, 2005 APWA GSP)**

17
18 The Contractor shall make necessary arrangements, and shall bear the costs for power
19 and water necessary for the performance of the work, unless the Contract includes
20 power and water as a pay item.

21
22 **END OF SECTION**
23

1 **1-06 CONTROL OF MATERIAL**

2
3 ***Buy America***

4
5 **(August 6, 2012)**

6 In accordance with Buy America requirements contained in 23 CFR 635.410, the major
7 quantities of steel and iron construction material that is permanently incorporated into
8 the project shall consist of American-made materials only. Buy America does not apply
9 to temporary steel items, e.g., temporary sheet piling, temporary bridges, steel
10 scaffolding and falsework.

11
12 Minor amounts of foreign steel and iron may be utilized in this project provided the cost
13 of the foreign material used does not exceed one-tenth of one percent of the total
14 contract cost or \$445, whichever is greater.

15
16 American-made material is defined as material having all manufacturing processes
17 occurring domestically. To further define the coverage, a domestic product is a
18 manufactured steel material that was produced in one of the 50 States, the District of
19 Columbia, Puerto Rico, or in the territories and possessions of the United States.

20
21 If domestically produced steel billets or iron ingots are exported outside of the area of
22 coverage, as defined above, for any manufacturing process then the resulting product
23 does not conform to the Buy America requirements. Additionally, products manufactured
24 domestically from foreign source steel billets or iron ingots do not conform to the Buy
25 America requirements because the initial melting and mixing of alloys to create the
26 material occurred in a foreign country.

27
28 Manufacturing begins with the initial melting and mixing, and continues through the
29 coating stage. Any process which modifies the chemical content, the physical size or
30 shape, or the final finish is considered a manufacturing process. The processes include
31 rolling, extruding, machining, bending, grinding, drilling, welding, and coating. The action
32 of applying a coating to steel or iron is deemed a manufacturing process. Coating
33 includes epoxy coating, galvanizing, aluminizing, painting, and any other coating that
34 protects or enhances the value of steel or iron. Any process from the original reduction
35 from ore to the finished product constitutes a manufacturing process for iron.

36
37 Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and
38 alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced
39 iron ore.

40
41 The following are considered to be steel manufacturing processes:

- 42
43 1. Production of steel by any of the following processes:
- 44 a. Open hearth furnace.
 - 45 b. Basic oxygen.
 - 46 c. Electric furnace.
 - 47 d. Direct reduction.
- 48
49 2. Rolling, heat treating, and any other similar processing.
- 50
51
52
53
54

3. Fabrication of the products

- a. Spinning wire into cable or strand.
- b. Corrugating and rolling into culverts.
- c. Shop fabrication.

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

(*****)

The contract specifications include the following proprietary items which use \$13.76 of the foreign steel exemption:

#	Equipment	Manufacturer/Model	Unit Cost	Intersections	Total Cost
1	Pedestrian pushbutton equipment per intersection	Polara iNavigator 2-wire system	\$2.31	2	\$4.62
2	Traffic signal controller	Siemens M60 series	\$0	2	\$0
3	Malfunction Management Unit	Eberle Design, Inc, (EDI) MMU2-16LEip	\$0	2	\$0
4	Vehicle Detector	Gridsmart	\$4.57	2	\$9.14
5	Dual Channel Load Switches	Western Systems SSF-216	\$0	2	\$0
6	Dual Channel Flasher	Western Systems SSF-216	\$0	2	\$0

**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.

END OF SECTION

1 **1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

2
3 **1-07.1 Laws to be Observed**
4 **(October 1, 2005 APWA GSP)**

5 *Supplement this section with the following:*

6
7 In cases of conflict between different safety regulations, the more stringent regulation
8 shall apply.

9
10 The Washington State Department of Labor and Industries shall be the sole and
11 paramount administrative agency responsible for the administration of the provisions of
12 the Washington Industrial Safety and Health Act of 1973 (WISHA).

13
14 The Contractor shall maintain at the project site office, or other well-known place at the
15 project site, all articles necessary for providing first aid to the injured. The Contractor
16 shall establish, publish, and make known to all employees, procedures for ensuring
17 immediate removal to a hospital, or doctor's care, persons, including employees, who
18 may have been injured on the project site. Employees should not be permitted to work
19 on the project site before the Contractor has established and made known procedures
20 for removal of injured persons to a hospital or a doctor's care.

21
22 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of
23 the Contractor's plant, appliances, and methods, and for any damage or injury resulting
24 from their failure, or improper maintenance, use, or operation. The Contractor shall be
25 solely and completely responsible for the conditions of the project site, including safety
26 for all persons and property in the performance of the work. This requirement shall
27 apply continuously, and not be limited to normal working hours. The required or implied
28 duty of the Engineer to conduct construction review of the Contractor's performance
29 does not, and shall not, be intended to include review and adequacy of the Contractor's
30 safety measures in, on, or near the project site.

31
32 *Section 1-07.1 is supplemented with the following:*

33
34 **(April 6, 2020)**

35 In response to COVID-19, the Contractor shall prepare a project specific COVID-19
36 health and safety plan (CHSP) in conformance with Section 1-07.4(2) as supplemented
37 in these specifications, COVID-19 Health and Safety Plan (CHSP). A copy of the CHSP
38 developed by the Contractor shall be submitted to the Engineer as a Type 2 Working
39 Drawing.

40
41 **1-07.2 State Taxes**

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

44
45 **1-07.2 State Tax**
46 **(June 27, 2011 APWA GSP)**

47
48 The Washington State Department of Revenue has issued special rules on the State
49 sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The
50 Contractor should contact the Washington State Department of Revenue for answers to

1 questions in this area. The Contracting Agency will not adjust its payment if the
2 Contractor bases a bid on a misunderstood tax liability.

3
4 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other
5 contract amounts. In some cases, however, state retail sales tax will not be included.
6 Section 1-07.2(2) describes this exception.

7
8 The Contracting Agency will pay the retained percentage (or release the Contract Bond
9 if a FHWA-funded Project) only if the Contractor has obtained from the Washington
10 State Department of Revenue a certificate showing that all contract-related taxes have
11 been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to
12 the Contractor any amount the Contractor may owe the Washington State Department of
13 Revenue, whether the amount owed relates to this contract or not. Any amount so
14 deducted will be paid into the proper State fund.

15 16 **1-07.2(1) State Sales Tax — Rule 171**

17
18 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
19 roads, etc., which are owned by a municipal corporation, or political subdivision of the
20 state, or by the United States, and which are used primarily for foot or vehicular traffic.
21 This includes storm or combined sewer systems within and included as a part of the
22 street or road drainage system and power lines when such are part of the roadway
23 lighting system. For work performed in such cases, the Contractor shall include
24 Washington State Retail Sales Taxes in the various unit bid item prices, or other contract
25 amounts, including those that the Contractor pays on the purchase of the materials,
26 equipment, or supplies used or consumed in doing the work.

27 28 **1-07.2(2) State Sales Tax — Rule 170**

29
30 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
31 existing buildings, or other structures, upon real property. This includes, but is not
32 limited to, the construction of streets, roads, highways, etc., owned by the state of
33 Washington; water mains and their appurtenances; sanitary sewers and sewage
34 disposal systems unless such sewers and disposal systems are within, and a part of, a
35 street or road drainage system; telephone, telegraph, electrical power distribution lines,
36 or other conduits or lines in or above streets or roads, unless such power lines become a
37 part of a street or road lighting system; and installing or attaching of any article of
38 tangible personal property in or to real property, whether or not such personal property
39 becomes a part of the realty by virtue of installation.

40
41 For work performed in such cases, the Contractor shall collect from the Contracting
42 Agency, retail sales tax on the full contract price. The Contracting Agency will
43 automatically add this sales tax to each payment to the Contractor. For this reason, the
44 Contractor shall not include the retail sales tax in the unit bid item prices, or in any other
45 contract amount subject to Rule 170, with the following exception.

46
47 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor
48 or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
49 consumable supplies not integrated into the project. Such sales taxes shall be included
50 in the unit bid item prices or in any other contract amount.

1 **1-07.2(3) Services**

2
3 The Contractor shall not collect retail sales tax from the Contracting Agency on any
4 contract wholly for professional or other services (as defined in Washington State
5 Department of Revenue Rules 138 and 244).

6
7 **1-07.4(2) Health Hazards**

8
9 *Section 1-07.4(2) is supplemented with the following:*

10
11 **(April 6, 2020)**

12 **COVID-19 Health and Safety Plan (CHSP)**

13 The Contractor shall prepare a project specific COVID-19 health and safety plan
14 (CHSP). The CHSP shall be prepared and submitted as a Type 2 working drawing prior
15 to beginning physical Work.

16
17 The Contractor shall update and resubmit the CHSP as the work progresses and new
18 activities appear on the look ahead schedule required under Section 1-08.3(2)D. If the
19 conditions change on the project, or a particular activity, the Contractor shall update and
20 resubmit the CHSP. Work on any activity shall cease if conditions prevent full
21 compliance with the CHSP.

22
23 The CHSP shall address the health and safety of all people associated with the project
24 including State workers in the field, Contractor personnel, consultants, project staff,
25 subcontractors, suppliers and anyone on the project site, staging areas, or yards. The
26 plan shall contain the following minimum elements:

- 27
- 28 1. The CHSP shall identify all standards, guidance, publications, and
29 sources on which it is based. Those standards may include references to
30 OSHA, WISHA, and CDC publications that are current at the time the
31 CHSP is prepared.
 - 32
 - 33 2. The CHSP shall identify a responsible individual from the Contractor who
34 is responsible for implementation of the CHSP. The individual(s) contact
35 information shall be listed in the CHSP.
 - 36
 - 37 3. The CHSP shall specifically identify the project for which it is applicable,
38 and if applicable, shall address project work areas outside the project
39 limits such as staging areas or yards.
 - 40
 - 41 4. The CHSP shall identify the PPE and administrative and engineered
42 controls necessary to maintain a safe site. This includes but is not limited
43 to: sanitation resources, screening stations, safety briefings, controlling
44 access, and personal protective equipment (PPE) needed to protect
45 workers from COVID-19.
 - 46
 - 47 5. The CHSP shall identify measures for screening and managing workers
48 or visitors to areas identified in the CHSP. The plan shall include
49 procedures should a person exhibit symptoms of COVID-19.
 - 50

- 1 6. The CHSP shall identify how the plan will be updated as new work
2 activities are added with each two week look-ahead schedule. The CHSP
3 updates shall identify the number of workers, crews, work tasks, and the
4 degree of congestion or confinement workers will experience for the work
5 activities in the two week look-ahead schedule.
6
7 7. The CHSP shall include how the Contractor will ensure everyone on the
8 site has been trained on the CHSP requirements. This includes
9 subcontractors, suppliers, and anyone on the project site.

10
11 **COVID-19 Health and Safety Plan (CHSP) Inspection**

12 The Contractor shall grant full and unrestricted access to the Engineer for CHSP
13 Inspections. The Engineer (or designee) will conduct periodic compliance inspections on
14 the project site, staging areas, or yards to verify that any ongoing work activity is
15 following the CHSP plan. If the Engineer becomes aware of a noncompliance incident
16 either through a site inspection or other means, the Contractor will be notified
17 immediately (within 1 hour). The contractor will be given 24 hours to either remedy the
18 noncompliance incident or halt the associated work activity. If the Contractor fails to
19 comply within 24 hour of receiving the Engineer's notification, the Engineer may suspend
20 Work. The Contractor must satisfy the Engineer that the noncompliance incident has
21 been corrected before the suspension will end.

22
23 **1-07.9 Wages**

24
25 **1-07.9(1) General**

26 *Section 1-07.9(1) is supplemented with the following:*

27
28 **(January 9, 2019)**

29 The Federal wage rates incorporated in this contract have been established by the
30 Secretary of Labor under United States Department of Labor General Decision No.
31 WA190001.

32
33 The State rates incorporated in this contract are applicable to all construction
34 activities associated with this contract.

35
36 **(April 2, 2007)**

37 **Application of Wage Rates for The Occupation of Landscape Construction**

38 State prevailing wage rates for public works contracts are included in this contract and
39 show a separate listing for the occupation:

40
41 Landscape Construction, which includes several different occupation descriptions
42 such as: Irrigation and Landscape Plumbers, Irrigation and Landscape Power
43 Equipment Operators, and Landscaping or Planting Laborers.
44

45 In addition, federal wage rates that are included in this contract may also include
46 occupation descriptions in Federal Occupational groups for work also specifically
47 identified with landscaping such as:

48
49 Laborers with the occupation description, Landscaping or Planting, or
50

1 Power Equipment Operators with the occupation description, Mulch Seeding
2 Operator.
3 If Federal wage rates include one or more rates specified as applicable to landscaping
4 work, then Federal wage rates for all occupation descriptions, specific or general, must
5 be considered and compared with corresponding State wage rates. The higher wage
6 rate, either State or Federal, becomes the minimum wage rate for the work performed in
7 that occupation.
8
9 Contractors are responsible for determining the appropriate crafts necessary to perform
10 the contract work. If a classification considered necessary for performance of the work is
11 missing from the Federal Wage Determination applicable to the contract, the Contractor
12 shall initiate a request for approval of a proposed wage and benefit rate. The Contractor
13 shall prepare and submit Standard Form 1444, Request for Authorization of Additional
14 Classification and Wage Rate available at <http://www.wdol.gov/docs/sf1444.pdf>, and
15 submit the completed form to the Engineer's office. The presence of a classification
16 wage on the Washington State Prevailing Wage Rates for Public Works Contracts does
17 not exempt the use of form 1444 for the purpose of determining a federal classification
18 wage rate.
19

20 **1-07.9(5) Required Documents**
21 *(January 3, 2020 APWA GSP)*
22

23 Delete this section and replace it with the following:
24

25 **General**

26 All "Statements of Intent to Pay Prevailing Wages", "Affidavits of Wages Paid" and
27 Certified Payrolls, including a signed Statement of Compliance for Federal-aid
28 projects, shall be submitted to the Engineer and the State L&I online Prevailing
29 Wage Intent & Affidavit (PWIA) system.
30

31 **Intents and Affidavits**

32 On forms provided by the Industrial Statistician of State L&I, the Contractor shall
33 submit to the Engineer the following for themselves and for each firm covered under
34 RCW 39.12 that will or has provided Work and materials for the Contract:
35

- 36 1. The approved "Statement of Intent to Pay Prevailing Wages" State L&I's form
37 number F700-029-000. The Contracting Agency will make no payment under
38 this Contract until this statement has been approved by State L&I and
39 reviewed by the Engineer.
40
- 41 2. The approved "Affidavit of Prevailing Wages Paid", State L&I's form number
42 F700-007-000. The Contracting Agency will not grant Completion until all
43 approved Affidavit of Wages paid for the Contractor and all Subcontractors
44 have been received by the Engineer. The Contracting Agency will not release
45 to the Contractor any funds retained under RCW 60.28.011 until "Affidavit of
46 Prevailing Wages Paid" forms have been approved by State L&I and all of the
47 approved forms have been submitted to the Engineer for every firm that
48 worked on the Contract.
49

The Contractor is responsible for requesting these forms from State L&I and for paying any fees required by State L&I.

Certified Payrolls

Certified payrolls are required to be submitted by the Contractor for themselves, all Subcontractors and all lower tier subcontractors. The payrolls shall be submitted weekly on all Federal-aid projects and no less than monthly on State funded projects.

Penalties for Noncompliance

The Contractor is advised, if these payrolls are not supplied within the prescribed deadlines, any or all payments may be withheld until compliance is achieved. In addition, failure to provide these payrolls may result in other sanctions as provided by State laws (RCW 39.12.050) and/or Federal regulations (29 CFR 5.12).

1-07.11 Requirements for Nondiscrimination (December 19, 2019 APWA GSP, Option B)

Supplement this section with the following:

Disadvantaged Business Enterprise Participation

The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract. Demonstrating compliance with these Specifications is a Condition of Award (COA) of this Contract. Failure to comply with the requirements of this Specification may result in your Bid being found to be nonresponsive resulting in rejection or other sanctions as provided by Contract.

DBE Abbreviations and Definitions

Broker – A business firm that provides a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for the performance of the Contract; or, persons/companies who arrange or expedite transactions.

Certified Business Description – Specific descriptions of work the DBE is certified to perform, as identified in the Certified Firm Directory, under the Vendor Information page.

Certified Firm Directory – A database of all Minority, Women, and Disadvantaged Business Enterprises, including those identified as a UDBE, currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: <https://omwbe.diversitycompliance.com>.

Commercially Useful Function (CUF) – 49 CFR 26.55(c)(1) defines commercially useful function as: *“A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function,*

1 *the DBE must also be responsible, with respect to materials and supplies*
2 *used on the contract, for negotiating price, determining quality and*
3 *quantity, ordering the material, and installing (where applicable) and*
4 *paying for the material itself. To determine whether a DBE is performing a*
5 *commercially useful function, you must evaluate the amount of work*
6 *subcontracted, industry practices, whether the amount the firm is to be*
7 *paid under the contract is commensurate with the work it is actually*
8 *performing and the DBE credit claimed for its performance of the work, and*
9 *other relevant factors."*

10
11 **Disadvantaged Business Enterprise (DBE)** – A business firm certified by
12 the Washington State Office of Minority and Women's Business
13 Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE
14 certification. A Underutilized Disadvantaged Business Enterprise (UDBE)
15 firm is a subset of DBE.

16
17 **Force Account Work** – Work measured and paid in accordance with
18 Section 1-09.6.

19
20 **Good Faith Efforts** – Efforts to achieve the UDBE COA Goal or other
21 requirements of this part which, by their scope, intensity, and
22 appropriateness to the objective, can reasonably be expected to fulfill the
23 program requirement.

24
25 **Manufacturer (DBE)** – A DBE firm that operates or maintains a factory or
26 establishment that produces on the premises the materials, supplies,
27 articles, or equipment required under the Contract. A DBE Manufacturer
28 shall produce finished goods or products from raw or unfinished material or
29 purchase and substantially alters goods and materials to make them
30 suitable for construction use before reselling them.

31
32 **Reasonable Fee (DBE)** – For purposes of Brokers or service providers a
33 reasonable fee shall not exceed 5% of the total cost of the goods or
34 services brokered.

35
36 **Regular Dealer (DBE)** – A DBE firm that owns, operates, or maintains a
37 store, warehouse, or other establishment in which the materials or supplies
38 required for the performance of a Contract are bought, kept in stock, and
39 regularly sold to the public in the usual course of business. To be a
40 Regular Dealer, the DBE firm must be an established regular business that
41 engages in as its principal business and in its own name the purchase and
42 sale of the products in question. A Regular Dealer in such items as steel,
43 cement, gravel, stone, and petroleum products need not own, operate or
44 maintain a place of business if it both owns and operates distribution
45 equipment for the products. Any supplementing of regular dealers' own
46 distribution equipment shall be by long-term formal lease agreements and
47 not on an ad-hoc basis. Brokers, packagers, manufacturers'
48 representatives, or other persons who arrange or expedite transactions
49 shall not be regarded as Regular Dealers within the meaning of this
50 definition.
51

Underutilized Disadvantaged Business Enterprise (UDBE) – A DBE Firm that is underutilized based on WSDOT’s Disparity Study.

UDBE Commitment – The dollar amount the Bidder indicates they will be subcontracting to be applied towards the UDBE Condition of Award Goal as shown on the UDBE Utilization Certification Form for each UDBE Subcontractor. This UDBE Commitment amount will be incorporated into the Contract and shall be considered a Contract requirement. Any changes to the UDBE Commitment require the Engineer’s approval.

UDBE Condition of Award (COA) Goal – An assigned numerical amount specified as a percentage of the Contract. Initially, this is the minimum amount that the Bidder must commit to by submission of the Utilization Certification Form and/or by Good Faith Effort (GFE).

UDBE COA Goal

The Contracting Agency has established a UDBE COA Goal for this Contract in the amount of: **3%**

Crediting DBE Participation

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE Subcontractors shall be certified before the subcontract on which they are participating is executed.

DBE participation is only credited upon payment to the DBE.

The following are some definitions of what may be counted as DBE participation.

DBE Prime Contractor

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.

DBE Subcontractor

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces and is certified to perform. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor’s resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces.

Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

When the subcontractor is part of a UDBE Commitment, the following apply:

1. If a UDBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the UDBE COA Goal only if the Lower-Tier Subcontractor is also a UDBE.
2. Work subcontracted to a Lower-Tier Subcontractor that is a DBE, but not a UDBE, may be counted as DBE participation but not counted toward the UDBE COA Goal.
3. Work subcontracted to a non-DBE does not count towards the UDBE COA Goal nor DBE participation.

DBE Subcontract and Lower Tier Subcontract Documents

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE.

DBE Service Provider

The value of fees or commissions charged by a DBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

Force Account Work

When the Bidder elects to utilize force account Work to meet the UDBE COA Goal, as demonstrated by listing this force account Work on the UDBE Utilization Certification Form, for the purposes of meeting UDBE COA Goal, only 50% of the Proposal amount shall be credited toward the Bidder's Commitment to meet the UDBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards UDBE COA Goal or DBE participation.

Temporary Traffic Control

If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the DBE firm is being utilized in the capacity of "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g.,

cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.

Trucking

DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm. The DBE who leases additional trucks from another DBE firm receives credit for the value of the transportation services the lessee DBE provides on the Contract.

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project.

The DBE may lease trucks from a truck leasing company (recognized truck rental center), but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.

DBE Manufacturer and DBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer can count as DBE participation. If the DBE manufacturer is a UDBE, participation may count towards the UDBE COA Goal.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited as DBE Participation. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis. If the DBE regular dealer is a UDBE, participation may count towards the UDBE COA Goal.

DBE firms proposed to be used as a Regular Dealer must be approved before being listed as a COA/used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of the UDBE COA Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form a minimum of five calendar days prior to bid opening.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as DBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward as DBE participation.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

Underutilized Disadvantaged Business Enterprise Utilization

The requirements of this section apply to projects with a UDBE COA Goal. To be eligible for award of the Contract, the Bidder shall properly complete and submit an Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification with the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal. The Bidder's UDBE Utilization Certification must clearly demonstrate how the Bidder intends to meet the UDBE COA Goal. A UDBE Utilization Certification (WSDOT Form 272-056U) is included in the Proposal package for this purpose as well as instructions on how to properly fill out the form.

The Bidder is advised that the items listed below when listed in the Utilization Certification must have their amounts reduced to the percentages shown and those reduced amounts will be the amount applied towards meeting the UDBE COA Goal.

- Force account at 50%
- Regular dealer at 60%

In the event of arithmetic errors in completing the UDBE Utilization Certification, the amount listed to be applied towards the UDBE COA Goal for each UDBE shall govern and the UDBE total amount shall be adjusted accordingly.

Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a UDBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the UDBE COA Goal.

Underutilized Disadvantaged Business Enterprise Written Confirmation Document(s)

The requirements of this section apply to projects with a UDBE COA Goal. The Bidder shall submit an Underutilized Disadvantaged Business Enterprise (UDBE) Written Confirmation Document (completed and signed by the UDBE) for each UDBE firm listed in the Bidder's completed UDBE Utilization Certification submitted with the Bid. Failure to do so will result in the associated

1 participation being disallowed, which may cause the Bid to be determined to be
2 nonresponsive resulting in Bid rejection.

3
4 The Confirmation Documents provide confirmation from the UDBEs that they
5 are participating in the Contract as provided in the Bidder's Commitment. The
6 Confirmation Documents must be consistent with the Utilization Certification.

7
8 A UDBE Written Confirmation Document (WSDOT Form 422-031U) is included
9 in the Proposal package for this purpose.

10
11 The form(s) shall be received as specified in the special provisions for Section
12 1-02.9 Delivery of Proposal.

13
14 It is prohibited for the Bidder to require a UDBE to submit a Written
15 Confirmation Document with any part of the form left blank. Should the
16 Contracting Agency determine that an incomplete Written Confirmation
17 Document was signed by a UDBE, the validity of the document comes into
18 question. The associated UDBE participation may not receive credit.

19
20 **Selection of Successful Bidder/Good Faith Efforts (GFE)**

21 The requirements of this section apply to projects with a UDBE COA Goal. The
22 successful Bidder shall be selected on the basis of having submitted the lowest
23 responsive Bid, which demonstrates a good faith effort to achieve the UDBE
24 COA Goal. The Contracting Agency, at any time during the selection process,
25 may request a breakdown of the bid items and amounts that are counted
26 towards the overall contract goal for any of the UDBEs listed on the UDBE
27 Utilization Certification.

28
29 Achieving the UDBE COA Goal may be accomplished in one of two ways:

30
31 1. By meeting the UDBE COA Goal

32 Submission of the UDBE Utilization Certification, supporting UDBE
33 Written Confirmation Document(s) showing the Bidder has obtained
34 enough UDBE participation to meet or exceed the UDBE COA Goal,
35 the UDBE Bid Item Breakdown and the UDBE Trucking Credit Form, if
36 applicable.

37
38 2. By documentation that the Bidder made adequate GFE to meet the
39 UDBE COA Goal

40 The Bidder may demonstrate a GFE in whole or part through GFE
41 documentation ONLY IN THE EVENT a Bidder's efforts to solicit
42 sufficient UDBE participation have been unsuccessful. The Bidder
43 must supply GFE documentation in addition to the UDBE Utilization
44 Certification, supporting UDBE Written Confirmation Document(s), the
45 UDBE Bid Item Breakdown form and the UDBE Trucking Credit Form,
46 if applicable.

47
48 Note: In the case where a Bidder is awarded the contract based on
49 demonstrating adequate GFE, the advertised UDBE COA Goal
50 will not be reduced. The Bidder shall demonstrate a GFE during
51 the life of the Contract to attain the advertised UDBE COA Goal.

GFE documentation, the UDBE Bid Item Breakdown form, and the UDBE Trucking Credit Form, if applicable, shall be submitted as specified in Section 1-02.9.

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.

Good Faith Effort (GFE) Documentation

GFE is evaluated when:

1. Determining award of a Contract that has COA goal,
2. When a COA UDBE is terminated and substitution is required, and
3. Prior to Physical Completion when determining whether the Contractor has satisfied its UDBE commitments.

49 CFR Part 26, Appendix A is intended as general guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve UDBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified UDBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the UDBEs to respond to the solicitation. The Bidder must determine with certainty if the UDBEs are interested by taking appropriate steps to follow up initial solicitations.
2. Selecting portions of the Work to be performed by UDBEs in order to increase the likelihood that the UDBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate UDBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces.
3. Providing interested UDBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.
 - a. Negotiating in good faith with interested UDBEs. It is the Bidder's responsibility to make a portion of the Work available to UDBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available UDBE subcontractors and suppliers, so as to facilitate UDBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of UDBEs that were

1 considered; a description of the information provided regarding
2 the Plans and Specifications for the Work selected for
3 subcontracting; and evidence as to why additional agreements
4 could not be reached for UDBEs to perform the Work.

- 5
- 6 b. A Bidder using good business judgment would consider a number
7 of factors in negotiating with subcontractors, including DBE
8 subcontractors, and would take a firm's price and capabilities as
9 well as the UDBE COA Goal into consideration. However, the fact
10 that there may be some additional costs involved in finding and
11 using UDBEs is not in itself sufficient reason for a Bidder's failure
12 to meet the UDBE COA Goal, as long as such costs are
13 reasonable. Also, the ability or desire of a Bidder to perform the
14 Work of a Contract with its own organization does not relieve the
15 Bidder of the responsibility to make Good Faith Efforts. Bidders
16 are not, however, required to accept higher quotes from UDBEs if
17 the price difference is excessive or unreasonable.
- 18
- 19 4. Not rejecting UDBEs as being unqualified without sound reasons
20 based on a thorough investigation of their capabilities. The Bidder's
21 standing within its industry, membership in specific groups,
22 organizations, or associations and political or social affiliations (for
23 example union vs. non-union employee status) are not legitimate
24 causes for the rejection or non-solicitation of bids in the Bidder's
25 efforts to meet the UDBE COA Goal.
- 26
- 27 5. Making efforts to assist interested UDBEs in obtaining bonding, lines
28 of credit, or insurance as required by the recipient or Bidder.
- 29
- 30 6. Making efforts to assist interested UDBEs in obtaining necessary
31 equipment, supplies, materials, or related assistance or services.
- 32
- 33 7. Effectively using the services of available minority/women community
34 organizations; minority/women contractors' groups; local, State, and
35 Federal minority/women business assistance offices; and other
36 organizations as allowed on a case-by-case basis to provide
37 assistance in the recruitment and placement of UDBEs.
- 38
- 39 8. Documentation of GFE must include copies of each UDBE and non-
40 DBE subcontractor quotes submitted to the Bidder when a non-DBE
41 subcontractor is selected over a UDBE for Work on the Contract. (ref.
42 updated DBE regulations – 26.53(b)(2)(vi) & App. A)
- 43

44 **Administrative Reconsideration of GFE Documentation**

45 A Bidder has the right to request reconsideration if the GFE documentation
46 submitted with their Bid was determined to be inadequate.

- 47
- 48 • The Bidder must request within 48 hours of notification of being
49 nonresponsive or forfeit the right to reconsideration.
- 50

- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.
- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.
- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.

UDBE Bid Item Breakdown

The Bidder shall submit a UDBE Bid Item Breakdown Form (WSDOT Form 272-054) as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

UDBE Trucking Credit Form

The Bidder shall submit a UDBE Trucking Credit Form (WSDOT Form 272-058), as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

Note: The UDBE Trucking Credit Form is only required for a UDBE Firm listed on the UDBE Utilization Certification as a subcontractor for "Trucking" or "Hauling" and are performing a part of a bid item. For example, if the item of Work is Structure Excavation including Haul, and another firm is doing the excavation and the UDBE Trucking firm is doing the haul, the form is required. For a UDBE subcontractor that is responsible for an entire item of work that may require some use of trucks, the form is not required.

Procedures between Award and Execution

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

1. A list of all firms who submitted a bid or quote in attempt to participate in this project whether they were successful or not. Include the business name and mailing address.

Note: The firms identified by the Contractor may be contacted by the Contracting Agency to solicit general information as follows: age of the firm and average of its gross annual receipts over the past three years.

Procedures after Execution

Commercially Useful Function (CUF)

The Contractor may only take credit for the payments made for Work performed by a DBE that is determined to be performing a CUF. Payment must be commensurate with the work actually performed by the DBE. This applies to all DBEs performing Work on a project, whether or not the DBEs are COA, if the Contractor wants to receive credit for their participation. The Engineer will conduct CUF reviews to ascertain whether DBEs are performing a CUF. A DBE performs a CUF when it is carrying out its responsibilities of its contract by actually performing, managing, and supervising the Work involved. The DBE must be responsible for negotiating price; determining quality and quantity; ordering the material, installing (where applicable); and paying for the material itself. If a DBE does not perform "all" of these functions on a furnish-and-install contract, it has not performed a CUF and the cost of materials cannot be counted toward UDBE COA Goal. Leasing of equipment from a leasing company is allowed. However, leasing/purchasing equipment from the Contractor is not allowed. Lease agreements shall be provided prior to the Subcontractor beginning Work. Any use of the Contractor's equipment by a DBE may not be credited as countable participation.

The DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which the funds are passed in order to obtain the appearance of DBE participation.

In order for a DBE traffic control company to be considered to be performing a CUF, the DBE must be in control of its work inclusive of supervision. The DBE shall employ a Traffic Control Supervisor who is directly involved in the management and supervision of the traffic control employees and services.

The following are some of the factors that the Engineer will use in determining whether a DBE trucking company is performing a CUF:

- The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract. The owner demonstrates business related knowledge, shows up on site and is determined to be actively running the business.
- The DBE itself shall own and operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.

- Leased trucks shall display the name and identification number of the DBE.

UDBE/DBE/FSBE Truck Unit Listing Log

In addition to the subcontracting requirements of Section 1-08.1, each DBE trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077), copy of vehicle registrations, and all Rental/Lease agreements (if applicable). The supplemental information shall be submitted to the Engineer prior to any trucking services being performed for DBE credit. Incomplete or incorrect supplemental information will be returned for correction. The corrected Primary UDBE/DBE/FSBE Truck Unit Listing Log and any Updated Primary UDBE/DBE/FSBE Truck Unit Listing Logs shall be submitted and accepted by the Engineer no later than ten calendar days of utilizing applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log may result in trucks not being credited as DBE participation.

Each DBE trucking firm shall complete a Daily UDBE/DBE/FSBE Trucking Unit Listing Log for each day that the DBE performs trucking services for DBE credit. The Daily UDBE/DBE/FSBE Trucking Unit Listing Log forms shall be submitted to the Engineer by Friday of the week after the work was performed.

Joint Checking

A joint check is a check between a Subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the Subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself." The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE's participation as it relates to the material cost.

1 **Prompt Payment**

2 Prompt payment to all subcontractors shall be in accordance with Section
3 1-08.1. Prompt payment requirements apply to progress payments as well
4 as return of retainage.

5
6 **Subcontracts**

7 Prior to a DBE performing Work on the Contract, an executed subcontract
8 between the DBE and the Contractor shall be submitted to the Engineer.
9 The executed subcontracts shall be submitted by email to the following
10 email address

11
12 ORegionOEO@wsdot.wa.gov

13
14 The prime contractor shall notify the Engineer in writing within five calendar
15 days of subcontract submittal.

16
17 **Reporting**

18 The Contractor and all subcontractors/suppliers/service providers that
19 utilize DBEs to perform work on the project, shall maintain appropriate
20 records that will enable the Engineer to verify DBE participation throughout
21 the life of the project.

22
23 Refer to Section 1-08.1 for additional reporting requirements associated
24 with this contract.

25
26 **Changes in COA Work Committed to UDBE**

27 The Contractor shall utilize the COA UDBEs to perform the work and supply the
28 materials for which each is committed unless approved by the Engineer. The
29 Contractor shall not be entitled to any payment for work or material completed
30 by the Contractor or subcontractors that was committed to be completed by the
31 COA UDBEs.

32
33 **Owner Initiated Changes**

34 Where the Engineer makes changes that result in changes to Work that
35 was committed to a COA UDBE. The Contractor may be directed to
36 substitute for the Work in such instances.

37
38 **Contractor Initiated Changes**

39 The Contractor cannot reduce the amount of work committed to a COA
40 UDBE without good cause. Reducing UDBE Commitment is viewed as
41 partial UDBE termination, and therefore subject to the termination
42 procedures below.

43
44 **Original Quantity Underruns**

45 In the event that Work committed to a UDBE firm as part of the COA
46 underruns the original planned quantities the Contractor may be required
47 to substitute other remaining Work to another UDBE.

48
49 **Contractor Proposed DBE Substitutions**

50 Requests to substitute a COA UDBE must be for good cause (see UDBE
51 termination process below), and requires prior written approval of the

Engineer. After receiving a termination with good cause approval, the Contractor may only replace a UDBE with another certified UDBE. When any changes between Contract Award and Execution result in a substitution of COA UDBE, the substitute UDBE shall be certified prior to the bid opening on the Contract.

UDBE Termination

Termination of a COA UDBE (or an approved substitute UDBE) is only allowed in whole or in part with prior written approval of the Engineer. If the Contractor terminates a COA UDBE without the written approval of the Engineer, the Contractor shall not be entitled to credit towards the UDBE COA Goal for any payment for work or material performed/supplied by the COA UDBE. In addition, sanctions may apply as described elsewhere in this specification.

The Contractor must have good cause to terminate a COA UDBE.

Good cause typically includes situations where the UDBE Subcontractor is unable or unwilling to perform the work of its subcontract. Good cause may exist if:

- The UDBE fails or refuses to execute a written contract.
- The UDBE fails or refuses to perform the Work of its subcontract in a way consistent with normal industry standards.
- The UDBE fails or refuses to meet the Contractor's reasonable nondiscriminatory bond requirements.
- The UDBE becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The UDBE is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to federal law or applicable State law.
- The UDBE voluntarily withdraws from the project, and provides written notice of its withdrawal.
- The UDBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
- The UDBE's owner dies or becomes disabled with the result that the UDBE is unable to complete its Work on the Contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA UDBE so that the Contractor can self-perform the Work.

- The Contractor seeks to terminate a COA UDBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
- The failure or refusal of the COA UDBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the UDBE's Work).

Prior to requesting termination, the Contractor shall give notice in writing to the UDBE with a copy to the Engineer of its intent to request to terminate UDBE Work and the reasons for doing so. The UDBE shall have five (5) days to respond to the Contractor's notice. The UDBE's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination of its subcontract.

When a COA UDBE is terminated, or fails to complete its work on the Contract for any reason, the Contractor shall substitute with another UDBE or provide documentation of GFE. A plan to achieve the COA UDBE Commitment shall be submitted to the Engineer within 2 days of the approval of termination or the Contract shall be suspended until such time the substitution plan is submitted.

Decertification

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

Consequences of Non-Compliance

Breach of Contract

Each contract with a Contractor (and each subcontract the Contractor signs with a Subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or Subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or

(4) Disqualifying the Contractor from future bidding as non-responsible.

Notice

If the Contractor or any Subcontractor, Consultant, Regular Dealer, or service provider is deemed to be in non-compliance, the Contractor will be informed in writing, by certified mail by the Engineer that sanctions will be imposed for failure to meet the UDBE COA Commitment and/or submit documentation of good faith efforts. The notice will state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.

Sanctions

If it is determined that the Contractor's failure to meet all or part of the UDBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

Payment

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

(Section 1-07.11 is supplemented with the following)

Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246) (April 2, 2018)

Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)

1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.
2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

<u>Timetable</u>	<u>Goal</u>
Until further notice	6.9%
<u>Minorities - by Standard Metropolitan Statistical Area (SMSA)</u>	
Spokane, WA:	
SMSA Counties:	
Spokane, WA	2.8
WA Spokane.	
Non-SMSA Counties	3.0
WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln; WA Pend Oreille; WA Stevens; WA Whitman.	
Richland, WA	
SMSA Counties:	
Richland Kennewick, WA	5.4
WA Benton; WA Franklin.	
Non-SMSA Counties	3.6
WA Walla Walla.	
Yakima, WA:	
SMSA Counties:	
Yakima, WA	9.7
WA Yakima.	
Non-SMSA Counties	7.2
WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.	
Seattle, WA:	
SMSA Counties:	
Seattle Everett, WA	7.2
WA King; WA Snohomish.	
Tacoma, WA	6.2
WA Pierce.	
Non-SMSA Counties	6.1
WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.	
Portland, OR:	
SMSA Counties:	
Portland, OR-WA	4.5
WA Clark.	
Non-SMSA Counties	3.8
WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.	

These goals are applicable to each nonexempt Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, or federally assisted project, contract, or

1 subcontract until further notice. Compliance with these goals and time tables is
2 enforced by the Office of Federal Contract compliance Programs.

3
4 The Contractor's compliance with the Executive Order and the regulations in 41
5 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity
6 Clause, specific affirmative action obligations required by the specifications set
7 forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority
8 and female employment and training must be substantially uniform throughout
9 the length of the contract, in each construction craft and in each trade, and the
10 Contractor shall make a good faith effort to employ minorities and women evenly
11 on each of its projects. The transfer of minority or female employees or trainees
12 from Contractor to Contractor or from project to project for the sole purpose of
13 meeting the Contractor's goal shall be a violation of the contract, the Executive
14 Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be
15 measured against the total work hours performed.

- 16
17 3. The Contractor shall provide written notification to the Office of Federal
18 Contract Compliance Programs (OFCCP) within 10 working days of award
19 of any construction subcontract in excess of \$10,000 or more that are
20 Federally funded, at any tier for construction work under the contract
21 resulting from this solicitation. The notification shall list the name, address
22 and telephone number of the Subcontractor; employer identification number
23 of the Subcontractor; estimated dollar amount of the subcontract; estimated
24 starting and completion dates of the subcontract; and the geographical area
25 in which the contract is to be performed. The notification shall be sent to:

26
27
28 U.S. Department of Labor
29 Office of Federal Contract Compliance Programs Pacific Region Attn:
30 Regional Director
31 San Francisco Federal Building
32 90– 7th Street, Suite 18-300
33 San Francisco, CA 94103(415) 625-7800 Phone
34 (415) 625-7799 Fax
35

36 Additional information may be found at the U.S. Department of Labor website:
37 <https://www.dol.gov/ofccp/regs/compliance/preaward/cnstnote.htm>
38

- 39 4. As used in this Notice, and in the contract resulting from this solicitation, the
40 Covered Area is as designated herein.

41
42 Standard Federal Equal Employment Opportunity Construction Contract Specifications
43 (Executive Order 11246)
44

- 45 1. As used in these specifications:
46 a. Covered Area means the geographical area described in the solicitation
47 from which this contract resulted;
48 b. Director means Director, Office of Federal Contract Compliance
49 Programs, United States Department of Labor, or any person to whom
50 the Director delegates authority;

- 1 c. Employer Identification Number means the Federal Social Security
2 number used on the Employer's Quarterly Federal Tax Return, U. S.
3 Treasury Department Form 941;
- 4 d. Minority includes:
 - 5 i. Black, a person having origins in any of the Black Racial Groups
6 of Africa.
 - 7 ii. Hispanic, a fluent Spanish speaking, Spanish surnamed person of
8 Mexican, Puerto Rican, Cuban, Central American, South
9 American, or other Spanish origin.
 - 10 iii. Asian or Pacific Islander, a person having origins in any of the
11 original peoples of the Pacific rim or the Pacific Islands, the
12 Hawaiian Islands and Samoa;
 - 13 iv. American Indian or Alaskan Native, a person having origins in any
14 of the original peoples of North America, and who maintain
15 cultural identification through tribal affiliation or community
16 recognition.
- 17
- 18 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a
19 portion of the work involving any construction trade, it shall physically include in
20 each subcontract in excess of \$10,000 the provisions of these specifications and
21 the Notice which contains the applicable goals for minority and female
22 participation and which is set forth in the solicitations from which this contract
23 resulted.
- 24
- 25 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan
26 approved by the U.S. Department of Labor in the covered area either individually
27 or through an association, its affirmative action obligations on all work in the Plan
28 area (including goals and timetables) shall be in accordance with that Plan for
29 those trades which have unions participating in the Plan. Contractors must be
30 able to demonstrate their participation in and compliance with the provisions of
31 any such Hometown Plan. Each Contractor or Subcontractor participating in an
32 approved Plan is individually required to comply with its obligations under the
33 EEO clause, and to make a good faith effort to achieve each goal under the Plan
34 in each trade in which it has employees. The overall good faith performance by
35 other Contractors or Subcontractors toward a goal in an approved Plan does not
36 excuse any covered Contractor's or Subcontractor's failure to take good faith
37 effort to achieve the Plan goals and timetables.
- 38
- 39 4. The Contractor shall implement the specific affirmative action standards provided
40 in paragraphs 7a through 7p of this Special Provision. The goals set forth in the
41 solicitation from which this contract resulted are expressed as percentages of the
42 total hours of employment and training of minority and female utilization the
43 Contractor should reasonably be able to achieve in each construction trade in
44 which it has employees in the covered area. Covered construction contractors
45 performing construction work in geographical areas where they do not have a
46 Federal or federally assisted construction contract shall apply the minority and
47 female goals established for the geographical area where the work is being
48 performed. The Contractor is expected to make substantially uniform progress in
49 meeting its goals in each craft during the period specified.
- 50

- 1 5. Neither the provisions of any collective bargaining agreement, nor the failure by a
2 union with whom the Contractor has a collective bargaining agreement, to refer
3 either minorities or women shall excuse the Contractor's obligations under these
4 specifications, Executive Order 11246, or the regulations promulgated pursuant
5 thereto.
6
- 7 6. In order for the nonworking training hours of apprentices and trainees to be
8 counted in meeting the goals, such apprentices and trainees must be employed
9 by the Contractor during the training period, and the Contractor must have made
10 a commitment to employ the apprentices and trainees at the completion of their
11 training, subject to the availability of employment opportunities. Trainees must be
12 trained pursuant to training programs approved by the U.S. Department of Labor.
13
- 14 7. The Contractor shall take specific affirmative actions to ensure equal
15 employment opportunity. The evaluation of the Contractor's compliance with
16 these specifications shall be based upon its effort to achieve maximum results
17 from its action. The Contractor shall document these efforts fully, and shall
18 implement affirmative action steps at least as extensive as the following:
19
 - 20 a. Ensure and maintain a working environment free of harassment,
21 intimidation, and coercion at all sites, and in all facilities at which the
22 Contractor's employees are assigned to work. The Contractor, where
23 possible, will assign two or more women to each construction project. The
24 Contractor shall specifically ensure that all foremen, superintendents, and
25 other on-site supervisory personnel are aware of and carry out the
26 Contractor's obligation to maintain such a working environment, with
27 specific attention to minority or female individuals working at such sites or
28 in such facilities.
 - 29 b. Establish and maintain a current list of minority and female recruitment
30 sources, provide written notification to minority and female recruitment
31 sources and to community organizations when the Contractor or its
32 unions have employment opportunities available, and maintain a record of
33 the organizations' responses.
 - 34 c. Maintain a current file of the names, addresses and telephone numbers of
35 each minority and female off-the-street applicant and minority or female
36 referral from a union, a recruitment source or community organization and
37 of what action was taken with respect to each such individual. If such
38 individual was sent to the union hiring hall for referral and was not
39 referred back to the Contractor by the union or, if referred, not employed
40 by the Contractor, this shall be documented in the file with the reason
41 therefor, along with whatever additional actions the Contractor may have
42 taken.
 - 43 d. Provide immediate written notification to the Director when the union or
44 unions with which the Contractor has a collective bargaining agreement
45 has not referred to the Contractor a minority person or woman sent by the
46 Contractor, or when the Contractor has other information that the union
47 referral process has impeded the Contractor's efforts to meet its
48 obligations.
 - 49 e. Develop on-the-job training opportunity and/or participate in training
50 programs for the area which expressly include minorities and women,
51 including upgrading programs and apprenticeship and trainee programs

relevant to the Contractor's employment needs, especially those programs funded or approved by the U.S. Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

- 1 13. The Contractor, in fulfilling its obligations under these specifications, shall
2 implement specific affirmative action steps, at least as extensive as those
3 standards prescribed in paragraph 7 of this Special Provision, so as to achieve
4 maximum results from its efforts to ensure equal employment opportunity. If the
5 Contractor fails to comply with the requirements of the Executive Order, the
6 implementing regulations, or these specifications, the Director shall proceed in
7 accordance with 41 CFR 60-4.8.
8
9 14. The Contractor shall designate a responsible official to monitor all employment
10 related activity to ensure that the company EEO policy is being carried out, to
11 submit reports relating to the provisions hereof as may be required by the
12 government and to keep records. Records shall at least include, for each
13 employee, their name, address, telephone numbers, construction trade, union
14 affiliation if any, employee identification number when assigned, social security
15 number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer),
16 dates of changes in status, hours worked per week in the indicated trade, rate of
17 pay, and locations at which the work was performed. Records shall be
18 maintained in an easily understandable and retrievable form; however, to the
19 degree that existing records satisfy this requirement, the Contractors will not be
20 required to maintain separate records.
21
22 15. Nothing herein provided shall be construed as a limitation upon the application of
23 other laws which establish different standards of compliance or upon the
24 application of requirements for the hiring of local or other area residents (e.g.,
25 those under the Public Works Employment Act of 1977 and the Community
26 Development Block Grant Program).
27
28 16. Additional assistance for Federal Construction Contractors on contracts
29 administered by Washington State Department of Transportation or by Local
30 Agencies may be found at:

31
32 Washington State Dept. of Transportation
33 Office of Equal Opportunity
34 PO Box 47314
35 310 Maple Park Ave. SE
36 Olympia WA
37 98504-7314
38 Ph: 360-705-7090
39 Fax: 360-705-6801
40 <http://www.wsdot.wa.gov/equalopportunity/default.htm>
41
42

43 **1-07.12 Federal Agency Inspection**

44 *Section 1-07.12 is supplemented with the following:*

45
46 **(January 25, 2016)**

47 ***Required Federal Aid Provisions***

48 The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273)
49 Revised May 1, 2012 and the amendments thereto supersede any conflicting provisions
50 of the Standard Specifications and are made a part of this Contract; provided, however,
51 that if any of the provisions of FHWA 1273, as amended, are less restrictive than

Washington State Law, then the Washington State Law shall prevail. The provisions of FHWA 1273, as amended, included in this Contract require that the Contractor insert the FHWA 1273 and amendments thereto in each Subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each Subcontract requiring the Subcontractors to insert the FHWA 1273 and amendments thereto in any lower tier Subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each Subcontract for Subcontractors and lower tier Subcontractors. For this purpose, upon request to the Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments thereto, the applicable wage rates, and this Special Provision.

1-07.17 Utilities and Similar Facilities

Section 1-07.17 is supplemented with the following:
(April 2, 2007)

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

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

(***)**

- City of Tacoma Light Division, Contact: Kevin Kelley, phone: (253) 502-8229
- City of Tacoma Water Division, Contact: Kimberly Baard, phone: (253) 396-3317
- City of Tacoma Traffic Division, Signal/Streetlight Shop, phone: (253) 591-5287
- CLICK! Network, Contact: Ken Mathes, phone: (253) 502-8851
- Puget Sound Energy, Contact: Mike Klapperich, Electric, phone: (253) 313-3790
OR Amber Uhls, Gas, phone: (253) 476-6137
- CenturyLink, Contact: Eric Charity, phone: (206) 733-8871
- Comcast, Contact: Todd Gallant, phone: (253) 878-4955
- AT&T Broadband Information Services, Contact: Dan McGeough, phone: (425) 896-9830
- Level 3 Communications, Level3NetworkRelocations@Level3.com
- One-Number Locator Service "One Call System" telephone **1-800-424-5555**
- Verizon, Contact: David Lacombe, phone: (206) 305-5366
- MCI Metro Utility, Contact: Brad Landis, phone: (425) 229-3123

If the Contractor plans to excavate or trench within ten (10) feet of any utility pole or other electric or water utility structure owned by the City of Tacoma, the Contractor shall contact the City of Tacoma, Department of Public Utilities, Field Coordinator, telephone number 502-8044, and arrange for an inspection before proceeding. The Contractor shall perform, at the Contractor's expense, such additional work as is required to protect the pole or structure from subsidence. The Contractor may be directed to suspend work at the site of any such excavation until such utility structures are adequately protected.

Garbage, recycling, and yard waste pick up within the project limits is on **Tuesday**.

(***)**

1 **1-07.18 Public Liability and Property Damage Insurance**

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

3
4 **1-07.18 Insurance**

5 **(January 4, 2016 APWA GSP)**

6
7 **1-07.18(1) General Requirements**

- 8
- 9 A. The Contractor shall procure and maintain the insurance described in all subsections
10 of section 1-07.18 of these Special Provisions, from insurers with a current A. M.
11 Best rating of not less than A-: VII and licensed to do business in the State of
12 Washington. The Contracting Agency reserves the right to approve or reject the
13 insurance provided, based on the insurer's financial condition.
- 14
- 15 B. The Contractor shall keep this insurance in force without interruption from the
16 commencement of the Contractor's Work through the term of the Contract and for
17 thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- 18
- 19 C. If any insurance policy is written on a claims made form, its retroactive date, and that
20 of all subsequent renewals, shall be no later than the effective date of this
21 Contract. The policy shall state that coverage is claims made, and state the
22 retroactive date. Claims-made form coverage shall be maintained by the Contractor
23 for a minimum of 36 months following the Completion Date or earlier termination of
24 this Contract, and the Contractor shall annually provide the Contracting Agency with
25 proof of renewal. If renewal of the claims made form of coverage becomes
26 unavailable, or economically prohibitive, the Contractor shall purchase an extended
27 reporting period ("tail") or execute another form of guarantee acceptable to the
28 Contracting Agency to assure financial responsibility for liability for services
29 performed.
- 30
- 31 D. The Contractor's Automobile Liability, Commercial General Liability and Excess or
32 Umbrella Liability insurance policies shall be primary and non-contributory insurance
33 as respects the Contracting Agency's insurance, self-insurance, or self-insured pool
34 coverage. Any insurance, self-insurance, or self-insured pool coverage maintained
35 by the Contracting Agency shall be excess of the Contractor's insurance and shall
36 not contribute with it.
- 37
- 38 E. The Contractor shall provide the Contracting Agency and all additional insureds with
39 written notice of any policy cancellation, within two business days of their receipt of
40 such notice.
- 41
- 42 G. The Contractor shall not begin work under the Contract until the required insurance
43 has been obtained and approved by the Contracting Agency
- 44
- 45 H. Failure on the part of the Contractor to maintain the insurance as required shall
46 constitute a material breach of contract, upon which the Contracting Agency may,
47 after giving five business days' notice to the Contractor to correct the breach,
48 immediately terminate the Contract or, at its discretion, procure or renew such
49 insurance and pay any and all premiums in connection therewith, with any sums so
50 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.

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

1-07.18(2) Additional Insured

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

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

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

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

1-07.18(3) Subcontractors

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

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

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

1-07.18(4) Verification of Coverage

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

1 Verification of coverage shall include:

- 2 1. An ACORD certificate or a form determined by the Contracting Agency to be
3 equivalent.
- 4 2. Copies of all endorsements naming Contracting Agency and all other entities listed in
5 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may
6 submit a copy of any blanket additional insured clause from its policies instead of a
7 separate endorsement.
- 8 3. Any other amendatory endorsements to show the coverage required herein.
- 9 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy
10 these requirements – actual endorsements must be submitted.

11
12 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
13 Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is
14 required on this Project, a full and certified copy of that policy is required when the
15 Contractor delivers the signed Contract for the work.

16 17 **1-07.18(5) Coverages and Limits**

18
19 The insurance shall provide the minimum coverages and limits set forth below.
20 Contractor's maintenance of insurance, its scope of coverage, and limits as required
21 herein shall not be construed to limit the liability of the Contractor to the coverage
22 provided by such insurance, or otherwise limit the Contracting Agency's recourse to any
23 remedy available at law or in equity.

24
25 All deductibles and self-insured retentions must be disclosed and are subject to approval
26 by the Contracting Agency. The cost of any claim payments falling within the deductible
27 or self-insured retention shall be the responsibility of the Contractor. In the event an
28 additional insured incurs a liability subject to any policy's deductibles or self-insured
29 retention, said deductibles or self-insured retention shall be the responsibility of the
30 Contractor.

31 32 **1-07.18(5)A Commercial General Liability**

33
34 Commercial General Liability insurance shall be written on coverage forms at least as
35 broad as ISO occurrence form CG 00 01, including but not limited to liability arising from
36 premises, operations, stop gap liability, independent contractors, products-completed
37 operations, personal and advertising injury, and liability assumed under an insured
38 contract. There shall be no exclusion for liability arising from explosion, collapse or
39 underground property damage.

40
41 The Commercial General Liability insurance shall be endorsed to provide a per project
42 general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

43
44 Contractor shall maintain Commercial General Liability Insurance arising out of the
45 Contractor's completed operations for at least three years following Substantial
46 Completion of the Work.

Such policy must provide the following minimum limits:

\$1,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products & Completed Operations Aggregate
\$1,000,000	Personal & Advertising Injury each offence
\$1,000,000	Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

\$1,000,000	Combined single limit each accident
-------------	-------------------------------------

1-07.18(5)C Workers' Compensation

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

1-07.18(5)D Excess or Umbrella Liability (January 4, 2016 APWA GSP)

The Contractor shall provide Excess or Umbrella Liability insurance with limits of not less than two (2) million each occurrence and annual aggregate. This excess or umbrella liability coverage shall be excess over and as least as broad in coverage as the Contractor's Commercial General and Auto Liability insurance

All entities listed under 1-07.18(2) of these Special Provisions shall be named as additional insureds on the Contractor's Excess or Umbrella Liability insurance policy.

This requirement may be satisfied instead through the Contractor's primary Commercial General and Automobile Liability coverages, or any combination thereof that achieves the overall required limits of insurance.

1-07.23 Public Convenience and Safety

1-07.23(1) Construction Under Traffic (May 2, 2017 APWA GSP)

Revise the third sentence of the second paragraph to read:

Accessibility to existing or temporary pedestrian push buttons shall not be impaired; if approved by the Contracting Agency activating pedestrian recall timing or other accommodation may be allowed during construction.

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

1 **(January 2, 2012)**

2 **Work Zone Clear Zone**

3 The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The
4 WZCZ applies only to temporary roadside objects introduced by the Contractor's
5 operations and does not apply to preexisting conditions or permanent Work. Those work
6 operations that are actively in progress shall be in accordance with adopted and
7 approved Traffic Control Plans, and other contract requirements.

8
9
10 During nonworking hours, equipment or materials shall not be within the WZCZ unless
11 they are protected by permanent guardrail or temporary concrete barrier. The use of
12 temporary concrete barrier shall be permitted only if the Engineer approves the
13 installation and location.

14
15 During actual hours of work, unless protected as described above, only materials
16 absolutely necessary to construction shall be within the WZCZ and only construction
17 vehicles absolutely necessary to construction shall be allowed within the WZCZ or
18 allowed to stop or park on the shoulder of the roadway.

19
20 The Contractor's nonessential vehicles and employees' private vehicles shall not be
21 permitted to park within the WZCZ at any time unless protected as described above.

22
23 Deviation from the above requirements shall not occur unless the Contractor has
24 requested the deviation in writing and the Engineer has provided written approval.

25
26 Minimum WZCZ distances are measured from the edge of traveled way and will be
27 determined as follows:

28

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

29 * or 2-feet beyond the outside edge of sidewalk

30
31 **Minimum Work Zone Clear Zone Distance**

32
33 *Section 1-07.23(1) is supplemented with the following:*

34
35 **(January 5, 2015)**

36 Lane closures are subject to the following restrictions:

37
38 Full occupation/closure of a curb lane in a given direction of South 19th Street, South
39 Yakima Avenue, Tacoma Avenue South within the project limits, in association with a
40 work zone with active construction occurring within it, is permitted if all of the following
41 conditions are met and reflected in a traffic control plan submitted at least fifteen (15)
42 working days in advance of beginning work and approved by the City:

1. Closure is only in effect from 7:00 AM until 3:00 PM weekdays in the westbound direction of South 19th Street; see below for exception.
 - a. Exception: a continuous curb lane closure not to exceed 72 hours would be permitted for any pouring of, and subsequent curing, of any concrete elements if their extent would encroach upon the minimum allowable travel way/travel lane.
2. Closure is only in effect from 9:00 AM until 4:00 PM weekdays in the eastbound direction of South 19th Street; exceptions exist; see below for exception.
 - a. Exception: a continuous curb lane closure not to exceed 72 hours would be permitted for any pouring of, and subsequent curing, of any concrete elements if their extent would encroach upon the minimum allowable travel way/travel lane.
3. Closure is only in effect from 7:00 AM until 3:00 PM weekdays in the southbound direction of South Yakima Avenue; see below for exception.
 - a. Exception: a continuous curb lane closure not to exceed 72 hours would be permitted for any pouring of, and subsequent curing, of any concrete elements if their extent would encroach upon the minimum allowable travel way/travel lane.
4. Closure is only in effect from 9:00 AM until 4:00 PM weekdays in the northbound direction of South Yakima Avenue; exceptions exist; see below for exception.
 - a. Exception: a continuous curb lane closure not to exceed 72 hours would be permitted for any pouring of, and subsequent curing, of any concrete elements if their extent would encroach upon the minimum allowable travel way/travel lane.
5. Closure is only in effect from 7:00 AM until 3:00 PM weekdays in the southbound direction of Tacoma Avenue South; see below for exception.
 - a. Exception: a continuous curb lane closure not to exceed 72 hours would be permitted for any pouring of, and subsequent curing, of any concrete elements if their extent would encroach upon the minimum allowable travel way/travel lane.
6. Closure is only in effect from 9:00 AM until 4:00 PM weekdays in the northbound direction of Tacoma Avenue South; exceptions exist; see below for exception.
 - a. Exception: a continuous curb lane closure not to exceed 72 hours would be permitted for any pouring of, and subsequent curing, of any concrete elements if their extent would encroach upon the minimum allowable travel way/travel lane.
7. Work zone curb lane closures in each direction of South 19th Street, South Yakima Avenue, or Tacoma Avenue South shall not exist adjacent to one another nor be associated with the same intersection/location.

8. Multiple work zone curb lane closures in the same direction of South 19th Street, South Yakima Avenue, or Tacoma Avenue South shall be spaced to permit adequate temporary traffic control transitions approaching and departing each zone and between each zone (and associated temporary traffic control extent) without causing driver confusion or safety concern; and the work zone curb lane closures (and associated work zone that may impact the adjacent sidewalk) cannot cause a lack of continuity of the pedestrian access route at a given intersection, or disrupt the continuity of the pedestrian access route through the project area as a whole, and/or require an excessive need for pedestrians to cross roadways at legal crosswalks in order to travel along South 19th Street.
9. Lane closures at/near intersection corners that also preclude use of the sidewalk and/or pedestrian ramps shall allow for pedestrian passage to and through the corner (in a direction, or directions, commensurate with work zone allowances) through existing conditions or temporarily established conditions meeting or exceeding the level of accessibility that existed prior to the project.
10. Portable Changeable Message Signs (PCMS) must be established at least seven (7) days in advance of work starting to advise traveling public of upcoming work and lane closures/restrictions at beginning of work zone corridor and on any approaches to the work zone corridor from intermediate arterial roadways.

Partial encroachment into a curb lane in a given direction of South 19th Street, South Yakima Avenue, or Tacoma Avenue South within the project limits, in association with an active or inactive work zone (i.e., non-working hours), is permitted if all of the following conditions are met and reflected in a traffic control plan submitted at least fifteen (15) working days in advance of beginning work and approved by the City:

1. The resulting width of the adjacent curb lane, and any other affected lanes, are at least 10 feet wide (clear distance from stripe to temporary traffic control device) and preferably 11 feet wide.
2. Pedestrian access route to/through the work zone area and project area as a whole meet the same expectations as identified previously for a full curb lane closure.
3. The temporary traffic control devices defining the encroachment shall be affixed with Type C steady burn lights for conspicuity in low-light/night-time conditions.

If not in effect concurrently with any other lane closures, temporary closures of non-curb lanes in a given direction of South 19th Street, South Yakima Avenue, or Tacoma Avenue South within the project limits, in association with a work zone with active construction occurring within it, is permitted if all of the following conditions are met and reflected in a traffic control plan submitted at least fifteen (15) working days in advance of beginning work and approved by the City:

1. From 7:00 AM until 3:00 PM weekdays in the westbound direction of South 19th Street; exceptions exist (see below).
 - a. Exception: Extended hours, including evening/night-time/weekend working hours (with pre-approved City noise variance application), will be considered to support selective project work elements (e.g., roadway grinding and paving operations) if supporting information is supplied to show how the additional allowance would help mitigate overall impact to the traveling public.
2. From 9:00 AM until 4:00 PM weekdays in the eastbound direction of South 19th Street; exceptions exist (see below).
 - a. Exception: Extended hours, including evening/night-time/weekend working hours (with pre-approved City noise variance application), will be considered to support selective project work elements (e.g., roadway grinding and paving operations) if supporting information is supplied to show how the additional allowance would help mitigate overall impact to the traveling public.
3. From 7:00 AM until 3:00 PM weekdays in the southbound direction of South Yakima Avenue; exceptions exist (see below).
 - a. Exception: Extended hours, including evening/night-time/weekend working hours (with pre-approved City noise variance application), will be considered to support selective project work elements (e.g., roadway grinding and paving operations) if supporting information is supplied to show how the additional allowance would help mitigate overall impact to the traveling public.
4. From 9:00 AM until 4:00 PM weekdays in the northbound direction of South Yakima Avenue; exceptions exist (see below).
 - a. Exception: Extended hours, including evening/night-time/weekend working hours (with pre-approved City noise variance application), will be considered to support selective project work elements (e.g., roadway grinding and paving operations) if supporting information is supplied to show how the additional allowance would help mitigate overall impact to the traveling public.
5. From 7:00 AM until 3:00 PM weekdays in the southbound direction of Tacoma Avenue South; exceptions exist (see below).
 - a. Exception: Extended hours, including evening/night-time/weekend working hours (with pre-approved City noise variance application), will be considered to support selective project work elements (e.g., roadway grinding and paving operations) if supporting information is supplied to show how the additional allowance would help mitigate overall impact to the traveling public.
6. From 9:00 AM until 4:00 PM weekdays in the northbound direction of Tacoma Avenue South; exceptions exist (see below).
 - a. Exception: Extended hours, including evening/night-time/weekend working hours (with pre-approved City noise variance application), will be considered to support selective project work elements (e.g., roadway grinding and paving operations) if supporting information is

1 supplied to show how the additional allowance would help mitigate
2 overall impact to the traveling public.
3

4 7. Two-way traffic in independent lanes is maintained at all times on South 19th
5 Street, South Yakima Avenue, and Tacoma Avenue South and any
6 intersecting arterial roadways; local roadways may be closed to through
7 traffic if shown to be necessary for the work element/project.
8

9 8. Lane closures determined to be in the area of, or along the access route
10 to/from, Cheney Stadium during arrival and departure periods associated with
11 events at the stadium will not be permitted.
12

13 If work is occurring within the functional area of a signalized intersection and/or the
14 temporary traffic controls adversely affect the operation of the signalized intersection,
15 then Uniform Police Officer control of the intersection/intersection approaches will be
16 required for the duration of time of the affected state of the intersection's functional area.
17 Police officer control is required during traffic signal cabinet change outs. Based on
18 Police requirements, the associated traffic control plan may require modification to
19 adhere to Police control protocols.
20

21 Before the beginning of any work within the project area, six (6) Portable Changeable
22 Message Signs (PCMS) are required to be in place at least seven (7) days before
23 construction begins, and can be removed thereafter with the establishment of the
24 applicable traffic control plan and controls. The general locations are as followings:
25 South 19th Street (eastbound) west of South Yakima Avenue, South 19th Street
26 (westbound) east of Tacoma Avenue South; Yakima Avenue South
27 (northbound/southbound) south/north of South 19th Street; and South Tacoma Avenue
28 (northbound/southbound) south/north of South 19th Street.
29

30 Change in construction location/scope of work
31

32 If the Engineer determines the permitted closure hours adversely affect traffic, the
33 Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in
34 writing of any change in the closure hours.
35

36 Lane closures are not allowed on any of the following:
37

38 1. A holiday,
39

40 2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or
41 Monday are considered a holiday weekend. A holiday weekend includes
42 Saturday, Sunday, and the holiday.
43

44 3. After 12:00 PM on the day prior to a holiday or holiday weekend, and
45

46 4. Before 9:00 AM on the day after the holiday or holiday weekend.
47
48
49
50
51

1 **1-07.24 Rights of Way**
2 **(July 23, 2015 APWA GSP)**

3
4 *Delete this section and replace it with the following:*

5
6 Street Right of Way lines, limits of easements, and limits of construction permits are
7 indicated in the Plans. The Contractor's construction activities shall be confined within
8 these limits, unless arrangements for use of private property are made.
9

10 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of
11 way and easements, both permanent and temporary, necessary for carrying out the
12 work. Exceptions to this are noted in the Bid Documents or will be brought to the
13 Contractor's attention by a duly issued Addendum.
14

15 Whenever any of the work is accomplished on or through property other than public
16 Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any
17 easement agreement obtained by the Contracting Agency from the owner of the private
18 property. Copies of the easement agreements may be included in the Contract
19 Provisions or made available to the Contractor as soon as practical after they have been
20 obtained by the Engineer.
21

22 Whenever easements or rights of entry have not been acquired prior to advertising,
23 these areas are so noted in the Plans. The Contractor shall not proceed with any portion
24 of the work in areas where right of way, easements or rights of entry have not been
25 acquired until the Engineer certifies to the Contractor that the right of way or easement is
26 available or that the right of entry has been received. If the Contractor is delayed due to
27 acts of omission on the part of the Contracting Agency in obtaining easements, rights of
28 entry or right of way, the Contractor will be entitled to an extension of time. The
29 Contractor agrees that such delay shall not be a breach of contract.
30

31 Each property owner shall be given 48 hours notice prior to entry by the Contractor.
32 This includes entry onto easements and private property where private improvements
33 must be adjusted.
34

35 The Contractor shall be responsible for providing, without expense or liability to the
36 Contracting Agency, any additional land and access thereto that the Contractor may
37 desire for temporary construction facilities, storage of materials, or other Contractor
38 needs. However, before using any private property, whether adjoining the work or not,
39 the Contractor shall file with the Engineer a written permission of the private property
40 owner, and, upon vacating the premises, a written release from the property owner of
41 each property disturbed or otherwise interfered with by reasons of construction pursued
42 under this contract. The statement shall be signed by the private property owner, or
43 proper authority acting for the owner of the private property affected, stating that
44 permission has been granted to use the property and all necessary permits have been
45 obtained or, in the case of a release, that the restoration of the property has been
46 satisfactorily accomplished. The statement shall include the parcel number, address,
47 and date of signature. Written releases must be filed with the Engineer before the
48 Completion Date will be established.
49
50
51

END OF SECTION

1 **1-08 PROSECUTION AND PROGRESS**

2
3 *Add the following new section:*

4 **1-08.0 Preliminary Matters**
5 **(May 25, 2006 APWA GSP)**

6
7 **1-08.0(1) Preconstruction Conference**
8 **(October 10, 2008 APWA GSP)**
9

10 Prior to the Contractor beginning the work, a preconstruction conference will be held
11 between the Contractor, the Engineer and such other interested parties as may be
12 invited. The purpose of the preconstruction conference will be:

- 13 1. To review the initial progress schedule;
- 14 2. To establish a working understanding among the various parties associated or
15 affected by the work;
- 16 3. To establish and review procedures for progress payment, notifications,
17 approvals, submittals, etc.;
- 18 4. To establish normal working hours for the work;
- 19 5. To review safety standards and traffic control; and
- 20 6. To discuss such other related items as may be pertinent to the work.

21
22 The Contractor shall prepare and submit at the preconstruction conference the following:

- 23 1. A breakdown of all lump sum items;
- 24 2. A preliminary schedule of working drawing submittals; and
- 25 3. A list of material sources for approval if applicable.

26
27 *Add the following new section:*

28 **1-08.0(2) Hours of Work**
29 **(December 8, 2014 APWA GSP)**
30

31 Except in the case of emergency or unless otherwise approved by the Engineer, the
32 normal working hours for the Contract shall be any consecutive 8-hour period between
33 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the
34 Contractor desires different than the normal working hours stated above, the request
35 must be submitted in writing prior to the preconstruction conference, subject to the
36 provisions below. The working hours for the Contract shall be established at or prior to
37 the preconstruction conference.
38

39 All working hours and days are also subject to local permit and ordinance conditions
40 (such as noise ordinances).
41

42 If the Contractor wishes to deviate from the established working hours, the Contractor
43 shall submit a written request to the Engineer for consideration. This request shall state
44 what hours are being requested, and why. Requests shall be submitted for review no
45 later than **two (2) working days** prior to the day(s) the Contractor is requesting to
46 change the hours.
47

48 If the Contracting Agency approves such a deviation, such approval may be subject to
49 certain other conditions, which will be detailed in writing. For example:

- 50 1. On non-Federal aid projects, requiring the Contractor to reimburse the
51 Contracting Agency for the costs in excess of straight-time costs for Contracting
52 Agency representatives who worked during such times. (The Engineer may

- 1 require designated representatives to be present during the work.
2 Representatives who may be deemed necessary by the Engineer include, but
3 are not limited to: survey crews; personnel from the Contracting Agency's
4 material testing lab; inspectors; and other Contracting Agency employees or third
5 party consultants when, in the opinion of the Engineer, such work necessitates
6 their presence.)
7 2. Considering the work performed on Saturdays, Sundays, and holidays as
8 working days with regard to the contract time.
9 3. Considering multiple work shifts as multiple working days with respect to contract
10 time even though the multiple shifts occur in a single 24-hour period.
11 4. If a 4-10 work schedule is requested and approved the non-working day for the
12 week will be charged as a working day.
13 5. If Davis Bacon wage rates apply to this Contract, all requirements must be met
14 and recorded properly on certified payroll
15

16 **1-08.3(2)A Type A Progress Schedule**
17 **(March 13, 2012 APWA GSP)**

18 *Revise this section to read:*
19

20 The Contractor shall submit four (4) copies of a Type A Progress Schedule no later than
21 at the preconstruction conference, or some other mutually agreed upon submittal time.
22 The schedule may be a critical path method (CPM) schedule, bar chart, or other
23 standard schedule format. Regardless of which format used, the schedule shall identify
24 the critical path. The Engineer will evaluate the Type A Progress Schedule and approve
25 or return the schedule for corrections within 15 calendar days of receiving the submittal.
26

27 **1-08.4 Prosecution of Work**

28 *Delete this section and replace it with the following:*
29

30 **1-08.4 Notice to Proceed and Prosecution of Work**
31 **(July 23, 2015 APWA GSP)**
32

33 Notice to Proceed will be given after the contract has been executed and the contract
34 bond and evidence of insurance have been approved and filed by the Contracting
35 Agency. The Contractor shall not commence with the work until the Notice to Proceed
36 has been given by the Engineer. The Contractor shall commence construction activities
37 on the project site within ten days of the Notice to Proceed Date, unless otherwise
38 approved in writing. The Contractor shall diligently pursue the work to the physical
39 completion date within the time specified in the contract. Voluntary shutdown or slowing
40 of operations by the Contractor shall not relieve the Contractor of the responsibility to
41 complete the work within the time(s) specified in the contract.
42

43 When shown in the Plans, the first order of work shall be the installation of high visibility
44 fencing to delineate all areas for protection or restoration, as described in the Contract.
45 Installation of high visibility fencing adjacent to the roadway shall occur after the
46 placement of all necessary signs and traffic control devices in accordance with 1-10.1(2).
47 Upon construction of the fencing, the Contractor shall request the Engineer to inspect
48 the fence. No other work shall be performed on the site until the Contracting Agency has
49 accepted the installation of high visibility fencing, as described in the Contract.
50
51

1 **1-08.5 Time for Completion**
2 **(September 12, 2016 APWA GSP, Option A)**
3

4 *Revise the third and fourth paragraphs to read:*
5

6 Contract time shall begin on the first working day following the Notice to Proceed Date.
7

8 Each working day shall be charged to the contract as it occurs, until the contract work is
9 physically complete. If substantial completion has been granted and all the authorized
10 working days have been used, charging of working days will cease. Each week the
11 Engineer will provide the Contractor a statement that shows the number of working days:
12 (1) charged to the contract the week before; (2) specified for the physical completion of
13 the contract; and (3) remaining for the physical completion of the contract. The
14 statement will also show the nonworking days and any partial or whole day the Engineer
15 declares as unworkable. Within 10 calendar days after the date of each statement, the
16 Contractor shall file a written protest of any alleged discrepancies in it. To be considered
17 by the Engineer, the protest shall be in sufficient detail to enable the Engineer to
18 ascertain the basis and amount of time disputed. By not filing such detailed protest in
19 that period, the Contractor shall be deemed as having accepted the statement as
20 correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10
21 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily
22 be charged as a working day then the fifth day of that week will be charged as a working
23 day whether or not the Contractor works on that day.
24

25 *Revise the sixth paragraph to read:*
26

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

- 31 1. The physical work on the project must be complete; and
 - 32 2. The Contractor must furnish all documentation required by the contract and
33 required by law, to allow the Contracting Agency to process final acceptance of
34 the contract. The following documents must be received by the Project Engineer
35 prior to establishing a completion date:
 - 36 a. Certified Payrolls (per Section 1-07.9(5)).
 - 37 b. Material Acceptance Certification Documents
 - 38 c. Monthly Reports of Amounts Credited as DBE Participation, as required by
39 the Contract Provisions.
 - 40 d. Final Contract Voucher Certification
 - 41 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
42 and all Subcontractors
 - 43 f. Property owner releases per Section 1-07.24
- 44

45 *Revise the sixth paragraph to read:*
46

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

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

This section is supplemented with the following:
(March 13, 1995)

This project shall be physically completed within **50** working days.

1-08.6 Suspension of Work

Section 1-08.6 is supplemented with the following:
(January 2, 2018)

Contract time may be suspended for procurement of critical materials (Procurement Suspension). In order to receive a Procurement Suspension, the Contractor shall within 21 calendar days after execution by the Contracting Agency, place purchase orders for all materials deemed critical by the Contracting Agency for physical completion of the contract. The Contractor shall provide copies of purchase orders for the critical materials. Such purchase orders shall disclose the purchase order date and estimated delivery dates for such critical material.

The Contractor shall show procurement of the materials listed below as activities in the Progress Schedule. If the approved Progress Schedule indicates that the materials procurement are critical activities, and if the Contractor has provided documentation that purchase orders are placed for the critical materials within the prescribed 21 calendar days, then contract time will be suspended upon physical completion of all critical work except that work dependent upon the below listed critical materials:

	Equipment	Manufacturer/Model
1	Pedestrian pushbutton equipment per intersection	Polara Navigator 2-wire system
2	Traffic signal controller	Siemens M62 series
3	Malfunction Management Unit	Eberle Design, Inc, (EDI) MMU2-16LEip
4	Vehicle Detector	Gridsmart

1 Charging of contract time will resume upon delivery of the critical materials to the
2 Contractor or 120 calendar days after execution by the Contracting Agency, whichever
3 occurs first.

4
5 **1-08.9 Liquidated Damages**
6 **(August 14, 2013 APWA GSP)**

7 *Revise the fourth paragraph to read:*

8
9 When the Contract Work has progressed to Substantial Completion as defined in the
10 Contract, the Engineer may determine that the work is Substantially Complete. The
11 Engineer will notify the Contractor in writing of the Substantial Completion Date. For
12 overruns in Contract time occurring after the date so established, the formula for
13 liquidated damages shown above will not apply. For overruns in Contract time occurring
14 after the Substantial Completion Date, liquidated damages shall be assessed on the
15 basis of direct engineering and related costs assignable to the project until the actual
16 Physical Completion Date of all the Contract Work. The Contractor shall complete the
17 remaining Work as promptly as possible. Upon request by the Project Engineer, the
18 Contractor shall furnish a written schedule for completing the physical Work on the
19 Contract.

20
21
22 **END OF SECTION**
23

1 **1-09 MEASUREMENT AND PAYMENT**

2
3 **1-09.2(1) General Requirements for Weighing Equipment**
4 **(July 23, 2015 APWA GSP, Option 2)**

5
6 *Revise item 4 of the fifth paragraph to read:*

- 7
8 4. Test results and scale weight records for each day's hauling operations are
9 provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027,
10 Scaleman's Daily Report, unless the printed ticket contains the same information
11 that is on the Scaleman's Daily Report Form. The scale operator must provide
12 AM and/or PM tare weights for each truck on the printed ticket.

13
14 **1-09.6 Force Account**
15 **(October 10, 2008 APWA GSP)**

16 *Supplement this Section with the following:*

17
18 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
19 all items to be paid per force account, only to provide a common proposal for Bidders.
20 All such dollar amounts are to become a part of Contractor's total bid. However, the
21 Contracting Agency does not warrant expressly or by implication that the actual amount
22 of work will correspond with those estimates. Payment will be made on the basis of the
23 amount of work actually authorized by Engineer.

24
25 **1-09.9 Payments**
26 **(March 13, 2012 APWA GSP)**

27
28 *Delete the first four paragraphs and replace them with the following:*

29
30 The basis of payment will be the actual quantities of Work performed according to the
31 Contract and as specified for payment.

32
33 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
34 Preconstruction Conference, to enable the Project Engineer to determine the Work
35 performed on a monthly basis. A breakdown is not required for lump sum items that
36 include a basis for incremental payments as part of the respective Specification. Absent
37 a lump sum breakdown, the Project Engineer will make a determination based on
38 information available. The Project Engineer's determination of the cost of work shall be
39 final.

40
41 Progress payments for completed work and material on hand will be based upon
42 progress estimates prepared by the Engineer. A progress estimate cutoff date will be
43 established at the preconstruction conference.

44
45 The initial progress estimate will be made not later than 30 days after the Contractor
46 commences the work, and successive progress estimates will be made every month
47 thereafter until the Completion Date. Progress estimates made during progress of the
48 work are tentative, and made only for the purpose of determining progress payments.
49 The progress estimates are subject to change at any time prior to the calculation of the
50 final payment.

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

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

11
12 Progress payments will be made in accordance with the progress estimate less:

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

17
18 Progress payments for work performed shall not be evidence of acceptable performance
19 or an admission by the Contracting Agency that any work has been satisfactorily
20 completed. The determination of payments under the contract will be final in accordance
21 with Section 1-05.1.

22
23 **1-09.9(1) Retainage**
24 **(June 27, 2011)**

25 *Section 1-09.9(1) content and title is deleted and replaced with the following:*

26 **Vacant**

27
28 **1-09.11 Disputes and Claims**

29 *Sections 1-09.11 through 1-09.11(1)B are deleted and replaced with the following:*

30
31 **(September 3, 2019)**
32 **Disputes and Claims**

33 When protests occur during a Contract, the Contractor shall pursue resolution through
34 the Engineer in accordance with Section 1-04.5. Unless noted otherwise in the
35 specifications, compliance with all the requirements of Section 1-04.5 is a condition
36 precedent to initiating any action pursuant to these Special Provisions.

37
38 If the negotiations using the procedures outlined in Section 1-04.5 fail to provide
39 satisfactory resolution of the protest, then the Contractor shall provide the Engineer with
40 written notification of dispute stating that the Contractor will continue to pursue the
41 dispute in accordance with the provisions of these Special Provisions. The written
42 notification of dispute shall be provided within 14 calendar days after receipt of the
43 Engineer's written determination that the Contractor's protest is invalid pursuant to
44 Section 1-04.5. Should the Contractor not provide written notification of dispute within
45 the designated time period, the Contractor shall be deemed to have waived any right to
46 pursue the protest further and the matter shall be considered resolved.

47 When the Proposal Form includes the Bid item "Disputes Review Board", unresolved
48 protests shall be subject to the Disputes Review Board subsection of this Special
49 Provision. Either party, Engineer or Contractor, may refer a matter in dispute to the

1 Disputes Review Board. Compliance with the requirements of the Disputes Review
2 Board subsection of this Special Provision is a condition precedent to any further right of
3 the Contractor to pursue the dispute either by certified claim or litigation/arbitration.
4

5 When the Proposal Form does not include the Bid item "Disputes Review Board", the
6 Contractor's written notification of dispute shall indicate whether the Contractor is
7 requesting to resolve the dispute through the use of a Disputes Review Board as
8 outlined in the Disputes Review Board section of this Special Provision, or will submit a
9 formal certified claim directly to the Engineer pursuant to Section 1-09.11(2). If the
10 Contractor requests a Disputes Review Board, the Engineer will notify the Contractor in
11 writing within 7 calendar days of receipt of the request whether the request is
12 acceptable. If both parties to the dispute agree to use a Disputes Review Board, then a
13 pay item "Disputes Review Board" will be added to the Contract by change order and the
14 dispute will be subject to the provisions of the Disputes Review Board subsection of this
15 Special Provision. If the parties do not agree to establish a Disputes Review Board or
16 the Contractor does not request a Disputes Review Board in its written notification of
17 dispute, the Contractor shall comply with the provisions of Section 1-09.11(2).
18

19 Regardless of any protest or dispute, the Contractor shall proceed promptly with the
20 Work as the Engineer orders.
21

22 **Disputes Review Board**

23 The procedures set forth in these Special Provisions shall only apply when the
24 Contract includes the pay item "Disputes Review Board".
25

26 **Disputes Review Board – General**

27 In order to assist in the resolution of dispute(s) between the Contracting
28 Agency and the Contractor arising out of the work of this Contract, a
29 Disputes Review Board, hereinafter called the "Board", will consider
30 disputes referred to it and furnish written recommendations to the
31 Contracting Agency and Contractor to assist in resolution of the
32 dispute(s). The purpose of the Board response to such issues is to
33 provide nonbinding findings and recommendations designed to expose
34 the disputing parties to an independent view of the dispute.
35

36 **Disputes Eligible for Consideration by the Disputes Review Board**

37 The Board shall consider and provide written recommendations
38 concerning the following disputes:
39

- 40 1. Interpretation of the Contract.
- 41
- 42 2. Entitlement to additional compensation and/or time for completion
- 43
- 44 3. Other subjects mutually agreed by the Contracting Agency and Contractor to
- 45 be a Board issue.
- 46

47 **Board Member Qualifications**

48 The following definitions apply for the purpose of setting forth experience
49 and disclosure requirements for Board members.
50

1 **Financial ties** - any ownership interest, loans, receivables or
2 payables. Party directly involved - The Contracting Agency or
3 Contractor of this Contract.
4

5 **Party indirectly involved** - The firms associated with the
6 Contractor on this Contract, including joint venture partners,
7 subcontractors of any tier, and suppliers; and firms associated
8 with the Contractor or the Contracting Agency on this Contract,
9 such as designers, architects, engineers, or other professional
10 service firms or consultants.

11 The Board members shall:

- 12
- 13 1. Be experienced in the interpretation of construction
- 14 contract documents.
- 15
- 16 2. Have attended training by the Dispute Resolution Board
- 17 Foundation in dispute resolution within the last five years.
- 18
- 19 3. Be experienced in construction Contract dispute
- 20 resolution for an owner or Contractor at the level of having
- 21 responsibility and authority to settle disputes.
- 22
- 23 4. Be able to discharge their responsibilities impartially and
- 24 independently, considering the facts and conditions
- 25 related to the matters under consideration in strict
- 26 compliance with the provisions of the Contract.
- 27
- 28 5. Not be a current employee of any party directly or
- 29 indirectly involved.
- 30
- 31 6. Not have been an employee of any party directly or
- 32 indirectly involved with the Project within a period of one
- 33 year of the Contract Execution date.
- 34
- 35 7. Not have a financial interest in the Contract except for
- 36 payments for services on the Board.
- 37

38 **Board Member Ongoing Responsibilities**

39 While serving on the Disputes Review Board on this project:

- 40
- 41 1. Board members shall not participate in any discussion contemplating the
- 42 creation of an agreement or making an agreement with any party directly or
- 43 indirectly involved in the Contract regarding employment or fee-based
- 44 consulting services, or any other business arrangement after the Contract is
- 45 completed.
- 46
- 47 2. Board members shall not officially give any advice to either party. The
- 48 individual members will act in a completely independent manner and will
- 49 have no consulting or business connections with either party, except for
- 50 payments for services on the Board.
- 51

3. During routine meetings of the Board as well as during formal hearings, Board members shall refrain from expressing opinions on the merits of statements on matters under dispute or potential dispute. Opinions of Board members expressed in private sessions with other Board members should be kept strictly confidential.
4. The Board shall comply with the terms of the Contract and enforce such terms consistent with the laws of the State of Washington. Board members shall not supplant or otherwise interfere with the respective rights, authorities, duties and obligations of the parties as defined in the Contract. In making its recommendations, the Board shall not make a recommendation that ignores, disregards, or undermines the intention, requirements, or allocation of risk, established by the Contract.
5. Throughout the life of the Contract, if Board members become aware of potential conflicts of interest, they shall be disclosed to the parties immediately.

Establishment of the Board

The Contracting Agency and Contractor shall meet prior to the start of Contract time to jointly select three Board nominees. If the pay item, "Disputes Review Board" is added by change order, the Contracting Agency and Contractor shall meet to select Board nominees after the change order is processed.

The Contracting Agency and the Contractor shall provide to the Board nominees a list of the firms directly and indirectly involved with the Project, including, but not limited to designers, architects, engineers, professional service firms, consultants, JV partners, subcontractors and suppliers, along with a listing of key personnel of each.

Board nominees shall provide to the Contractor and Contracting Agency the following information within 21 calendar days of nomination. Board nominees that are included on the Washington State Department of Transportation "Statewide Prequalified DRB Candidate Roster" will not be required to submit resumes.

1. Resume showing:
 - a. Full name and contact information
 - b. Experience qualifying the person as a Board member as outlined in the Board Member Qualifications subsection of this Special Provision.
 - c. Previous Board participation, if any. List each Board assignment separately, indicating the name and location of the project, approximate dates of Board service, name of Contracting Agency, name of Contractor, names of the other Board members and the approximate number of disputes heard. When previous Board experience is extensive, the list

1 may be truncated at the prospective Board member's
2 discretion.

3
4 2. Disclosure statement addressing the following:

- 5
6 a. Previous or current direct employment by one of the parties
7 directly or indirectly involved.
8
9 b. Previous or current engagement as a consultant to any party
10 directly or indirectly involved - by the prospective Board
11 member or by the firm to which the prospective Board member
12 is directly employed.
13
14 c. Previous, current, or future financial ties to any of the parties
15 directly or indirectly involved.
16
17 d. Previous or current personal or professional relationships with
18 a key member of any party directly or indirectly involved.
19
20 e. Previous and current service as a Board member on projects
21 where any of the parties directly or indirectly involved in this
22 Contract were also involved.
23
24 f. Any prior involvement in this project.

25
26 Within 14 calendar days of receiving the resumes and disclosure
27 statements from the Board nominees, the Contracting Agency and the
28 Contractor shall review and jointly agree on the final selection of the three
29 members to serve on the Board. In the event that any of the three
30 nominees are not acceptable to either party, the process shall be
31 repeated until all positions are filled.

32
33 The Contracting Agency, the Contractor, and the Board shall execute the
34 Three-Party Agreement not later than the first Board meeting. The Three-
35 Party Agreement form (WSDOT Form 134-091) is available online at
36 WSDOT Electronic Forms webpage.

37
38 The Board shall determine and notify the parties which Board member will
39 act as the Board chair.
40

41 **Disputes Review Board Candidates**

42 The qualifications of some potential Board members have been
43 reviewed and deemed potentially acceptable by the Washington
44 State Department of Transportation (WSDOT). This list of
45 potential Board members, Statewide Prequalified DRB Candidate
46 Roster, is available from the WSDOT Headquarters Construction
47 Office website at
48 [https://www.wsdot.wa.gov/business/construction/dispute-review-](https://www.wsdot.wa.gov/business/construction/dispute-review-boards)
49 [boards](https://www.wsdot.wa.gov/business/construction/dispute-review-boards). Either party may propose a Board nominee that is not on
50 the WSDOT list. In either case, Board nominees must comply with
51 the requirements of the **Board Member Qualifications, Board**

Member Ongoing Responsibilities, and Establishment of the Board subsection of this Special Provision, and every Board member must be deemed acceptable by both the Contracting Agency and the Contractor.

Replacement or Termination of a Board Member

Procedures for terminating Board members are defined in The Three-Party Agreement.

Disputes Review Board Procedures – General

The Board, Contracting Agency, and Contractor may mutually develop rules of operation of the Board that supplement the Three-Party Agreement. Such supplemental rules must be in writing and accepted by the Board, Contracting Agency, and Contractor.

The Board members shall act impartially and independently in the consideration of facts and conditions surrounding any dispute presented by the Contracting Agency or the Contractor and that the recommendations concerning any such dispute are advisory.

The Contracting Agency and the Contractor shall furnish to the Board documents in accordance with the Three-Party Agreement.

Regular Disputes Review Board Meetings

All regular Board meetings will be held at or near the job site. The frequency of regular meetings will be set by mutual agreement of the Board, the Contracting Agency and the Contractor. Each regular meeting is expected to consist of a round table discussion and a field inspection of the project site. A member of the Contracting Agency and Contractor are expected to jointly facilitate the round table discussion. Round table discussion attendees are expected to include selected personnel from the Contracting Agency and the Contractor. The agenda for each meeting will be managed by the Board.

**Standard Procedure for Consideration of Disputes
Dispute Referral**

Disputes shall be referred in writing to the Board chair with a copy concurrently provided to the other Board members and the other party.

1. The dispute referral shall concisely define the nature and specifics of the dispute that is proposed to be considered by the Board and the scope of the recommendation requested. This referral is not expected to contain a mutually agreed upon statement of the dispute.
2. The Board chair shall confer with the parties to establish a briefing schedule for delivering prehearing submittals/rebuttals, and a date, time, and location for convening the Board for a hearing.

Pre-Hearing Submittal

1. The Contracting Agency and the Contractor shall each prepare a pre-hearing submittal and transmit both a hard copy and an electronic copy of it to all three members of the Board and the other party. The pre-hearing submittal, comprising a position paper with such backup data as is referenced in the position paper, shall be tabbed, indexed, and the pages consecutively numbered.
2. Both position papers shall, at a minimum, contain the following:
 - a. A mutually agreed upon joint statement of the dispute and the scope of the desired report being requested of the Board, placed at the beginning of the papers. The language of this joint statement shall summarize in a few sentences the nature of the dispute. If the parties are unable to agree on the wording of the joint statement of dispute, each party's position paper shall contain both statements, and identify the party authoring each statement.
 - b. The basis and justification for the party's position, with reference to Contract language and other supporting documents for each element of the dispute. In order to minimize duplication and repetitiveness, the parties may identify a common set of documents that will be referred to by both parties, and submit them in a separate package.
3. If requested by the Board or either party, the Contracting Agency and the Contractor shall each prepare and submit a rebuttal paper in response the position paper of the other party.
4. The number of copies, distribution requirements, and time for submittal will be established by the Board and communicated to the parties by the Board chair.

Disputes Review Board Hearing

1. The Contracting Agency will arrange for or provide hearing facilities at or near the project site.
2. Attendance:
 - a. The Contracting Agency and the Contractor will have a representative at all hearings.
 - b. The Contracting Agency and Contractor shall both limit attendance at the hearing to personnel directly involved in the dispute and participants in the good-faith negotiations that were conducted prior to submittal to the Board except as noted elsewhere in this section.

- 1 c. At least 14 calendar days before the hearing, each party shall
2 provide a list of proposed attendees to the Board and to the
3 other party. In the event of any disagreement, the Board shall
4 make the final determination as to who attends the hearing.
5
6 d. Attorneys shall not attend hearings except as follows:
7
8 i. Attorneys are identified as such on the list of proposed
9 attendees;
10
11 ii. All parties desiring their attorney present are able to do
12 so.
13
14 iii. Attorneys shall not participate in the hearing, unless
15 the scope and extent of Attorney participation is
16 mutually agreed to by the Contracting Agency,
17 Contractor and the Board at least 7 calendar days
18 before the hearing.
19
20 e. For hearings regarding disputes involving a Subcontractor, the
21 Contractor shall require and ensure that each Subcontractor
22 involved in the dispute have present an authorized
23 representative with actual knowledge of the facts underlying
24 the Subcontractor disputes.
25
26 3. A party furnishing written evidence or documentation of any kind to
27 the Board must furnish copies of such information to the other party
28 and the Board a minimum of 21 calendar days prior to the date the
29 Board sets to convene the hearing for the dispute, unless otherwise
30 mutually agreed to by the parties and the Board. Either party shall
31 produce such additional evidence as the Board may deem necessary
32 and furnish copies to the other party prior to submittal to the Board.
33
34 4. The conduct of the hearing shall be established by the Board and be
35 generally consistent with the following guidelines:
36
37 a. The party who referred the dispute to the Board shall present
38 first, followed by the other party.
39
40 b. To assure each party a full and adequate opportunity to
41 present their position, both parties shall be allowed successive
42 rebuttals and to rebut the opposing party's position until, in the
43 Board's opinion, all aspects of the dispute have been fully and
44 fairly covered.
45
46 c. The Board shall be fully prepared to, and may at any time, ask
47 questions, request clarifications, or ask for additional data,
48 documents, and/or job records.
49
50 d. Either party may request that the Board direct a question to, or
51 request a clarification from the other party. The Board shall
determine at what point in the proceedings such requests may

1 be made and if they will be granted. In general, the Board will
2 not allow one party to be questioned directly by the other
3 party.
4

5 e. In difficult or complex cases, additional hearings may be
6 necessary to facilitate full consideration and understanding of
7 the dispute.
8

9 f. The Board, in its discretion, may allow introduction of
10 arguments, exhibits, handouts, or documentary evidence that
11 were not included in that party's prehearing position paper or
12 rebuttal and have not been previously submitted to the other
13 party. In such cases the other party will be granted time to
14 review and prepare a rebuttal to the new material, which may
15 require a continuation of the hearing.
16

17 5. After the hearing is concluded, the Board shall meet in private and
18 reach a conclusion supported by two or more members. Its findings
19 and recommendations, together with its reasons shall then be
20 submitted as a written report to both parties. The recommendations
21 shall be based on the pertinent Contract provisions, facts, and
22 circumstances involved in the dispute. The Contract shall be
23 interpreted and construed in accordance with the laws of the State of
24 Washington.
25

26 **Failure to Prepare a Pre-Hearing Submittal or Attend a Hearing**

27 In the event that either party fails to deliver a pre-hearing submittal by the
28 date established by the Board, the Board shall, at its discretion, determine
29 whether the hearing shall proceed as originally scheduled, or allow
30 additional time for the submittal and/or reschedule the hearing. On the
31 final date and time established for the hearing, the Board shall proceed
32 with the hearing utilizing the information that has been submitted.
33

34 In the event that representatives of either the Contracting Agency or the
35 Contractor fail to appear at the appointed time of a hearing, the Board
36 shall postpone the hearing until such time as representatives from both
37 parties are available to proceed with the hearing.
38

39 **Use of Outside Experts**

40
41 1. By the Contracting Agency or the Contractor:

42
43 a. A party intending to offer an outside expert's analysis at the
44 hearing shall notify the other party and the Board in writing no
45 less than 30 calendar days prior to the due date for delivering
46 the pre-hearing submittal, and provide the following disclosure:
47

48 i. The expert's name and a general statement of the area
49 of the dispute that will be covered by his or her
50 testimony.
51

1 ii. A statement prepared by the proposed expert which
2 addresses the requirements of the Establishment of the
3 Board subsection of this Special Provision, item 2.

4
5 iii. A statement prepared by the proposed expert which
6 identifies the experience and training which qualifies
7 them as an expert.

8
9 b. Upon receipt of the disclosure, the other party shall have the
10 opportunity to secure the services of an outside expert to
11 address or respond to those issues that may be raised by the
12 other party's outside expert. The notification and disclosure
13 requirement shall be the same as that specified elsewhere in
14 this section, except the time requirement is 21 calendar days.

15
16 2. By the Board:

17
18 a. When requested by the Board and subject to approval of the
19 parties, outside experts may be needed to assist the Board. In
20 such cases, the outside expert shall in no way be deemed
21 authorized to usurp the Board's authority to issue the Board
22 recommendations. Such authority shall remain vested solely in
23 the Board.

24
25 b. Prior to arranging for outside experts, the Board shall obtain
26 prior approval from the Contracting Agency and the Contractor
27 by providing:

28
29 i. A statement explaining why the expert assistance is
30 needed.

31
32 ii. An estimate of the cost of the expert assistance.

33 iii. The expert's name and a general statement of the area
34 of expertise they will provide.

35
36 iv. A statement prepared by the proposed expert which
37 addresses the requirements of the Establishment of the
38 Board subsection of this Special Provision, item 2.

39
40 v. A statement prepared by the proposed expert which
41 identifies the experience and training which qualifies
42 them as an expert.

43
44 vi. A confidentiality statement, consistent with the
45 confidentiality obligations of the Board described in the
46 Three Party Agreement, executed by the proposed
47 expert.

48
49 **Disputes Review Board Report**

50 The Board's recommendations shall be formalized in a written report
51 signed by all Board members. The recommendations shall be based on

the Contract Provisions and the facts and circumstances involved in the dispute. The report should include a description of the dispute, statements of each party's position, findings as to the facts of the dispute, discussion and rationale for the recommendation(s), and the recommendation(s). The report shall be submitted concurrently to the parties, as soon as possible after completion of the hearing as agreed by all parties.

Either party may request clarification of a report within 14 calendar days following receipt of the report. Within a reasonable period of time, the Board shall provide written clarification to both parties. Requests for clarification shall be submitted in writing simultaneously to the Board and the other party.

Either party may request reconsideration of a report, provided:

1. The request is made within 14 calendar days following receipt of the report, and
2. New information is obtained or developed that was not known at the time of the hearing or, in the party's opinion, the Board misunderstood or failed to consider pertinent facts of the dispute.

Requests for reconsideration shall be submitted in writing simultaneously to the Board and the other party. The Board shall give the party not requesting reconsideration the option of submitting a rebuttal to any information that is the basis of the request for reconsideration. The Board shall provide a written response to the request for reconsideration.

Acceptance of Disputes Review Board Recommendations

Within 30 calendar days of receiving the Board's report, or within 14 calendar days of receiving the Board's written clarification and/or reconsideration, both the Contracting Agency and the Contractor shall respond to the other in writing signifying that the dispute is either resolved or remains unresolved. Although both parties should place weight upon the Board recommendations, the recommendations are not binding.

If the Board's assistance does not lead to resolution of the dispute, the Contractor must file a claim according to Section 1-09.11(2) before seeking any form of judicial relief.

In the event the Board's recommendations do not lead to resolution of the dispute, the Board's recommendation consisting solely of the Board's written report and any written minority reports, along with the Board's written clarifications and written responses to requests for reconsideration, if any, will be admissible in any subsequent dispute resolution proceedings including, but not limited to litigation/arbitration. The aforementioned list of documentation shall be considered all inclusive.

1 **Payment for the Disputes Review Board**

2 The Contracting Agency and Contractor shall share equally in the cost of the
3 Board's services and all operating expenses of the Board. The Board members'
4 compensation shall be in accordance with the Three Party Agreement. After the
5 Contractor and Contracting Agency review invoices from the Board and other
6 operating expenses of the Board, the Contractor shall make full payment for all
7 Board members and Board operating expenses.

8
9 The Contracting Agency will reimburse the Contractor for fifty percent of such
10 payments, under the pay item "Disputes Review Board".

11 The Contractor and the Contracting Agency shall equally bear the cost of the
12 services of the outside expert hired to advise the Board. Outside experts hired to
13 advise the Board shall Contract directly with the Contractor after concurrence
14 from the Board and approval from the Contracting Agency. Invoices for these
15 services shall be submitted by the expert to both the Contractor and Contracting
16 Agency for approval by both parties. The Contractor shall pay approved invoices
17 in full, and the Contracting Agency will reimburse the Contractor for fifty percent
18 of such payments, under the Bid item "Disputes Review Board".

19
20 The cost for securing outside expert services for the Contracting Agency or the
21 Contractor shall be borne by the party securing such services.

22 The Contracting Agency will provide administrative services, such as conference
23 facilities and copying services, to the Board and the Contracting Agency will bear
24 the costs for these services.

25
26 **Indemnification of Disputes Review Board Members**

27 The Contracting Agency and Contractor shall indemnify and hold harmless the
28 Board members from and against all claims, damages, losses and expenses,
29 including but not limited to attorney's fees arising out of and resulting from the
30 actions and recommendations of the Board.

31
32 **1-09.13(3)A Administration of Arbitration**
33 **(November 30, 2018 APWA GSP)**

34
35 Revise the third paragraph to read:

36
37 The Contracting Agency and the Contractor mutually agree to be bound by the
38 decision of the arbitrator, and judgment upon the award rendered by the arbitrator
39 may be entered in the Superior Court of the county in which the Contracting
40 Agency's headquarters is located, provided that where claims subject to arbitration
41 are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of
42 the Superior Court. The decision of the arbitrator and the specific basis for the
43 decision shall be in writing. The arbitrator shall use the Contract as a basis for
44 decisions.

45
46
47 **END OF SECTION**
48

1 **1-10 TEMPORARY TRAFFIC CONTROL**

2
3 **Traffic Control Management**

4 **1-10.2(1) General**

5 **(January 3, 2017)**

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

7
8 Only training with WSDOT TCS card and WSDOT training curriculum is recognized in
9 the State of Washington. The Traffic Control Supervisor shall be certified by one of the
10 following:

11
12 The Northwest Laborers-Employers Training Trust
13 27055 Ohio Ave.
14 Kingston, WA 98346
15 (360) 297-3035

16
17 Evergreen Safety Council
18 12545 135th Ave. NE
19 Kirkland, WA 98034-8709
20 1-800-521-0778

21
22 The American Traffic Safety Services Association
23 15 Riverside Parkway, Suite 100
24 Fredericksburg, Virginia 22406-1022
25 Training Dept. Toll Free (877) 642-4637
26 Phone: (540) 368-1701

27
28 **1-10.3(2)F Signalized Intersections**

29 **(*****)**

30
31 When construction operations are such that an existing traffic signal is required to be
32 overridden to allow for traffic control measures, the signal shall be overridden only by a
33 uniformed off-duty police officer. Use of uniformed off-duty police officers shall be used
34 only when approved by the City.

35
36 All off-duty officers shall be commissioned within the State of Washington.

37
38 Tacoma Police Department officers shall be the first choice for traffic control that
39 overrides any traffic signal within the City of Tacoma. The Contractor shall first contact
40 Tacoma Police Department, Special Events Sergeant, to schedule police officers for the
41 specified traffic control duty.

42
43 Tacoma Police Department:
44 Special Events Sergeant
45 (253) 591-5932
46 TacomaPoliceEvents@ci.tacoma.wa.us

47
48 All costs associated with the use of uniformed off-duty police officers shall be included in
49 the proposal item, "Uniformed Police Officer".
50

1 Only in the case that the Tacoma PD cannot supply officers, and only after the Engineer
2 notifies the Contractor in writing, shall the Contractor be authorized to contact other
3 jurisdictions for off-duty police officers. If the Contractor fails to comply with this special
4 provision, the City of Tacoma shall not owe the Contractor any compensation for off-duty
5 officers from other jurisdictions.

6
7 **1-10.4(2) Item Bids with Lump Sum for Incidentals**
8 **(*****)**

9 *This section is supplemented with the following:*

10
11 No unit of measure will apply to the position of traffic control manager and it will be
12 considered incidental to unit contract prices.

13
14 "Uniformed Police Officer for Traffic Control" will be measured by the hour. Portions of
15 an hour will be rounded up to a whole hour.

16
17 **1-10.5(2) Item Bids with Lump Sum for Incidentals**
18 **(*****)**

19 *This section is supplemented with the following:*

20
21 "Uniformed Police Officer for Traffic Control", per hour

22
23 The unit contract price, when applied to the number of units measured for this item in
24 accordance with Section 1-10.4(2), shall be full compensation for all cost incurred by the
25 Contractor in performing the work in accordance with Section 1-10.3(2) F. This bid item
26 shall include compensation for hiring off-duty police officers from other jurisdictions when
27 authorized.

28
29
30 **END OF SECTION**
31
32
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51

1 **2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP**
2 **(March 17, 2016 Tacoma GSP)**
3

4 **2-01.1 Description**

5 *The first sentence of the first paragraph is revised to read:*
6

7 The Contractor shall clear, grub, and cleanup those areas contained within the "Clearing
8 & Grubbing" limits indicated on the Plans.
9

10 *This section is supplemented with the following:*
11

12 Trees, stumps, shrubs, and brush located outside the Clearing & Grubbing limits shall be
13 considered as part of "Clearing and Grubbing" when identified for removal on the Plans.
14

15 **2-01.2 Disposal of Usable Material and Debris**

16 *The second paragraph is revised to read:*
17

18 The Contractor shall dispose of all debris in accordance with Section 2-01.2(2).
19

20 **2-01.3(1) Clearing**

21 *This section is revised to read:*
22

- 23 1. Fell trees only within the area to be cleared.
- 24 2. Close-cut parallel to the slope of the ground all stumps to be left in the
25 cleared area outside the slope stakes.
- 26 3. Close cut all stumps that will be buried by fills 5-feet or less in depth.
- 27 4. Follow these requirements for all stumps that will be buried by fills deeper
28 than 5-feet from the top, side, or end surface of the embankment or any
29 structure and are in a location that will not be terraced as described in
30 Section 2-03.3(14):
 - 31 a. Close-cut stumps under 18-inches in diameter.
 - 32 b. Trim stumps that exceed 18-inches in diameter to no more than 12-
33 inches above original ground level.
- 34 5. Leave standing any trees or native growth indicated by the Engineer.
- 35 6. Trim all trees to be left standing to the height specified by the Engineer, with
36 a minimum height of eight (8) feet above sidewalk and fourteen (14) feet
37 above the roadway surface. Neatly cut all limbs close to the tree trunk.
- 38 7. Thin clumps of native growth as the Engineer may direct.
- 39 8. Protect, by fencing if necessary, all trees or native growth from any damage
40 caused by construction operations.

41 **2-01.3(2) Grubbing**

42 *Item e is revised to read:*
43

44 Upon which embankments will be placed, except stumps may be close-cut or trimmed
45 as allowed in Section 2-01.3(1) item 4.
46

47
48 **END OF SECTION**
49

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS
(December 9, 2005 Tacoma GSP)

2-02.3(3) Removal of Pavement, Sidewalks, and Curbs
This section is deleted.

END OF SECTION

1 **2-03 ROADWAY EXCAVATION AND EMBANKMENT**
2 **(August 14, 2019 Tacoma GSP)**

3
4 **2-03.1 Description**

5 *The last sentence of the first paragraph is deleted.*
6

7 **2-03.3 Construction Requirements**
8

9 *This section is supplemented with the following:*
10

11 Material excavated in areas labeled on the Plans as contaminated shall be hauled to LRI
12 Landfill, located at 30919 Meridian Street East, Graham, WA or an approved licensed
13 solid waste disposal facility.
14

15 **2-03.3(5) Slope Treatment**

16 *This section is deleted.*
17

18 **2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters**

19 *This section is deleted.*
20

21 **2-03.4 Measurement**

22 *The first paragraph is supplemented with:*
23

24 Only one determination of the original ground elevation will be made on this project.
25 Measurement for roadway excavation and embankment will be based on the original
26 ground elevations recorded previous to the award of this contract.
27

28 If discrepancies are discovered in the ground elevations which will materially affect the
29 quantities of earthwork the original computations of earthwork quantities will be adjusted
30 accordingly.
31

32 Earthwork quantities will be computed, either manually or by means of electronic data
33 processing equipment, by use of the average end area method or by the finite element
34 method utilizing digital terrain modeling techniques.
35

36 Copies of the ground cross-section notes will be available for the bidder's inspection
37 before the opening of bids, at the Engineer's office and at the Region office.
38

39 Upon award of the contract, copies of the original ground cross section will be furnished
40 to the successful bidder on request to the Engineer.
41

42 **2-03.5 Payment**

43 *This section is supplemented with the following:*
44

45 "Roadway Excavation of Contaminated Material, Incl. Haul", per cubic yard.
46

47 The unit Contract price per cubic yard for "Roadway Excavation of Contaminated
48 Material, Incl. Haul" shall be full compensation for all costs incurred for excavating,
49 loading, placing, disposal and haul to LRI or other approved facility.
50

51 **END OF SECTION**

1 **2-06 SUBGRADE PREPARATION**
2 **(September 20, 2018 Tacoma GSP)**

3
4 **2-06.3 Construction Requirements**

5 *This section is supplemented with the following:*

6
7 **Subgrade Repair for Subgrade Not Constructed Under Same Contract**

8 Upon removal of pavement, the Contractor and City Inspector shall walk the subgrade
9 surface to determine and delineate any subgrade areas that need to be repaired. Any
10 Subgrade areas that require repair, from the initial walkthrough, shall be determined
11 solely by the City Inspector. Any initial subgrade repairs shall be paid for according to
12 Section 2-06.5(2). Subgrade repair shall be performed in accordance with Section 2-06
13 and immediately after it has been determined and delineated. In order to minimize
14 damage to the subgrade, the Contractor is encouraged to minimize pavement removal
15 during the work.

16
17 **Subgrade Maintenance and Protection**

18 Immediately after the contractor constructs the subgrade or completes initial subgrade
19 repair to the City's satisfaction, the contractor shall maintain and protect the subgrade.
20 Any defects or damage of the subgrade thereafter shall be repaired or replaced
21 according to Section 2-06, at the Contractor's expense before placement of any
22 succeeding courses or pavement. Maintenance and protection of the subgrade shall be
23 the responsibility of the Contractor. The Contractor shall be required to take
24 precautionary measures to prevent damage by heavy loads or equipment, as well as
25 from inclement weather.

26
27 The Contractor and City Inspector should walk the exposed subgrade on a daily basis to
28 determine if there is damage to the subgrade. Any Subgrade areas that require repair
29 according to this section shall be determined solely by the City Inspector.

30
31 **2-06.5 Measurement and Payment**

32 *This section is supplemented with the following:*

33
34 If the contractor fails to protect the subgrade so that additional subgrade repairs are
35 required as determined by the City Inspector, then the city shall not owe payment for
36 these additional subgrade repairs in accordance with Section 2-06.3.

37
38 **2-06.5(2) Subgrade Not Constructed Under Same Contract**

39 *Item 5 under this section is deleted.*

40
41
42 **END OF SECTION**
43
44

2-14 PAVEMENT REMOVAL
(March 17, 2003 Tacoma GSP)

2-14.1 Description

The Work described in this section includes the removal and disposal of pavement surfaces identified on the Plans or as marked in the field.

2-14.2 Pavement Classification

Removal of pavement will be according to type and class based on composition and thickness, as defined below:

Type I	Pavement removal where all or portions of the existing pavement is being removed in conjunction with street construction or any other removal not described below for Type II or Type III.
Type II	Pavement removal required for the placing of utilities at greater and varying depths, such as sewers.
Type III	Pavement removal required for narrow and shallow utility cuts in order to install light cables, conduits and similar shallow utilities.
Class A2	Class A2 pavement removal shall apply to the removal of asphalt concrete, bituminous road surfacing, multiple lift bituminous surface treatments or any combination of these components having an average thickness of two inches or less.
Class A4	Class A4 pavement removal shall apply to the removal of asphalt concrete, bituminous road surfacing, multiple lift bituminous surface treatments or any combination of these components having an average thickness between two inches and four inches.
Class A8	Class A8 pavement removal shall apply to the removal of asphalt concrete, bituminous road surfacing, multiple lift bituminous surface treatments or any combination of these components having an average thickness between four inches and eight inches.
Class C4	Class C4 pavement shall apply to all non-reinforced cement concrete pavements or slabs having an average thickness of four inches or less. After the curbs and pavement have been constructed, the Contractor may be required to remove additional sidewalk necessary to provide proper connections and grades, as determined by the Engineer.
Class C6	Class C6 pavement shall apply to all non-reinforced cement concrete pavements or slabs having an average thickness of between four to six inches. After the curbs and pavement have been constructed, the Contractor may be required to remove additional sidewalk necessary to provide proper connections and grades, as determined by the Engineer.

Class C12 Class C12 pavement removal shall apply to all non-reinforced cement concrete pavements or slabs having an average thickness of between 6 inches and 12 inches.

Class CA Class CA pavement removal shall apply to all pavements that have a wearing surface of asphalt concrete upon a cement concrete pavement or, cement concrete base, and for which the total combined thickness of the pavement averages between six inches and twelve inches.

Class H Class H pavement removal shall apply to early type pavement of a cement concrete base with a brick or cobblestone surface and potentially an additional layer of asphalt concrete pavement for which the total combined thickness of the pavement averages between ten inches and twenty inches.

2-14.3 Construction Requirements

All final meetlines shall be sawcut.

Where monolithic cement concrete pavement and curb are being removed, the curb removal shall be considered as pavement removal, and the measurement for payment will be to the back of the curb.

The removal of existing street improvements shall be conducted in such a manner as not to damage utilities and any portion of the improvement that is to remain in place. Any deviation in this matter will obligate the Contractor, at no expense to the Contracting Agency, to repair, replace, or otherwise make proper restoration to the satisfaction of the Engineer.

In the event a pavement averages more than the maximum thickness specified for its class, an additional payment will be made to cover the extra thickness removed by a proportional conversion into additional square yards.

2-14.4 Measurement

Pavement removal will be measured per square yard.

Type I pavement removal will be measured in its original position through the use of survey techniques.

2-14.5 Payment

Payment will be made in accordance with Section 1-04.1.

"Remove Existing Pavement, Type ____Class____", per square yard

All costs associated with saw cutting meet lines shall be included in the unit Contract price for pavement removal.

END OF SECTION

2-15 CURB AND CURB AND GUTTER REMOVAL

(***)**

2-15.1 Description

The Work described in this section includes the complete removal and disposal of curbs and curb and gutter identified on the Plans or as marked in the field.

2-15.2 Curb Classification

Removal of curb and/or curb and gutter will be based on composition, as defined below:

Integral Curb - Integral curb shall consist of curb that is constructed monolithic with the adjacent cement concrete pavement.

Curb - Curb may consist of cement concrete curb, granite curb, or any other combination of rigid material that extends below the pavement surface elevation.

Extruded/Precast Curb - Extruded or precast curb may consist of asphalt or concrete extruded or precast curb that is installed on a pavement surface.

Curb and Gutter - Curb and gutter may be cement concrete, or a cement concrete curb with a brick gutter on a cement concrete base, or other combination of rigid material.

2-15.3 Construction Requirements

Integral curb removal shall consist of the removal of the curb and the integral base section under the curb. The removal shall be accomplished by sawcutting along the face of the curb.

The removal of the curb and/or curb and gutter shall be conducted in such a manner as not to damage utilities and any portion of the improvement that is to remain in place. Any deviation in this matter will obligate the Contractor, at no expense to the Contracting Agency, to repair, replace, or otherwise make proper restoration to the satisfaction of the Engineer.

2-15.4 Measurement

Curb and curb and gutter removal will be measured per linear foot.

2-15.5 Payment

Payment will be made in accordance with Section 1-04.1.

"Remove Curb and Gutter", per linear foot

The unit Contract price for "Remove Curb" includes all payment labor, materials and equipment for removing all types and classifications of curb as defined in this section including but not limited to curb, curb and gutter, integral curb, and extruded curb. No extra payment shall be made for varying types or classes of curbs.

END OF SECTION

1 **2-16 REMOVAL OF CATCH BASINS, MANHOLES, CURB INLETS, ETC.**
2 **(March 17, 2003 Tacoma GSP)**

3
4 **2-16.1 Description**

5
6 The Work described in this section includes the complete removal and disposal of catch
7 basins, manholes, and curb inlets as identified on the Plans.

8
9 **2-16.2 Vacant**

10
11 **2-16.3 Construction Requirements**

12
13 Where the structures are removed, the excavation shall be backfilled with native material
14 if deemed suitable by the Engineer or imported backfill material.

15
16 Material determined by the Engineer to be unsuitable at the time of excavation shall be
17 removed and replaced with imported backfill material. Payment will be made at the unit
18 contract price of the item in the proposal, or as extra work under Section 1-04.4 if not
19 included as an item in the proposal.

20
21 All pipe openings shall be plugged in accordance with 7-08.3(4).

22
23 The removal of the structures shall be conducted in such a manner as not to damage
24 utilities and any portion of the improvement that is to remain in place. Any deviation in
25 this matter will obligate the Contractor, at no expense to the Contracting Agency, to
26 repair, replace, or otherwise make proper restoration to the satisfaction of the Engineer.

27
28 **2-16.4 Measurement**

29
30 The removal of catch basins, manholes, and curb inlets will be measured per each.

31
32 **2-16.5 Payment**

33
34 Payment will be made in accordance with Section 1-04.1.

35
36 "Remove Catch Basin", per each

37
38 "Remove Manhole", per each

39
40 "Remove Curb Inlet", per each

41
42 All costs associated with the placement and compaction of the backfill material shall be
43 included in the unit Contract price for removal.

44
45
46 **END OF SECTION**
47

1 **2-17 CONTROL AND MANAGEMENT OF CONTAMINATED MATERIALS IN**
2 **TACOMA SMELTER PLUME**
3 **(June 3, 2014 Tacoma GSP)**
4

5 **2-17.1 Description**
6

7 **2-17.1(1) General**
8

9 Contaminated soils with concentrations of arsenic (As) and lead (Pb) exceeding the
10 levels listed in the Washington State Models Toxics Control Act (MTCA) cleanup
11 regulations (Chapter 173-340 WAC) have been encountered on the project site. The
12 Contractor shall operate within and meet all applicable laws and regulations associated
13 with working with regulated materials encountered during excavation activities. The
14 Contractor is notified of the existence of cleanup standards for site soils developed
15 according to the MTCA.
16

17 The Contractor is advised to review the applicable Washington Administrative Codes
18 (WAC), Washington Department of Ecology (DOE), Washington State Department of
19 Health (DOH), MTCA and Asarco Reports.
20

21 Websites for further information:

22
23 WAC: <http://apps.leg.wa.gov/wac/> (Title 173-303 & 173-340)
24

25 DOH: <http://www.doh.wa.gov/>
26

27 DOE: <http://www.ecy.wa.gov/>
28

29 MTCA: <http://www.ecy.wa.gov/pubs/9406.pdf>
30

31 Public Health Seattle and King County:
32 <http://www.kingcounty.gov/healthservices/health/ehs/toxic/ArsenicLead.aspx>
33

34 Pierce County Health Department:
35 <http://www.tpchd.org/index.php>
36

37 Environmental Protection Agency, Asarco Smelter Cleanup:
38 <http://www.epa.gov/region10>
39

40 Agency for Toxics Substances and Disease Registry, Facts on Arsenic:
41 <http://www.atsdr.cdc.gov/tfacts2.html>
42

43 Centers for Disease Control, Facts on Lead:
44 <http://www.cdc.gov/nceh/lead/publications/1997/factlead.htm>
45

46 Department of Health, Drinking Water:
47 <http://www.doh.wa.gov/ehp/dw>
48

49 **2-17.1(2) Site Description**
50

2-17.1(2)A Historical Land Use

The Tacoma smelter opened in 1890 as a lead smelter. Asarco purchased it in 1905 and converted it to copper smelting in 1912. The smelter operated for nearly 100 years, closing in 1986. The smelter specialized in processing ores with high arsenic concentrations.

The smelter used a 562 foot smokestack. The chemicals in the smoke from the stack were carried out by the wind, and settled to the ground over a 1,000 square mile area. Much of the soil in King and Pierce Counties has been contaminated with arsenic and lead. Arsenic is a human carcinogen, and lead can cause development disabilities. The Department of Ecology and state and local health departments are concerned about potential health risks to people exposed to the contamination.

2-17.1(2)B Soil Descriptions and Soil Quality

At all Work locations, the Contractor shall sample and test the soil for Arsenic and Lead content when required according to the City of Tacoma Soil Management Plan or as directed by the Engineer.

2-17.1(3) Soil Management

(*****)

Contaminated soils resulting from the ASARCO Plume fall out is possible within the project limits. The Contractor shall test soil samples of excavation material that is to be hauled and disposed of. The Contractor shall load any contaminated export material directly into trucks and dispose of the contaminated materials at LRI Landfill, located at 30919 Meridian Street East, Graham, WA or a licensed solid waste disposal facility. A Waste Disposal Authorization (WDA) for LRI shall be supplied to the Contractor at the beginning of the Construction Activities. The Contractor shall follow all provisions of the WDA.

2-17.1(4) Submittals

This paragraph lists submittals required for this project area. Other submittals will be as required.

1. **Health and Safety Plan** – Section 2-17.2(2).
2. **Resume of Site Health and Safety Officer** – Section 2-17.2(3).
3. **Manifest Package and Supporting Analytical Data** – Section 2-17.3(2)D
4. **Soil Management Plan** – Section 2-17.2(5)
5. **Contractor and/or Subcontractor Environmental Qualifications**

2-17.2 Health and Safety

The Contractor shall be responsible for the health and safety conditions at the job site related to the regulated substances. This includes the health and safety of workers and public during work and non-working hours. The Contractor shall inform all workers and visitors of the potential for exposure to regulated materials. The Contractor shall follow regulatory procedures to prevent the release of contamination.

1 Contaminated material excavated during the project is considered solid waste. The
2 Contractor's Health and Safety Plan shall specify training requirements for the site,
3 including 24, 48, or 80 hour training OSHA training as referenced in WAC 296 843
4 20010, if applicable. The Contractor shall be responsible for all training costs.

5 6 **2-17.2(1) Health and Safety Laws and Regulations**

7
8 For all work conducted within the limits of this project site, the Contractor shall ensure
9 compliance with all applicable health and safety provisions for hazardous waste
10 operations, including requirements of the Federal Occupation Safety and Health Act of
11 1970 (OSHA) and all amendments, including 29 CFR Part 1910, WAC 296-843, as well
12 as any other applicable regulations. Failure to be thoroughly familiar with applicable
13 health and safety provisions shall not relieve the Contractor of the responsibility to fully
14 comply with all laws and regulations.

15 16 **2-17.2(2) Site Health and Safety Plan**

17
18 The Site Health and Safety Plan shall be prepared in accordance with WAC 173-340-
19 810. The Contractor shall develop a written Site Health and Safety Plan to be used for
20 the duration of the project. The plan shall incorporate all required city, county, state, and
21 federal health and safety provisions. The plan shall be submitted to the City within ten
22 (10) working days after execution of the contract. The Contractor is advised that the City
23 will review the Site Health and Safety Plan, but the Contractor is solely responsible for
24 ensuring that the Site Health and Safety Plan is implemented in accordance with the
25 regulatory requirements. At least one copy of the plan shall be maintained at the work
26 site. A properly qualified individual shall be assigned to serve as the Site Health and
27 Safety Officer, authorized to supervise and enforce compliance with the plan. The
28 Health and Safety Officer shall be responsible for monitoring the work area for health
29 hazards including sampling of the air, soil, and water as required to ensure worker
30 safety.

31
32 All provisions of the Site Health and Safety Plan shall apply to the Contractor,
33 Subcontractors, and all other visitors to the site. Approved Subcontractors may elect to
34 develop a site-specific plan, but this shall not relieve the Contractor of the requirements
35 and responsibilities described herein. The terms and provisions of a Subcontractor's
36 site-specific plan shall meet or exceed the Contractor's plan and shall be submitted to
37 the City or its agents prior to the Subcontractor commencing work.

38
39 The Site Health and Safety Plan shall comply with all applicable regulations and shall
40 include, but not be limited to:

- 41
42 1. A list of chemical hazards and physical hazards, allowable OSHA
43 exposure levels, threshold limit values, and all other regulatory exposure
44 levels.
- 45
46 2. If 24, 48, or 80 hour training is required by the Site Health and Safety
47 Plan, then the Contractor shall provide a list of all persons, by work
48 category/type, who will be trained. Photocopies of the employee's
49 training certificates shall be submitted to the Contracting Agency.

- 1 3. Engineering controls, work practices, personnel and equipment
2 decontamination procedures, and types of personal protective equipment
3 to be used.
4
- 5 4. A list of safety and monitoring equipment to be kept at the job site and its
6 storage location. A record of monitoring equipment calibration shall be
7 maintained.
8
- 9 5. A list of required health and safety information to be documented.
10
- 11 6. An emergency evacuation plan for immediate removal to the nearest
12 hospital or doctor's care for any person who may be injured on the job
13 site. It shall include evacuation routes to medical treatment and
14 emergency telephone numbers for hospitals, ambulances, police and fire
15 departments, poison control, and the City of Tacoma.
16

17 In the event the Health and Safety Plan is determined by a regulatory agency to be
18 inadequate to protect the employees and the public, then the Plan shall be modified by
19 the Contractor at the Contractor's sole expense.
20

21 **2-17.2(3) Site Health and Safety Officer**

22

23 The Contractor shall appoint a Site Health and Safety Officer for the project. The Health
24 and Safety Officer must meet the requirements contained in 29 CFR Part 1910 and
25 Chapter 296-62 WAC and who is qualified by experience and training in hazardous
26 waste operations in accordance with other applicable laws, regulations, and
27 requirements of this Section. The Site Health and Safety Officer shall be qualified and
28 authorized to monitor, supervise, and enforce safety compliance with the Site Health and
29 Safety Plan. A resume of the Site Health and Safety Officer's qualifications shall be
30 submitted to the City for review within five (5) working days of receiving the Notice to
31 Proceed. The Site Health and Safety Officer shall be on site at all times when work
32 operations involve excavation and trenching or at other times when the potential for
33 encountering hazardous substances exists as identified as contaminated soil in the
34 Plans and Section 2-17.
35

36 The Contractor shall be solely responsible for identification and monitoring of air (gases),
37 soil, dust, and groundwater with chemical constituents that could pose health and safety
38 concerns to site personnel. The Contractor shall provide for the protection of safety and
39 health of all workers and other authorized persons, including the City and its agents at
40 the jobsite from exposure to potentially hazardous substances.
41

42 The Contractor shall be solely responsible for ensuring that all necessary monitoring
43 equipment, protective clothing, and other supplies and equipment up to the appropriate
44 level of protection as defined by WISHA, OSHA, and other applicable guidelines are
45 available to implement the plan. No work shall take place in areas where hazardous
46 substances may potentially be present unless the Site Health and Safety Officer is
47 present and monitoring site conditions.
48

49 The Contractor, through the Site Health and Safety Officer, shall not permit any
50 employee, in the performance of the Contract, to work under conditions which are
51 hazardous to the employee. Should violations of the safety and health requirements be

called to the Site Health and Safety Officer's attention by the City, its agent, or any authorized representative of a regulator agency, then the Contractor shall immediately correct the identified conditions.

2-17.2(4) Contractor Safety Equipment

The Contractor shall maintain, at the job site, first-aid and safety equipment applicable to the work as prescribed by the governing safety authorities. All required safety equipment shall be kept in fully operational condition for the duration of the contract.

All personnel shall be trained in the use of the appropriate safety equipment that would be utilized during the course of their work. The Site Health and Safety Officer shall ascertain that the safety equipment is being used when appropriate and/or required.

2-17.2(5) Soil Management Plan

The Contractor shall submit a detailed plan for management of all excavated soils. The plan shall include excavation, loading, and transporting procedures, dust control procedures, and disposal of contaminated soils.

2-17.3 Construction Requirements

(*****)

Any excavation that is intended for haul and disposal, the Contractor shall test the soil for Arsenic and Lead content according to the City of Tacoma Soil Management Plan or as directed by the Engineer. The Contractor shall fully develop and implement a program in accordance with the Health and Safety Plan to ensure worker health and safety and to minimize disruption to construction due to site contamination.

2-17.3(1) Notification

The Contractor shall notify the Contracting Agency, in writing, at least ten (10) working days prior to the date that excavation operations are to begin and identify the limits of that excavation. Excavation and sampling shall not take place without a designated representative from the Contracting Agency on site.

2-17.3(2) Transportation

2-17.3(2)A General

The Contractor shall provide all equipment, personnel, and materials necessary to load and transport waste materials, including contaminated soils and debris, for off-site treatment and/or disposal in accordance with federal, state, and local regulations.

2-17.3(2)B Control of Waste Material

Vehicles used by the Contractor to transport waste materials shall be properly designed, equipped, and maintained to prevent the loss of materials during transport. The following requirements shall be met for all vehicles transporting waste materials from the site:

1. No soil from the site shall adhere to the outside of the surface of the vehicle (including tires and undercarriage).
2. No liquids shall be leaking or dripping from the vehicles.
3. Any and all waste materials shall be covered with tarpaulin or otherwise completely enclosed to prevent loss of materials from the vehicle during transport.

If leaking or dripping from transport vehicles occurs, the Contracting Agency may direct the Contractor to use liners or other means to prevent dripping and leaking. The Contractor shall implement such measures, as directed by the Contracting Agency, at the Contractor's sole expense.

2-17.3(2)C Street Sweeping

The Contractor shall sweep those streets within the project when truck traffic carries soil from the site into the street. Street sweeping shall be conducted in such a way as to not generate visible dust. Material collected from street sweeping shall be disposed of in a legal manner at an off-site location and be included in the street cleaning bid item.

2-17.3(2)D Transportation and Shipping Requirements

The Contractor shall be responsible for obtaining permits and authorizations necessary to use the selected haul routes. The Contractor shall use United States DOT regulations, 49 CFR 172.101 to identify proper shipping names for each hazardous material (including Dangerous Waste) to be shipped off site. Proper shipping names shall be submitted to the Contracting Agency in the form of draft shipping documents for review and comment.

The Contractor shall ensure that each shipment of material sent off site is accompanied by the appropriate shipping documents. The Contractor shall prepare a bill of lading for each shipment of regulated material which does not require a hazardous waste manifest. The bill of lading shall satisfy the requirements of United States DOT regulations, 49 CFR 172 Subpart C and any applicable state or local law or regulation, and shall be submitted to the Contracting Agency for review. The Contractor shall be responsible for completing the shipping documents and obtaining the signatures of the Contracting Agency as needed.

2-17.3(3) Off-site Treatment and Disposal

The Contractor shall provide documentation of legal disposition including trip tickets and Certificates of Disposal.

2-17.4 Measurement

No specific measurement shall apply to the lump sum item of Site Health and Safety Plan, Site Health and Safety Officer, and Soil Management Plan.

1 **2-17.5 Payment**

2
3 Payment will be made in accordance with Section 1-04.1 for each of the following Bid
4 Items that are included in the Proposal:

5
6 “Site Health and Safety Plan”, per lump sum.

7
8 “Site Health and Safety Officer”, per lump sum.

9
10 “Soil Management Plan”, per lump sum.

11
12 Health and safety training, safety equipment and practices, dust control, efficiency
13 losses to other Contract items caused by handling contaminated materials, and other
14 Work required to comply with this specification not specifically identified in a Bid item
15 shall be considered incidental to the work to comply with this Section and all costs
16 therefore shall be included in the Contract prices for the payment items involved and
17 included in the Proposal.

18
19
20 **END OF SECTION**
21
22

1 **3-04 ACCEPTANCE OF AGGREGATE**
2 **(April 1, 2012 Tacoma GSP)**
3

4 **3-04.1 Description**

5 *The first and third paragraphs are deleted.*

6
7 *The fourth paragraph is revised to read:*

8
9 Nonstatistical evaluation will be used for the acceptance of aggregate materials.
10

11 **3-04.3(1) General**

12 *The first sentence is revised to read:*

13
14 For the purpose of acceptance sampling and testing, all test results obtained for a
15 material type will be evaluated collectively.
16

17 **3-04.3(4) Testing Results**

18 *This section is replaced with the following:*

19
20 The results of all acceptance testing will be provided by the City's Project Engineer
21 within 3 working day of testing.
22

23 **3-04.3(6) Statistical Evaluation**

24 *This section is deleted:*
25
26
27

28 **END OF SECTION**
29
30

1 **5-02 BITUMINOUS SURFACE TREATMENT**
2 **(March 3, 2008 Tacoma GSP)**
3

4 **5-02.3(1) Equipment**

5 *The third sentence of the third paragraph is revised to read:*
6

7 Each roller shall not weigh less than 8-tons and shall be capable of providing constant
8 contact pressure.
9

10
11 **END OF SECTION**
12
13

5-04 HOT MIX ASPHALT

(***)**

5-04.1 Description

This section is revised according to the following overriding provisions:

Nonstatistical or test point evaluation shall be the method for HMA compaction acceptance for all HMA pavement, except where visual or commercial evaluation is specified. Visual evaluation shall be considered synonymous with commercial evaluation. The Contracting Agency will not be required to perform any acceptance by statistical evaluation.

All references to “statistical” are revised to read “nonstatistical”, and “nonstatistical” evaluation shall be considered synonymous with “test point” evaluation. Thus, all Specifications for test procedures, methods, construction requirements, and requirements for evaluation and acceptance shall apply to the Work with the following exceptions:

- The Contracting Agency shall not be required to perform statistical analysis of any acceptance test results.
- Quantities for sublots and lots shall be as determined by the Engineer. If test results are found not to be within specification requirements, additional testing as needed to determine a CPF may be performed.
- The Contracting Agency shall not be required to make price adjustments based on pay factors and composite pay factors.

This section is supplemented with the following:

All asphalt paving shall be in accordance with the City of Tacoma Right-of-Way Restoration Policy found at www.govME.org.

5-04.2 Materials

5-04.2(1) How to Get an HMA Mix Design on the QPL (April 1, 2018 Tacoma GSP)

For Subsection 5-04.2(1) the term “Contracting Agency” is revised to read “WSDOT”.

5-04.2(2) Mix Design – Obtaining Project Approval (April 1, 2018 Tacoma GSP)

This section is revised to read:

The Contactor shall submit each HMA mix design to the Contracting Agency on WSDOT Form 350-042. The Contractor shall provide a mix design based upon 3 million ESAL's.

No paving shall begin prior to the HMA mix design acceptance by the Engineer for the Job Mix Formula (JMF) that will be used for the same paving. The Contracting Agency will evaluate HMA mix design submittals according to Visual Evaluation per Table 1. 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 Project Engineer and must be made in accordance with Section 9-03.8(7).

Mix designs for HMA shall 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) and 9-03.8(6). The Contractor shall determine anti-strip additive requirements for the HMA and submit laboratory test data for anti-stripping and rutting in accordance with the following options:

- Hamburg Wheel track Test and Section 9-03.8(2), or
- Tensile Strength Ratio (TSR) Test per AASHTO T 283, or
- Previous WSDOT Lab mix design verification test data and stripping evaluation, per the Engineer's discretion and as stated below.

With the HMA mix design submittal 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.

At the discretion of the Engineer, the Contracting Agency 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.

For the use of Commercial HMA, the Contractor shall select a class of HMA and design level of Equivalent Single Axle Loads (ESAL's) appropriate for the required use. Commercial HMA can be accepted by a Contractor certificate of compliance letter stating the material meets the HMA requirements defined in the Contract.

5-04.2(2)B Using HMA Additives (April 1, 2018 Tacoma GSP)

This section is revised to read:

The Contractor may, at the Contractor's discretion, 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 in the production of High RAP/Any RAS mixtures.
- Before using additives, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed additive and process.

1 **5-04.3 Construction Requirements**

2
3 **5-04.3(2) Paving Under Traffic**
4 **(April 1, 2018 Tacoma GSP)**

5 *The second paragraph is supplemented with the following:*

6
7 No traffic shall be allowed on any newly placed pavement without the approval of the
8 Engineer.

9
10 **5-04.3(3)C Pavers**
11 **(April 1, 2018 Tacoma GSP)**

12 *The second paragraph is deleted.*

13
14 **5-04.3(3)D Material Transfer Device or Material Transfer Vehicle**
15 **(April 1, 2018 Tacoma GSP)**

16 *The first paragraph is revised to read:*

17
18 A Material Transfer Device/Vehicle (MTD/V) shall not be used unless specific paving
19 areas are specified below. A MTD/V shall only be used according to this special
20 provision for the following paving areas:

21
22 None

23
24 **5-04.3(4)C Pavement Repair**
25 **(April 1, 2018 Tacoma GSP)**

26 *This section is revised to read:*

27
28 Pavement repair shall be in accordance with the City of Tacoma Right-of-Way
29 Restoration Policy found at:

30
31 https://www.cityoftacoma.org/government/city_departments/public_works/right-of-way

32
33 Pavement repair consists of asphalt concrete saw-cutting, removing asphalt concrete
34 pavement, removing crushed surfacing and subgrade, and installing Construction
35 Geotextile for Separation, placing crushed surfacing top course over the Construction
36 Geotextile, and HMA in accordance with the Contract or as directed by the Engineer.

37
38 Pavement repair excavation may also be performed by the use of a milling machine of a
39 type that has operated successfully on work comparable with that to be done under the
40 Contract and shall be approved by the Engineer prior to use. If a milling machine is
41 used for excavation, the excavation shall be as directed by the Engineer.

42
43 In all types of excavation, after the removal of the asphalt, the base material will be
44 evaluated by the Engineer to determine if it is suitable. If the base is determined not to
45 be suitable, the Contractor shall remove the base material and restore the sub-grade in
46 accordance with Section 2-06 and the Plans, regardless of the method used for
47 excavation.

48
49 Estimated plan quantities for pavement repair are approximate and are provided for
50 bidding purposes only. The actual dimensions to be used will be verified by the
51 Engineer at the time of construction. Contrary to Section 1-04.6, no changes to the unit

prices bid for the various items will be permitted due to any increase or decrease in the amount of pavement repair.

5-04.3(6) Mixing

(Aug 1, 2020 Tacoma GSP)

The first paragraph is revised to read:

The asphalt supplier shall add any recycling agent and anti-stripping additive to the liquid asphalt binder prior to shipment to the asphalt mixing plant, when the mix design includes these additives. The Contractor shall submit the anti-stripping additive amount and the manufacturer's certification, together with the HMA mix design submittal in accordance with Section 5-04.2. Paving shall not begin before the anti-stripping additive submittal is accepted by the Engineer.

5-04.3(9) HMA Mixture Acceptance

(April 1, 2018 Tacoma GSP)

The first paragraph is revised to read:

The Contracting Agency will evaluate the HMA mixture by nonstatistical or visual evaluation as determined from the criteria in Table 7 or as determined by the Engineer.

5-04.3(9)A Test Sections

(April 1, 2018 Tacoma GSP)

The first paragraph is revised to read:

At the start of paving, if requested by the Contractor, a compaction test section shall be constructed as directed by the Engineer to determine the compactibility of the mix design. Compactibility shall be based on the ability of the mix to attain the specified minimum density (91 percent of the maximum density determined by WSDOT SOP 729, and FOP for AASHTO T 209). Note that for PHMA the compaction requirements are different and are in accordance with Special Provision Section 5-04.3(10)A.

Following determination of compactibility, the Contractor is responsible for the control of the compaction effort. If the Contractor does not request a test section, the mix will be considered compactible. See also Section 5-04.3(10)C2.

The Contractor shall also construct a test section when requested by the Engineer. Test sections that are in complete compliance with the requirements of Section 5-04 can be incorporated into the Work, and shall be included in the quantities for related Bid Items; otherwise, the Contractor shall remove the defective pavement in failed test sections as determined by the Engineer and at no cost to the Contracting Agency. The Contracting Agency will only pay for HMA pavement that is accepted and incorporated into the project at the discretion of the Engineer. See also Section 5-04.3(10)C2.

The second paragraph is revised to read:

The purpose of a test section is to determine whether or not the Contractor's mix design and production processes will produce HMA meeting the Contract requirements related to mixture. Construct HMA mixture test sections at the beginning of paving, using at least 100 tons and a maximum of 800 tons or as specified by the Engineer. Each test section shall be constructed in one continuous operation.

**5-04.3(9)B Mixture Acceptance – Statistical Evaluation
(April 1, 2018 Tacoma GSP)**

The title of this Section is revised to read:

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

**5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots
(April 1, 2018 Tacoma GSP)**

The title of this Section is revised to read:

**5-04.3(9)B1 Mixture Nonstatistical Evaluation – Lots and Sublots
(April 1, 2018 Tacoma GSP)**

This Section is revised to read:

For HMA in a structural application, sampling and testing for total project quantities 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:

- i. If test results are found to be within specification requirements, additional testing will be at the engineer's discretion.
- ii. If test results are found not to be within specification requirements, additional testing as needed to determine a CPF shall be performed.
- iii. For a mixture lot in progress with a mixture CPF less than 0.75, a new mixture lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.
- iv. If, before completing a mixture lot, the Contractor requests a change to the JMF which is approved by the Engineer, the mixture produced in that lot after the approved change will be evaluated on the basis of the changed JMF, and the mixture produced in that lot before the approved change will be evaluated on the basis of the unchanged JMF; however, the mixture before and after the change will be evaluated in the same lot. Acceptance of subsequent mixture lots will be evaluated on the basis of the changed JMF.

**5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results
(Aug 1, 2020 Tacoma GSP)**

This section is revised to read:

The Contracting Agency will endeavor to provide written notification (via email to the Contractor's designee) of acceptance test results within 24 hours of the sample being made available to the Contracting Agency. However, the Contractor agrees:

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

3. The Contractor shall make no claim for untimely notification by the Contracting Agency of the Contracting Agency's test results (or statistical analysis thereof).

**5-04.3(10)B HMA Compaction - Cyclic Density
(April 1, 2018 Tacoma GSP)**

This section is deleted.

**5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots
(April 1, 2018 Tacoma GSP)**

This section is deleted.

**5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing
(April 1, 2018 Tacoma GSP)**

The title of this section is revised to read:

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

The second paragraph is revised to read:

Compaction tests will be performed at a minimum of 5 various locations, as determined by the Engineer, for each 400 tons placed. The locations will be determined by the stratified random sampling procedure conforming to WSDOT Test Method T 716. For an area in progress with a CPF less than 0.75, a new compaction sequence will begin at the Contractor's request after the Project Engineer is satisfied that material conforming to the Specifications can be produced. The Compaction Test Procedures will be provided to the Contractor by the Contracting Agency at the Pre-Construction Conference or a Pre-Paving Meeting, prior to the placement of HMA material on site.

This Section is supplemented with the following:

Cores may be used as an addition to the nuclear density gauge tests. When cores are taken by the Engineer at the request of the Contractor, the request shall be made by noon of the first working day following placement of the mix. The Engineer shall be reimbursed for the coring expenses.

The Engineer will inform the Contractor of field compaction test results as work is being performed. Formal Test Report(s) will be provided to the Contractor within 3 Working Days.

HMA for preleveling shall be compacted to the satisfaction of the Engineer.

**5-04.4 Measurement
(April 1, 2018 Tacoma GSP)**

The first paragraph is revised to read:

HMA CI. __ PG __, PHMA, HMA for __ CI. __ 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, blending sand, mineral filler, anti-stripping additive, or any other component of the mixture; and the measurement shall include asphalt wedge curbs, and thickened edges in accordance with the Plans or as directed by the Engineer.

1 If the Contractor elects to remove and replace mix as allowed in Section 5-04.3(11), the
2 material removed will not be measured.

3
4 *The second paragraph is revised to read:*

5
6 No specific unit of measure will apply to roadway cores, which shall be included in the
7 measurements for the HMA items that are included in the Proposal.

8
9 *This section is supplemented with the following:*

10
11 HMA for Approach Cl. ___ PG 58H-22 shall be measured per square yard of finished
12 driveway and approach.

13
14 No specific unit of measure will apply to Anti-Stripping Additive, which shall be included
15 in the measurements for the HMA items that are included in the Proposal.

16
17 **5-04.5 Payment**

18 **(April 1, 2018 Tacoma GSP)**

19 *Pay items for “Job Mix Compliance Price Adjustment” and “Compaction Price*
20 *Adjustment” are deleted.*

21
22 *The following pay items for HMA are revised to read:*

23
24 “HMA Cl. ___ PG ___”, per ton.

25
26 The unit Contract price per ton for “HMA Cl. ___ PG ___” shall be full payment for all
27 costs incurred to carry out the requirements of Section 5-04, including coring and testing,
28 prelevelling and shall include anti-stripping additive, asphalt wedge curbs, thickened
29 edges, curb drains, and connection to existing drains in accordance with the Contract.
30 Any costs that are already included in other Bid items in the Proposal shall not be
31 included in the unit Contract prices per ton for these HMA Bid items. This includes
32 materials required to complete the patching of the street, including joints, where
33 required, and removal of temporary base. This payment also includes all costs incurred
34 with the placement, maintenance, and removal of temporary pavement markings to
35 restore existing channelization patterns including lane configurations, stop locations, and
36 crosswalks until permanent pavement markings have been established.

37
38 If the bid item “HMA for Prelevel” is not provided in the Proposal, compensation for all
39 costs incurred to place, grade, shape, and compact the prelevel, as directed by the
40 Engineer and in accordance to the Work described in Section 5-04, shall be included in
41 other Bid Items involved.

42
43
44 **END OF SECTION**
45

1 **5-05 CEMENT CONCRETE PAVEMENT**
2 **(June 16, 2016 Tacoma GSP)**

3
4 **5-05.1 Description**

5 *This section is supplemented with the following:*

6
7 All concrete pavement restoration shall be performed in accordance with the City of
8 Tacoma's Right-of-Way Restoration Policy found at www.govME.org.

9
10 **5-05.3 Construction Requirements**

11
12 **5-05.3(1) Concrete Mix Design for Paving**

13 *The sixth paragraph is supplemented with the following:*

14
15 The submittal for the concrete mix design shall provide the following: the date, the
16 amount of materials (i.e. cement, sand, aggregates, water), the type and amount of each
17 admixture, and the designated 28-day compressive strength specific to the mix design
18 being submitted. The design compressive strength shall be a minimum of 4,000 psi.

19
20 **5-05.3(4)A Acceptance of Portland Cement Concrete Pavement**

21 *This section is supplemented with the following:*

22
23 Acceptance of concrete will be on a non-statistical acceptance only.

24
25 *The first, second, third and fourth paragraphs are deleted.*

26
27 **5-05.3(8) Joints**

28 *The second paragraph is revised to read:*

29
30 The Contractor shall submit a concrete panel jointing plan in accordance with the Plans
31 and these Specifications. When a concrete panel jointing plan is included in the Plans,
32 the Contractor may adopt or submit a revised jointing plan in accordance with Standard
33 Plans and the Specifications at the Contractor's own expense. The Contractor's jointing
34 plan shall be approved in writing by the Engineer before the start of concrete paving.

35
36 When new pavement abuts existing pavement, the locations of the joints in the new
37 pavement shall match with the joints in the existing pavement unless otherwise
38 approved by the Engineer.

39
40 **5-05.3(11) Finishing**

41
42 *The third paragraph is revised to read:*

43
44 In advance of curing operations, the pavement shall receive an initial texturing followed
45 by final finishing. Initial texturing shall be performed with a burlap drag or broom device,
46 creating striations in the same orientation as the final finish. The concrete roadway
47 surface shall be finished with a transverse tining. Where integral concrete curbs are
48 constructed, the roadway surface finish shall end 12 inches from the flowline.

49 *The fourth paragraph is revised to read:*

1 Burlap drags, brooms and tine devices may be installed on self-propelled equipment
2 having external alignment control. When texturing the pavement with burlap, the area of
3 burlap in contact with the pavement shall be maintained constant at all times. Broom
4 and tine devices shall be provided with positive elevation control. Downward pressure
5 on pavement surface shall be maintained at all times during texturing so as to achieve
6 uniform texturing without measurable variations in pavement profile. If self-propelled
7 texturing machines are used, these shall be operated so that travel speed during
8 texturing is maintained constant. Failure of the texturing equipment to perform according
9 to this section shall constitute cause for stopping placement of concrete until the
10 equipment deficiency or malfunction is corrected.

11
12 *The seventh paragraph is revised to read:*

13
14 **Test Panel:**

15 At the start of concrete pavement construction, the Contractor shall first finish a textured
16 concrete test panel and the Engineer shall give approval of the achieved finish according
17 to this section prior to further concrete pavement construction. If the test panel is
18 rejected by the Engineer, the Contractor shall remove and replace the test panel at no
19 additional cost to the Contracting Agency. The Contractor can designate one of the
20 project panels as a test panel or create a sacrificial test panel on site of at least four feet
21 by eight feet.

22
23 Project panels not meeting the characteristics of the test panel shall be removed and
24 replaced at no additional cost to the Contracting Agency.

25
26 *The eighth through tenth paragraphs are deleted.*

27
28 **5-05.3(14) Cold Weather Work**

29 *This section is supplemented with the following:*

30
31 The following additional requirements for placing concrete shall be in effect from
32 November 1 to April 1:

- 33 • Engineer shall be notified at least 24 hours prior to placement of concrete.
- 34 • All concrete placement shall be completed no later than 2:00 p.m. each
35 day.
- 36 • Where forms have been placed and the subgrade has been subjected to
37 frost, no concrete shall be placed until the ground is completely thawed.
38 At that time, the forms shall be adjusted and subgrade repaired as
39 determined by the Engineer.

40
41 **5-05.4 Measurement**

42 *This section is revised to read:*

43
44 Measurement for cement concrete pavement and concrete base pavement shall be by
45 the square yard for the pavement completed and accepted according to Section 5-05
46 and the Plans, including the area underneath curbs. No deduction will be made for
47 castings in pavement.

48
49 Cement Concrete Pavement for Pavement Patches will be measured by the square yard

Epoxy-Coated Tie Bars with Drill Hole that are drilled into existing cement concrete pavement will be measured per each tie bar installed according to the Plans and Section 5-05.

Dowel Bar Retrofit shall be measured per each retrofitted dowel bar installed into an existing concrete pavement edge according to the Plans and Section 5-05.

5-05.5 Payment

This section is revised to read:

Payment will be made in accordance with Section 1-04.1.

“Cement Conc. Pavement, ____-Inch Section”, per square yard.

The unit Contract price per square yard for “Cement Conc. Pavement, ____-Inch Section” shall be full payment for all costs incurred to carry out the requirements of Section 5-05 and the Plans, and shall include furnishing and installing epoxy coated dowel bars and tie bars except as specified for “Dowel Bar Retrofit” and “Epoxy-Coated Tie Bar with Drill Hole” in this section.

Tie bars that are drilled into existing cement concrete pavement that is not constructed under the Contract will be paid for under the item “Epoxy-Coated Tie Bar with Drill Hole” when included in the Proposal.

Dowel bars that are retrofitted into an existing concrete pavement that is not constructed under the Contract will be paid for under the Bid item “Dowel Bar Retrofit” when included in the Proposal.

“Epoxy-Coated Tie Bar with Drill Hole”, per each.

The unit Contract price per each for “Epoxy-Coated Tie Bar with Drill Hole” shall be full payment for all equipment, tools, materials, and labor to drill holes, furnish and install tie-bars, epoxy-bonding agent, grout according to Section 5-05 and the Plans.

“Dowel Bar Retrofit”, per each.

The unit Contract price per each for “Dowel Bar Retrofit” shall be full payment for all equipment, tools, materials, and labor to drill holes, furnish dowel bars, furnish and install parting compound, and to construct the dowel bar retrofits according to Section 5-05 and the Plans.

“Cement Conc. Base Pavement, ____-Inch Section”, per square yard.

The unit Contract price per square yard for “Cement Conc. Base Pavement, ____-Inch Section” shall be full payment for all costs incurred to carry out the requirements of Section 5-05 and the Plans, and shall include all costs associated with the furnishing and installing of all necessary dowel bars and tie bars except as specified for “Dowel Bar Retrofit” and “Epoxy-Coated Tie Bar with Drill Hole” in this section.

“Cement Conc. Pavement for Pavement Patch, ____-Inch Section”, per square yard.

1 The unit Contract price for "Cement Conc. Pavement for Pavement Patch, ____-Inch
2 Section" shall be full payment for all costs incurred to carry out the requirements of
3 Section 5-05 and the Plans, and shall include all costs associated with the furnishing and
4 installing of all necessary dowel bars and tie bars except as specified for "Dowel Bar
5 Retrofit" and "Epoxy-Coated Tie Bar with Drill Hole" in this section.
6
7

8 **END OF SECTION**
9

1 **7-04 STORM SEWERS**
2 **(March 17, 2003 Tacoma GSP)**

3
4 *This section is deleted. The requirements of Section 7-17 shall apply to storm sewers.*

5
6
7 **END OF SECTION**

8
9
10

1 **7-07 CLEANING EXISTING DRAINAGE STRUCTURES**
2 **(March 23, 2010 Tacoma GSP)**
3

4 **7-07.3 Construction Requirements**

5 *Item three of paragraph two is revised to read:*
6

- 7 3. If sediment and water from structures does not meet the conditions described in
8 1 or 2 above, the Contractor shall collect and dispose of all water used and all
9 debris generated in cleaning operations. No cleaning water or debris shall be
10 flushed downstream beyond the limits of the work.
11

12
13 **END OF SECTION**
14
15

1 **8-01 EROSION CONTROL AND WATER POLLUTION CONTROL**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-01.1 Description**

5 *This section is supplemented with the following:*

6
7 The City of Tacoma Stormwater Management Manual is available on the City's website
8 at www.cityoftacoma.org/stormwatermanual.
9

10 **8-01.3(1) General**

11
12 **8-01.3(1)A Submittals**

13 *This section is revised to read:*

14
15 The Contractor shall prepare and implement a project-specific Construction Stormwater
16 Pollution Prevention Plan (SWPPP) in accordance with the City of Tacoma Stormwater
17 Management Manual (SWMM), Volume 2. The SWPPP is a document that describes
18 the potential for pollution problems on a construction site and explains and illustrates the
19 measures to be taken on the construction site to control those problems.
20

21 The Construction SWPPP shall be prepared as a stand-alone document consisting of
22 two sections: Section 1) Construction SWPPP Narrative and Section 2) Temporary
23 Erosion and Sediment Control (TESC) Plans.
24

25 The Contracting Agency has prepared the Construction Stormwater Pollution Prevention
26 Plan Checklist to aid the Contractor in development of the SWPPP. This checklist
27 provides the Contractor with a tool to determine if all the major items are included in the
28 Construction SWPPP and on the TESC Plans and can be found in Volume 2, Chapter 2
29 of the SWMM. Contractors are encouraged to complete and submit this checklist with
30 the Construction SWPPP.
31

32 The Department of Ecology has prepared a SWPPP template that can be used for
33 projects in the City of Tacoma. The template can be found on Ecology's website at:
34 <http://www.ecy.wa.gov/programs/wq/stormwater/construction/resourcesguidance.html>.
35 The Contractor developing the SWPPP must ensure that all references are appropriate
36 for the City of Tacoma.
37

38 The SWPPP is considered a "living" document that shall be revised to account for
39 additional erosion control/pollution prevention BMPs as they become necessary and are
40 implemented in the field during project construction. A copy of the most current SWPPP
41 and TESC Plan shall remain on-site at all times and an additional copy shall be
42 forwarded to the Engineer. At the Contractor's preference, revisions to the SWPPP and
43 TESC Plan may be forwarded to the Engineer rather than submitting a complete
44 document. Revisions to the SWPPP and TESC Plan may be kept on-site in a file along
45 with the original SWPPP document.
46

47 The Contractor shall provide Stormwater Pollution Prevention Plan inspection reports or
48 forms per 8-01.3(1) B to the Project Engineer no later than the end of the next working
49 day following the inspection.
50
51

1 **8-01.3(1)B Erosion and Sediment Control (ESC) Lead**

2 *This section is revised to read:*

3
4 The Contractor shall identify the ESC Lead at the Preconstruction Meeting and the
5 contact information for the ESC Lead shall be added to the Stormwater Pollution
6 Prevention Plan (SWPPP) Report and the Temporary Erosion and Sediment Control
7 (TESC) Plan Sheet. The ESC Lead shall maintain, for the life of the contract, a current
8 Certified Erosion and Sediment Control Lead (CESCL) certificate or maintain a current
9 Certified Professional in Erosion and Sediment Control (CPESC) certificate from a
10 course approved by the Washington State Department of Ecology. The CESCL or
11 CPESC shall be listed on the Emergency Contact List required under Section 1-
12 05.13(1).

13
14 The CESCL or CPESC shall direct implementation of the measures identified in the
15 SWPPP and as shown on the TESC plan. Implementation shall include, but is not
16 limited to the following:

- 17
18 1. Installing and maintaining all temporary erosion and sediment control Best
19 Management Practices (BMPs) included in the SWPPP and as shown on the
20 TESC plan. Damaged or inadequate BMPs shall be corrected as needed to
21 assure continued performance of their intended function in accordance with
22 BMP specifications and Permit requirements.
23 2. Performing monitoring as required by the NPDES Construction Stormwater
24 General Permit.
25 3. Inspecting all on-site erosion and sediment control BMPs at least once every
26 calendar week and within 24 hours of any discharge from the site. A SWPPP
27 Inspection report or form shall be prepared for each inspection and shall be
28 included in the SWPPP file. A copy of each SWPPP Inspection report or
29 form shall be submitted to the Engineer no later than the end of the next
30 working day following the inspection. The report or form shall include, but not
31 be limited to the following:
32 a. When, where, and how BMPs were installed, maintained, modified,
33 and removed.
34 b. Observations of BMP effectiveness and proper placement.
35 c. Recommendations for improving future BMP performance with
36 upgraded or replacement BMPs when inspections reveal SWPPP
37 inadequacies.
38 d. Approximate amount of precipitation since last inspection and when
39 last inspection was performed.
40 4. Updating and maintaining a SWPPP file on site that includes, but is not
41 limited to the following:
42 a. SWPPP Inspection Reports or Forms.
43 b. SWPPP narrative.
44 c. National Pollutant Discharge Elimination System Construction
45 Stormwater General Permit (Notice of Intent).
46 d. All documentation and correspondence related to the NPDES
47 Construction Stormwater General Permit.
48 e. Other applicable permits.

49
50 Upon request, the file shall be provided to the Engineer for review.
51

1 **8-01.3(7) Stabilized Construction Entrance**

2 *The third paragraph is revised to read:*

3
4 When the contract requires a wheel wash in conjunction with the stabilized entrance, the
5 details for the wheel wash and the method for containing and treating the sediment-
6 laden runoff shall be included as part of the SWPPP and TESC Plan.

7
8 **8-01.3(8) Street Cleaning**

9 *The third paragraph is revised to read:*

10
11 Street washing with water shall not be permitted.

12
13 **8-01.3(9)D Inlet Protection**

14 *Replace the third paragraph of this section with the following:*

15
16 When the depth of accumulated sediment and debris reaches approximately 1/3 the
17 height of an internal device or 1/3 the height of the external device (or less when so
18 specified by the manufacturer), or as designated by the Engineer, the sediment and
19 debris shall be removed and disposed of per SWMM BMP C220 or as specified on the
20 Plans or within the SWPPP.

21
22 *The section is supplemented with the following:*

23
24 Only bag-type filters are allowed for use in the public right of way.

25
26 **8-01.3(10) Wattles**

27 *The fifth and sixth sentences are revised to read:*

28
29 On gradually sloped or clay-type soils trenches shall be 3 to 5 inches deep. On loose
30 soils, in high rainfall areas, or on steep slopes, trenches shall be 3 to 5 inches deep, or
31 1/2 to 2/3 the thickness of the wattle.

32
33 **8-01.4 Measurement**

34 *The third paragraph is revised to read:*

35 Check dams will be measured by the linear foot along the ground line of the completed
36 check dam. No additional measurement will be made for check dams that are required
37 to be rehabilitated or replaced due to wear.

38
39 *This section is supplemented with the following:*

40
41 No specific unit of measurement shall apply to the lump sum item "Stormwater Pollution
42 Prevention Plan (SWPPP)".

43
44 No specific unit of measurement shall apply to the lump sum item "Dewatering Plan".

45
46 *Add the following new sections:*

47
48 **8-01.4(1) Lump Sum Bid for Project (No Unit Items)**

49
50 When the bid Proposal contains the item "Erosion/Water Pollution Control", there will be
51 no measurement of unit items for Work defined by Section 8-01.4 except as described in

Section 8-01.4(2). Also, except as described in Section 8-01.4(2), all of Sections 8-01.4 and 8-01.5 are deleted.

8-01.4(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control

The Contract Provisions may establish the project as lump sum, in accordance with section 8-01.4(1) and also include one or more of the items included above in section 8-01.4. When that occurs, the corresponding measurement provision in Section 8-01.4 is not deleted and the Work under that item will be measured as specified.

The bid proposal contains the item "Erosion/Water Pollution Control," lump sum and the additional erosion control items listed below. The provisions of Section 8-01.4(1), Section 8-01.4(2), and Section 8-01.5(2) shall apply.

"ESC Lead," per Day

"Inlet Protection," per each

No specific unit of measurement shall apply to the lump sum item "Stormwater Pollution Prevention Plan (SWPPP)".

8-01.5 Payment

The pay item "Erosion/Water Pollution Control", by force account as provided in Section 1-09.6 is revised to read:

Installation, maintenance, and removal of erosion and water pollution control devices including removal and disposal of sediment, stabilization and rehabilitation of soil disturbed by these activities and any additional Work deemed necessary by the Engineer to control erosion and water pollution will be paid by force account in accordance with Section 1-09.6. Directing implementation by ESC Lead of the measures identified in the SWPPP, shown on the TESC plan, and all other work as included in Section 8-01.3(1)B shall be paid by force account as provided in Section 1-09.6.

This section is supplemented with the following:

Where removal of erosion control BMPs is directed by the Engineer according to 8-01.3(16) or according to these specification and the plans, removal shall be included in the lump sum or unit cost for these respective BMPs.

"Erosion/Water Pollution Control", per lump sum. The lump sum contract price for "Erosion Control" shall be full pay for all cost for labor, equipment, and materials to perform all work associated with erosion control. Work shall include, but shall not be limited to, furnishing, purchase and delivery or required materials, installation and maintenance of temporary erosion and sediment control measures, and all costs incurred by the Contractor in performing the Contract Work defined in Section 8-01, except for unit bid items in Section 8-01 when these are included in the bid proposal. It is the Contractor's responsibility to maintain, repair, and replace any and all erosion control measures as required to maintain compliance with the NPDES Construction

Stormwater General Permit and Tacoma Municipal Code 12.08 for the entire duration of the Project.

“Stormwater Pollution Prevention Plan (SWPPP)”, per lump sum. The lump sum contract price for “Stormwater Pollution Prevention Plan (SWPPP)” shall be full pay for all costs, including but not limited to, preparing, submitting, revising, and resubmitting revisions for the Stormwater Pollution Prevention Plan.

“Dewatering Plan”, per lump sum. The lump sum contract price for “Dewatering Plan” shall be full pay for all costs, including but not limited to, preparing, submitting, revising, and resubmitting revisions for the Dewatering Plan.

“Temporary Erosion and Sediment Control BMP Maintenance”, Force Account or Lump Sum. Any maintenance necessary due to stormwater events shall be paid by force account. Any other maintenance needed shall be considered for the contractor’s benefit and be paid by lump sum.

Add the following new sections:

8-01.5(1) Lump Sum Bid for Project (No Unit Items)

“Erosion/Water Pollution Control”, per lump sum

The lump sum contract price for “Erosion/Water Pollution Control” shall be full compensation for all costs incurred by the Contractor in performing the Contract Work defined in Section 8-01, except for costs compensated by Bid Proposal items inserted through Contract Provisions as described in Section 8-01.5(2)

Where removal of erosion control BMPs is directed by the engineer according to 8-01.3(16) or according to these specifications and the plans, removal shall be included in the lump sum or unit cost for these respective BMPs.

8-01.5(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control

The Contract Provisions may establish the project as lump sum, in accordance with section 8-01.4(1) and also reinstate the measurement of one or more of the items described in section 8-01.4. When that occurs, the corresponding payment provision in Section 8-01.5 is not deleted and the Work under that item will be paid as specified.

This section is supplemented with the following:

“ESC Lead,” per Day

“Inlet Protection,” per each

“Stormwater Pollution Prevention Plan (SWPPP)”, per lump sum

The lump sum contract price for “Stormwater Pollution Prevention Plan (SWPPP)” shall be full pay for all costs, including but not limited to, preparing, submitting, revising, and resubmitting revisions for the Stormwater Pollution Prevention Plan.

“NPDES Construction Stormwater General Permit”, per lump sum.

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The lump sum contract price for “NPDES Construction Stormwater General Permit” shall be full pay for all costs, including but not limited to, sampling, monitoring, reporting, coordinating, inspecting, fees and any other expenses, materials and labor necessary to fully comply with the requirements of the permit and terminate it upon completion of the project.

END OF SECTION

1 **8-02 ROADSIDE RESTORATION**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-02.3 Construction Requirements**

5
6 **8-02.3(5) Planting Area Preparation**

7 *This section is supplemented with the following:*

8
9 All grades shall be maintained in the areas to be planted in a true and even condition.
10 The contractor shall be careful not to disturb any of the existing or cut slopes. Where
11 final grades have not been established, the areas shall be finish graded and all surfaces
12 left in an even and compacted condition. The finished grade shall be such that after
13 planting, the grade shall be flush with adjoining surfaces; positive drainage shall also be
14 maintained.

15
16 **8-02.3(6) Soil Amendments**

17 *This section is supplemented with the following:*

18
19 Recycled/compost material in accordance with Section 9-14.4(8) shall be blended with
20 the specified topsoil at a ratio of 1/1 by volume.

21
22 **8-02.3(9) Pruning, Staking, Guying and Wrapping**

23 *This section is supplemented with the following:*

24
25 Crossed or rubbing branches shall be removed providing the natural shape of the tree is
26 preserved. Under no circumstances shall pruning be done prior to inspection and
27 approval of plants by the Engineer. All cuts shall be made flush with the parent stem
28 leaving no stubs. Pruning cuts shall be made in a manner to favor the earliest possible
29 covering of the wound by callus growth. Cuts that produce large wounds and weaken
30 the tree will not be acceptable.

31
32 Top growth removal to compensate for root loss shall not exceed one-third (1/3) of the
33 top growth unless otherwise specified or directed by the Engineer. Cuts created 3/4 inch
34 in diameter shall be treated with an approved tree wound dressing. All pruning shall
35 produce a clean cut without bruising or tearing the bark and shall be in living wood
36 where the wood can properly heal over.

37
38 Evergreens shall not be pruned, except to remove injured branches. The use of pole
39 shears and/or hedge shears for pruning deciduous and evergreen trees will not be
40 permitted. All trimmings and other debris left over from the planting operations shall be
41 collected and disposed of off the site.

42
43 All evergreen trees and deciduous trees over 15 feet in height shall be guyed with three
44 wires or cables.

45
46 All deciduous and evergreen trees shall be staked the same day of planting.

47
48
49
50 **END OF SECTION**
51

1 **8-04 CURBS, GUTTERS, AND SPILLWAYS**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

5 *The first paragraph is revised to read:*

6
7 Cement concrete curb, curb and gutters, gutters, and spillways shall be constructed
8 with air entrained concrete Class 3000 conforming to the requirements of Section 6-02.

9
10 *Section 8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways is supplemented with*
11 *the following:*

12
13 **8-04.3(1)C Integral Cement Concrete Curb**

14
15 When integral curb is being constructed with the pavement, fresh concrete for the
16 integral curb shall be placed at such time as will enable the top section of the curb to be
17 consolidated, finished, and bonded to the pavement slab while the concrete is plastic.

18
19 Where curb is not being placed integral with the pavement slab, reinforcing steel dowels
20 shall be placed in the base section for the curb in accordance with the standard drawing.

21
22 *Section 8-04.3 Construction Requirements is supplemented with the following:*

23
24 **8-04.3(6) Cold Weather Work**

25
26 The following additional requirements for placing concrete shall be in effect from
27 November 1 to April 1:

- 28
29
 - The Engineer shall be notified at least 24 hours prior to placement of concrete.
 - All concrete placement shall be completed no later than 2:00 p.m. each day.
 - Where forms have been placed and the subgrade has been subjected to frost, no
32 concrete shall be placed until the ground is completely thawed. At that time, the
33 forms shall be adjusted and subgrade repaired as determined by the Engineer.

34
35 **8-04.5 Payment**

36 *This section is supplemented with the following:*

37
38 "Cement Conc. Traffic Curb and Gutter", per linear foot
39
40

41 **END OF SECTION**
42
43
44

1 **8-14 CEMENT CONCRETE SIDEWALKS**
2 **(March 23, 2010 Tacoma GSP)**

3
4 **8-14.3 Construction Requirements**

5
6 **8-14.3(3) Placing and Finishing Concrete**

7 *The fourth paragraph is revised to read:*

8
9 Curb ramps shall be of the type specified in the Plans. The detectable warning pattern
10 shall have the truncated dome shape shown in the Standard Plans.

11
12 **8-14.3(4) Curing**

13 *The second sentence is revised to read:*

14
15 Curing shall be in accordance with Section 5-05.3(13).

16
17 *Section 8-14 is supplemented with the following:*

18
19 **8-14.3(20) Cold Weather Work**

20
21 The following additional requirements for placing concrete shall be in effect from
22 November 1 to April 1:

- 23
24
 - The Engineer shall be notified at least 24 hours prior to placement of concrete.
 - All concrete placement shall be completed no later than 2:00 p.m. each day.
 - Where forms have been placed and the subgrade has been subjected to frost, no

26 concrete shall be placed until the ground is completely thawed. At that time, the
27 forms shall be adjusted and subgrade repaired as determined by the Engineer.
28
29

30 **8-14.3(21) Thickened Edge for Sidewalk**

31
32 Thickened edge shall be constructed in accordance with the standard plan.
33

34 **8-14.5 Payment**

35 *The pay item "Cement Conc. Sidewalk" is supplemented with the following:*

36
37 All additional costs related to the construction of thickened edges shall be included in the
38 unit contract cost for "Cement Conc. Sidewalk".

39
40 *The sixth paragraph is revised to read:*

41
42 Excavation required for the construction of the sidewalk shall be paid for under the unit
43 contract price for "Roadway Excavation, Incl. Haul" when included in the proposal.
44 Otherwise, the Contractor shall include all costs associated with excavating, including
45 haul and disposal, regardless of the depth in the unit contract price for "Cement Conc.
46 Sidewalk" and/or "Cement Conc. Curb Ramp Type ____".
47

48
49 **END OF SECTION**
50
51

1 **8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL**
2 **(August 14, 2019 GSP)**

3
4 **8-20.1(3) Permitting and Inspections**

5 *The third paragraph is revised to read:*

6
7 All new services require a Tacoma Public Utilities Permit and inspection by Tacoma
8 Power. All work on the load side of the service will be inspected by the Signal and
9 Streetlight Shop Inspector.

10
11 **8-20.2 Materials**

12 *This section is supplemented with the following:*

13
14 The Contractor shall warranty all electrical and mechanical equipment described in this
15 section for satisfactory in service operation for one year following project acceptance.
16 Warranty shall include troubleshooting, labor, materials and all other costs to bring the
17 equipment to a satisfactory level of service. Normal maintenance is not included in the
18 warranty.

19
20 **8-20.2(1) Equipment List and Drawings**

21 *This section is revised to read:*

22
23 Within 20 days following execution of the Contract, the Contractor shall submit to
24 the Engineer a completed "Request for Approval of Material" that describes the material
25 proposed for use to fulfill the Plans and Specifications.

26
27 The Contractor shall submit Type 2 Working Drawings consisting of supplemental data,
28 sample articles, or both, of the material proposed for use. Supplemental
29 data includes such items as catalog cuts, product Specifications, shop drawings, wiring
30 diagrams, etc.

31
32 The Contractor shall submit Type 2 Working Drawings consisting of the following
33 information for each different type of luminaire required on the Contract:

- 34
35 1. Isocandela diagrams showing vertical light distribution, vertical control limits,
36 and lateral light distribution classification.
37 2. Details showing the lamp socket positions with respect to lamp and refractor
38 for each light distribution type. This requires that the Contracting Agency
39 know what the light pattern available are and the light distribution.

40
41 Additional submittals for proposed alternate LED Roadway Luminaires shall be in
42 conformance with section 9-29.10.

43
44 The Contractor shall submit for approval Type 3E Working Drawings in accordance with
45 [Section 1-05.3](#) for each type of light standard and each type of signal standard called for
46 on this project.

47
48 The Engineer's acceptance of any submitted documentation shall in no way relieve the
49 Contractor from compliance with the safety and performance requirements as specified
50 herein.

Submittals required shall include but not be limited to the following:

1. A Type 2 Working Drawing consisting of a material staging plan, should the Contractor propose Contracting Agency-owned property for staging areas.
2. A Type 2 Working Drawing consisting of a cable vault installation plan showing the exact proposed installation location by Roadway station, offset and the scheduled sequence for each cable vault installation.
3. A Type 2E Working Drawing consisting of a pit plan, for each boring pit, depicting the protection of traffic and pedestrians, pit dimensions, shoring, bracing, struts, walers, sheet piles, conduit skids, and means of attachment, casing type, and casing size.
4. A Type 2E Working Drawing consisting of a boring plan depicting the boring system and entire support system.

8-20.3 Construction Requirements

8-20.3(1) General

This section is supplemented with the following:

The Contractor shall call 24 hours prior for inspection before covering any underground conduit, prior to installing any detection loops, or placing concrete for foundations. For inspections, notify Traffic Signal/Streetlighting at (253) 591-5287.

Work shall be sequenced such that after the new signal is placed in operation, the Contractor shall remove any equipment not required for the operation of the new signal. The Contractor shall remove the old vehicle and pedestrian signal heads immediately after the new system is operational.

For new signals, the contractor shall provide a Portable Message Change Sign in each direction and operate the PMCS for one week before, and one week after activating the new signal. This work shall be paid for in accordance with Section 1-10.

Uniformed police officers shall be provided by the Contractor to direct traffic at any time the signal is not in normal operation. This work shall be paid for in accordance with Section 1-10.

The following existing and temporary equipment shall be deconstructed/removed by the Contractor and delivered to the City of Tacoma Signal/Streetlight Shop located at 3401A South Orchard Street. Care shall be exercised in removing and salvaging the equipment. Any equipment damaged during removal, hauling, and stockpiling shall be repaired or replaced by the Contractor at no expense to the City.

- All signal heads and mounting hardware
- Flashing beacons, and flasher control panel
- Steel poles, mast arms, and hardware
- Aluminum poles, mast arms, and hardware
- Controller cabinets and all internal hardware and wiring
- Vehicle detection systems, including video, microwave, and infrared systems, and associated hardware
- All Opticom equipment or other preemption and priority equipment.
- LED luminaries, LED retrofit kits, and LED lamps

- Ornamental/Decorative fixtures and poles/posts
- Pedestrian signals, poles, and pushbuttons.
- Signs, brackets, and hardware
- Locking junction box security lids, security bolts, and all other wire theft deterrent security hardware

All other equipment shall be removed of and disposed of by the Contractor, including but not limited to the following:

- Wood poles
- All wiring outside of the controller cabinet
- Loops
- Non-LED cobra-head fixtures

8-20.3(4) Foundations

This section is supplemented with the following:

Breakaway Base Connection brackets for pedestrian pushbutton poles (Type PPB) shall be installed with the flanges parallel to the traveled way, as shown on WSDOT standard plan J-20.15-03.

Anchor bolts for streetlight standards and for strain poles shall extend a minimum of two threads and a maximum of six threads above the top heavy-hex-nut. A minimum of three threads shall remain between bottom of the leveling hex-nut and the top of the foundation.

Foundations shall be excavated using an auger and poured against undisturbed material unless otherwise approved by the Engineer. Vacuum excavation should be used where there is a possibility of conflict with utilities or other facilities.

Forming the foundation with galvanized culvert pipe or similar forming methods will only be allowed when soil conditions or other factors make this method of construction necessary and is approved by the Engineer. Biodegradable forming tubes shall be fully removed from the cured concrete prior to backfilling. When using culvert or tubes, the following backfill requirements will apply. The area between the form and undisturbed material shall be filled with CDF. For lightly loaded installations and only with the approval of the Engineer, Crushed Surfacing Top Course meeting the requirements of Section 9-03.9(3) may be used. Placement shall be in accordance with Section 2-09.3(1)E and shall be backfilled and compacted in the presence of the Engineer.

8-20.3(5) Conduit

8-20.3(5)A General

This section is supplemented with the following:

Unless otherwise specified in the plans and specifications, standard conduit sizes shall be as follows:

- Underground Streetlight Conduit: 2 inch diameter
- Pole Riser Service Installations: 1-1/2 inch diameter
- Traffic Signal Conduit: 3 inch diameter
- Traffic Signal Communication: 3 inch diameter

- All other conduit: 2 inch diameter, unless otherwise specified.

As soon as the mandrel has been pulled through, both ends of the conduit shall be sealed in an approved manner. Location wire, in conformance with 9-29, shall be installed in all empty conduits. At least three (3) feet of the location wire shall be neatly coiled and secured to the conduit in the same manner as is shown in Washington State Department of Transportation Standard Plan J-28.70-01, Details A and B.

8-20.3(5)B Conduit Type

This section is supplemented with the following:

Conduit under driveways and other vehicular access ways shall be Schedule 80 high-density polyethylene (HDPE), Schedule 80 PVC, or rigid metal conduit (RMC)

Conduit installed in a joint trench, with power, and that is installed a minimum of 36-inches from finished grade may utilize Schedule 40 PVC in lieu of Schedule 80 PVC. This allowance shall not be construed to permit the use of dissimilar materials in a single run.

Pole riser conduit material types shall be in accordance with applicable City of Tacoma standard plans.

8-20.3(5)D Conduit Placement

This Section is supplemented with the following:

Conduit terminating in pole foundations shall extend to 3 inches below the handhole.

Conduit terminating in controller foundations shall terminate 1 inch above the foundation.

8-20.3(5)E1 Open Trenching

Subsection 5 is revised to read:

5. Trenches located within the paved roadway shall be backfilled with 3 inches of sand over the conduit, followed by material meeting the requirements of Section 9-03.12(3). Compaction shall be in conformance with Section 2-09.3(1)E. All street cuts shall be repaired in accordance with the standard plans.

This section is supplemented with the following new Subsections:

7. Where multiple conduit are installed in the same trench, the trench shall be of sufficient width to accommodate all conduit, with a minimum 3-inch separation between each conduit, and a minimum clearance of 1-inch on the sides of the trench. When conduit is laid horizontal to one another, the conduit shall be laid at the same elevation, parallel with one another. When conduit is laid vertically in the same trench, conduit spacers shall be used to maintain the 3-inch separation. Spacers shall be installed in accordance with the manufacturer's recommendations for conduit of that size and type. Additional spacers shall be required where the supported conduit is sagging more than 20% of the nominal diameter of the conduit.
8. In all conduit trenches, metallic, detectible, utility warning tape shall be placed at twelve (12) inches below final grade.

8-20.3(6) Junction Boxes, Cable Vaults, and Pull boxes

This section is supplemented with the following:

Unless otherwise specified in the plans, or as otherwise directed by the engineer, all junction boxes exposed to vehicular traffic shall be Heavy-Duty. Field adjustment of junction boxes, which cause junction boxes to be installed within an intersection radius and within four feet of the curb face may be required to be Heavy-Duty. Final placement and type of all junction boxes within an intersection shall be as directed by the Engineer.

Adjacent junction boxes shall be separated by a minimum of three-inches.

Concrete meeting the requirements of 6-02.3(2)B shall be placed surrounding all junction boxes except as otherwise provided for below. Concrete shall be flush with the top of the junction box and the adjacent improvements. Concrete shall be cast in place. Junction boxes shall be secured with the concrete border as follows:

1. When the junction box is located within a concrete or asphalt section and is located a minimum of 12-inches from the edge of the section, a concrete border will not be required.
2. Where junction boxes are located within 12-inches from the edge of the concrete or asphalt section, the junction box shall be secured on all sides with a minimum 12-inch wide, 6-inch deep concrete section. Concrete shall be finished in the same manner as the adjacent concrete where applicable.
3. Where junction boxes are located within a planter strip, a landscaped area, or other non-hardened surface, the junction box shall be bordered on all sides with a minimum 6-inch wide, 12-inch deep concrete section flush with the top of the junction box.

8-20.3(7) Messenger Cable, Fittings

The second paragraph of this section is deleted.

This section is supplemented with the following:

Cable ties shall be used to neatly secure the signal cable to the span wire at 10-inch centers and shall be tightened at top. Excess tie material shall be completely cut off. The signal control cable shall be below the span wire and shall be straight with no twisting or spiraling.

A minimum 5% sag shall be provided in the span wire when fully loaded with all vehicular signal heads, unless otherwise directed by the Engineer.

8-20.3(8) Wiring

The third paragraph is revised to read:

All splices in underground illumination circuits, induction loop circuits, and magnetometer circuits shall be installed at junction boxes. The only splice allowed in an induction loop circuit shall be the shielded cable to loop wire splice. The only splice allowed in a magnetometer circuit shall be the probe lead-in cable to the magnetometer cable splice.

1 Induction loop splices and magnetometer splices shall be heat shrink type with moisture
2 blocking material, sized for the conductors. Magnetometer and induction loop splices
3 shall be soldered. The end of the sheathing shall be sealed with a heat shrink insulator.

4
5 *The fourth paragraph is revised to read:*

6
7 Signal wiring shall be in conformance with the following:

- 8
- 9 1. All termination for traffic signal control systems shall be in accordance with
- 10 City of Tacoma Standard Plan TS-15.
- 11 2. All signal wiring shall be 5-conductor or 2-conductor 14 gauge stranded
- 12 copper wire unless otherwise shown in the plans.
- 13 3. For 5-section and bimodal heads, 2-5c-14 gauge conductors shall be utilized.
- 14 4. 5c wire shall not be split between high voltage and low voltage. Where a
- 15 pedestrian head and a pedestrian push button share a common pole, a
- 16 separate 2c shall be pulled in for the push button.
- 17 5. A single 5c may be split between two pedestrian heads on a common pole
- 18 with a jumper across the neutral.
- 19 6. Opticom and detection wiring shall be per manufacturer's recommendations.
- 20

21 All wiring entering the cabinet shall be gathered across the conduits to the right front of
22 the cabinet, neatly tied, and circle the base of the cabinet counterclockwise as further
23 described below:

- 24
- 25 1. Communication cables shall circle the base of the cabinet, counterclockwise
- 26 from front right, one full circle, and around to the back of the right panel.
- 27 Cables shall follow up the back of the right panel and terminate on the
- 28 terminal strip identified by the Engineer. Unless otherwise directed by the
- 29 Engineer, cable outer jacket sheathing shall be removed from a point two (2)
- 30 inches below the terminal strip. Cables shall be uniform in length, with
- 31 sufficient slack to reach any terminal on the terminal strip. Individual wire
- 32 slack shall be neatly looped back and tied. A bolt/flanged nut alligator jaw
- 33 shield bond connector shall be utilized.
- 34 2. Power service conductors shall circle the base of the cabinet,
- 35 counterclockwise from front right, one full circle, and back around to the front
- 36 right of the base.
- 37 3. Detection cables shall circle the base of the cabinet, counterclockwise from
- 38 front right, to the back of the left panel. Cables shall follow up the back of the
- 39 left panel and terminate as directed in the field.
- 40 4. Signal vehicle and pedestrian head shall circle the base of the cabinet,
- 41 counterclockwise from front right, to back left. Cable outer jacket sheathing
- 42 shall be removed from the point that the conductor reaches the back left of
- 43 the cabinet to the ends of the conductors. All vehicle and pedestrian
- 44 conductors in the cabinets shall be uniform in length, with sufficient slack to
- 45 reach any terminal on the load bay. Individual wire slack shall be neatly
- 46 looped back and tied.
- 47 5. Push button conductors shall circle the base of the cabinet, counterclockwise
- 48 from front right, to front left. Cable outer jacket sheathing shall be removed
- 49 from the point that the conductor reaches the front left of the cabinet to the
- 50 ends of the conductors. All push button conductors in the cabinets shall be

uniform in length, with sufficient slack to reach any terminal on the terminal strip. Individual wire slack shall be neatly looped back and tied.

The fifth paragraph is revised to read:

Splices and taps on underground and overhead circuits shall be made with solderless crimp connectors, installed with an approved tool designed for the purpose, to securely join the wires both mechanically and electrically. Splices and taps will be sealed in accordance with this section.

The seventh paragraph is revised to read:

Aerial illumination splices shall be taped with thermoplastic electrical insulating tape equivalent to the original wire insulation rating and thickness. It shall be well lapped over the original insulation.

The eighth paragraph is revised to read:

All splices in junction boxes and handholes shall be taped and sealed with an electrical coating. Tape splice insulation shall consist of thermoplastic electrical insulating tape equivalent to the original wire insulation rating and thickness. It shall be well lapped over the original insulation and moisture resistant electrical coating shall be applied and allowed to dry. Two layers of thermoplastic tape will then be applied, followed by a second layer of moisture resistant electrical coating.

The ninth paragraph is revised to read:

Illumination cable in light standards shall be #10 AWG USE or "Pole and Bracket" cable, as specified in Section 9-29.3(2)D of the Standard Specifications.

The tenth paragraph is revised to read:

Fifteen (15) feet of slack cable shall be provided at the controller end of all cables terminating in the controller cabinet. A minimum of three (3) feet of slack cable shall be left at all strain poles and junction boxes.

8-20.3(10) Service, Transformer, and Intelligent Transportation System (ITS) Cabinets

The second, third, and fifth paragraphs are deleted.

8-20.3(14) Signal Systems

8-20.3(14)A Signal Controllers

This section is revised to read:

The fully wired control cabinet, the controller, the MMU, and detection hardware for the cabinet shall be delivered to the City of Tacoma Traffic Signal Shop for configuration, programming, testing, and certification prior to installation. At the Contractor's request, the City will off load the equipment. The Contractor shall notify the City 24 hours in advance of the equipment delivery.

1 A minimum of two weeks shall be required for the City to configure and test the cabinet
2 and controller for each intersection. If multiple cabinets and controllers are delivered,
3 the Contractor shall identify the sequence for configuration and allow one additional
4 week for each additional cabinet and controller delivered.

5
6 The Contractor shall be responsible for transporting the controller cabinet from the
7 Signal/Streetlight Shop site to the jobsite, and for installation of the cabinet and all field
8 wiring. Field wiring shall be performed in accordance with 8-20.3(8) and as directed by
9 City of Tacoma Signal and Streetlight personnel in the field.

10 11 **8-20.3(14)B Signal Heads**

12 *This section is supplemented with the following:*

13
14 For span wire installation, the red indications shall be leveled to within 1 inch for each
15 direction as approved by the City. The height to the bottom of the lowest head shall be
16 17 feet, plus or minus 3 inches. Height to the bottom of the lowest four-section or five-
17 section head shall be a minimum of 16 feet-3 inches, plus or minus 3 inches.

18
19 For span wire installation, the signal stem (drop pipe) shall be 1 to 3 feet long unless
20 otherwise approved by the Engineer.

21 22 **8-20.3(14)C Induction Loop Vehicle Detectors**

23 *Subsections 2, 4, 9, and 10 are deleted.*

24 25 **8-20.3(14)E Signal Standards**

26 *This section is supplemented with the following:*

27
28 Unless otherwise shown in the plans, a terminal cabinet shall be installed on all new
29 traffic signal strain poles and traffic signal mast arm standards. Where modifications to
30 existing signal systems include replacement, addition, or modifications to existing signal
31 head wiring, a terminal cabinet shall be added to the existing strain pole or mast arm
32 standard.

33
34 For strain poles and mast arm poles supporting signal indications for one leg of the
35 intersection, an 8" deep, 16" high, and 12" wide terminal cabinet shall be installed. For
36 strain poles and mast arm poles supporting signal indications for two or more legs of the
37 intersection an 8" deep, 24" high, and 18" wide terminal cabinet shall be installed.

38
39 Terminal cabinets shall be in conformance with 9-29.25.

40
41 *Section 8-20.3(14) is supplemented with the following new section:*

42 **8-20.3(14)F Thermal, Microwave, and LED Optical Vehicle Detection**

43
44 A representative from the City of Tacoma Signal and Streetlight operations shop shall be
45 on site during all work within the signal cabinet. The Contractor shall notify the Engineer
46 two working days in advance of work within the cabinet.

47
48 The Contractor shall install and test the detection system in accordance with the
49 manufacturer's recommendations and these special provisions. Detection units shall be
50 mounted and all cabling shall be in accordance with the manufacture's

1 recommendations. The installation shall include all field equipment as well as all
2 equipment required in the controller cabinet.

3
4 Detection unit locations as shown on the plans are approximate. Detection units shall be
5 mounted at a sufficient height to prevent occlusion from cross traffic. Detection units
6 shall be field adjusted as directed by the Engineer and equipment manufacturer for
7 maximum coverage. A factory-certified representative of the equipment manufacturer
8 shall inspect and provide a written verification that the installation has been performed in
9 accordance with the manufacturers requirements.

10
11 The factory-certified representative of the equipment manufacturer shall supervise all
12 testing of the equipment and shall provide written documentation showing acceptance of
13 the testing and verification that the system is a complete, fully functional system.

14
15 All equipment shall be warranted against manufacturing defects in materials and
16 workmanship for a period of 3 years from the date of signal turn-on.

17 18 **8-20.3(17)B “As Built” Plans**

19 *This section is supplemented with the following:*

20
21 These drawings shall show the routing of all underground conduits. The locations of the
22 conduit shall be dimensioned with a precision and accuracy of 1 foot.

23 24 **8-20.4 Measurement**

25 *This section is revised to read:*

26
27 *No specific measurement shall apply to the lump sum item “Traffic Signal System*
28 *Modifications”.*

29 30 **8-20.5 Payment**

31 *This section is supplemented with the following:*

32
33 “Traffic Signal System Modifications”, lump sum.

34
35 The lump sum Contract price for “Traffic Signal System Modifications” shall be full pay
36 for the construction of the complete electrical system, modifications to the existing
37 system, or both as shown in the Plans, and herein specified, including excavation,
38 backfilling, concrete foundations, conduit, wiring, restoring facilities destroyed or
39 damaged during construction, salvaging existing materials, and for making all require
40 tests. All additional materials and labor, not shown in the Plans or called for herein and
41 which are required to complete the electrical system, shall be included in the lump sum
42 Contract price.

43
44 **END OF SECTION**

1 **8-22 PAVEMENT MARKING**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-22.1 Description**

5 *This section is supplemented with the following:*

6
7 **Chevrons**

8 A "Chevron" shall be provided on speed humps for each approach. For a street width
9 less than 28 feet, the "Chevron" shall start at the edge of roadway (gutter line). For a
10 street width greater than 28 feet, the "Chevron" shall start at the center of the roadway.
11 Refer to details specified within the plans. Chevrons shall be provided along bike lane
12 buffers at locations specified on the plans or as directed by the Engineer.

13
14 **Sharrow Pavement Marking**

15 Sharrow pavement marking shall be provided at locations identified in the plans. Refer
16 to City of Tacoma Standard Plan CH-11 and/or other details specified within these plans
17 and specifications. The product shall be a durable, color stable, non-slip surface.

18
19 **8-22.2 Materials**

20 *This section is supplemented with the following:*

21
22 All legends and arrows including "Plastic Arrow", "Plastic Sharrow Symbol", and "Plastic
23 Letter" markings shall be a Preformed retro-reflective thermoplastic pavement marking
24 material incorporating a pre-applied bead coating that can be adhered to asphalt,
25 concrete and Portland Cement Concrete pavements by means of heat fusion. All
26 "Plastic Chevron", "Plastic Crosswalk Line", and "Plastic Stop Line" shall be hot applied
27 thermoplastic. The applied markings shall be very durable, oil and grease impervious,
28 and provide immediate and continuing retro-reflectivity meeting the requirements of
29 Section 9-34.3(2).

30
31 Materials used for curb paint shall be the same as for pavement marking paint per
32 Section 9-34.2.

33
34 **8-22.3 Construction Requirements**

35
36 **8-22.3(3)E Installation**

37 *This section is supplemented with the following for applying Type B material:*

38
39 **Effective Performance Life:** When properly applied, in accordance with manufacturer's
40 instructions, the preformed marking materials shall be neat and durable. The markings
41 shall remain skid resistant and show no lifting, shrinkage, tearing, roll back, or other
42 signs of poor adhesion.

43
44 **Packaging:** The flexible preformed marking material, for use as transverse or bike
45 symbols as well as legends, shall be available in flat form material up to a maximum of 2
46 foot width by 4 foot length. The material shall be packed in suitable cartons clearly
47 labeled for ease of identifying the contents. Packaging shall not use plastic liners within
48 to separate material from itself. Product packaging shall identify part number and mil
49 thickness.

Material Replacement Provisions: Any properly applied preformed marking materials that shall smear or soften independent of pavement movement or condition within a period of one year from date of application shall be replaced by the supplier.

Installation: The preformed marking materials shall be applied in accordance with the manufacturer's recommendations on clean and dry surfaces. New Portland concrete cement surfaces must be sandblasted to entirely remove curing compound. Marking configuration shall be in accordance with the "Manual on Uniform Traffic Control Devices," where applicable.

New Surfaces: Preformed marking materials specified for newly paved asphalt road surfaces shall be capable of being applied as the original permanent marking on the day the surface is paved.

Fusion: The preformed marking materials shall be fusible to the pavement by means of a propane torch recommended by the manufacturer.

Technical Services: The supplier shall provide technical services as may be required.

8-22.3(3)F Application Thickness

The Section is supplemented with the following:

8-22.3(4) Tolerances for Lines

The allowable tolerance for "Length of Line" is revised to read:

Length of Line: The longitudinal accumulative error within a 32-foot length of skip stripe shall not exceed plus or minus 1 inch.

8-22.3(6) Removal of Pavement Markings

This Section is supplemented with the following:

All Pavement Markings, including but not limited to painted and plastic lines, crosswalks, wide lines, stop bars, and raised pavement markers shall be removed prior to placement of HMA within the limits of the HMA Overlay as shown in the Plans or as directed by the Engineer.

8-22.4 Measurement

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

The measurement for "Painted Wide Lane Line", "Plastic Wide Lane Line" will be based on the total length of each 8-inch-wide painted or plastic line installed and not included in other Bid Items per Section 8-22. "Profiled Plastic Wide Lane Line", "Painted Barrier Center Line", "Plastic Barrier Center Line", "Painted Stop Line", Plastic Stop Line", "Painted Wide Dotted Entry Line" or "Plastic Wide Dotted Entry Line" will be based on the total length of each painted, plastic, or profiled plastic line installed.

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

Crosswalk lines will be measured by the linear foot of marking installed.

The section is supplemented with the following:

1 Painted curb will be measured by the linear foot of curb line as "Painted Curb."

3 Plastic Sharrow Symbols will be measured by each typical sharrow symbol installed.

5 No specific unit of measure will be applied to the lump sum bid item "Removal of
6 Pavement Markings"

8 **8-22.5 Payment**

9 *This section is supplemented with the following:*

11 "Plastic Lane Line", per linear foot.

13 "Plastic Stop Line", per linear foot.

15 "Plastic Wide Lane Line", per linear foot.

17 "Plastic Crosswalk Line", per linear foot.

19 "Removal of Pavement Markings", per lump sum.

21 The lump sum for "Removal of Pavement Marking" shall be full pay for all material and
22 labor, and equipment required to remove the existing pavement markings within the
23 HMA Overlay limits as shown in the Plans or as directed by the Engineer. Removal of
24 Pavement Markings shall include, but is not limited to, removal of all plastic and painted
25 lines, crosswalks, wide lines, stop bars, and raised pavement markers.

27 **END OF SECTION**

9-03 AGGREGATES
(September 20, 2018 Tacoma GSP)

9-03.1 Aggregates for Portland Cement Concrete

9-03.1(1) General Requirements
(June 16, 2016 Tacoma GSP)

The seventh paragraph is deleted

9-03.6 Vacant
(Jun 16, 2016 Tacoma GSP)

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

9-03.6 Aggregates for Asphalt Treated Base (ATB)

9-03.6(1) General Requirements

Aggregates for asphalt treated base shall be manufactured from ledge rock, talus, or gravel, in accordance with the provisions of Section 3-01 that meet the following test requirements:

Los Angeles Wear, 500 Rev. 30% max.
Degradation Factor 15 min.

9-03.6(2) Grading

Aggregates for asphalt treated base shall meet the following requirements for grading:

Sieve Size	Percent Passing
2"	100
1/2"	56-100
No. 4	32-72
No. 10	22-57
No. 40	8-32
No. 200	2.0-9.0

All percentages are by weight.

9-03.6(3) Test Requirements

When the aggregates are combined within the limits set forth in Section 9-03.6(2) and mixed in the laboratory with the designated grade of asphalt, the mixture shall be capable of meeting the following test values:

% of Theoretical Maximum Specific Gravity (GMM) (approximate)	93@
100 gyrations	
AASHTO T324, WSDOT TM T718 or ASTM D3625	Pass
(Acceptable anti-strip evaluation tests)	

The sand equivalent value of the mineral aggregate for asphalt treated base (ATB) shall not be less than 35.

9-03.8 Aggregates for Hot Mix Asphalt

(March 9, 2016 APWA GSP)

Supplement section 9-03.8 with the following:

Aggregates for Porous Hot Mix Asphalt/Porous Warm Mix Asphalt (PHMA/PWMA) General Requirements

Aggregates for Porous Hot Mix Asphalt (PHMA) or Porous Warm Mix Asphalt (PWMA) shall be manufactured from ledge rock, talus, or gravel, in accordance with the provisions of Section 3-01 that meet the following test requirements:

Los Angeles Wear, 500 Rev. 30% max.

Degradation Factor 15 min.

Grading

Aggregates for PHMA/PWMA shall meet the following requirements for grading:

Sieve Size	Percent Passing*
¾" square	100
½" square	90 - 100
⅜" square	55 - 90
U.S. No. 4	10 - 40
U.S. No. 8	0 - 20
U.S. No. 40	0 - 13
U.S. No. 200	0 - 5

* All percentages are by weight.

The aggregate for PHMA/PWMA shall consist of crushed stone with a percent fracture greater than 90% on two faces on the No. 4 sieve and above, and shall be tested in accordance with the field operating procedures for AASHTO T 335.

9-03.12 Gravel Backfill

Add the following new Section:

9-03.12(10) Pea Gravel

(September 20, 2018 Tacoma GSP)

Sieve Size	Percent Passing*
¾" square	100
⅜" square	95-100
U.S. No. 8	0 - 10
U.S. No. 200	0 - 3

Sand Equivalent 35 Minimum

* All percentages are by weight

1 **9-03.21 Recycled Material**

2
3 **9-03.21(1) General Requirements**
4 **(Jun 16, 2016 Tacoma GSP)**

5 *This section is supplemented with the following:*

6
7 Recycled materials will only be permitted upon approval of the Engineer. Recycled
8 concrete shall not be permitted for use as pipe zone backfill, backfill above pipe zone,
9 and extra excavation area backfill material.

10
11
12 **END OF SECTION**
13

9-08 PAINTS AND RELATED MATERIALS

(March 23, 2010 Tacoma GSP)

The following section is added:

9-08.20 Painting Surfaces Systems

The surfaces shall be painted in accordance with the type materials and exposures as identified in this section. The Contractor shall provide the Engineer with a paint mil.

9-08.20(1) Steel

- A. Exposed/outside exposure (non-galvanized)
 - 1. Primer Coat Section 9-08.1(2)C (2.5-mils)
 - 2. Intermediate Coat Section 9-08.1(2)G (3.5-mils)
 - 3. Top Coat: Section 9-08.1(2)H (1.0-mils)
- B. Exposed/Interior exposure (non-galvanized)
 - 1. Primer Coat: Section 9-08.1(2)C (2.5-mils)
 - 2. Intermediate Coat: Section 9-08.1(2)G (3.5-mils)
 - 3. Top Coat: Section 9-08.1(2)H (1.0-mils)
- C. Unexposed/interior & exterior (non-galvanized)
 - 1. Primer Coat: Section 9-08.1(2)C (2.5-mils)
- D. Exposed/interior & outside exposure (galvanized)
 - 1. Primer Coat: Section 9-08.1(2)E (2.5-mils)
 - 2. Top Coat: Section 9-08.1(2)H (1.0-mils)
- E. Powder Coating and Galvanize Coating shall be applied where indicated in the contract documents. All other surfaces to be coated per Section 6-07.3.
- F. Painting shall be applied in accordance with Section 6-07.3.

9-08.20(2) Concrete

- A. Exposed/outside exposure
 - 1. 1st Cost: Section 9-08.3 (3.0-mils)
- B. Exposed/Interior exposure
 - 1. 1st Cost: Section 9-08.1(3) (2.0-mils)
 - 2. 2nd Cost: Section 9-08.1(3) (1.0-mils)
- C. Surface to be painted where indicated on contract plans
- D. Colors to be selected by the Project Engineer

9-08.20(3) Wood

All surfaces to be coated where and in accordance with contract documents as indicated.

END OF SECTION

1 **9-28 SIGNING MATERIALS AND FABRICATION**
2 **(April 1, 2012 Tacoma GSP)**
3

4 **9-28.1 General**

5 *The second sentence of the first paragraph is hereby revised to read:*
6

7 Permanent signs which measure 36 inches or less on a side and are to be mounted on a
8 single post shall be constructed of single 0.080-inch aluminum panels.
9

10 *The third sentence of the first paragraph is hereby revised to read:*
11

12 Sign overlay panels shall be 0.050-inch aluminum panels.
13

14 **9-28.9 Fiberglass Reinforced Plastic Signs**

15 *This section is deleted in its entirety.*
16
17

18 **END OF SECTION**
19
20

1 **9-29 ILLUMINATION, SIGNALS, ELECTRICAL**
2 **(July 1, 2020 Tacoma GSP)**
3
4

5 **9-29.1(6) Detectable Underground Warning Tape**

6 *This section is supplemented with the following:*
7

8 For electrical circuits detectable underground warning tape shall be high visibility red,
9 with continuous legend of "Caution Electric Line Buried Below" or equal. The warning
10 tape shall be polyethylene with a metallic backing. The polyethylene shall be a minimum
11 3 inches wide, 4 mils thick.
12

13 **9-29.2 Junction Boxes, Cable Vaults and Pull Boxes**
14

15 Unless otherwise specified, all junction boxes containing illumination and signal control
16 cable shall be Type 1, Standard Duty with alternate 2 locking lid per state standard plan
17 J-40.10-02.
18

19 Unless otherwise specified, all junction boxes containing interconnect cabling shall be
20 Type 2, Standard Duty with alternate 2 locking lid per state standard plan J-40.10-02.
21

22 **9-29.2(4) Cover Markings**

23 *The second paragraph of this section is revised to read:*
24

25 Covers shall be marked or embossed with "LT" for boxes containing illumination circuits.
26 Covers shall be marked or embossed with "TS" for boxes containing traffic signal circuits
27

28 **9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable**

29 *This section is supplemented with the following:*
30

31 Where not otherwise specified, all wiring shall meet standard of the industry for the
32 application employed. Wiring shall be consistent with manufacturers' recommendations
33 and meet all applicable codes.
34

35 **9-29.3(1) Fiber Optic Cable**

36 *This section is supplemented with the following:*
37

38 Unless otherwise specified, all fiber optic trunk communication lines (lines between
39 intersections) shall be 24 count singlemode fiber optic cable. Fiber Optic cables
40 connecting the Fiber Optic Termination Panel in the signal cabinet to the Fiber Optic
41 Splice Closure in the signal communications junction box shall be 6 count singlemode
42 fiber optic cable.

43 *This section is supplemented with the following New Sections:*
44

45 **9-29.3(1)C Fiber Optic Splice Closures**
46

47 Unless otherwise specified, all fiber optic splice closures located in junction boxes shall
48 be AFL LightGuard 150 Sealed Fiber Optic Splice Closures. One AFL LL-2450 Splice
49 Tray shall be provided with each splice closure.
50

1 **9-29.3(1)D Fiber Optic Termination Box**

2
3 Unless otherwise specified, all fiber optic termination boxes located in signal cabinets
4 shall be Fibertronics FOTB-6-12.

5
6 One coupler/adaptor shall be provided and installed in the fiber optic termination box.
7 Coupler shall be a female LC duplex to female LC duplex coupler designed for
8 installation in a standard 12.8mm x 9.3mm adaptor port. Coupler color shall be blue,
9 consistent with singlemode OS2 installations. Coupler shall be installed in the last (right
10 most) adaptor port of the termination box and secured with 2 M2x6mm Philips head
11 screws.

12
13 Two pre-terminated patch cables shall be provided, one 1-foot (0.3m) in length, and one
14 6 feet (2m) in length. Patch cables shall be LC duplex singlemode OS2 9/125 fiber
15 patch cables and rated for indoor/outdoor use. Patch cables shall have a yellow colored
16 3mm diameter jacket, and blue LC duplex connectors, consistent with singlemode OS2
17 installations.

18
19 **9-29.3(2)A Single Conductor**

20
21 **9-29.3(2)A1 Single Conductor Current Carrying**

22 *This section is supplementing with the following:*

23
24 Service connections shall be stranded copper size AWG #6 USE unless otherwise
25 shown in the plans. Black conductor insulation shall be used for the service and the
26 neutral conductor shall be white. Color tape marking shall not be acceptable for the
27 neutral conductor.

28
29 **9-29.3(2)A2 Grounding Electrode Conductor**

30 *This section is supplemented with the following:*

31
32 Grounding electrode conductor shall be minimum #8 AWG unless otherwise shown in
33 the plans. When the ground is pulled through a conduit, the wire shall be insulated.
34 Color tape marking shall not be acceptable for marking the ground.

35
36 **9-29.3(2)A3 Equipment Grounding and Bonding Conductors**

37 *This section is supplemented with the following:*

38
39 Equipment grounding shall be minimum #8 AWG unless otherwise shown in the plans.
40 When the ground is pulled through a conduit, the wire shall be insulated. Color tape
41 marking shall not be acceptable for marking the ground.

42
43 **9-29.3(2)B Multi-Conductor Cable**

44 *This section is supplemented with the following:*

45
46 Two-conductor through 10-conductor unshielded signal control cable, shall have
47 stranded copper conductors, size AWG 14, and shall conform to International Municipal
48 Signal Association (IMSA) signal cable 20-1.

1 **9-29.3(2)F Detector Loop Wire**

2 *This section is revised to read:*

3
4 The loop wire shall be IMSA 51-7, #14 AWG, encased in an orange colored HDPE
5 jacket. Shielded loop lead-in wire shall be #18 stranded tinned-copper, twisted pair, 2
6 conductor cable with polyethylene insulation, conductors cabled, and shall have
7 aluminum-polyester foil-shield furnished in 100% coverage, stranded tinned-copper drain
8 wire and an overall chrome-vinyl jacket.

9
10 **9-29.3(2)I Twisted Pair Communication Cable**

11 *This section is revised to read:*

12
13 The cable for interconnect for underground installation shall be IMSA 40-2 #19 AWG 6
14 twisted pair, shielded, PE outer jacket or IMSA 40-4 #19 AWG 6 twisted pair, figure 8,
15 shielded, PE outer jacket for overhead installation.

16
17 **9-29.4 Messenger Cable, Fittings**

18 *This section is supplemented with the following:*

19
20 Messenger cable shall be 5/16-inch, seven-wire strand messenger cables conforming to
21 ASTM A 475, extra-high strength grade, 11,200 lbs. min. breaking strength, Class B
22 galvanized.

23
24 All guy eye anchor rods shall be double-hub type.

25
26 Weatherheads shall be clamp-on type PVC. Where used for signal or flashing beacon
27 conductors, the center of the wire entrance shall be cut or machined out to a large
28 diameter to accommodate entry of multi-conductors. All edges shall be smoothed to
29 avoid chaffing.

30
31 All miscellaneous nuts, bolts, washers and fittings shall be stainless steel or brass
32 unless otherwise noted.

33
34 All metal line hardware shall be hot-dipped galvanized in conformance with the
35 requirements of ASTM Designation A-153. All eyebolts shall be thimble eye design cast
36 or welded to form a solid eye.

37
38 5-strand, class B galvanized steel, pretwisted guy strand dead ends, high strength cable
39 conforming to ASTM Designation A-475, shall be utilized at all span wire terminations.
40 1/2" rope wire thimbles shall be required where span wire connects to all poles or bull
41 rings, except where thimble eye bolts are used. Span wire shall normally be installed
42 directly pole to pole, unless otherwise directed or specified.

43
44 Strain insulators shall be installed where connecting to wood poles. Where span wire is
45 connected to a steel or concrete pole, insulators shall not be installed. Strain insulators
46 shall be wet process, porcelain, conforming to EEI-NEMA Class 54-2 standards for
47 12,000-pound ultimate strength and shall be installed 9 feet from the pole.

1 **9-29.6 Light and Signal Standards**

2 *This section is supplemented with the following:*

3
4 All light and signal standards shall be fixed base.

5
6 The head of the handhold security bolt shall be flush with the face of plate. The face
7 plate of the handhole shall be flush with pole.

8 **9-29.6(3) Timber Light Standards, Timber Strain Poles, Timber Service Supports**

9 *This section is supplemented with the following:*

10
11 All timber poles shall be Class II unless otherwise specified.

12
13 Mast arms for wood poles shall be "tapered elliptical" or "tapered truss" style, of a size
14 sufficient to be used with a luminaire weight of 48 pounds with an EPA of 1.1 square
15 feet. Arms shall have 2-3/8 inches O.D. x 8-inch long slip fitter for mounting luminaire.

16
17 **9-29.6(5) Foundation Hardware**

18 *This section is supplemented with the following:*

19 All pedestrian pushbutton poles (Type PPB) shall be installed utilizing a Breakaway
20 Base Connection system in conformance with WSDOT standard plan J-20.15-03.
21 Bracket shall be sized to accommodate a standard push button pole with an outside
22 diameter of 3.5-inches. Anchor bolt receivers shall be installed at 2-3/4-inch by 7-15/16
23 inch on center.

24
25 *Section 9-29.6 is supplemented with the following new section:*

26
27 **9-29.11 Control Equipment**

28
29 **9-29.11(2) Photoelectric Controls**

30 *This section is revised to read:*

31
32 The photoelectric control shall be the twistlock type and the light sensitive element shall
33 be a solid state photo diode. The control shall be designed to turn on at 2.6 foot-candles
34 (+/- 20%) and turn off at 2.6 foot-candles (+/- 20%). The lighting control shall not drift by
35 more than 1 per cent over a 10-year period.

36
37 The output control relay shall be electro-mechanical. The time delay for both turn on
38 and turn off shall be a minimum of one second and maximum of 5 seconds. The output
39 relay shall be rated 1000 watts incandescent or 15 amps inductive load. The contacts
40 shall be normally closed.

41
42 The lighting control shall have a built in metal oxide varistor (MOV) rated a minimum of
43 160 joules for lightning and transient protection. The control shall also have secondary
44 zener diode and transient filter. The relay shall be suitable for operation on 240 volt, 60
45 hertz electrical circuits.

46
47 Dimensions shall conform to ANSI specifications for twistlock photocells.

9-29.12 Electrical Splice Materials

9-29.12(1) Illumination Circuit Splices

This section is revised to read:

Splices and taps shall be made with solderless crimp connectors on underground and overhead circuits to securely join the wires both mechanically and electrically. Splices shall be sealed in accordance with 8-20.3(8).

Thermoplastic Electrical Insulating Tape

Electrical tape shall be made by the same manufacturer and compatible with the electrical coating utilized to form a complete system that both insulates and protects the splice. Electrical tape shall be based on polyvinyl chloride (PVC) and/or its copolymers and have a rubber-based, pressure-sensitive adhesive. The tape shall have a voltage rating of 600V (UL510). The tape shall be 7 mils thick, and be UL Listed and marked per UL Standard 510 as "Flame Retardant, Cold and Weather Resistant." The tape shall be resistant to abrasion, moisture, alkalis, acids, corrosion, and varying weather conditions, including ultraviolet exposure. The tape must be applicable at temperatures ranging from 0°F through 100°F (–18°C through 38°C) without loss of physical properties. The tape shall have an operating temperature up to 220°F (105°C). The tape shall be classified for use in outdoor environments. The tape shall be compatible with synthetic cable insulations, jackets and splicing compounds. The tape will remain stable and will not telescope more than 0.1 inches when maintained at temperatures below 120°F (50°C).

Moisture Resistant Electrical Coating

Electrical Coating shall be made by the same manufacturer and compatible with the vinyl electrical tape utilized to form a complete system that both insulates and protects the splice. Electrical Coating shall seal and bond the tape and be suitable for direct burial, direct water immersion, and above ground applications. Electrical coating shall be flexible when dry. Electrical coating shall consist of the solvents Acetone, Methyl Ethyl Ketone and Toluene and shall contain synthetic rubber and resin solids.

9-29.12(2) Traffic Signal Splice Material

This section is revised to read:

Induction loop splices and magnetometer splices shall include an uninsulated barrel-type crimped connector capable of being soldered. The insulating material shall be a heat shrink type meeting requirements of 9-29.

9-29.13 Control Cabinet Assemblies

This section is revised to read:

The Traffic Controller Cabinet Assembly shall be completely wired and tested to Section 5 Terminals and Facilities of the NEMA TS2 Specification, unless modified by these specifications.

Cabinets shall be compatible with both Siemens M50 and M60 series controllers.

1 The following submittals will be required for the review and approval by the City prior to
2 fabrication and wiring:

- 3
- 4 1. Proposed cabinet layout diagram including shelving/rack locations. In addition,
5 detailed diagrams shall be provided for the left side, right side, and back panels.
6 Drawings shall be clearly labeled and dimensioned.
- 7 2. Proposed cabinet wiring diagram shall be submitted for the review and approval
8 by the City. Wiring of cabinets shall not commence prior to City approval of the
9 cabinet wiring plan.

10 All submittal comments shall be incorporated into a final set of prints and each cabinet
11 shall be furnished to three (3) complete sets of cabinet prints. All cabinet wiring, and
12 layout shall come on (1) E1 size sheet, multiple pages shall not be allowed. Upon
13 request (1) CDROM or USB flash drive with AutoCAD v2018 cabinet drawing for the
14 cabinet wiring.

15 16 **9-29.13(1) Traffic Control Cabinets**

17 Each Traffic Controller Cabinet shall meet the following general operating requirements:

- 18 1. The wired cabinet facility shall use the latest technology applicable meeting the
19 requirements identified by these specifications.
- 20 2. The cabinet shall be designed for 16 channel operation using dual load switches.
21 Load switches 1-4 shall be vehicle phases 1-8; load switches 5-6 shall be
22 pedestrian phases 2, 4, 6, 8; load switches 7-8 shall be overlaps A, B, C, & D. All
23 load switches shall be routed through a transfer relay.
- 24 3. The cabinet shall be wired for (32) channels of detection and (4) channels of
25 Opticom™ preemption.
- 26 4. The use of PC boards shall not be allowed except in detector racks and SDLC
27 interface panels. With the exception of detection racks, the use of plug and play
28 modules shall not be allowed
- 29 5. All cabinet 120VAC wires shall be 18AWG or greater, including controller "A" and
30 MMU "A & B" cables.
- 31 6. All welds shall be free from burrs, cracks, blowholes or other irregularities.
- 32 7. The cabinet shall be UL listed.

33 34 **9-29.13(1)A Cabinet Enclosures**

35 All Cabinet enclosures shall meet the following requirements:

- 36 1. Controller cabinets that are not designated in the project plans and specifications
37 as UPS Controller Cabinets shall be sized in accordance with NEMA P44
38 Controller Cabinet standards.
- 39 2. The cabinet shall meet NEMA 3R rating for enclosures.
- 40 3. The cabinet shall be fabricated from 0.125" minimum thickness 5052 H32 ASTM
41 B209 aluminum alloy and be of clean cut design and appearance. The Cabinet
42 shall be supplied with a natural mill finish inside and out, unless otherwise
43 specified.

4. All exterior seams shall be manufactured with a neatly formed continuous weld construction.
5. All external fasteners shall be stainless steel. Interior cabinet welds shall be continuous for all lap and butt welds. Intermittent welds or silicone adhesive shall not be accepted in place of a weld for weather-tight penetrations. Pop rivets shall not be allowed on any external surface.
6. The cabinet shall be designed for mounting on a concrete pad with anchor bolts and typical flanges inside the cabinet. The cabinet base shall have continuously welded interior mounting reinforcement plates with the same anchor bolt-hole pattern as the footprint dimensions.
7. Unless otherwise approved by the Engineer, there shall be a minimum ten (10) inch vertical clearance above the front half portion of the base area to provide a clearance for conduit and cable entering the cabinet.
8. The cabinet shall be double-flanged where it contacts cabinet doors.
9. The top of the cabinet shall be sloped down 1" towards the rear to facilitate water runoff. The roof shall be sloped at a 90° angle at the front of the cabinet. Lesser slope angles are not allowed.
10. The cabinet shall be equipped with "C" channel rails welded to the interior of the cabinet such that panels may be mounted to the interior of the cabinet without drilling through the outer cabinet. The "C" channel rails shall be sufficient in strength to accommodate planned and reasonably anticipated future equipment needs. At a minimum, the cabinet shall have (2) welded on the back wall, and (4) welded on each side wall with (2) pairs on 8-inch centers. The side and back wall C channel rails shall run the entire usable height of the cabinet walls. Adjustable rails are not allowed.
11. The cabinet shall come with lifting ears affixed to the upper exterior of the cabinet. The lifting ears shall utilize only one bolt such that the ears can be reoriented.

9-29.13(1)A1 Cabinet Enclosures for UPS Systems

Controller cabinets that are designated in the project plans and specifications as UPS Controller Cabinets shall be 70" high x 44" width x 25.5" depth (nominal dimensions) and meet the footprint dimensions as specified in Section 7.3, table 7-1 of NEMA TS2 standards for a Type P cabinet.

UPS Controller Cabinet enclosures shall meet all applicable requirements of Section 9-29.13(1)A and shall meet the following additional requirements:

1. The controller cabinet shall have (2) separate compartments. A Main compartment and a Battery Backup System (BBS) compartment.
2. The main compartment shall be accessible from the front door and shall house the cabinet load facilities and electronics. The Battery Backup System (BBS) compartment shall be accessible from the side door and shall contain the UPS system batteries.
3. The cabinet shall be designed such that when the UPS system inverter and ATS assembly are mounted in the BBS compartment, they shall be fully accessible when the front door is open.

1 **9-29.13(1)B Cabinet Doors and Locks**

2 Cabinet Doors and Locks shall conform to the following:

- 3 1. A hinged door shall be provided on the front of the cabinet permitting complete
4 access to the cabinet and the equipment to be contained therein.
- 5 2. Cabinet doors shall be mounted with single continuous stainless steel piano
6 hinges that run the length of the door. The hinges shall be attached via stainless
7 steel tamper resistant bolts.
- 8 3. Closed-cell, neoprene gaskets shall be bonded to the inside of cabinet doors.
9 The gaskets shall cover all areas where the doors contact the double flanged
10 cabinet housing exterior and be thick enough to provide a watertight seal.
- 11 4. Bearing rollers shall be applied to ends of door latches to discourage metal-on-
12 metal surfaces from rubbing.
- 13 5. All lock assemblies shall be positioned such that the door handle does not cause
14 interference with the key when opening the door.
- 15 6. A complete set of keys shall be supplied providing access to all doors, including
16 the front cabinet door, the cabinet side door (where applicable), the police door
17 and the generator receptacle door.

18 The front cabinet door shall meet the following additional requirements:

- 19 1. The front door of the cabinet shall be equipped with a universal lock bracket.
20 The lock core shall be a green construction core as noted in section 9-29.25.
- 21 2. A stiffener plate shall be welded to the inside of the front door to prevent flexing.
- 22 3. The front door shall have a two-position, three-point door stop that
23 accommodates open-angles at 90°, 125°, and 150°.
- 24 4. The front door handle shall be ¾" round stock stainless steel bar. Door handle
25 mechanisms shall be interchangeable and field replaceable.

26 A side door on UPS Controller Cabinets shall be provided for accessing the BBS
27 compartment. The cabinet side door shall meet the following additional requirements:

- 28 1. The side door shall be one piece construction without any recessed
29 compartments.
- 30 2. The side door shall have a three-position, two-point door stop that
31 accommodates open-angles at roughly 80°, 100°, and 120°.
- 32 3. The side door shall use a recessed hexagonal socket in lieu of a door handle.

33 **9-29.13(1)C Recessed Compartments**

34 The front door shall contain (2) flush mount locking recessed compartments. The upper
35 compartment shall house a police door and the lower compartment shall house a
36 generator bypass receptacle.

- 37 1. The welds for the police compartment and the generator receptacle compartment
38 shall be done on the outside of the front door.
- 39 2. The police door compartment shall come with a conventional police lock.

3. The generator bypass receptacle compartment shall have an integrated door slide mechanism that allows the door to be closed and locked after a generator has been connected to the internal receptacle.
4. The generator bypass receptacle compartment shall be equipped with a universal lock bracket. The lock core shall be a Green construction core as noted in section 9-29.25.
5. The locking generator bypass compartment will be used to connect a generator for operating the cabinet during loss of service line power. The generator compartment shall be capable of being closed and locked while a generator is connected. The mechanism for allowing generator cable access, while the compartment is closed, shall be an integral part of the generator bypass door, via a sliding panel that will normally be in the closed position.

9-29.13(1)D Cabinet Ventilation

Cabinet ventilation shall be provided as follows:

1. A louvered air entrance shall be located at the bottom of the front cabinet door.
2. For UPS Cabinets, a louvered air entrance shall also be provided at the bottom of the side cabinet door.
3. Louvered air entrances shall satisfy NEMA rod entry test requirements for 3R ventilated enclosures. The baffle panel that holds the fan assemblies shall be sealed on the interior of the cabinet.
4. The cabinet shall come with (2) three-stage, multi-ply progressive density polyester, disposable air filter; and the filter performance shall conform to listed UL 900 Class 2 and shall conform to ASHRAE Standard 52.1. The filter shall be secured to entrance on main door by two (2) horizontally-mounted restraints.
5. The cabinet shall be provided with two (2) finger safe fans mounted on the right and left sides of the cabinet plenum, and shall be thermostatically controlled. Fans shall have a rating of 100 CFM and the thermostat setting to allow variable turn-on between 90 degrees and 140 degrees Fahrenheit. The fan motor shall use ball-bearings. This unit shall be fitted with an electrical noise suppressor. The safe touch thermostat and power terminal block(s) shall be din rail mounted on the cabinet plenum.

9-29.13(1)E Cabinet Shelving

Cabinet Shelving shall be provided as follows:

1. The cabinet shall have two (2) aluminum 0.75-inch shelves that span the width of the cabinet. Shelves shall be double beveled 10" deep and reinforced with welded V channel, fabricated from 5052-H32 0.125-inch thick aluminum with double flanged edges rolled front to back. Slotted holes shall be inserted every 7" for the purpose of tying off wire bundles.
2. A slide-out computer shelf 16" length by 12" width by 2" depth shall be installed underneath the bottom equipment shelf. The shelf shall be mounted just left of center so that controller cables will not interfere with the operation of the shelf when equipment is installed. The computer shelf shall have a hinged cover that opens from the front and shall be powder-coated black. The computer shelf shall be fully retractable under the bottom equipment shelf. When fully extended, the

- 1 computer shelf shall hold a minimum of 50lbs and shall automatically secure in
2 place, mechanically, with a tool-less release mechanism.
- 3 3. For UPS Controller Cabinets, the BBS compartment shall come with (1) 14.25" x
4 7.75" flanged shelf designed to hold the batteries. In the UPS configuration, the
5 main cabinet shall come with a third shelf that runs the entire width of the cabinet
6 above the BBS compartment.
- 7 4. The cabinet shall have one (1) aluminum 0.75 inch shelf measuring 20.90 inches
8 wide by 10.75 inches deep next to the load bay and mounted 9.25 inches from
9 the bottom of the cabinet. Shelf shall be double beveled and reinforced with
10 welded V channel, fabricated from 5052-H32 0.125-thick aluminum with double
11 flanged edges rolled from front to back.

12 13 **9-29.13(2) Wiring**

14 All wiring within the cabinet shall be neat and firm. All cabinet wire shall be amply rated
15 for the function intended and shall include the use of terminal and suitable identification
16 labels.

17
18 Connectors and harnesses shall be provided as defined in the latest NEMA TS 2
19 standard. Connector A & B shall be supplied for the monitor unit. In addition, the
20 cabinet shall be wired with a standard 55-pin NEMA TS 1 Connector A.

21
22 Wire for harnesses shall conform to MIL-W-16878E Type B, and shall be rated to
23 600 volt, 105 degree Celsius. Wire shall be 22 gage, 19 strand. Wires shall be
24 connected to the heads in the form of crimp-pinned connections. Solder lugs shall
25 not be allowed. Connectors shall conform to MIL-C-26482 Series 1. Cables shall be
26 covered with nylon expandable sleeving. Spiral wrap shall not be used. Termination
27 points of the harnesses shall be accessible to the technician without requiring the
28 back panel to be dropped. Unused harness wires shall be tied to the furthest location
29 on the front of the back panel and shall be capped off.

30
31 Wires other than harnesses for the monitor and controller shall be THHN, rated at
32 600 volt, 105 degree Celsius, and shall be a minimum of 22 AWG.

33
34 Non insulated connectors shall be utilized for all connections to the Detector Input
35 Terminal Strip.

36 37 **9-29.13(3) Electrical Design**

38 39 **9-29.13(3)A Load Bay**

40 The design of the load-bay shall conform to NEMA TS2 Section 5, Terminals and
41 Facilities, unless modified herein. The load bay shall be the termination point for the
42 controller unit (CU) CU 55-pin TS1 MSA cable, the (MMU) MSA & B cables, bus
43 interface units (BIU) 1 and 2, and field terminal facilities. The terminal facilities layout
44 shall be arranged in a manner that allows all equipment in the cabinet and all screw
45 terminals to be readily accessible by maintenance personnel.

46
47 The load bay shall be fully wired and meet the following requirements:

- 48 1. The load bay assembly shall be constructed of smooth finished aluminum,
49 with a minimum nominal thickness of 0.125 inches (1/8 inch). The dimensions

- 1 shall not exceed a maximum height of 16 inches and a maximum width of 18
2 inches including wiring bundles. The load bay assembly shall be mounted
3 between 7-inches and 9-inches above the bottom of the cabinet.
- 4 2. The load bay assembly (panel) shall be hinged and capable of folding down
5 to allow full access to all back-panel wiring. All solder terminals shall be
6 accessible when the load bay is rolled down. The assembly shall be able to
7 roll down without requiring other components, cables, or switches to be
8 removed. The panel shall be constructed, and wiring shall have sufficient
9 slack, such that folding down the back panel shall not interfere with the
10 operation of the traffic signal while in service.
- 11 (1) All wire shall enter the lower edge of the panel to facilitate folding
12 down back panel. The controller (CU) and malfunction management
13 (MMU) cables shall be routed through the back of the load-bay so that
14 they will not be subject to damage during load-bay roll down.
- 15 (2) The load bay shall be designed so that all other cabinet screw
16 terminals are accessible without removing cabinet electronics.
- 17 (3) The panel shall be able to be fully secured when in its upright position.
- 18 (4) The top of the load-bay panel shall attach directly to "C" channel and
19 detach without the use of tools or hardware for roll down purposes.
- 20 (5) The load bay shall be balanced such that it will not roll down when the
21 top of the load bay is detached from the "C" channel, even when fully
22 loaded with BIU's, load switches, flasher, and flash transfer relays.
- 23 3. The load-bay facility shall be wired for 16 channels.
- 24 (1) Load switch(s) 1-4 shall be vehicle phases 1-8
- 25 (2) Load switch(s) 5 & 6 shall be pedestrian phases 2, 4, 6, & 8
- 26 (3) Load switches 7 & 8 shall be overlaps A, B, C & D
- 27 (4) Load switches 1-4 & 7-8 shall be routed through a flash transfer relay.
- 28 4. The following sockets will be provided:
- 29 (1) Minimum eight (8) dual load switch sockets spaced 1.25 inches on
30 center.
- 31 (2) Eight (8) flash transfer relay sockets designed to utilize high density
32 flash transfer relays.
- 33 (3) One (1) dual flasher socket.
- 34 5. Load Resistors shall be provided on a back right side panel. See section 9-
35 29.13(3)B for more information.
- 36 6. All load switches and flasher shall be supported by a bracket extending at
37 least ½ the length of the load switch.
- 38 7. Controller Unit (CU) Wiring: Wiring the 55-pin TS1 MSA cable shall be
39 soldered to backside of a load bay screw-type terminal strip. All controller
40 pins functions shall be terminated.

- 1 8. Wiring for one (1) Type-16 MMU A & B shall be soldered to backside of a
2 screw type terminal strip. Any used MMU functions shall be accessible from
3 a screw terminal.
- 4 9. Two (2) bus interface rack slots for BIU's 1 and 2 shall be part of the main
5 panel. The main panel BIU rack shall be located in the top left corner of the
6 load-bay placed horizontally and shall accommodate half width BIU's.
- 7 10. BIU wire connections to the PCB shall be via two (2) 34 pin connectors.
8 These connections shall have locking latches. BIU wires shall be soldered to
9 the backside of a screw terminal. The load-bay shall have one (1) 120VAC
10 relay socket.
- 11 11. The load bay shall have one (1) relay that drops the +24VDC to load switches
12 when the cabinet is in flash.
- 13 12. The load-bay shall be silkscreened on both sides. Silkscreen shall be
14 numbers and functions on the front side, and numbers only on the back side.
15 The back side shall have label oriented so that labels are upright when the
16 load bay is rolled down.
- 17 13. The field terminals shall be as follows:
18 Red: 1R, 2R, 3R, 4R, 5R, 6R, 7R, 8R, 2DW, 4DW, 6DW, 8DW, AR, BR, CR, DR
19 Yellow: 1Y, 2Y, 3Y, 4Y, 5Y, 6Y, 7Y, 8Y, 2CL, 4CL, 6CL, 8CL, AY, BY, CY, DY
20 Green: 1G, 2G, 3G, 4G, 5G, 6G, 7G, 8G, 2W, 4W, 6W, 8W, AG, BG, CG, DG
21
- 22 14. Field wiring terminations shall be per channel across the bottom of the load-
23 bay. Each channel shall have 3 terminations corresponding to the appropriate
24 phase Green/walk, Yellow/Ped clearance and Red/Don't Walk. Default wiring
25 shall be left to right vehicle phases 1-8, pedestrian phases 2, 4, 6, 8 and
26 overlap channels A, B, C, and D following the order of the load switches.
27 Field terminals shall be #10 screw terminal and be rated for 600V.
- 28 15. The cabinet shall be wired to flash for all channels. Flashing operation shall
29 alternate between the flasher circuits 1 and 3 (channels 1, 3, 5, 7, 9, 11, 13, &
30 15) and circuits 2 and 4 (channels 2, 4, 6, 8, 10, 12, 14, & 16). Changing a
31 channel from one circuit from one channel to another shall be possible
32 through the front of the load bay without tools.
- 33 16. Flash programming shall be either red, yellow, or no flash by changing the
34 programmed connector on the front of the load bay. The cabinet shall be
35 supplied with overlaps phases programmed to red flash and pedestrian
36 phases programmed to no flash.
- 37 17. The intersection shall be capable of being placed in flashing operation by the
38 conflict monitor, remote input, internal controller time clock and door switch.
39 Remote and internal controller time clock flash shall be in accordance with
40 MUTCD flash. Conflict flash shall be all-red.
- 41 18. All spare circuits shall be wired and terminated on a terminal strip and shown
42 on the wiring diagram.
- 43 19. All cable wires shall be terminated. No tie-off of unused terminals will be
44 allowed.
- 45 All wiring shall conform to NEMA TS2 Section 5.2.5 Table 5-1. Conductors shall conform
46 to military specification MIL-W-16878E, electrical insulated high heat wire, type B.

1 Conductors #14 or larger shall be permitted to be UL type THHN. Main Panel wiring
2 shall conform to the following colors and minimum wire sizes:

3	Vehicle green load switch output	16 gauge brown
4	Vehicle yellow load switch output	16 gauge yellow
5	Vehicle red load switch output	16 gauge red
6	Pedestrian Clearance load switch	16 gauge yellow
7		
8	Vehicle green load switch input	22 gauge brown
9	Vehicle yellow load switch input	22 gauge yellow
10	Vehicle red load switch input	22 gauge red
11	Pedestrian Clearance input	22 gauge yellow
12		
13	Logic Ground	18 gauge white with red tracer
14	+24V DC	18 gauge red with white tracer
15	+12V DC	18 gauge pink
16	AC+ Line	14 gauge black
17	AC- Line	14 gauge white
18	Earth Ground	16 gauge green
19	AC line (load bay)	16 gauge black
20	AC neutral (load bay)	16 gauge white
21		
22	Controller A Cables – AC+	18 gauge black
23	Controller A Cables – AC-	18 gauge white
24	Controller A Cables – Earth Ground	18 gauge green
25	Controller A Cables – All other cables	22 gauge blue
26		
27	MMU A & B Cables – AC+	18 gauge black
28	MMU A & B Cables – AC-	18 gauge white
29	MMU A & B Cables – Earth Ground	18 gauge green
30	MMU A & B Cables – Start Delay Relay	
31	Common	18 gauge black
32	Normally Open	18 gauge black
33	Normally Closed	18 gauge black
34	MMU A & B Cables – All other cables	22 gauge orange

35
36 Two (2) conductors will supply alternating current (AC) power to the load switch sockets.
37 The load switch sockets shall be supplied 1-4 and 5-8 by each conductor.
38

39 The field terminal blocks shall have a screw Type No. 10 post capable of accepting no
40 less than 3 No. 12 AWG wires fitted with spade connectors. Four (4) 12-position terminal
41 blocks shall be provided in a single row across the bottom of the main panel. Spade lugs
42 from internal cabinet wiring are not allowed on field terminal screws.
43

44 There shall be a plug-in bridge with (16) 3 position panel mount sockets and (16) two
45 position plugs with screw terminals located below the flash transfer relays. These
46 connections shall operate the flash programming between flash circuit 1 & 3 or 2 & 4. It
47 shall be changeable from the front of the load-bay.
48
49
50

1 All load switches, flasher, and flash transfer relay sockets shall be marked and mounted
2 with screws. Rivets and clip-mounting is unacceptable.

3
4 The power terminal blocks shall have a screw Type No. 10 post capable of accepting no
5 less than 3 No. 12 AWG wires fitted with spade connectors. One (1) 12-position terminal
6 blocks shall be provided vertically on the right side of the load bay. The placement of the
7 power terminal block on any other panel shall not be allowed.

8
9 Wire size 16 AWG or smaller at solder joints shall be hooked or looped around the
10 eyelet or terminal block post prior to soldering to ensure circuit integrity. All wires shall
11 have lugs or terminal fittings when not soldered. Lap joint/tack on soldering is not
12 acceptable. All soldered connections shall be made with 60/40 solder and non-corrosive,
13 non-conductive flux. All wiring shall be run neatly and shall use mechanical clamps and
14 conductors shall not be spliced between terminations. Cables shall be sleeved in
15 braided nylon mesh and wires shall not be exposed.

16
17 All wires terminated behind the main panel or on the back side of other panels shall be
18 SOLDERED. No pressure or solder-less connectors shall be used. Printed circuit boards
19 shall not be allowed.

20 21 **9-29.13(3)B Side Panels**

22 Side panels shall be mounted on "C" channels as specified herein. All panels shall be
23 smooth finished aluminum sufficient in size and thickness for the intended purpose and
24 anticipated equipment required. Side panels shall be no smaller than 16 gauge and no
25 larger than 12 gauge. Side panels shall be mounted no closer than 13" from the rear of
26 the cabinet and no closer than 2" from bottom of cabinet.

27
28 The Back Left (BKLT) side panel(s) shall contain the following:

- 29 1. BKLT/PSIP – Power Supply Interface Panel
 - 30 a. 12-position, double row, high barrier block with #8/32 slotted brass
31 screws
 - 32 b. See Section 9-29.13(3)B1 for additional requirements
- 33 2. BKLT/SDLC – SDLC Interface Panel
 - 34 a. 12-port SDLC terminal
 - 35 b. See Section 9-29.13(3)B2 for additional requirements
- 36 3. Additional blank panels are not required for vacant space in the back left of
37 the cabinet.

38
39 The Front Left (FRLT) side panel(s) shall contain the following:

- 40 1. FRLT/VDIP – Video Detection Interface Panel
 - 41 a. See Section 9-29.13(3)B3 for requirements
- 42 2. FRLT/DP – Detection Panel
 - 43 a. Vehicle Detection: 64-position, double row, din mounted, screw type
44 terminal block.
 - 45 b. Emergency Vehicle Preemption: 12-position, double row, din
46 mounted, screw type terminal block
 - 47 c. Pedestrian Detection: 8-position, double row, high barrier block with
48 #8/32 slotted brass screws
 - 49 d. Pedestrian Returns: Two (2) 8-position, single row, high barrier block,
50 with #8/32 slotted brass screws

- e. Isolated Neutral Buss: 24-position, standard copper grounding buss bar suitable for #14 through #4 cu.
 - f. Ground Buss: 16-position (minimum), standard copper grounding buss bar suitable for #14 through #4 cu.
 - g. See Section 9-29.13(3)B4 for additional requirements
3. Blank aluminum spare panels shall be installed in the available space on the front left side of the cabinet.

The Back Right (BKRT) side panel(s) shall contain the following:

1. BKRT/PS - Power strip convenience outlets as identified by these specifications. Reference 9-29.13(3)C and 9-29.13(3)B5.
2. BKRT/SLP – Supplemental Load Panel
 - a. Din-Mounted thirty-two (32) position disconnect screw type terminal block.
 - b. Thirty-two (32) 2k-OHM, 12 watt resistors wired to back panel.
 - c. See section 9-29.13(3)B8 for more information.
3. Additional blank panels are not required for vacant space in the back right side of the cabinet.

The Front Right (FRRT) side panel(s) shall contain the following:

1. FRRT/PP - Power Panel
 - a. See Section 9-29.13(3)B5 for additional requirements
2. FRRT/CIP - Communication Interface Panel
 - a. See Section 9-29.13(3)B6 for additional requirements
3. FRRT/Generator Panel
 - a. See section 9-29.13(3)B7
4. Blank aluminum spare panels shall be installed in the available space on the front right side of the cabinet.

9-29.13(3)B1 Power Supply Interface Panel

The power supply interface panel shall be mounted on the upper back left wall of the cabinet above the top shelf. The power supply interface panel shall include terminations for all the cabinet power supply inputs and outputs. It shall have a protective plastic cover.

9-29.13(3)B2 SDLC Interface Panel

All SDLC cables shall be terminated on both ends, securely terminated to the SDLC interface panel with screw type connection and professionally routed in the cabinet interior to easily reach the controller, malfunction management unit, BIUs. All SDLC connectors shall be fully populated with 15 pins each. SDLC cables shall be tie wrapped in a neat and orderly way.

9-29.13(3)B3 Video Detection Interface Panel

The video detection interface panel shall be the single point interface for video power and coax cabling. The panel shall have (6) individual 1 amp circuit breakers so that individual cameras can be replaced in the field without disrupting the entire video detection system, a (10) position terminal block with #8/32 screws to provide termination for 120VAC and camera 120AC line and 8-position copper neutral and ground buss bars with raised slotted & torque style screws. The AC terminal block shall be covered with a Plexiglas cover.

1 A coax surge arrestor shall be installed for each coax based video detection camera
2 identified in the project plans and specifications. The coax surge arrestor shall meet or
3 exceed the manufacturer's recommendations for the cameras installed. Surge arrestors
4 are not required to be installed in the cabinet when a coax based detection system is not
5 identified in the plans and specifications.

6 7 **9-29.13(3)B4 Detection Panel**

8 The detection panel shall be mounted on the left side of the main cabinet compartment
9 below the bottom shelf. The detection panel shall support (32) channels of vehicle
10 detection, (4) channels of emergency vehicle preemption, (4) channels of pedestrian
11 detection with (2) terminal screws per channel and (8) pedestrian returns on a single
12 panel. The pedestrian call terminal block shall be (2) single row terminals. They shall be
13 connected by removable buss bars. The loop wires shall be a 22AWG twisted pair. One
14 of the twisted pair wires of all colors shall have a white tracer and land on the second
15 position terminal of each loop. The emergency preempt wires shall be color coded as
16 follows. +24VDC orange, preempt inputs yellow and ground blue. The auxiliary vehicle
17 preemption shall be white with a yellow tracer. All wiring for the detection panel shall
18 enter the terminal block from the left and provide sufficient room to close the cabinet
19 door.

20
21 The panel shall also include a (24) position solid copper neutral buss bar with with raised
22 slotted & torque style screws and a (16) position minimum solid copper ground buss bar
23 with raised slotted & torque style screws. They shall be mounted vertically at the bottom
24 of the panel.

25 26 **9-29.13(3)B5 Power Panel**

27 The power panel shall handle all the power distribution and protection for the cabinet
28 and shall be mounted in the bottom right side of the cabinet. All equipment shall be
29 mounted on an appropriately sized silkscreened aluminum panel and include at a
30 minimum the following equipment:

- 31 1. A 30-amp main breaker shall be supplied. This breaker shall supply power to
32 the load bay, load switches, controller, MMU, power supply, detector racks,
33 power strip and auxiliary panels. Breaker shall be din rail mounted.
- 34 2. A 15-amp auxiliary breaker shall supply power to the fan, cabinet lights and
35 GFI. Breaker shall be din rail mounted.
- 36 3. The surge protection device (SPD) shall consist of a modular surge protector
37 for the AC line, another modular surge protector for the AC neutral and ground.
38 There shall also be a radio interference suppressor (RIS). All units shall meet
39 the following requirements.
 - 40 a. Devices shall be Open Type 1 UL Listed 1449 4th Edition.
 - 41 b. The surge components are all Din-Rail mountable.
 - 42 c. If a failure is to occur the components are hot swappable
 - 43 d. An indicator flag will show that the component has failed. No more
44 guessing or testing.
 - 45 e. The Surge component has a contact closure that can notify you if a
46 failure occurs on the unit.
 - 47 f. No bolts or wires to remove to replace the unit.
 - 48 g. The unit is Safe Touch. No need for a plastic protective cover.
- 49 4. A normally open, solid state relay rated for 50-amp minimum for the load
50 switch power. (No Mercury Contactors shall be allowed.)

- 1 5. One see-through Plexiglas cover to protect maintenance personnel from AC
- 2 line voltages.
- 3 6. One (1) 19-position standard solid copper neutral buss bars with raised
- 4 slotted & torque style screw heads suitable for #14 through #4 cu.
- 5 7. Two (2) 19-position, standard solid copper ground buss bars with raised
- 6 slotted & torque style screw heads suitable for #14 through #4 cu.
- 7 8. Line side AC Power Terminal, 3-position, double row. Power Terminal shall
- 8 be a dead-front type rated at a minimum of 300V, 50 amp and suitable for #6
- 9 cu.
- 10 9. The neutral buss bar, the ground buss bars, and the line side power terminal
- 11 shall be installed at the bottom of the power panel. The buss bars shall be
- 12 installed horizontally and the terminal shall be installed with the same
- 13 orientation such that the wires coming into the cabinet can be easily
- 14 connected from the bottom of the cabinet. The power terminal shall be
- 15 installed to the right of the ground and neutral bus bars.

16
17 All circuit breakers shall be Square D, Siemens, GE, Eaton/Cutler Hammer, or Engineer
18 approved equal.

19 20 **9-29.13(3)B6 Communication Interface Panel**

21 There shall be (2) 12-position, double row, high barrier terminal blocks, with #6/32
22 slotted brass screws on the left bottom side of the spare panel on the right side wall of
23 the cabinet. The Communication Interface Panel height shall be from the top of the
24 Power Panel to the top of the "C" Channel.

25 26 **9-29.13(3)B7 Generator Panel**

27 There shall be a Line side AC Power Terminal, 3-position, double row. Power Terminal
28 shall be a dead-front type rated at a minimum of 300V, 50 amp and suitable for #6 cu.
29 The AC power terminal shall be covered with a **see-through Plexiglas** cover to protect
30 maintenance personnel from AC line voltages. The Generator Panel shall be mounted
31 directly below the Power Panel.

32 33 **9-29.13(3)B8 Supplemental Load Panel**

34 There shall be a supplemental load panel with din mounted disconnect screw type
35 terminal block and resistors. The disconnect terminal shall be wired to the green and
36 yellow outputs for each phase and allow current through the resistor when the circuit is
37 completed.

38 39 **9-29.13(3)B9 Fiberoptic Termination Box**

40 The cabinet shall come with a wall mounted fiber optic termination panel as defined by
41 section 9-29.3(1)D of these provisions.

42 43 **9-29.13(3)C Convenience Outlets**

44 The cabinet shall be wired with (1) 120 VAC convenience outlet with a ground fault
45 interrupter (GFI) and (1) 120 VAC power strip without ground fault interrupters. The
46 ground fault outlet (GFI) shall be mounted on the right side of the main compartment on
47 or near the power panel. The power strip shall be near the top shelf of the main
48 compartment in the upper left corner of the cabinet and the wiring shall be neatly
49 secured. No outlets shall be mounted on the door. The non-GFI power strip shall be on
50 a separate circuit from the GFI outlet, and provide a minimum of six (6) outlets. The

power strip shall be fed through the transient voltage suppressor located on the cabinet power panel.

9-29.13(3)D Cabinet Illumination

Two LED light strips shall be provided for cabinet illumination. One shall be mounted to the top front of the cabinet interior, and shall be rated at a minimum of 475 lumens. A second LED light to illuminate the load bay area and shall be mounted below the rollout drawer (computer shelf), and shall be rated at a minimum of 240 lumens. The light shall be attached so that it remains stationary when the drawer is extended. A door switch shall be wired so as to allow both lights to operate only when the door is open.

9-29.13(3)E Generator Bypass Compartment and Cable

Inside the generator compartment there shall be a silkscreened panel housing:

1. 30A / 125V flanged inlet receptacle capable of accepting a standard 30 amp generator plug. The receptacle shall be appropriate for an extra heavy duty industrial application meeting the following requirements:
 - a. Backwired terminations for ease of installation
 - b. NEMA L5-30P
 - c. Listed to UL 498
 - d. Fed Spec: W-C-596
 - e. Certified to CSA C22.2 No. 42
 - f. Housing/Flange: Nylon
 - g. Terminal Retainer: Clear Polycarbonate
 - h. Blades: Brass
 - i. Terminal Screws: #10-32 Brass (Phillips / Slotted / Robertson)
 - j. Terminal Clamp: Cold Rolled Steel – nickel plated
 - k. Assembly Screws: Steel - nickel plated
 - l. Mounting Screw: Nickel plated brass
 - m. Electrical: Current Interrupting Certified for current interrupting at full rated current
 - n. Dielectric Voltage: Withstands 2,000V minimum
 - o. Mechanical: Cord Grip Accomodation #16 AWG - #8 AWG solid or stranded copper wire only.
 - p. Terminal Identification: In accordance with UL 498
 - q. Flammability: HB or better per UL94/CSA 22.2 No.0.17
 - r. Moisture Resistance: IP20 Suitability
 - s. Operating Temperatures: Maximum Continuous 75°C. Minimum - 40°C (w/o impact)
2. A 50A, 2 pole, 4 contact cam switch with split 120VAC line and neutral feeds. The switch shall be a break before make type.
3. (2) LED lamps with sockets. One LED shall be illuminated when the cabinet has service line power available and the other when the cabinet has generator power available. All LED's shall be field replaceable without putting the intersection in flash and shall carry a 5 year manufacturer warranty.

All wiring to the generator bypass compartment shall be contained in a single cable bundle. The cable shall connect to the backside of the electrical components and shall only be accessible from the inside of the cabinet front door. All electrical components on the inside of the front door that carry AC voltage shall be covered by a see-through plexi-glass cover. The generator bypass cable shall terminate at the same power panel location as service line voltage.

1 **9-29.13(3)F Police Panel**

2 Behind the police panel door there shall be switches for use by emergency personnel.
3 The wiring for these switches shall be accessible when the auxiliary panel is open.

4
5 The following switches shall be included:

- 6 1. **Flash Switch:** There shall be a switch for the police that puts the cabinet into
7 flashing operations. The switch shall have two positions, "Auto" (up) and "Flash"
8 (down). The "Auto" position shall allow normal signal operation. The "Flash"
9 position shall immediately cause all signal displays to flash as programmed for
10 emergency flash and apply stop time to the controller. When the police flash
11 switch is returned to "Auto", the controller shall restart except when the MMU has
12 commanded flash operation. The effect shall be to disable the police panel switch
13 when the MMU has detected a malfunction and all controller and MMU
14 indications shall be available to the technician regardless of the position of the
15 police flash switch. The switch shall be a general-purpose bat style toggle switch
16 with 0.688-inch long bat.
- 17 2. **Signals On/Off Switch:** There shall be a switch that renders the field signal
18 displays electrically dead while maintaining controller operation for purpose of
19 monitoring controller operations. The switch shall be a general-purpose bat style
20 toggle switch with 0.688-inch long bat.

21
22 **9-29.13(3)G Auxiliary Switch Panel**

23 The cabinet shall include an auxiliary switch panel mounted to the interior side of the
24 police panel compartment on the cabinet front door. The panel shall be secured to the
25 police panel compartment by (2) Philips head screws and shall be hinged at the bottom
26 to allow access to the soldered side of the switches. Both sides of the panel shall be
27 silkscreened. All of the switches shall be protected by a hinged see-through Plexiglas
28 cover.

29
30 The following switches shall be included:

- 31 1. **Controller ON/OFF Switch:** There shall be a switch that renders the controller
32 and load-switching devices electrically dead while maintaining flashing
33 operations for purpose of changing the controller or load-switching devices. The
34 switch shall be a general-purpose bat style toggle switch with 0.688-inch long
35 bat.
- 36 2. **Signals ON/OFF Switch:** There shall be a switch that renders the field signal
37 displays electrically dead while maintaining controller operation for purpose of
38 monitoring controller operations. The switch shall be a general-purpose bat style
39 toggle switch with 0.688-inch long bat.
- 40 3. **Stop Time Switch:** There shall be a 3-position switch labeled "Normal" (up),
41 "Off" (center), and "On" (down). With the switch in the "Normal" position, a stop
42 timing command shall be applied to the controller by the police flash switch or the
43 MMU (Malfunction Management Unit). When the switch is in its "Off" position,
44 stop timing commands shall be removed from the controller. The "On" position
45 shall cause the controller to stop time. The switch shall be a general-purpose bat
46 style toggle switch with 0.688-inch long bat.
- 47 4. **Technician Flash Switch:** There shall be a switch that places the field signal
48 displays in flashing operation while the controller continues to operate. This flash

1 shall have no effect on the operation of the controller or MMU. The switch shall
2 be a general-purpose bat style toggle switch with 0.688-inch long bat.

3 5. **Light Switch:** There shall be a switch that turns cabinet lighting off with the main
4 door open. The switch shall be a general-purpose bat style toggle switch with
5 0.688-inch long bat.
6

7 **9-29.13(4) Auxiliary Equipment**

8

9 **9-29.13(4)A Traffic Signal Controller**

10 Traffic Signal Controller shall be a Siemens Controller, EPAC M62 with an ATC
11 Communications Module. The CPU operating system shall be Linux. The Contractor
12 shall contact the City of Tacoma Traffic Signal Shop at 253-491-5287 to obtain the
13 current firmware version to be utilized.
14

15 Siemens M62 traffic signal controllers operating a Pedestrian Hybrid Beacon (HAWK
16 Signal), must be configured by the manufacturer for operation of a pedestrian hybrid
17 beacon. The contractor/vendor shall configure and test the operation of the controller
18 and malfunction management unit prior to delivery to the City of Tacoma Signal Shop.
19

20 **9-29.13(4)B Malfunction Management Unit (MMU)**

21 The cabinet shall come with a Malfunction Management Unit (MMU). The cabinet shall
22 come with a (MMU) that meets all the requirements of NEMA TS2-2003 while remaining
23 downward compatible with NEMA TS1. It shall have (2) high contrast LCD displays and
24 an internal diagnostic wizard. It shall come with a 10/100 Ethernet port. It shall come
25 with software to run flashing yellow arrow operation. The MMU shall be an Eberle
26 Design, Inc. (EDI) model MMU2-16LEip. Contractor shall provide a compatible TS2
27 program card onboard memory.
28

29 MMUs monitoring a Pedestrian Hybrid Beacon (HAWK Signal), must be configured by
30 the manufacturer specifically for the monitoring and operation of a pedestrian hybrid
31 beacon. The contractor/vendor shall configure and test the operation of the controller
32 and malfunction management unit prior to delivery to the City of Tacoma Signal Shop.
33

34 **9-29.13(4)C Load Switches**

35 The cabinet shall be provided with eight (8) dual channel load switches. All load
36 switches shall be solid state circuit board type with a 2-piece aluminum case. Separate
37 LED indications shall be provided for the input and output side of the loads for each
38 channel. The load switches shall be Wester Systems model SSS-216.
39

40 **9-29.13(4)D Flasher**

41 The Cabinet shall come with one (1) dual channel flasher. The flasher shall be solid
42 state circuit board type with a two-piece aluminum case. LED indications shall be
43 provided for both channels. The flasher shall be Western Systems model SSF-216.
44

45 **9-29.13(4)E High Density Flash Transfer Relay**

46 The High Density Flash Transfer Relay (HDFTR) shall have a hermetically sealed cover
47 and shall be moisture proof. The HDFTR shall be filled with dry nitrogen to protect
48 contacts from corrosion and to prevent condensation. The HDFTR shall have a
49 shock/impact resistant metal can cover with solid and bend proof pins. The HDFTR

contacts shall be rated at 120VAC @ 10 Amp. The coil of the HDFTR shall be rated at 120VAC. The HDFTR shall have an LED indicator to display contact transfer position.

9-29.13(4)F Loop Detector Card Rack

Two (2) fully wired 8-position card racks, shall be installed. Detector racks shall be capable of using both two channel and four channel detection devices. One of the card racks shall also have the additional capacity and be fully wired for an Opticom Model 760 Card. Racks shall be secured to the detector shelf as far to the right as possible within the cabinet in such a manner as to afford easy access for maintenance, without interfering with access to any of the ports. The racks shall accommodate 4.5 inch high, 6.875 inch long, 1.12 inch wide two channel, two output per channel detector modules. Connectors shall be 44 contacts (22 each side) spaced on 0.156" centers. Each rack shall be provided with a bus interface unit (BIU). These shall meet all the requirements of NEMA TS-2 1988 standards. In addition, all BIUs shall provide separate front panel indicator LED's for DC power status and SDLC Port 1 transmit and receive status.

The (BIU)'s shall be Eberle Design, Inc. model BIU-700H, Econolite model BIU-64, Reno A&E model BIU/2, or Engineer approved equal.

The loop cabling shall be connected via a 37 pin DB connector using spring clips. The Opticom cable shall be connected via a 24 pin connector using locking latches. The power cable shall be a 6 pin connector. All power wires shall be 18AWG. The addressing of detector racks shall be accomplished via dipswitches mounted to the PCB. There shall be the capability to turn off the TS2 status to the BIU for the uses of TS1 detector equipment via dipswitches mounted to the PCB. There shall be a 34 pin connector using locking latches that breaks the output from the detector to the input of the BIU, there shall also be +24VDC and logic ground on this connector. All racks shall have space at the bottom front for labeling. All racks shall be designed for horizontal stacking. Separate racks for detection and preemption are not allowed.

9-29.13(4)G Detector Power Supply

The cabinet shall come with a shelf mounted cabinet power supply meeting at minimum NEMA TS 2-2003 (R2008) standards. It shall be a heavy duty device that provides +12VDC at 5 Amps / +24VDC at 3 Amps / 12VAC at 0.25 Amp, and line frequency reference at 50 mA. The power supply shall provide a separate front panel indicator LED for each of the four outputs. Front panel banana jack test points for 12VDC, 24VDC, and logic ground shall also be provided. The power supply shall provide 5A of power and be able to cover the load of four (4) complete detector racks.

9-29.13(4)K BUS Interface Unit (BIU)

The cabinet shall come with four (4) BIU's. They shall meet all requirements of NEMA TS2-1998 standards. In addition, all BIU's shall provide separate front panel indicator LED's for DC power status and SDLC Port 1 transmit and receive status. Each BIU's shall utilize only 1 rack position.

The (BIU)'s shall be Eberle Design, Inc. model BIU-700H, Econolite model BIU-64, Reno A&E model BIU/2, or Engineer approved equal.

9-29.13(5) Manufacturer Testing and Certification

The complete cabinet assembly with electronics shall undergo complete input/output function testing by the manufacturer before being released to the City of Tacoma..

Testing shall be done via service feed to the 120VAC field terminal. Service power shall be routed through the generator bypass switch, UPS inverter before being connected to the power panel so that all service load circuits are tested.

If the cabinet specified comes with a UPS system (BBS) and batteries; the entire controller cabinet assembly shall undergo a BBS field test procedure where the cabinet is run off battery power for a minimum of one hour.

9-29.14 Vacant

This vacant section is renamed and replaced with the following:

9-29.16 Vehicular Signal Heads, Displays, and Housing

9-29.16(2)B Signal Housing

The second paragraph is supplemented with the following:

The door shall open a minimum of 160 degrees.

The third paragraph is supplemented with the following:

The sections shall be held firmly together by corrosion-resistant hardware in such a manner that additional sections may be added easily.

The fourth paragraph is supplemented with the following:

The terminal strip for a standard three-section head shall be a minimum five-position, ten-terminal, barrier-type strip with No. 8 screw-type fasteners. To one side of each terminal shall be attached the white, red, yellow and green signal section leads, leaving the opposite terminal for field wires. Multi-section heads shall be provided with a terminal strip located in the yellow (center) section. Lead shall be No. 18 AWG type with 1/32-inch wall, 105-1/4 centigrade thermoplastic insulation.

9-29.16(3) Polycarbonate Traffic Signal Heads

This section is deleted.

9-29.17 Signal Head Mounting Brackets and Fittings

This section is revised to read:

Vehicle and pedestrian signal heads shall be as detailed in the standard plans.

Span wire vehicle signal hanger hardware shall consist of span wire clamp, balance adjuster, wire entrance fitting and vehicle head locking device.

A. Construction

1. Bronze hangers are required.
2. The minimum size of pins shall be 5/8-inch diameter. Pins shall be stainless steel.
3. The minimum size of the 'J' or 'U' cable clamps is 1/2-inch diameter. Cable clamp bolts shall be stainless steel. Clamping insert shall be used.
4. The cable saddle shall be at least 9 inches long.
5. All cotter pins shall be brass and washers shall be stainless steel.

6. All hardware shall be of stainless steel, bronze or brass materials.
7. Signal stem shall be locked with a square headed set screw 1/4-inch minimum in diameter.
8. Wire entrance shall be a minimum of 1-1/4-inch diameter and shall have a female threaded base for nipple.
9. The balance adjuster directional lock shall be of the clamping type with 1/2-inch through bolt for locking. No set screw or lock nut acceptable.
10. All stems shall be secured to signal head with proper lock fitting.

Vehicle signal heads attached to a mast arm shall use a type M mounting bracket as detailed in the standard plans and in accordance with Section 8-20.3(14)B and Section 9-29.17.

9-29.18 Vehicle Detector

This section is supplemented with the following:

Unless otherwise specified in the contract plans, the vehicle detection system provided shall be a Gridsmart detection system with the performance plus module.

9-29.18(3) Gridsmart Detection System

The Gridsmart system provided shall provide all necessary components required in order to fully install, setup, test, operate and maintain a fully functional detection system, including, but not limited to, the following components:

1. Gridsmart Power over Ethernet Bell Camera(s)
2. GS2 Gridsmart Processor with the Performance Plus Module
3. Mounting Hardware
4. Connection Cables

Unless otherwise identified in the project plans, one Bell Camera is required for each intersection. Additional cameras may be required, and will be identified in the project plans when two or more major arterials intersect, or where sight lines require additional cameras. Changes to the intersection layout, or camera locations may require additional cameras for proper functionality. Field adjustments to the camera location shall not be permitted without approval from the Engineer.

All mounting hardware and cabling shall meet the manufacturer's recommendations, unless otherwise specified herein.

9-29.19 Pedestrian Push Buttons

This section is supplemented with the following:

Pushbutton systems shall be fully compliant with Accessible Pedestrian System requirements as defined by the American with Disabilities Act. Pushbutton systems shall be two wire systems (four wire systems shall not be permitted).

Unless otherwise specified, the pedestrian push button central control unit shall be Polara shelf mount control unit capable of communication through a SDLC cable (Polara Model iCCU-S).

1 Push buttons stations shall be Polara - iN2 series with the following options:

- 2 1. 9x12 Front Plate Adapter
- 3 2. 9x12 Faceplate compliant with MUTCD R10-3b
- 4 3. No braille on Face Plate
- 5 4. Custom Messages
- 6 5. Black Button Cover

7
8 Extenders may be required for locations where the APS buttons are not within an
9 acceptable reach. Extenders or adapters may be required to accommodate the size of
10 the faceplates for locations where two pushbuttons are mounted to the same pole.

11 12 **9-29.20 Pedestrian Signals**

13 *This section is supplemented with the following:*

14
15 All pedestrian signals housings shall be die-cast aluminum.

16
17 *The Vacant Section 9-29.22 is replaced with the following:*

18 19 **9-29.22 Preemption Hardware**

20
21 Preemption Hardware shall be Opticom TM Model 721 unless otherwise specified.

22 23 **9-29.24 Service Cabinets**

24 *This section is supplemented with the following:*

25
26 Service cabinets shall be pole mounted, exterior NEMA 3R Rated with a bolt on HUB for
27 top entry. Cabinet shall be a maximum 10 inches wide, 14 inches high, and 5 inches
28 deep.

29
30 Load Center shall have between 100 and 150 Amps, with capacity for 6 spaces and 12
31 circuits, or 8 spaces and 16 circuits as required by Code.

32
33 Service panels shall be Square D – QO Series

34 35 **9-29.24(2) Electrical Circuit Breakers and Contactors**

36 *The first paragraph is supplemented with the following:*

37
38 Mercury relays shall not be accepted. Contactors shall be one of the following brands:

- 39 1. Square D
- 40 2. Siemens
- 41 3. Eaton/Cutler Hammer
- 42 4. Engineer Approved Equal

43
44 *The second paragraph is deleted.*

45
46 *The third sentence of the third paragraph is deleted.*

47
48 *The third paragraph is supplemented with the following:*

1 All service panel breakers shall be one of the following brands/series

- 2 1. Square D – QO Series
- 3 2. Siemens – Type BL
- 4 3. Eaton/Cutler Hammer – Quick Lag Type BA
- 5 4. Engineer approved Equal

6
7 All surface mount breakers shall be one of the following Brands/Series:

- 8 1. Square D (Type QOU)
- 9 2. Siemens
- 10 3. Eaton/Cutler Hammer
- 11 4. General Electric
- 12 5. Engineer approved Equal

13
14 **9-29.25 Amplifier, Transformer, and Terminal Cabinets**

15 *This section is supplemented with the following:*

16
17 Terminal compartments may be incorporated into the signal standard as an alternative to
18 providing a separate terminal cabinet attached to the pole. Terminal compartment
19 should offer similar physical and electrical capacity as specified. Contractor shall
20 provide submittals in accordance with the contract documents and obtain approval from
21 the engineer for the alternate design prior to proceeding. Signal standards and terminal
22 compartments shall meet all other structural, mechanical, electrical, and finish
23 requirements as specified, and be suitable for the intended purpose.

24
25
26 **END OF SECTION**

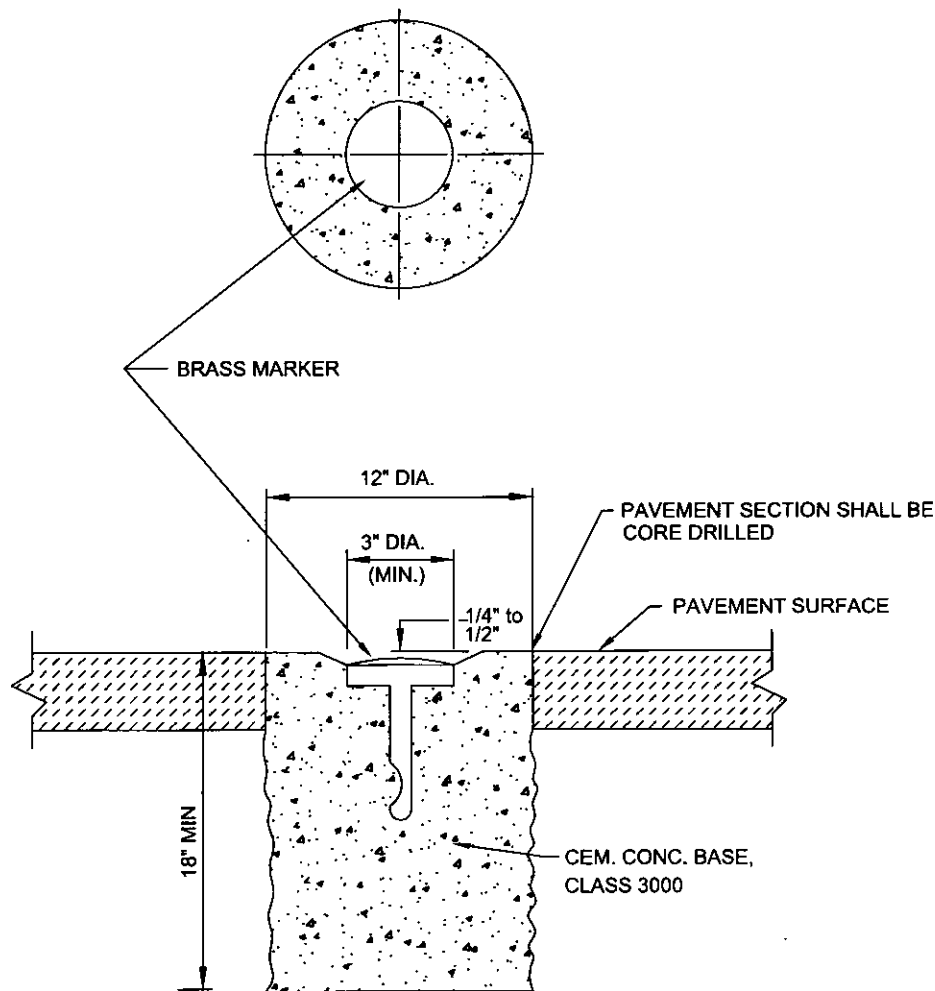
27
28
29 **END OF SPECIAL PROVISIONS**

APPENDIX A

CITY OF TACOMA

AND

WSDOT STANDARD PLANS



NOTES:

1. Concrete base shall be poured in place. Hand mixed concrete is prohibited. Concrete base need not be formed.
2. Notice to surveyors: any monument set in the City of Tacoma must bear the land surveyor number of the surveyor setting the monument. Monuments set as part of an approved plat are exempt.
3. The surveyor is to supply the City of Tacoma with a copy of the calculations used to determine all monument positions before the monuments are set.
4. Brass marker for City of Tacoma funded projects will be supplied by the City, all other brass markers to be supplied by the contractor.
5. Monument must be magnetically locatable.
6. Prior to removing or destroying a monument, the surveyor or engineer shall apply for a permit from the Department of Natural Resources in accordance with WAC 332-120.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

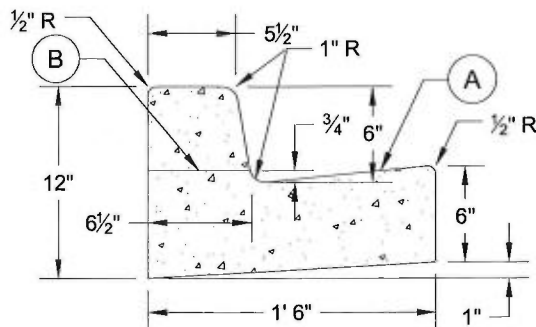
APPROVED FOR PUBLICATION

James Parney 09 JUN 2009
CITY ENGINEER DATE

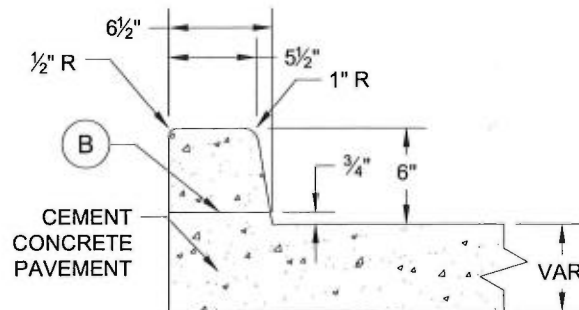
POURED MONUMENT

STANDARD PLAN NO. SU-01

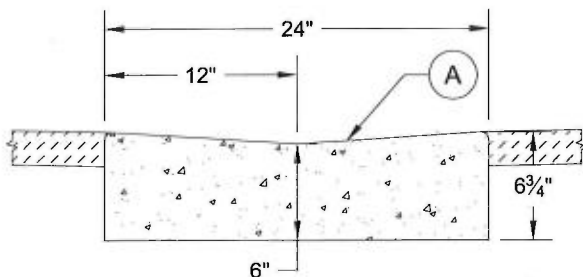
(B) Flush with gutter pan at curb ramp entrance or $\frac{3}{4}$ " vertical lip at driveway entrance.



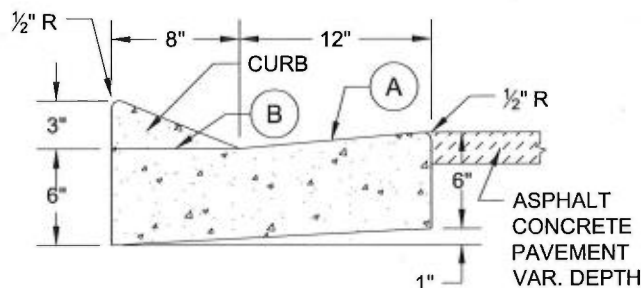
**CEMENT CONCRETE TRAFFIC
CURB & GUTTER**



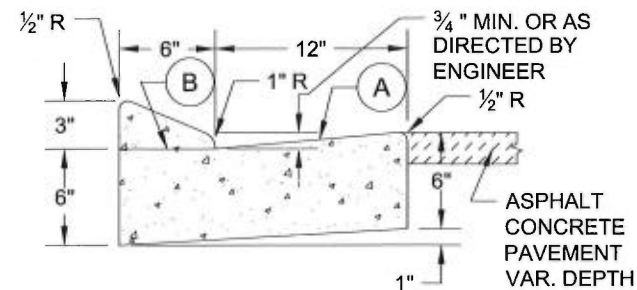
INTEGRAL CEMENT
CONCRETE TRAFFIC CURB



CEMENT CONCRETE VALLEY GUTTER



TYPE "C" MOUNTABLE
CEMENT CONCRETE CURB & GUTTER



TYPE "D" MOUNTABLE
CEMENT CONCRETE CURB & GUTTER

1. For trench crossings, curb and gutter shall be removed to a minimum 2' cut back over undisturbed soil.
2. In all projects, any remaining sections of curb and gutter less than 5' in length between the project area and the nearest control joint shall also be removed and replaced.
3. All joints shall be saw cut full depth prior to restoration and $\frac{3}{8}$ " expansion joint installed.
4. Concrete finish shall match existing.
5. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Foundations shall be fully compacted prior to form placement.
7. Unsuitable foundation shall be replaced with $\frac{5}{8}$ " crushed surfacing top course.

DCS

PUBLIC WORKS

NA

TACOMA POWER

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GMS

ENVIRONMENTAL SERVICES

NA

TACOMA WATER



APPROVED FOR PUBLICATION

[Signature] 8/16/14

CITY ENGINEER

DATE _____

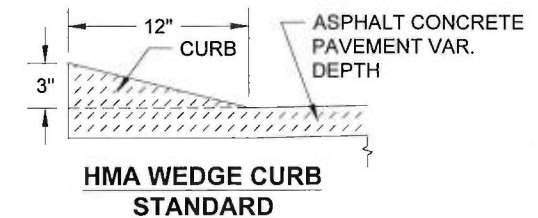
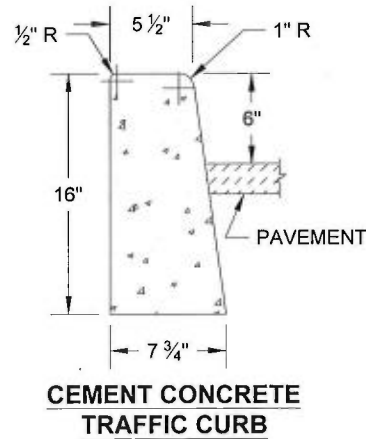
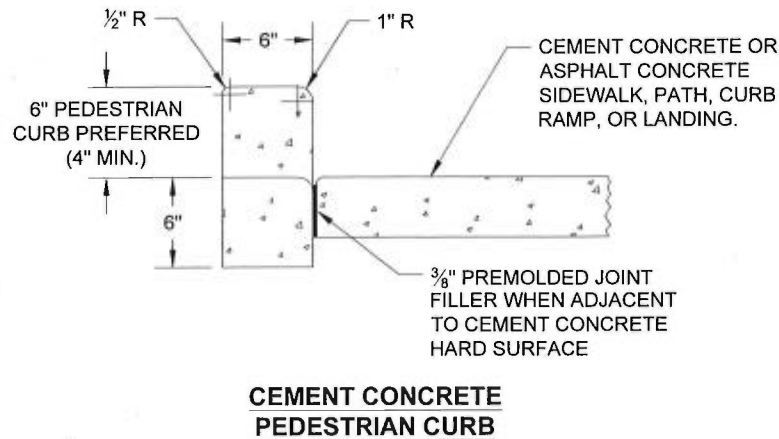
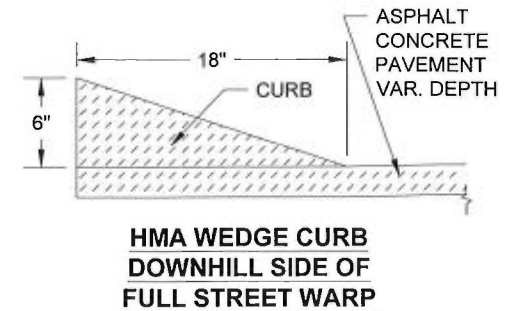
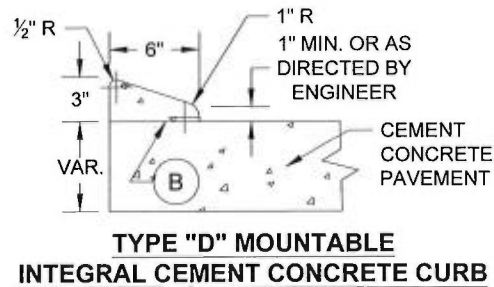
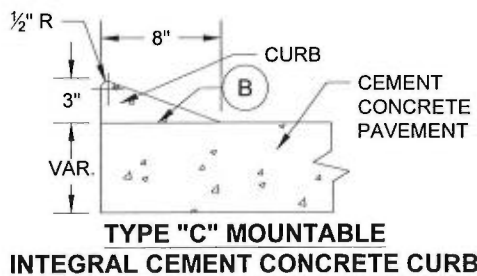
CITY OF TACOMA

CEMENT CONCRETE CURB AND GUTTER

STANDARD PLAN NO. SU-03

NOTE:

- (B) Flush with gutter pan at curb ramp entrance or $\frac{3}{4}$ " vertical lip at driveway entrance.



NOTES:

1. For trench crossings, curb and gutter shall be removed to a minimum 2' cut back over undisturbed soil.
2. In all projects, any remaining sections of curb and gutter less than 5' in length between the project area and the nearest control joint shall also be removed and replaced.
3. All joints shall be saw cut full depth prior to restoration and $\frac{3}{8}$ " expansion joint installed.
4. Concrete finish shall match existing.
5. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Foundations shall be fully compacted prior to form placement.
7. Unsuitable foundation shall be replaced with $\frac{5}{8}$ " crushed surfacing top course.

DCS

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SERVICES

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DATE

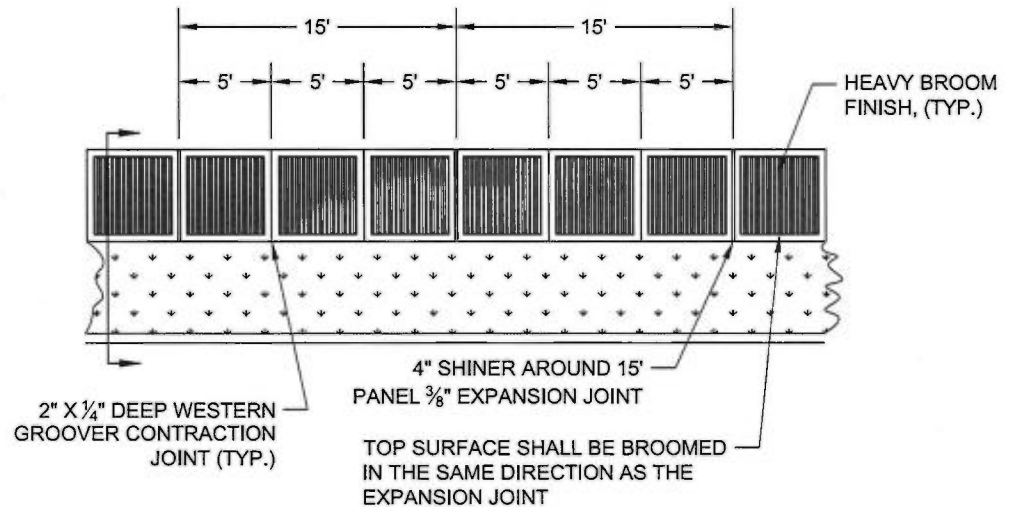
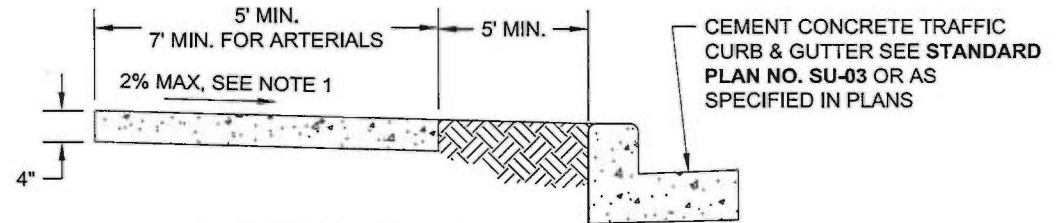
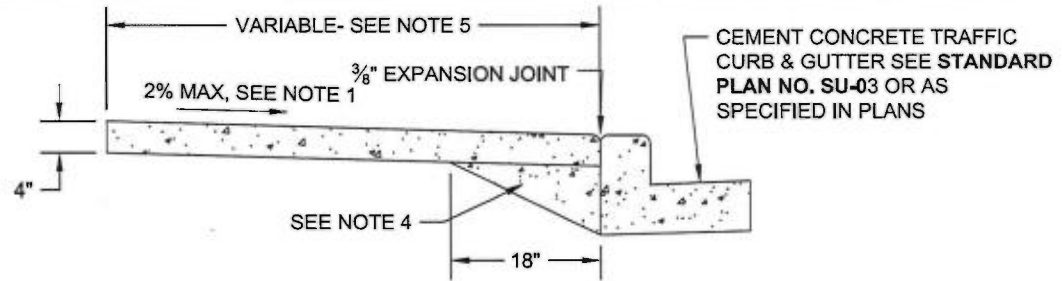
CITY OF TACOMA
CEMENT CONCRETE
CURB AND GUTTER AND
ASPHALT WEDGE CURB

STANDARD PLAN NO.

SU-03A

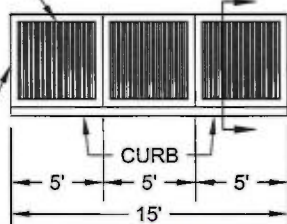
NOTES:

1. Sidewalks shall be designed and constructed in accordance with 2010 ADA Standards, 28 CFR, Part 35 and as supplemented by the Public Right of Way Accessibility Guidelines (PROWAG). City of Tacoma prefers sidewalk cross slopes to be designed to a maximum of 1.5% and a minimum of 1.0%
2. When placing walk adjacent to existing curb and gutter, curb and gutter will be repaired as necessary before placing concrete forms for walk.
3. Staking is required where no curb is present.
4. Thickened edge shall be constructed using cement concrete on all radii. All other locations shall be backfilled and compacted.
5. Combination walk shall be 7' min. on all commercial sites and arterial streets. Combination walk shall be a minimum of 5' on non arterial streets. Dimensions are from back of curb to back of walk. See contract plans for width and placement of sidewalk.
6. All expansion joints shall be full depth with $\frac{3}{8}$ " premolded joint filler.
7. All joints shall be cleaned and edged. External edges shall be $\frac{1}{2}$ " radius. Internal joints shall be $\frac{1}{4}$ " radius.
8. All soft and yielding foundation material shall be removed and replaced with crushed surfacing top course (CSTC) per Section 9-03.9(3) of the WSDOT Standard Specifications.
9. All sidewalk shall be replaced to the nearest expansion or contraction joint. All joints shall be saw cut full depth prior to restoration and $\frac{3}{8}$ " expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
10. For sidewalks within the North Slope Historical District area use Standard Plan HD-NS03. See Standard Plan HD-NS01 for North Slope Historic District site map.



TOP SURFACE SHALL BE BROOMED IN THE SAME DIRECTION AS THE EXPANSION JOINT

4" SHINER AROUND 15' PANEL $\frac{3}{8}$ " EXPANSION JOINT



$\frac{3}{8}$ " EXPANSION JOINT TO MATCH CURB JOINTS NOT TO EXCEED 15'

REVIEWED BY

PUBLIC WORKS

N/A

TACOMA POWER

ENVIRONMENTAL SERVICES

N/A

TACOMA WATER



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CITY ENGINEER

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CITY OF TACOMA

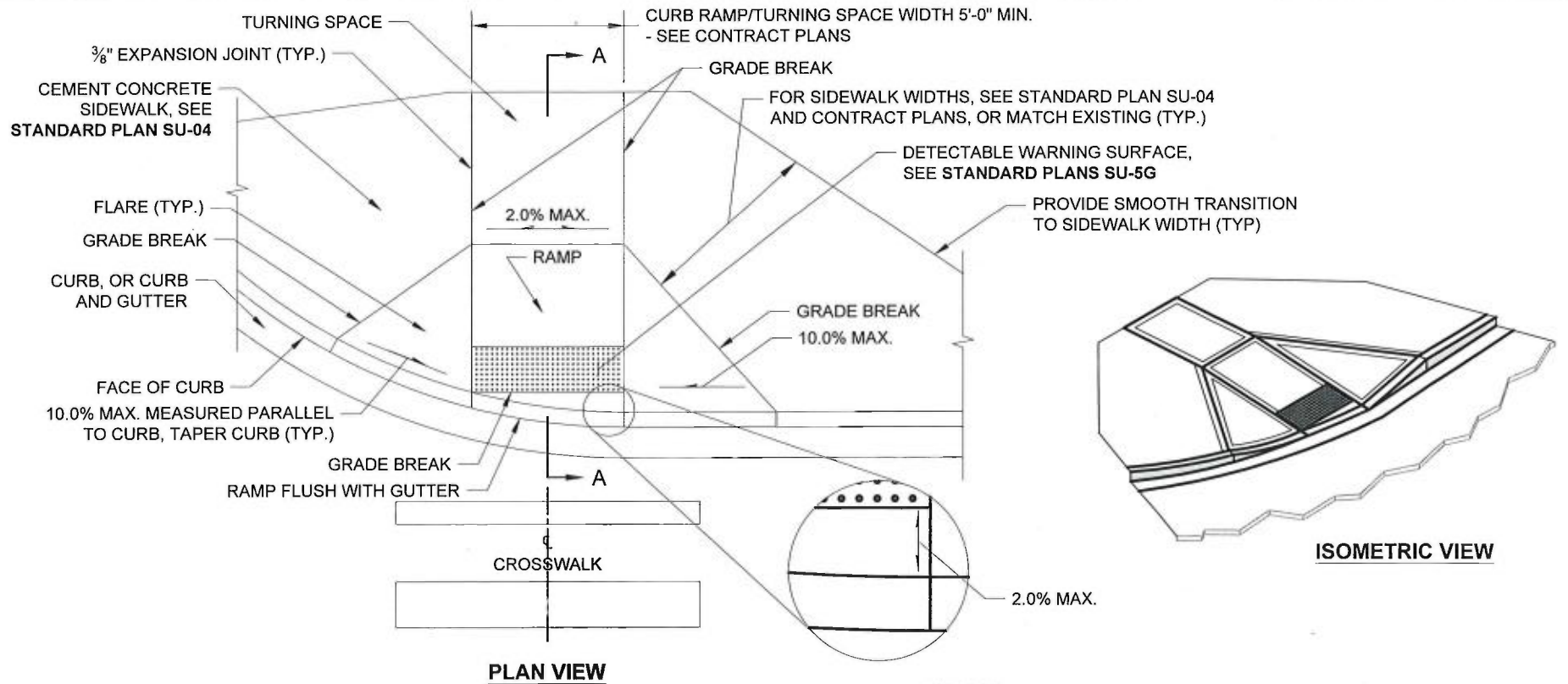
CEMENT CONCRETE SIDEWALK

STANDARD PLAN NO. SU-04

GENERAL NOTES:

1. Provide a separate directional curb ramp for each marked or unmarked crosswalk. Directional curb ramps are preferred over 45 degree ramps. Curb ramp location shall be placed within the width of the associated crosswalk, or as shown on the Contract Plans. The curb ramp centerline shall be parallel to the direction of the crossing. Forty-five (45) degree curb ramps shall be installed only after approval by the City's ADA Coordinator or the Street Operations Division Manager.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush and perpendicular to the direction of travel. There shall be no vertical discontinuity between the base of curb ramp and gutter line.
3. Do not place grates, junction boxes, access covers, or other appurtenances in front of the curb ramp or on any part of the curb ramp or turning space. Placement on or in front of ramp flares is allowed.
4. See Contract Plans for the curb design specified. See **Standard Plan SU-03** and **SU-03A** for Curb, and Curb and Gutter Details.
5. A thickened edge shall be constructed to full depth of adjacent curb along entire curb radius.
6. For sidewalk and curb ramps within the North Slope Historical District area see **North Slope Historic District Site Map, HD-NS01**. Apply Lamp Black 1lb. per cubic yard of cement concrete or as required for discoloration in accordance with ASTM D209-81 Standard Specifications for Lamp Black pigment.
7. The running slope of a curb ramp shall not exceed 8.3% but does not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades.
8. Curb ramp, turning space and flares shall receive a broom finish, see **WSDOT Standard Specifications 8-14**.
9. Return curbs, (pedestrian curbs), may only be used with landscaping or railing. Return curbs, (pedestrian curbs), shall not be used to prevent pedestrians from crossing streets.
10. All curb ramp designs shall be stamped by a Washington State licensed Professional Engineer. If meeting the current design standards is not possible, curb ramps shall be constructed to the maximum extent feasible as indicated by an Engineer's note on the stamped drawings. Rationale supporting the design variance shall be provided by the Engineer and shall include a description of the scope of work, the site-specific factors affecting compliance, and the measures implemented to improve compliance.
11. Pedestrian traffic should be aligned to the receiving curb ramp. The existing curb ramps shall be evaluated using criteria in the City's Curb Ramp Installation Matrix.
12. Consult the City's Curb Ramp Installation Matrix and the Right Of Way Restoration Policy for additional requirements.
13. Conduit for APS equipment shall be installed during curb ramp construction at all signalized intersections and at intersections where signalization is anticipated within the next 6 years. Coordinate with Public Works - Engineering, Traffic Section.
14. A Pedestrian Accessibility Control Plan shall be developed in conjunction with each project-specific Temporary Traffic Control Plan for all work in the ROW.
15. Pedestrian traffic shall NOT be directed behind the stop bar.
16. Curb ramp alignment should be consistent with crosswalk alignment
17. Curb ramp shall be 5' minimum in width.
18. Catch basins shall be located upstream of curb ramps outside of flare/wing for new construction or when performing storm sewer upgrades.
19. For constructability purposes, the City recommends designing to **less than** the maximum allowable slopes.

 PUBLIC WORKS  TACOMA POWER	REVIEWED BY  ENVIRONMENTAL SERVICES NA TACOMA WATER		APPROVED FOR PUBLICATION  CITY ENGINEER 8/16/16 DATE	CITY OF TACOMA CURB RAMP DETAILS GENERAL INFORMATION STANDARD PLAN NO. SU-05
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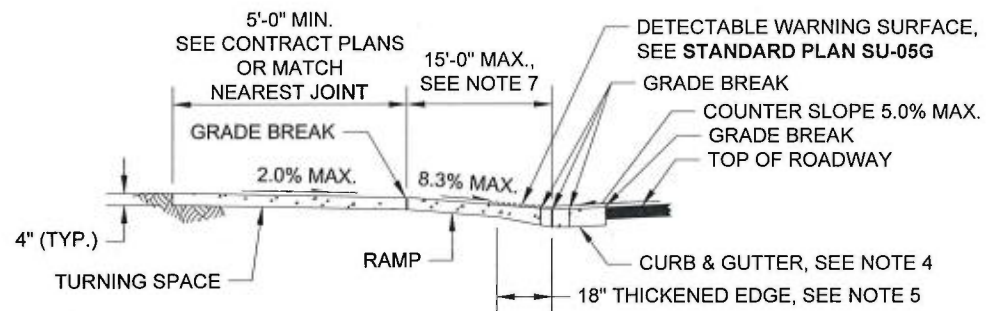


NOTES:

See **Standard Plan SU-05** for referenced notes

LEGEND

— SLOPE IN EITHER DIRECTION



SECTION DETAIL A-A

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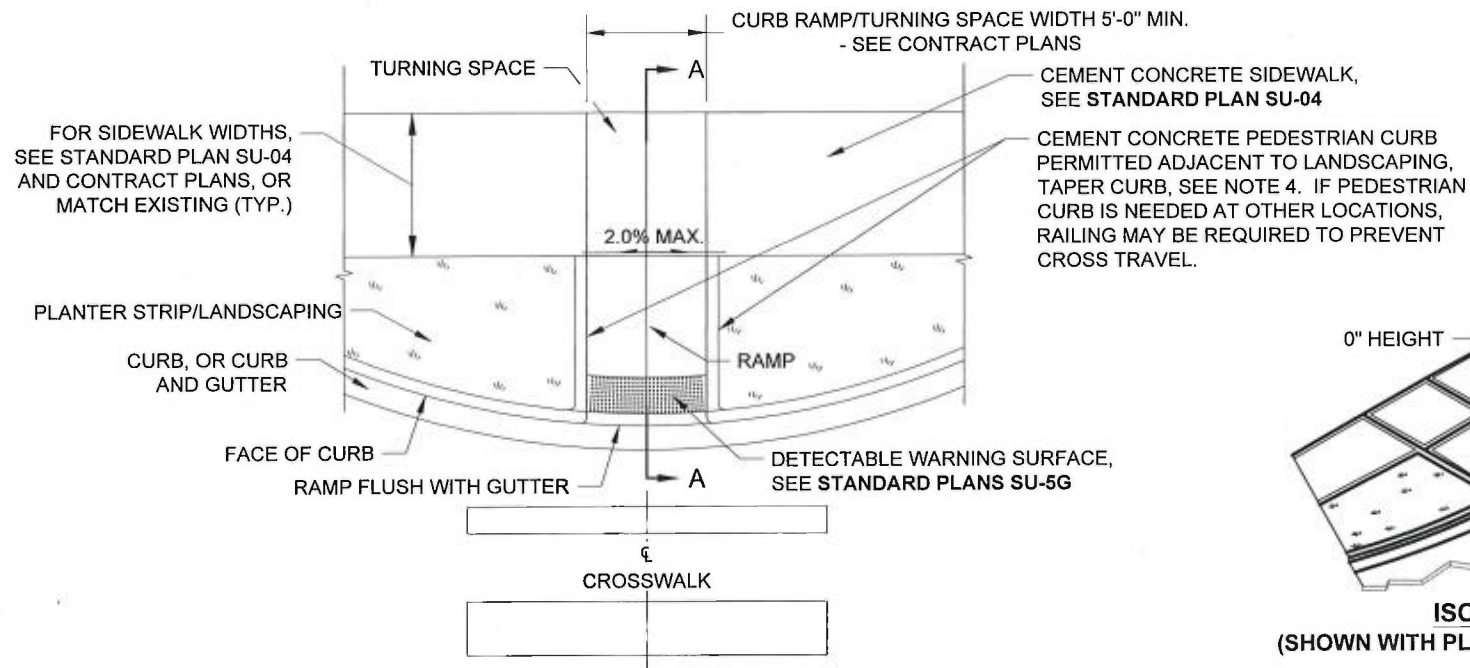
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CITY OF TACOMA

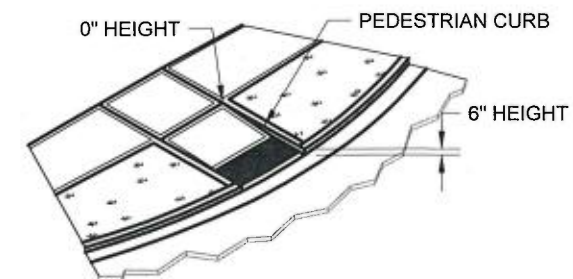
PERPENDICULAR CURB RAMP
TYPE 'A'

STANDARD PLAN NO.

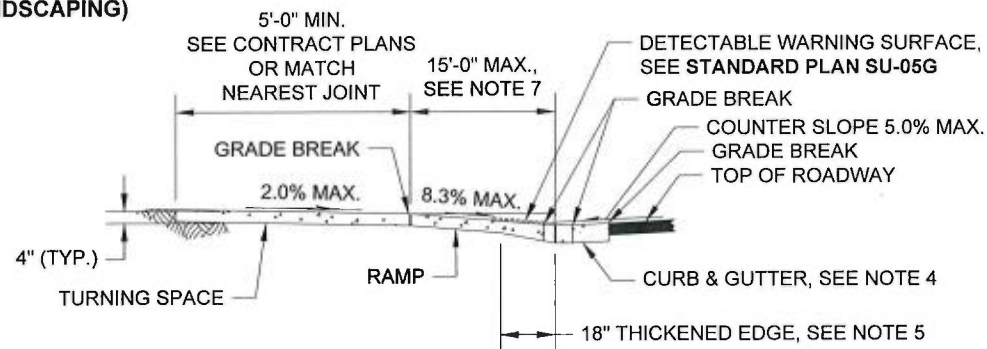
SU-05A



PLAN VIEW
(SHOWN WITH PLANTER STRIP/LANDSCAPING)



ISOMETRIC VIEW
(SHOWN WITH PLANTER STRIP/LANDSCAPING)



SECTION DETAIL A-A

NOTES:

See **Standard Plan SU-05** for referenced notes

LEGEND

— SLOPE IN EITHER DIRECTION

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TACOMA POWER

TACOMA WATER



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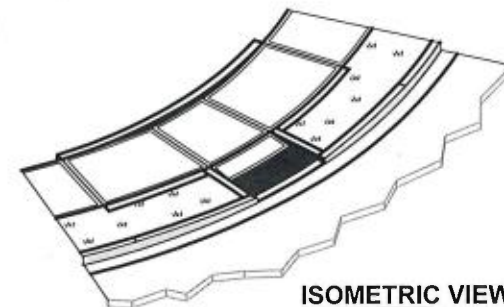
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DATE

CITY OF TACOMA

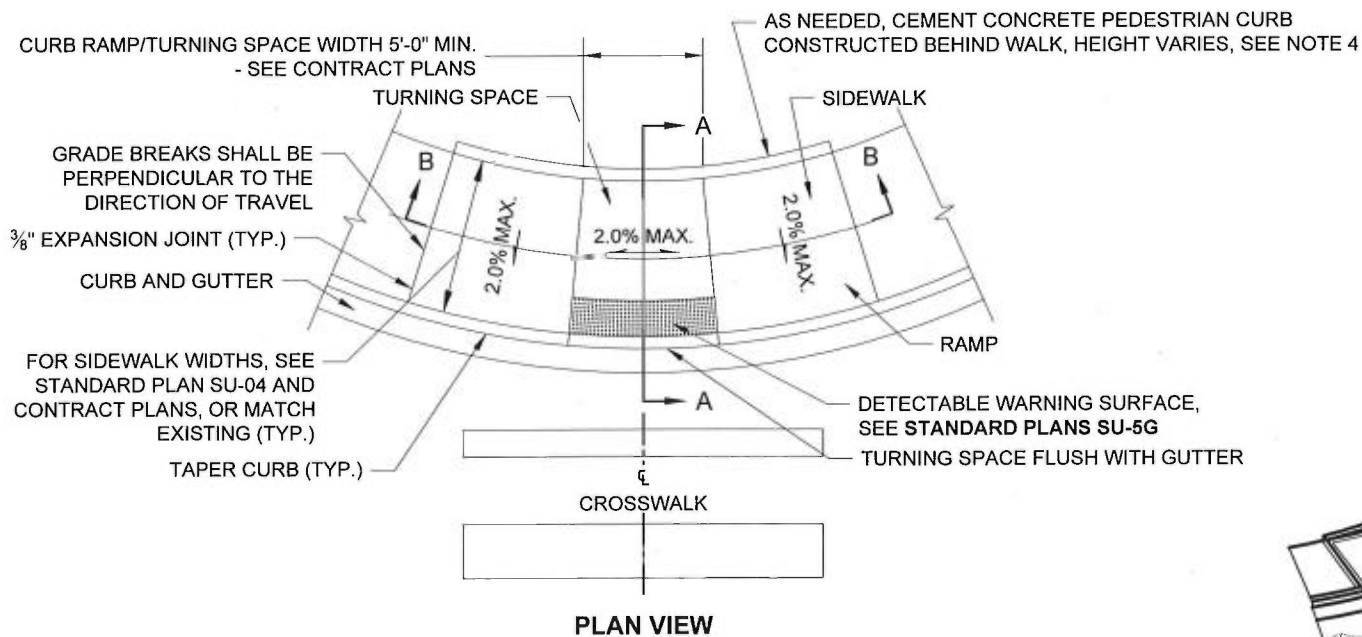
PERPENDICULAR CURB RAMP
TYPE 'B'

STANDARD PLAN NO. SU-05B



STANDARD PLAN NO. SU-05C

SU-05C

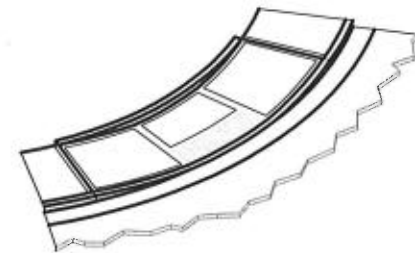


NOTES:

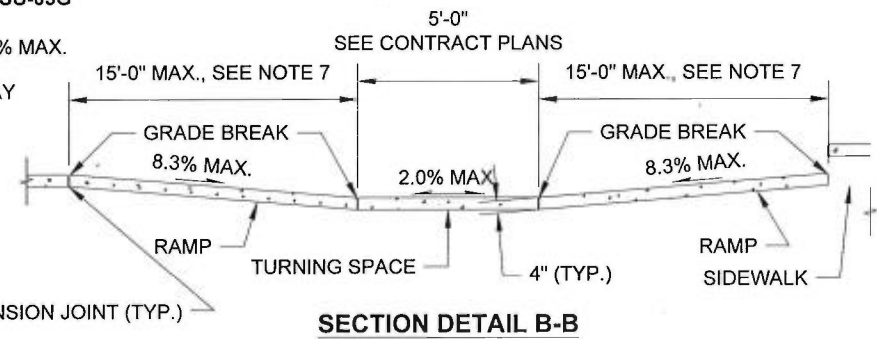
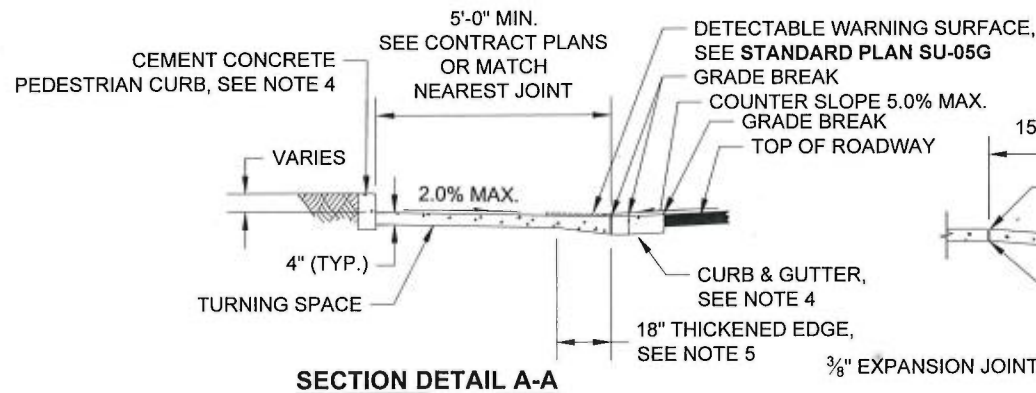
See **Standard Plan SU-05** for referenced notes

LEGEND

— SLOPE IN EITHER DIRECTION



ISOMETRIC VIEW



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TACOMA WATER



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CITY ENGINEER

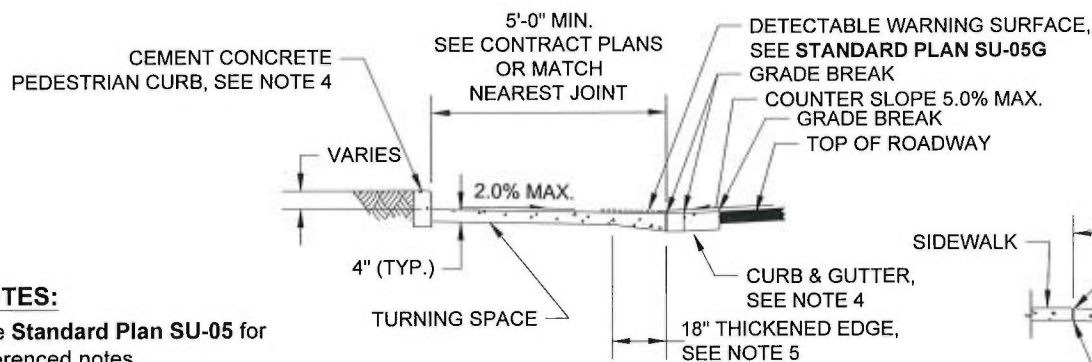
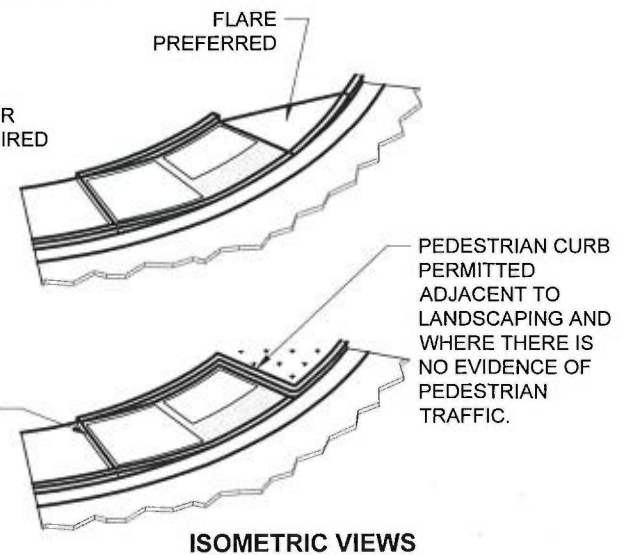
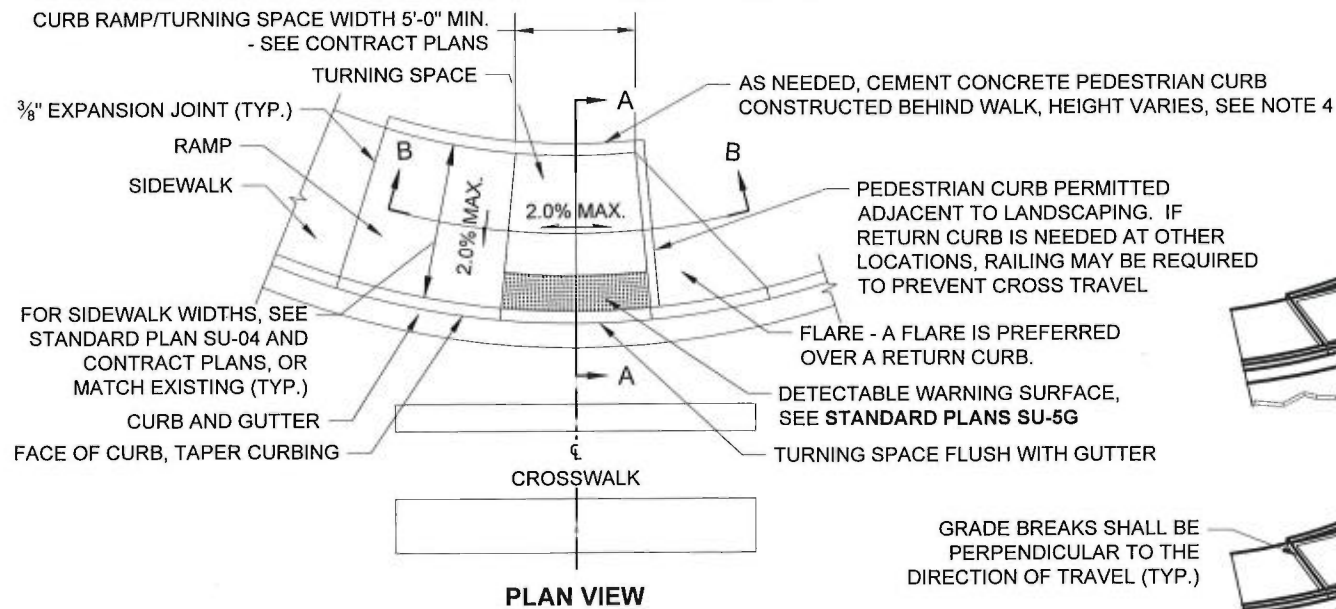
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CITY OF TACOMA

PARALLEL CURB RAMP
TYPE 'A'

STANDARD PLAN NO.

SU-05D

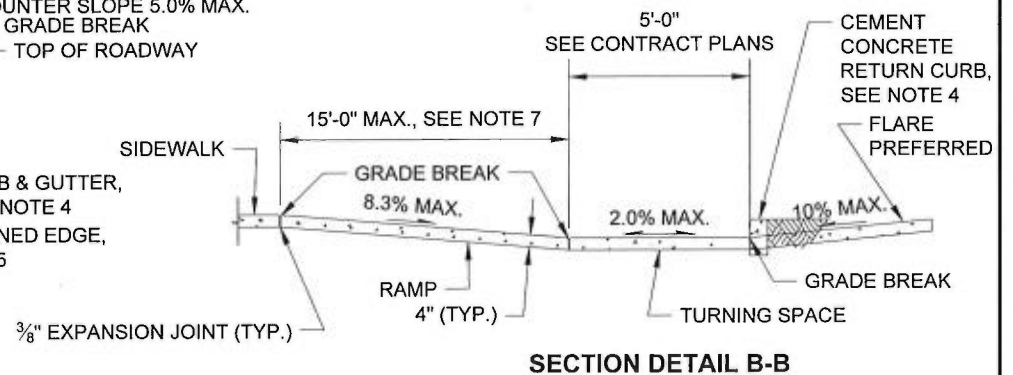


NOTES:

See **Standard Plan SU-05** for
referenced notes

LEGEND

— SLOPE IN EITHER
DIRECTION



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TACOMA WATER



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CITY ENGINEER

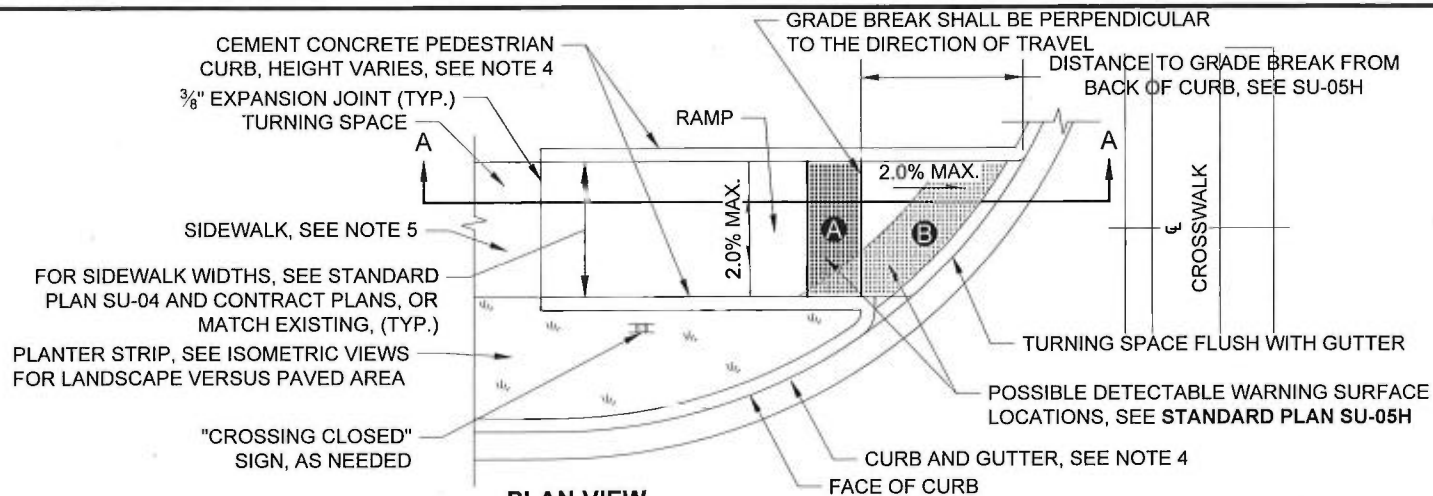
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CITY OF TACOMA

PARALLEL CURB RAMP
TYPE 'B'

STANDARD PLAN NO.

SU-05E



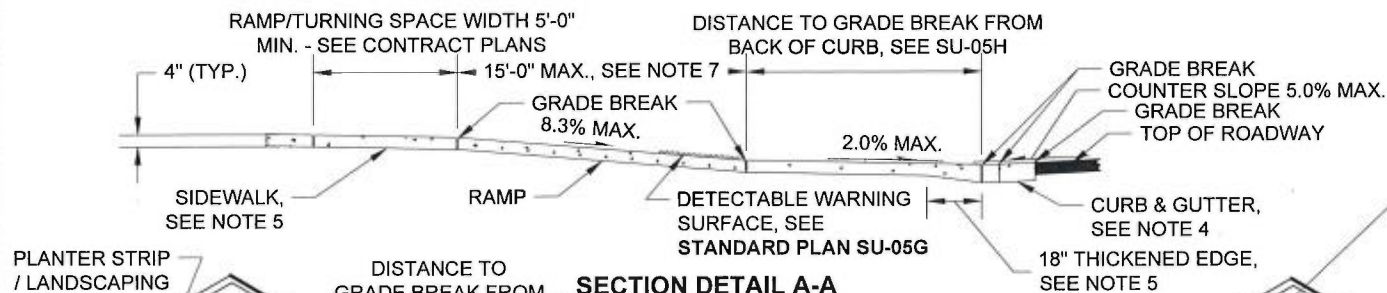
NOTES:

See Standard Plan SU-05 for referenced notes

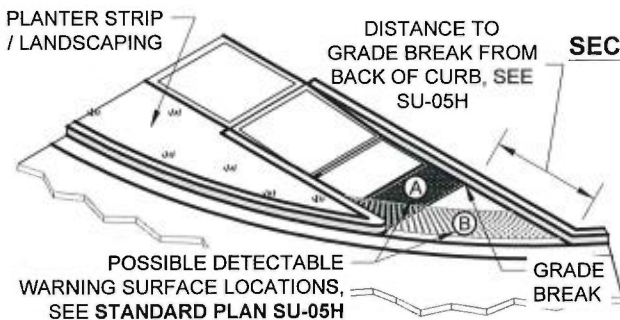
LEGEND

— SLOPE IN EITHER DIRECTION

PLAN VIEW



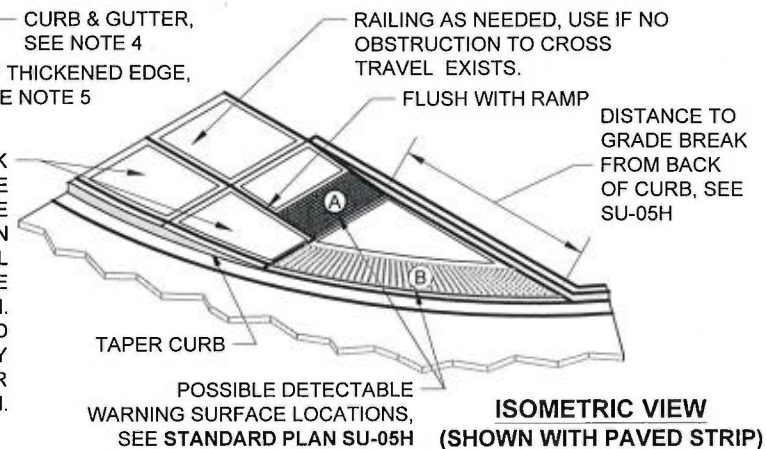
SECTION DETAIL A-A



ISOMETRIC VIEW

(SHOWN WITH PLANTER STRIP/LANDSCAPING)

HARDSCAPED BUFFER SHALL BE DARK GRAY COLORED CEMENT CONCRETE OR HAVE A PATTERN TO INDICATE THE AREA IS OUTSIDE THE PEDESTRIAN ACCESS ROUTE. THE PATTERN SHALL BE SUBMITTED AND APPROVED BY THE CITY, PRIOR TO CONSTRUCTION. ALTERNATE COLORS MAY BE USED WITH PRIOR WRITTEN APPROVAL BY THE CITY'S ADA COORDINATOR PRIOR TO CONSTRUCTION.



ISOMETRIC VIEW

(SHOWN WITH PAVED STRIP)

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DATE

CITY OF TACOMA

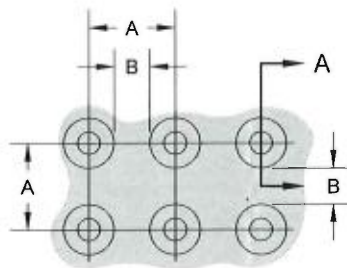
SINGLE DIRECTION CURB RAMP

STANDARD PLAN NO.

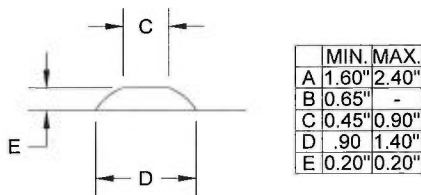
SU-05F

NOTES:

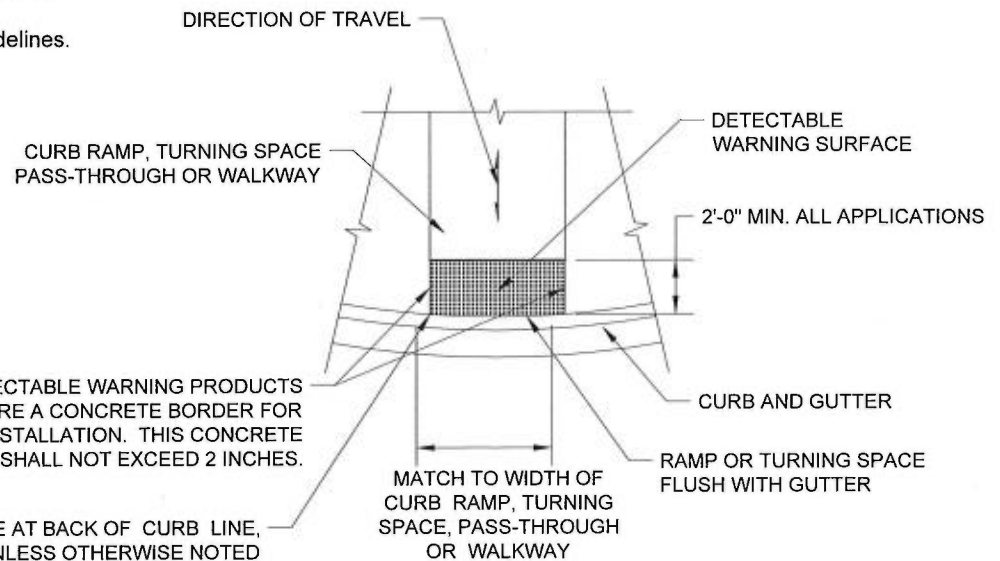
1. The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of flares) or the turning area.
2. The rows of truncated domes in a Detectable Warning Surface shall be parallel with the direction of wheelchair travel.
3. See **Standard Plans SU-04** through **SU-05F** for sidewalk and curb ramp details.
4. If a curb is not present, place the Detectable Warning Surface at the edge of the pavement.
5. The Detectable Warning Pattern shall be installed using Vanguard ADA Systems, ADA Solutions, or Armor-Tile "Cast in Place Systems," manufactured by Engineering Plastics Inc., or approved equal. Concrete shall be blocked out as required for the installation of the Detectable Warning Pattern material.
6. The Detectable Warning Pattern area shall be yellow and shall match the color of Federal Standard 595a, color number 33538.
7. See **Standard Plan SU-05H** for Detectable Warning Surface placement guidelines.



TRUNCATED DOME DETAILS
TRUNCATED DOME SPACING



SECTION DETAIL A-A
TRUNCATED DOME



DETECTABLE WARNING SURFACE DETAIL

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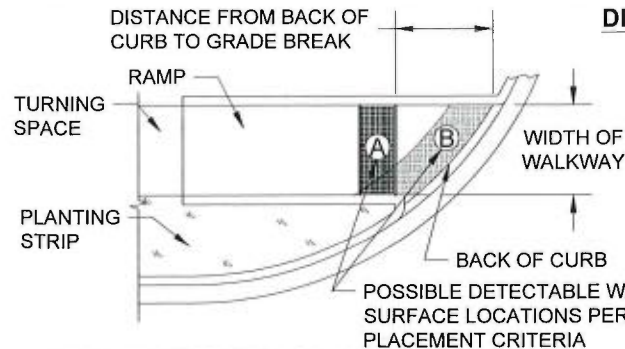
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CITY OF TACOMA

DETECTABLE WARNING SURFACE
DETAILS

STANDARD PLAN NO.

SU-05G

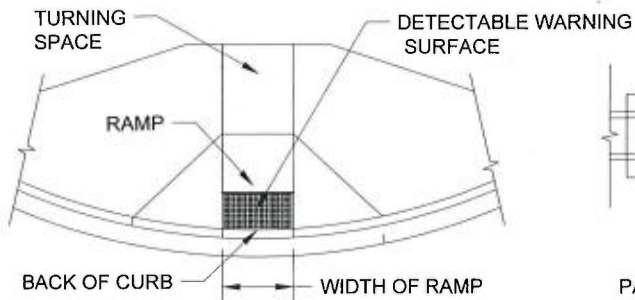


DETECTABLE WARNING PLACEMENT CRITERIA FOR SINGLE DIRECTION CURB RAMP

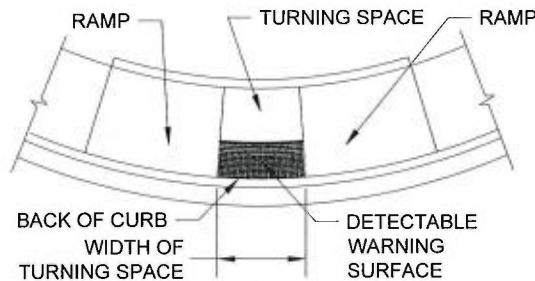
USE LOCATION (A) IF DISTANCE FROM BACK OF CURB TO GRADE BREAK IS LESS THAN OR EQUAL TO 5 FT.

USE LOCATION (B) IF DISTANCE FROM BACK OF CURB TO GRADE BREAK IS GREATER THAN 5 FT.

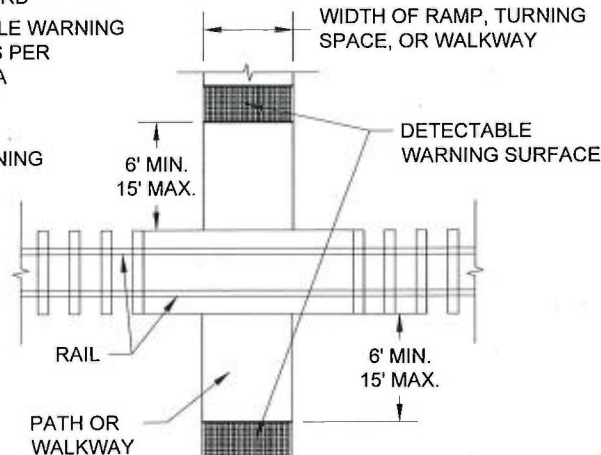
SINGLE DIRECTION CURB RAMP



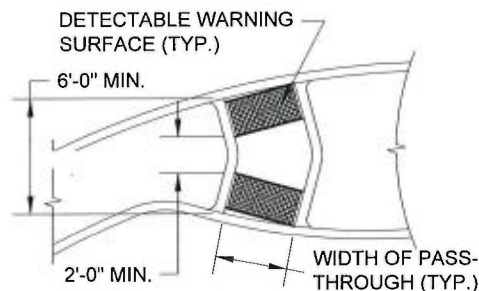
PERPENDICULAR CURB RAMP (SEE SU-05A AND SU-05B)



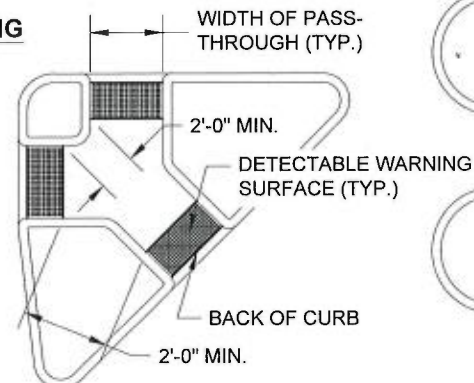
PARALLEL CURB RAMP (SEE SU-05C, SU-05D, AND SU-05E)



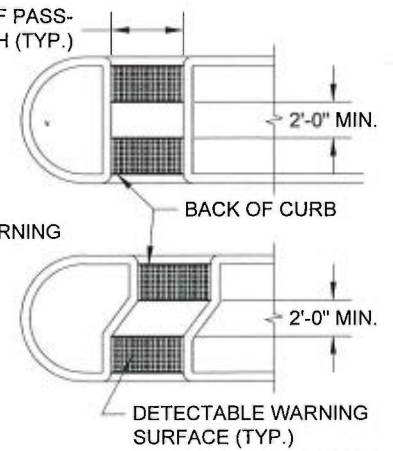
PEDESTRIAN RAILROAD CROSSING



ROUNDBOUT SPLITTER ISLAND



ISLAND PASS-THROUGH



MEDIAN PASS-THROUGH

NOTES:

1. The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of flares) or the turning space.
2. The edge of the Detectable Warning Surface shall be placed along the back of the curb line unless otherwise noted.
3. The Detectable Warning Surface shall be within 2" (max.) of the edge of the ramp.
4. The rows of truncated domes in the Detectable Warning Surface shall be parallel with the direction of travel.
5. See Standard Plans for sidewalk and curb ramp details.
6. If a curb is not present, place the Detectable Warning Surface at the edge of the pavement.
7. The Detectable Warning Pattern shall be installed using Vanguard ADA Systems, or Armor-Tile "Cast in Place Systems" as manufactured by Engineering Plastics Inc., or approved equal. Concrete shall be blocked out as required for the installation of the Detectable Warning Pattern material. See **Standard Plan SU-05G** for additional information.
8. The Detectable Warning Pattern area shall be yellow and shall match the color of Federal Standard 595a, Color Number 33538 unless otherwise noted.

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8/16/16
DATE

CITY OF TACOMA

DETECTABLE WARNING SURFACE
PLACEMENT GUIDELINES

STANDARD PLAN NO. SU-05H

R303.3.2 DETECTABLE WARNINGS.
DETECTABLE WARNING SURFACES COMPLYING WITH R304 SHALL BE PROVIDED, WHERE A CURB RAMP, LANDING, OR BLENDED TRANSITION CONNECTS TO A STREET.

R304.1.4 SIZE.
DETECTABLE WARNING SURFACES SHALL EXTEND 24 IN. MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES), THE LANDING OR, THE BLENDED TRANSITION.

R304.2.1 PERPENDICULAR CURB RAMPS.
WHERE BOTH ENDS OF THE BOTTOM GRADE BREAK COMPLYING WITH R303.3.4 ARE 5.0 FT OR LESS FROM THE BACK OF CURB, THE DETECTABLE WARNING SHALL BE LOCATED ON THE RAMP SURFACE AT THE BOTTOM GRADE BREAK. WHERE EITHER END OF THE BOTTOM GRADE BREAK IS MORE THAN 5.0 FT FROM THE BACK OF CURB, THE DETECTABLE WARNING SHALL BE LOCATED ON THE LOWER LANDING.

R304.2.3 ALIGNMENT.
THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP, LANDING, OR BLENDED TRANSITION AND THE STREET.

R303.3.4 GRADE BREAKS.
GRADE BREAKS AT THE TOP AND BOTTOM OF PERPENDICULAR CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN. AT LEAST ONE END OF THE BOTTOM GRADE BREAK SHALL BE AT THE BACK OF CURB. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF CURB RAMPS, BLENDED TRANSITIONS, LANDINGS, AND GUTTER AREAS WITHIN THE PEDESTRIAN ACCESS ROUTE. SURFACE SLOPES THAT MEET THE GRADE BREAKS SHALL BE FLUSH.

CROSSWALK

R303.3.5 COUNTER SLOPES.
THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITION SHALL BE 5% MAXIMUM.

R303.2.1.2 CROSS SLOPE.
THE CROSS SLOPE AT INTERSECTIONS SHALL BE 2% MAXIMUM. THE CROSS SLOPE AT MID-BLOCK CROSSING SHALL BE PERMITTED TO BE WARPED TO MEET STREET GRADE.

R303.2.1.4 FLARES.
FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED PARALLEL TO THE CURB LINE, SHALL BE PROVIDED WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP.

ADVISORY R303.2.1.4 FLARES.
SIDE OF RAMPS MAY BE RETURNED, PROVIDING USEFUL DIRECTIONAL CUES, IF PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, POLES, OR EQUIPMENT.

NOTE: CITY OF TACOMA PREFERS A RETURN CURB BE USED ONLY ADJACENT TO LANDSCAPING. IF RETURN CURB IS NEEDED AT OTHER LOCATIONS, RAILING MAY BE REQUIRED TO PREVENT CROSS TRAVEL.

R303.2.1.3 LANDING.
A LANDING (4.0 FEET MINIMUM BY 4.0 FEET MINIMUM, 5.0 FEET BY 5.0 FEET PREFERRED) SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER LANDINGS AND CLEAR SPACE. RUNNING AND CROSS SLOPES AT INTERSECTIONS SHALL BE 2% MAXIMUM.

NOTES:

1. CURB RAMPS SHALL BE LOCATED, CONSTRUCTED OR RETROFITTED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, 28 CFR, PART 35 AS SUPPLEMENTED BY THE DRAFT PUBLIC WORKS RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG), THE CITY OF TACOMA STANDARD PLANS AND THE CITY'S CURB RAMP INSTALLATION MATRIX.

2. CONDUIT FOR APS EQUIPMENT SHALL BE INSTALLED DURING CURB RAMP CONSTRUCTION AT ALL SIGNALIZED INTERSECTIONS AND AT INTERSECTIONS WHERE SIGNALIZATION IS ANTICIPATED WITHIN THE NEXT 6 YEARS. COORDINATE WITH PUBLIC WORKS - ENGINEERING, TRAFFIC SECTION.

R303.22 REFERENCE TO PROWAG SECTION, 2005 DRAFT RULE (IDENTIFIED AS CURRENT BEST PRACTICE IN ACCESSIBLE PEDESTRIAN DESIGN UNDER FHWA FEDERAL AID (504) REGULATION).

 TAPER CURB

TRANSITION PANEL FROM RAMP TO EXISTING SIDEWALK (WHERE REQUIRED TO MATCH EXISTING SIDEWALK CROSS SLOPE). MAXIMUM GRADES ARE NOT SPECIFIED BY PROWAG. ADJUST LENGTH AS NEEDED TO PROVIDE SMOOTH TRANSITION. IF PROPOSED MATCH LINE LOCATION DOES NOT FALL ON AN EXISTING JOINT IN THE SECTION OF SIDEWALK TO REMAIN, THE EXISTING WALK SHALL BE REMOVED BACK TO THE NEXT JOINT (MINIMUM 2 FEET).

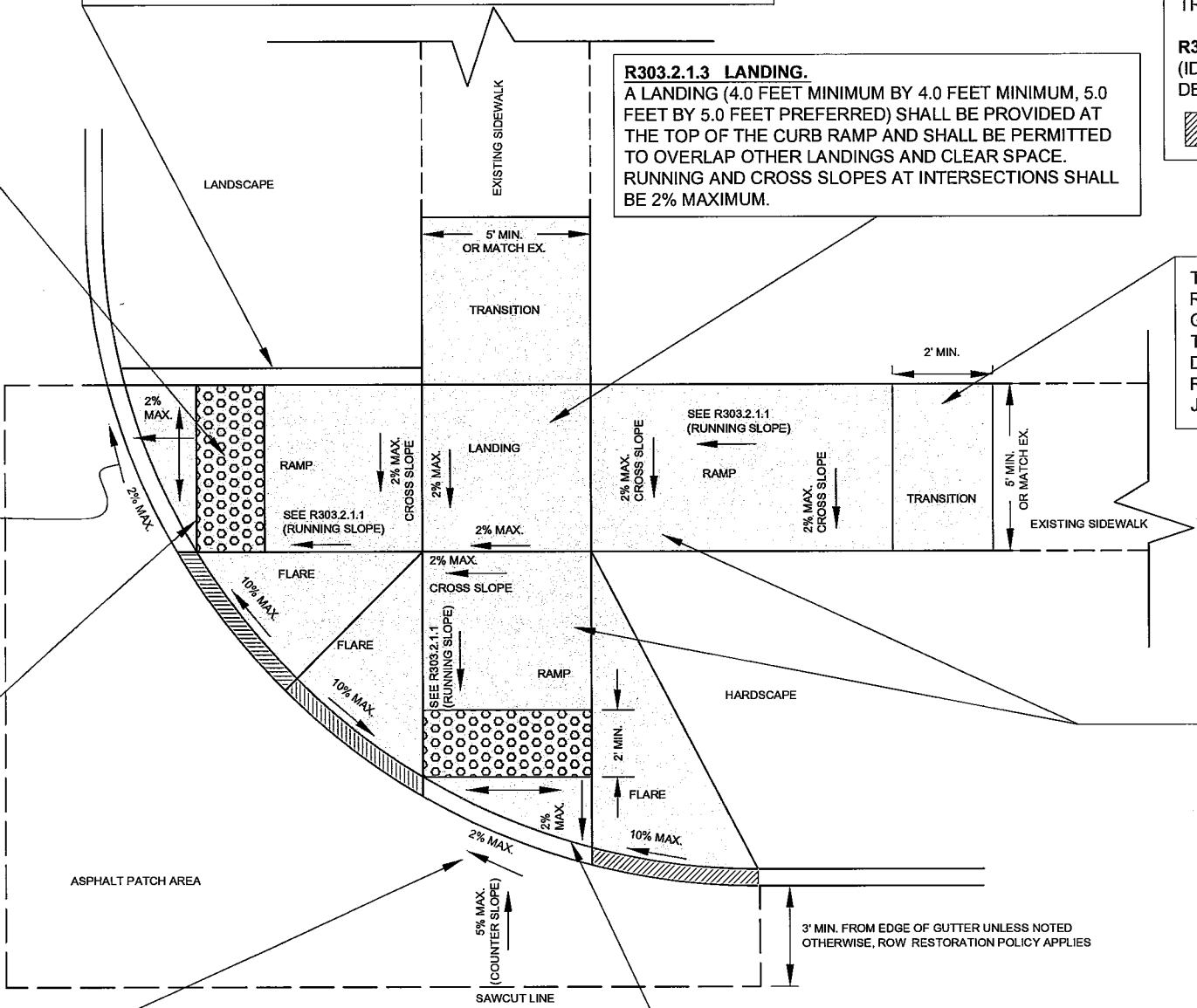
R303.2.1 PERPENDICULAR CURB RAMPS.

R303.2.1.1 RUNNING SLOPE.
THE RUNNING SLOPE SHALL BE 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FEET.

R303.2.1.2 CROSS SLOPE.
THE CROSS SLOPE SHALL BE 2% MAXIMUM.

R303.3.1 WIDTH.
THE CLEAR WIDTH OF LANDINGS, BLENDED TRANSITIONS, AND CURB RAMPS, EXCLUDING FLARES, SHALL BE 4.0 FEET MINIMUM.

R303.3.3 SURFACES.
SURFACES OF CURB RAMPS, BLENDED TRANSITIONS, AND LANDINGS SHALL COMPLY WITH R301. GRATINGS, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON CURB RAMPS, LANDINGS, BLENDED TRANSITIONS AND GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.



GRADE BREAK AT BASE OF RAMP AND GUTTER SHALL BE FLUSH

FOR INFORMATIONAL PURPOSES ONLY
DO NOT INCLUDE IN CONTRACT SPECIFICATIONS

R303.2.2 PARALLEL CURB RAMPS.

R303.2.2.1 RUNNING SLOPE.

THE RUNNING SLOPE SHALL BE 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FEET.

R303.2.1.2 CROSS SLOPE.

THE CROSS SLOPE SHALL BE 2% MAXIMUM.

R303.3.1 WIDTH.

THE CLEAR WIDTH OF LANDINGS, BLENDED TRANSITIONS, AND CURB RAMPS, EXCLUDING FLARES, SHALL BE 4.0 FEET MINIMUM.

R303.3.3 SURFACES.

SURFACES OF CURB RAMPS, BLENDED TRANSITIONS, AND LANDINGS SHALL COMPLY WITH R301. GRATINGS, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON CURB RAMPS, LANDINGS, BLENDED TRANSITIONS AND GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.

R303.3.2 DETECTABLE WARNINGS.

DETECTABLE WARNING SURFACES COMPLYING WITH R304 SHALL BE PROVIDED, WHERE A CURB RAMP, LANDING, OR BLENDED TRANSITION CONNECTS TO A STREET.

R304.1.4 SIZE.

DETECTABLE WARNING SURFACES SHALL EXTEND 24 IN. MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES), THE LANDING OR, THE BLENDED TRANSITION.

R304.2.3 ALIGNMENT.

THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP, LANDING, OR BLENDED TRANSITION AND THE STREET.

R303.3.4 GRADE BREAKS.

GRADE BREAKS AT THE TOP AND BOTTOM OF PERPENDICULAR CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN. AT LEAST ONE END OF THE BOTTOM GRADE BREAK SHALL BE AT THE BACK OF CURB. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF CURB RAMPS, BLENDED TRANSITIONS, LANDINGS, AND GUTTER AREAS WITHIN THE PEDESTRIAN ACCESS ROUTE. SURFACE SLOPES THAT MEET THE GRADE BREAKS SHALL BE FLUSH.

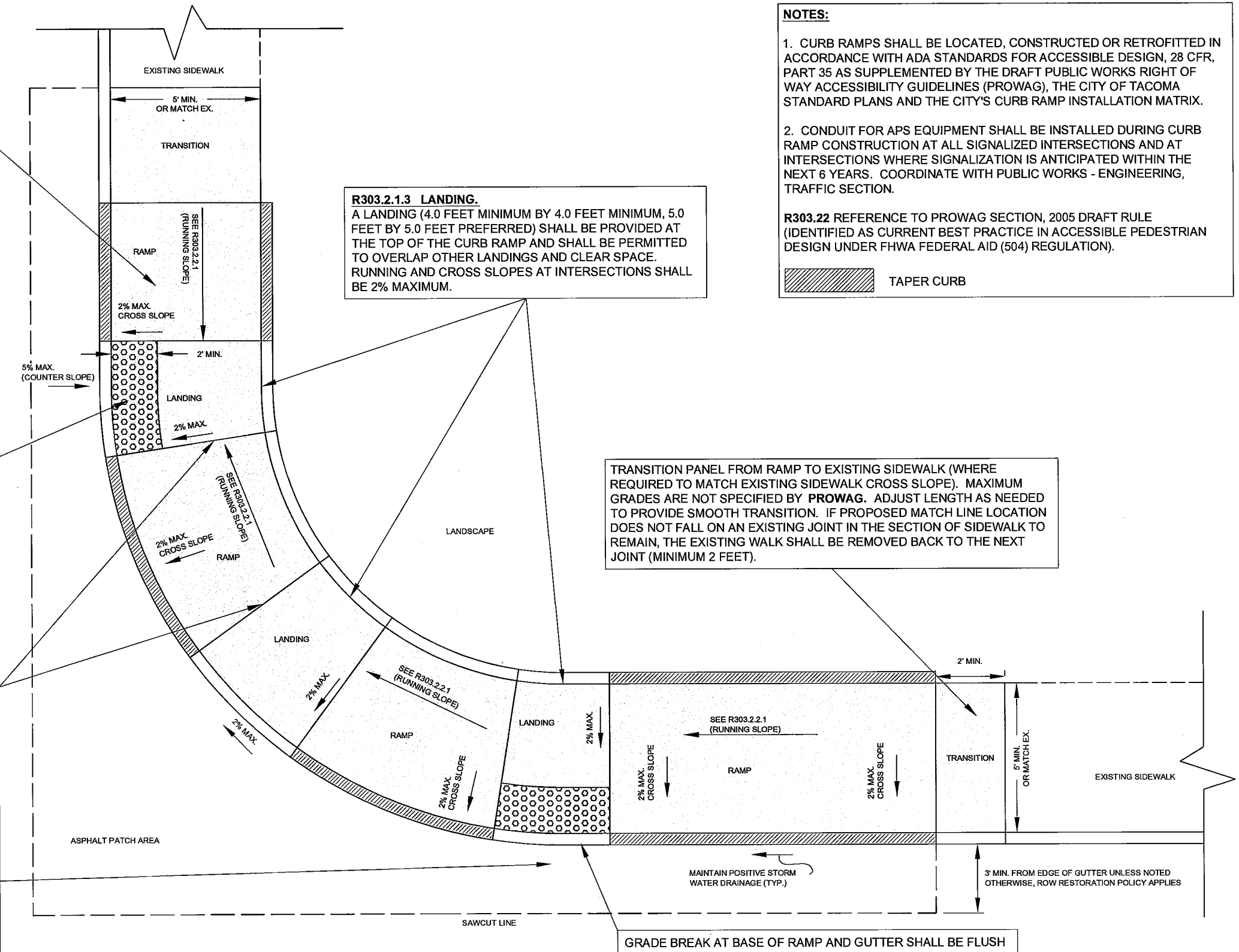
CROSSWALK.

R303.3.5 COUNTER SLOPES.

THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITION SHALL BE 5% MAXIMUM.

R303.2.1.2 CROSS SLOPE.

THE CROSS SLOPE AT INTERSECTIONS SHALL BE 2% MAXIMUM. THE CROSS SLOPE AT MID-BLOCK CROSSING SHALL BE PERMITTED TO BE WARPED TO MEET STREET GRADE.



NOTES:

1. CURB RAMPS SHALL BE LOCATED, CONSTRUCTED OR RETROFITTED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, 28 CFR, PART 35 AS SUPPLEMENTED BY THE DRAFT PUBLIC WORKS RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG), THE CITY OF TACOMA STANDARD PLANS AND THE CITY'S CURB RAMP INSTALLATION MATRIX.
2. CONDUIT FOR APS EQUIPMENT SHALL BE INSTALLED DURING CURB RAMP CONSTRUCTION AT ALL SIGNALIZED INTERSECTIONS AND AT INTERSECTIONS WHERE SIGNALIZATION IS ANTICIPATED WITHIN THE NEXT 6 YEARS. COORDINATE WITH PUBLIC WORKS - ENGINEERING, TRAFFIC SECTION.

**R303.22 REFERENCE TO PROWAG SECTION, 2005 DRAFT RULE
(IDENTIFIED AS CURRENT BEST PRACTICE IN ACCESSIBLE PEDESTRIAN
DESIGN UNDER FHWA FEDERAL AID (504) REGULATION).**

 TAPER CURB

TRANSITION PANEL FROM RAMP TO EXISTING SIDEWALK (WHERE REQUIRED TO MATCH EXISTING SIDEWALK CROSS SLOPE). MAXIMUM GRADES ARE NOT SPECIFIED BY **PROWAG**. ADJUST LENGTH AS NEEDED TO PROVIDE SMOOTH TRANSITION. IF PROPOSED MATCH LINE LOCATION DOES NOT FALL ON AN EXISTING JOINT IN THE SECTION OF SIDEWALK TO REMAIN, THE EXISTING WALK SHALL BE REMOVED BACK TO THE NEXT JOINT (MINIMUM 2 FEET).

GRADE BREAK AT BASE OF RAMP AND GUTTER SHALL BE FLUSH

FOR INFORMATIONAL PURPOSES ONLY
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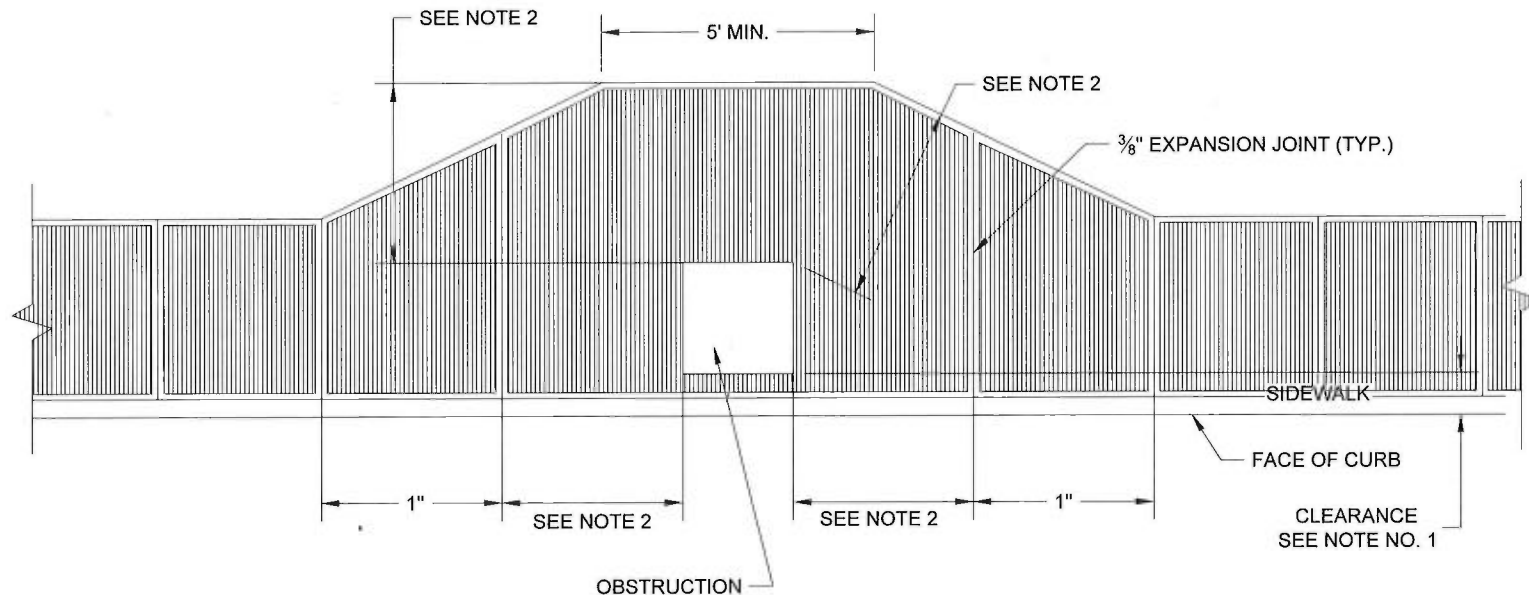
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

**PROWAG GUIDELINES
TYPICAL PARALLEL CURB RAMP
DESIGN STANDARDS**

STANDARD PLAN NO. SU-05J

NOTES:

1. The clearance between the face of curb and any obstruction, except mail boxes, shall be a minimum of 1'-6". The front of a mail box shall be 6" to 8" from the face of curb.
2. Sidewalk cafes, artwork, poles, ramps, etc., may not reduce the width of the sidewalk to less than 5' for residential streets and 7' for arterial streets and commercial areas, excluding the curb width.
3. All obstructions shall meet requirements for cane detection. See City of Tacoma Design Manual Chapter 12.
4. The following criteria shall only be used in rare circumstance when an obstruction cannot be relocated and does not allow the minimum required sidewalk width:
 - a) If the sidewalk is new or replacement construction and the sidewalk cannot meet the minimum clearance requirements due to an existing obstruction then a maximum extent feasible (MEF) is required and shall be included in the Plans. Rational supporting the MEF shall be provided by the Engineer and shall include a description of the scope of work, the site-specific factors affecting compliance, and the measures implemented to improve compliance.
 - b) When placing a new obstruction in an existing sidewalk and the minimum clearance requirements cannot be met, a variance shall be submitted and approved by the City's Traffic Section prior to construction.
5. See Tacoma's Design Manual Chapter 8, Pedestrian Facilities, for additional information on Pedestrian Access Routes (PARs).



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CITY ENGINEER

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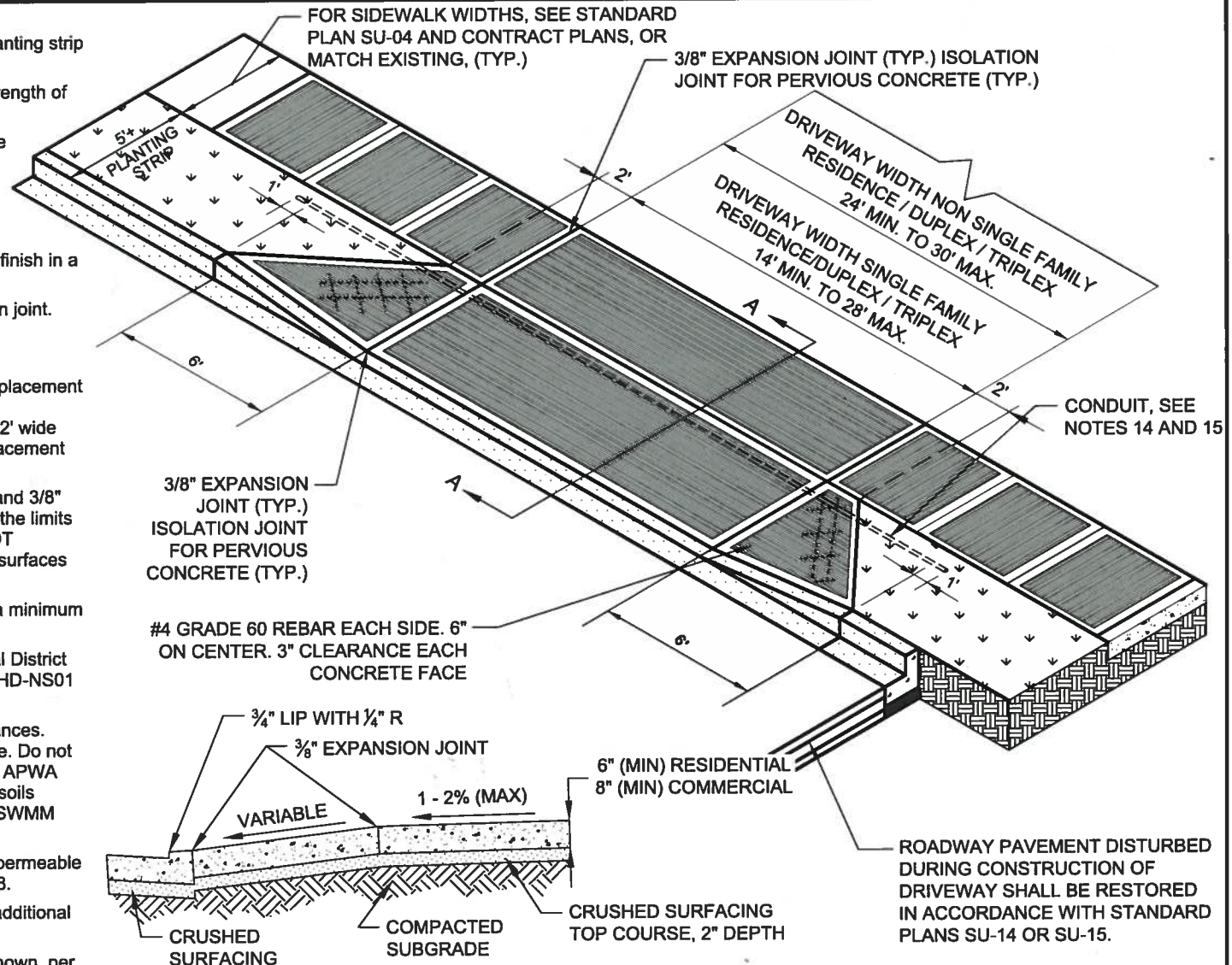
CITY OF TACOMA

SIDEWALK CLEAR WIDTHS
AND OBSTRUCTION GUIDELINES

STANDARD PLAN NO. SU-06

NOTES:

1. Type 1 access shall be used at driveways where the planting strip width is 5' or greater.
2. Standard Concrete shall be a minimum compressive strength of 3,000 PSI.
3. All joints shall be cleaned & edged. External joints to the driveway shall be 1/2" radius. Internal joints to the driveway shall be 1/4" radius.
4. Driveways wider or narrower than shown on this plan require approval of the Director of Public Works.
5. Standard concrete driveway section shall be a brushed finish in a transverse direction to the center line of driveway.
6. Driveways wider than 20' require a center line expansion joint.
7. All expansion or isolation joints shall be full depth.
8. When trenching through a driveway access:
 - 8.a. If driveway is 20' or less in width, a full driveway replacement is required.
 - 8.b. If driveway is greater than 20' in width, a minimum 2' wide cut back over undisturbed soil is required and replacement shall extend to the nearest control joint.
9. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
10. Transition panel from new access to sidewalk shall be a minimum of 5 feet.
11. For driveway entrances within the North Slope Historical District area use Standard Plan HD-NS02. See Standard Plan HD-NS01 for map of Historical District area limits.
12. Permeable surfacing may be allowed for driveway entrances. Refer to Standard Plans PD-01 and PD-02 as applicable. Do not compact subgrade for permeable surfacing and refer to APWA GSP 2-06.3(3) Subgrade for Permeable Pavements. A soils report is required and modeling may be necessary per SWMM BMP L633.
13. Geomembrane barrier required between standard and permeable sections. Refer to City of Tacoma Standard Plan GSI-18.
14. Refer to Tacoma Municipal Code 10.14, driveways for additional information.
15. A 1-1/4" Ø PVC Sch. 80 Conduit shall be installed as shown, per TMC 10.14.070. Conduit shall be buried 24 inches below finished grade.



NOTE: DESIGNED SECTION REQUIRED FOR PERMEABLE SURFACING. SEE NOTES 12 AND 13.
STANDARD CONCRETE SECTION DETAIL A-A
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CITY OF TACOMA
CEMENT CONCRETE
ACCESS
TYPE 1

STANDARD PLAN NO.

SU-07

NOTES:

1. Use the following as a guide of when each Entrance or Access Type should be used:
 - 1.a. Cement Concrete Driveway Entrances Type 1 (Entrances) or Accesses Type 1 (Accesses) shall be used at driveways where the planting strip width is 5' or greater.
 - 1.b. Cement Concrete Driveway Entrances Type 2 (Entrances) or Access Type 2 (Accesses) shall be used at driveways and alleys where the planting strip is less than 5' wide.
 - 1.c. Cement Concrete Driveway Entrance Type 3 (Entrances) or Accesses Type 3 (Accesses) shall be used at alleys where the planting strip is 5' wide or greater.
2. Standard Concrete shall be a minimum compressive strength of 3,000 PSI.
3. Concrete Joints:
 - 3.a. All joints shall be cleaned & edged.
 - 3.b. All expansion or isolation joints shall be full depth.
 - 3.c. External joints to the driveway shall be 1/2" radius. Internal joints to the driveway shall be 1/4" radius.
 - 3.d. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
4. Entrances and Accesses wider or narrower than shown on this plan require approval of the Director of Public Works.
5. Entrances and Accesses shall have a brushed finish in a transverse direction to the center line of Entrance or Access.
6. Entrances or Accesses wider than 20' require a center line expansion joint.
7. When trenching through an Entrance or Access:
 - 7.a. If Entrance or Access is 20' or less in width, full replacement is required.
 - 7.b. If Entrance or Access is greater than 20' in width, a minimum 2' wide cut back over undisturbed soil is required and replacement shall extend to the nearest control joint.
8. Transition panel from new Entrance or Access to sidewalk shall be a minimum of 5 feet.
9. For Entrances or Accesses within the North Slope Historical District area use Standard Plan HD-NS02. See Standard Plan HD-NS01 for map of Historical District area limits.
10. Permeable surfacing may be allowed for Entrances or Accesses. Refer to Standard Plans PD-01 and PD-02 as applicable. Do not compact subgrade for permeable surfacing and refer to APWA GSP 2-06.3(3) Subgrade for Permeable Pavements. A soils report is required and modeling may be necessary per SWMM BMP L633.
11. Geomembrane barrier required between standard and permeable sections. Refer to City of Tacoma Standard Plan GSI-18.
12. Refer to Tacoma Municipal Code 10.14, driveways for additional information.
13. A 2" Ø PVC Sch. 80 Pipe with capped ends shall be installed as shown, per TMC 10.14.070. Pipe shall be buried 24 inches below finished grade and have a pull string and location wire per WSDOT 9-29.3(2)A4.
14. Detectable Warning Surface shall be placed at alleys if the ADT is greater than 700, in the downtown area, located near a high pedestrian volume area, or where there are sight distance concerns. The detectable warning pattern, if needed, shall be placed the full width of the sidewalk in accordance with City of Tacoma Standard Plan SU-05A.
15. When an existing entrance or access does not meet current ADA standards as defined by the City of Tacoma's Design Manual, the entire entrance or access shall be replaced to current ADA standards.

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8/22/17

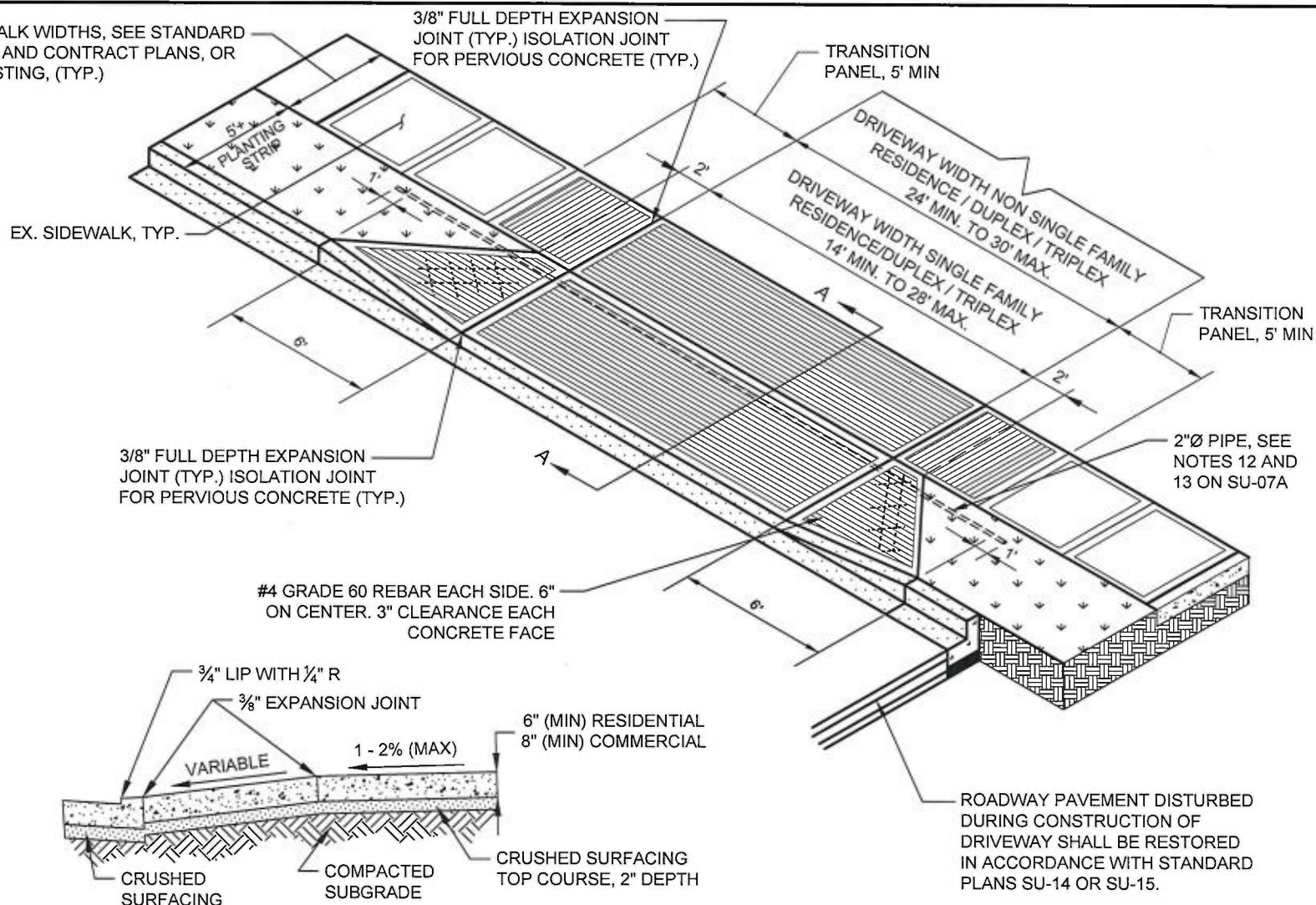
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CITY OF TACOMA
CEMENT CONCRETE DRIVEWAY
ENTRANCE AND ACCESS
TYPE 1

STANDARD PLAN NO.

SU-07A

FOR SIDEWALK WIDTHS, SEE STANDARD PLAN SU-04 AND CONTRACT PLANS, OR MATCH EXISTING, (TYP.)



NOTE: DESIGNED SECTION REQUIRED FOR PERMEABLE SURFACING. SEE NOTES 10 AND 11 ON SU-07A.

STANDARD CONCRETE SECTION DETAIL A-A

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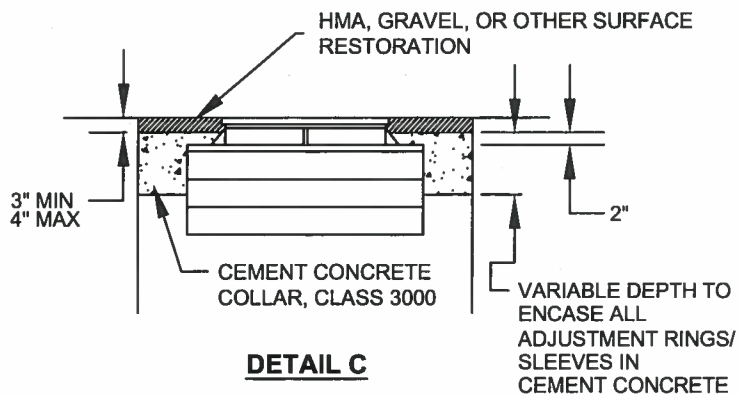
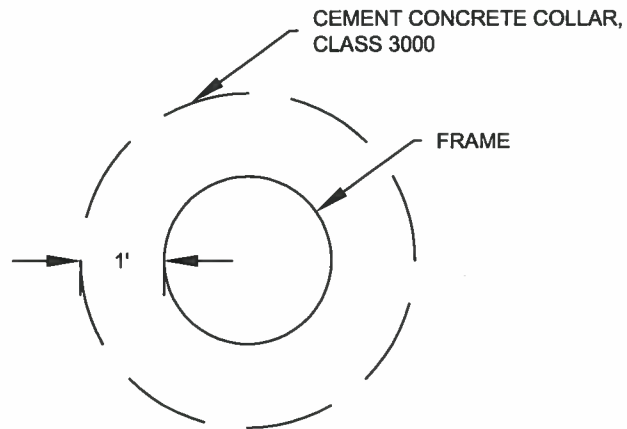
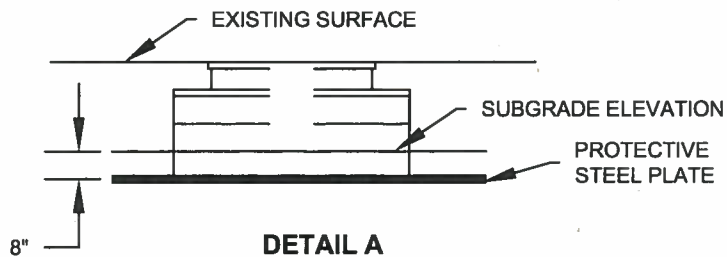
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CITY OF TACOMA
CEMENT CONCRETE DRIVEWAY
ENTRANCE AND ACCESS
TYPE 1

STANDARD PLAN NO. SU-07B



PROGRESSION OF WORK

PRIOR TO EXCAVATING OR RESURFACING:

Contractor shall:
Remove frame and risers to a depth 8-inches below subgrade.
Install steel protective plate in accordance with Detail A.
Reference the location of the utility structure.

CONSTRUCTION OF SURFACING:

Gravel surfacing:
Install base materials and gravel over protective steel plate.

Asphalt surfacing:
Install base materials and asphalt over protective steel plate.

Concrete surfacing:
Adjust frame and grate to final grade prior to placing concrete surfacing.

UPON COMPLETION OF SURFACING:

The asphalt concrete pavement or gravel surfacing shall be removed in a neat circle in accordance with Detail B.

The location of the asphalt or gravel removal shall be based upon the reference location established by the Contractor.

Crushed surfacing and base materials shall be removed and disposed of to allow the removal of the steel protective plate.

The structure shall be adjusted to finish grade utilizing the same methods of construction as specified for new construction in Section 7-05.

For hot mix asphalt, the area shall then be backfilled with Class 3000 cement concrete to an elevation of 3 to 4 inches below the finished pavement surface. 24-hours after placing the concrete, HMA pavement CL. 3/8" PG 64-22 shall be placed in accordance with Standard Plan No. SU-15.

For non-paved surfaces, the area shall be backfilled with Class 3000 cement concrete to an elevation of 3 to 4 inches below the top of the casting and then backfilled with crushed surfacing top course and compacted.

NOTE:

All general provisions, construction and warranty requirements of the Right of Way Restoration Policy will be followed.

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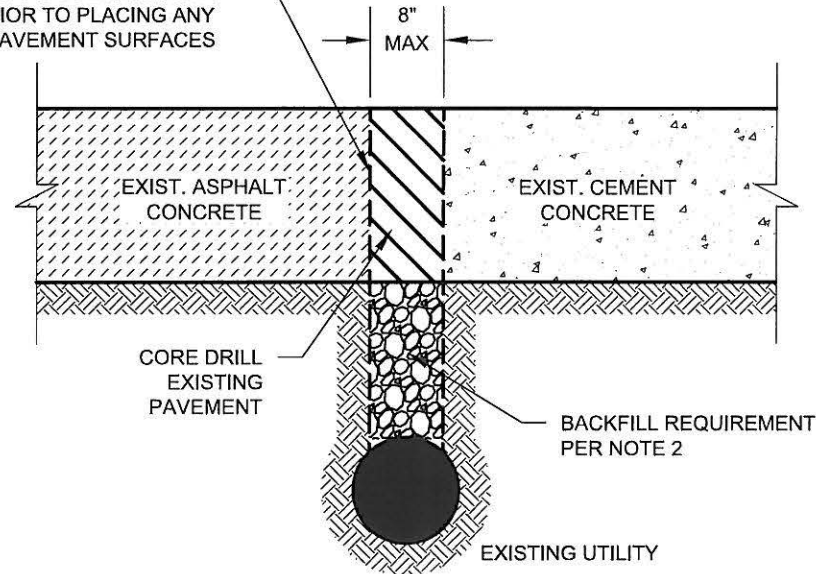
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UTILITY ADJUSTMENT

STANDARD PLAN NO. SU-25

EXISTING SURFACES SHALL BE PREPARED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 5-04.3(5)A PRIOR TO PLACING ANY NEW PAVEMENT SURFACES



NOTES:

1. The existing pavement shall be cut full depth with an eight inch diameter core drill. The subbase material shall be removed using a vacuum excavator, keeping the excavation as minimal as possible.
2. Backfill the excavation with a six inch cushion of crushed rock over the utility then place the remaining void with CDF or compacted CSTC.
3. For asphalt concrete streets, repair the cored pavement section with HMA Class $\frac{1}{2}$ " PG 64-22 and seal the joint.
4. For cement concrete pavement streets, replace the cored section with Class 6000 cement concrete.
5. If excavation is larger than 8" core, restoration shall comply with the Right of Way Restoration Policy.

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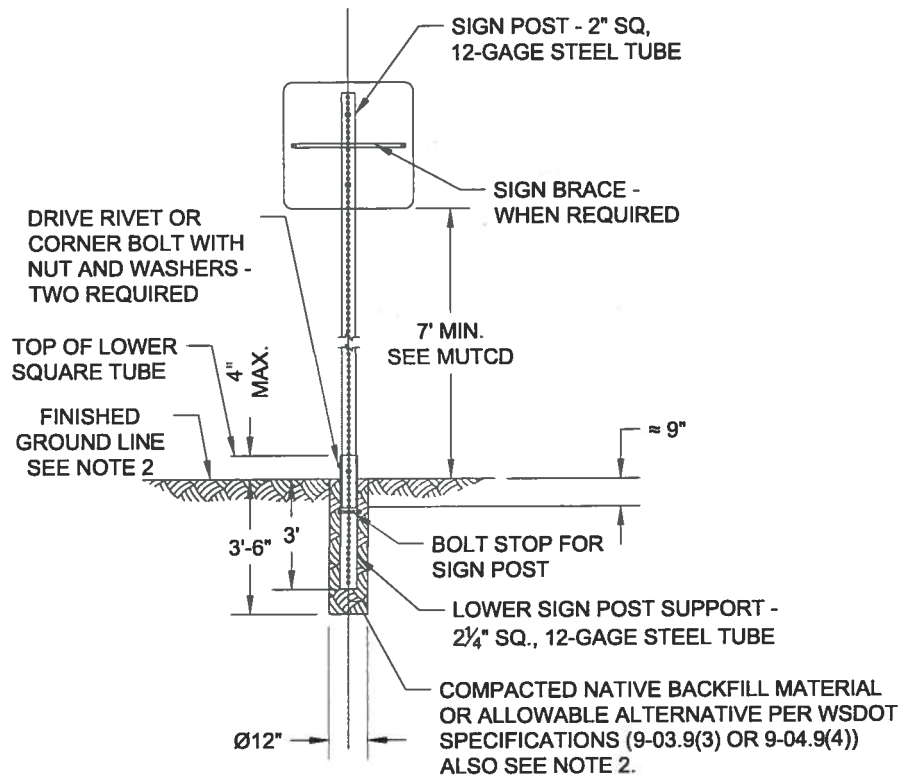
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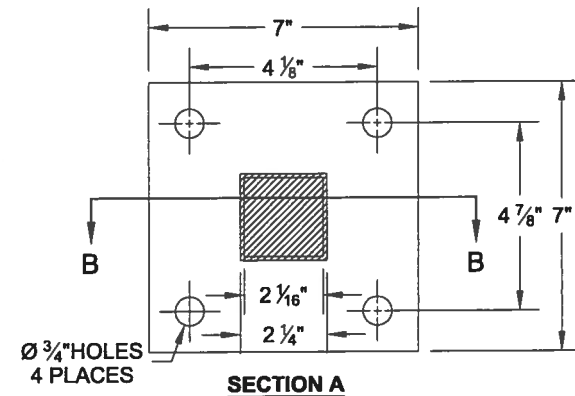
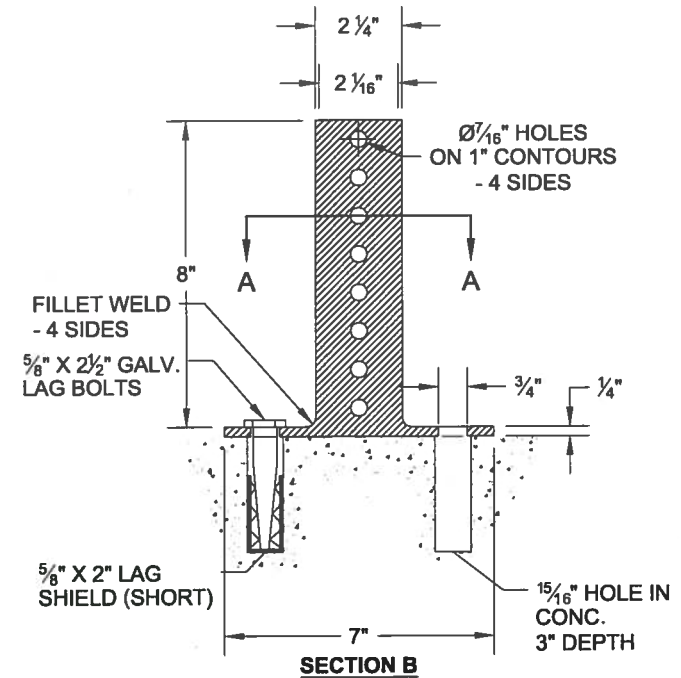
STANDARD PLAN NO. SU-27

NOTES:

1. Surface mounting of sign posts, especially within traffic islands or medians, is only allowable with special authorization from the city's traffic engineering group, (Exception: Surface mounting of flexible post object markers within islands or medians is permitted).
2. If finished ground line is a hard surface, then compacted native backfill material shall be concrete with the top of foundation being smooth, dense, and uniform to finished ground line.



**SIGN SUPPORT DETAIL
FOR STEEL SIGN POST**



**BASE PLATE DETAIL FOR
STEEL SIGN POST SURFACE MOUNTING
(SEE NOTE 1)**

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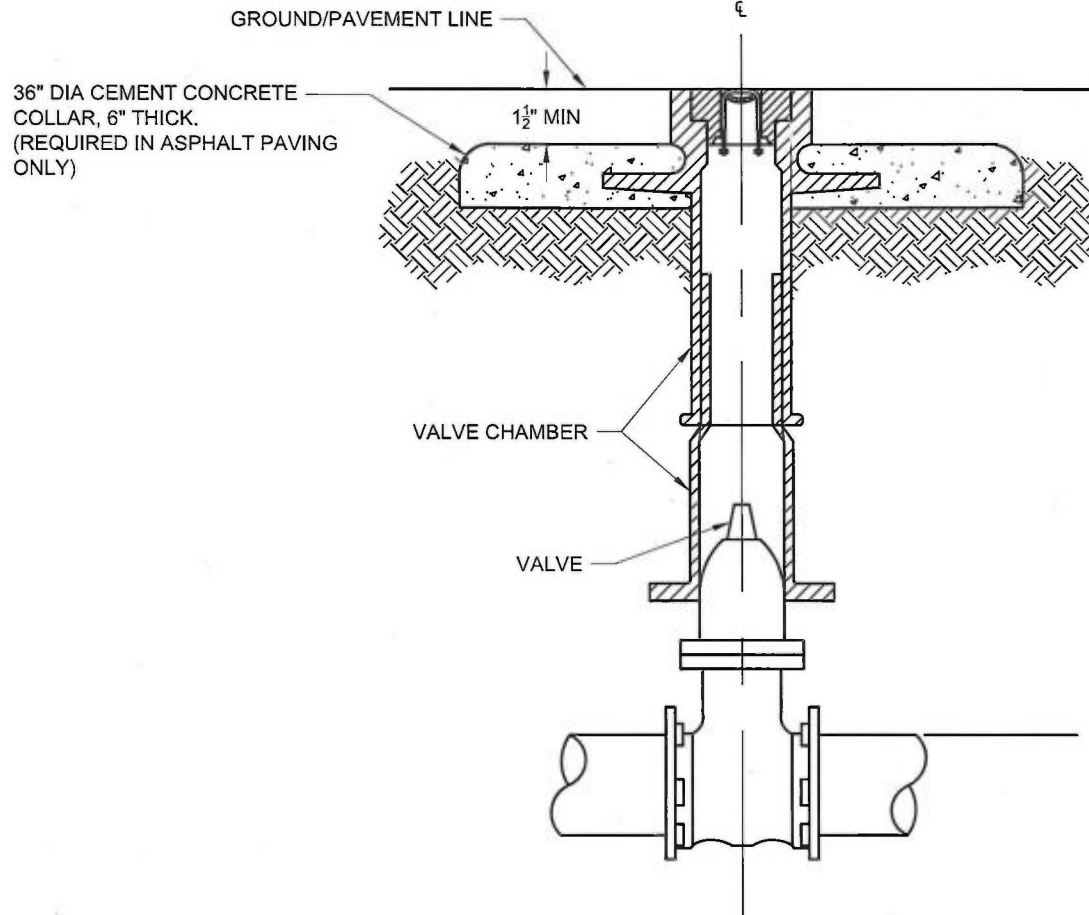
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CITY OF TACOMA

SIGN POST
INSTALLATION

STANDARD PLAN NO. SU-34



NOTES:

Class 3000 cement concrete shall be placed, 1 1/2" min, below the finished pavement surface.

24-hours after placing the cement collar, HMA Class 3/8" PG 64-22 shall be placed in accordance with Standard Plan SU-15.

If the valve chamber being adjusted belongs to Tacoma Water, the Contractor shall contact Tacoma Water, Operations, at 253-502-8742 for final inspection.

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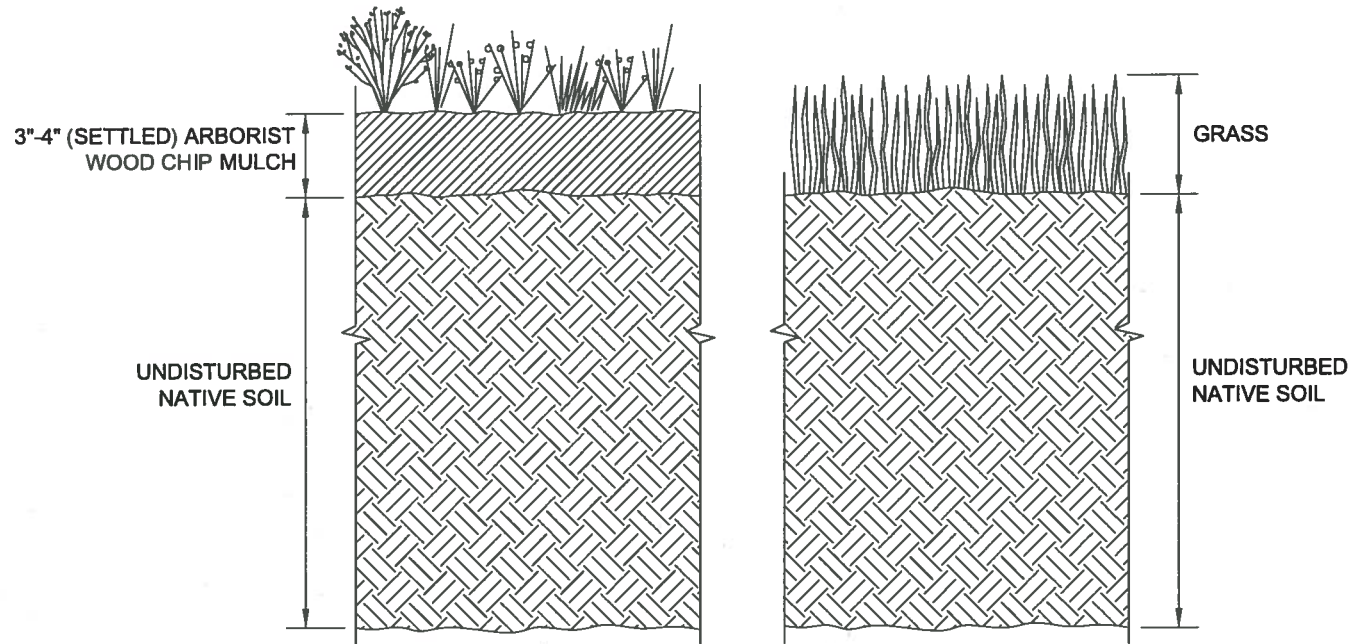
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CITY OF TACOMA
VALVE CHAMBER
COLLAR DETAIL

STANDARD PLAN NO. SU-37

PLANTING BEDS

TURF (LAWN) AREAS



OPTION 1: Leave native vegetation and soil undisturbed, and protect from compaction during construction. Identify areas of the site that will not be stripped, logged, graded or driven on, and fence off those areas to prevent impacts during construction. If neither soils nor vegetation are disturbed, these areas do not require amendment.

See SWMM BMP L613 for additional information.

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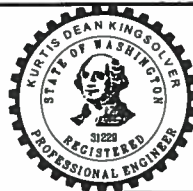
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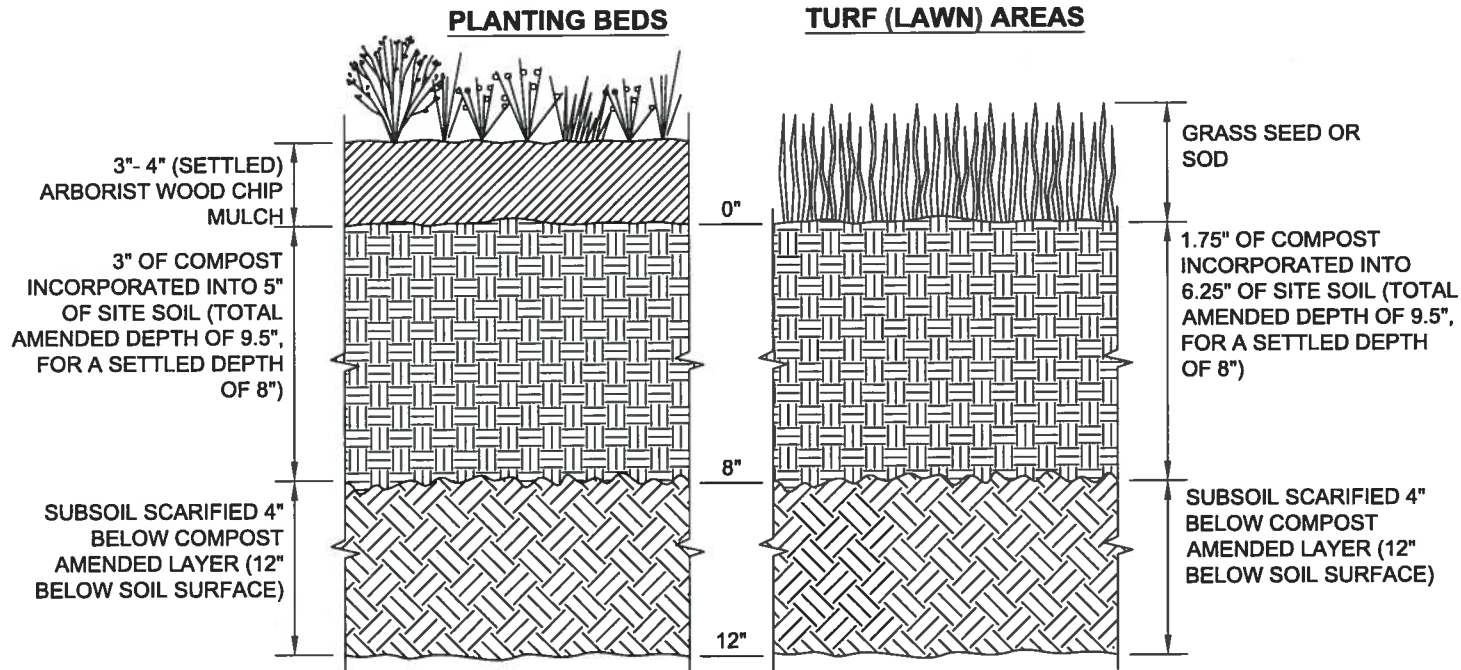
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CITY OF TACOMA
BMP L613 POST-CONSTRUCTION
SOIL QUALITY AND DEPTH
OPTION 1 - NO DISTURBANCE

STANDARD PLAN NO. GSI-01a



OPTION 2: Amend existing site topsoil, or subsoil, either at preapproved rate or at calculated rate based on tests of the soil and amendments. All soil areas disturbed or compacted during construction, and not covered by buildings or pavement, shall be amended with compost as described below.

Scarification: Scarify or till subgrade to 8 inches depth (or to depth needed to achieve a total depth of 12 inches of uncompacted soil after calculated amount of amendment is added). Entire surface should be disturbed by scarification. Do not scarify within drip line of existing trees to be retained or where scarification would damage tree roots or as determined by the engineer.

A. Planting Beds

1. **PREAPPROVED RATE:** Place 3 inches of composted material and rototill into 5 inches of existing site soils (a total amended depth of about 9.5 inches, for a settled depth of 8 inches).

2. **CALCULATED RATE:** Place calculated amount of composted material or approved organic material and rototill into depth of soil needed to achieve 8 inches of settled soil at 10% organic content.

Rake beds to smooth and remove surface rocks larger than 2 inches diameter. Mulch planting beds with 3" - 4" of organic mulch or stockpiled duff.

B. Turf (Lawn) Areas

1. **PREAPPROVED RATE:** Place 1.75 inches of composted material and rototill into 6.25 inches of existing site soils (a total amended depth of about 9.5 inches, for a settled depth of 8 inches).

2. **CALCULATED RATE:** Place calculated amount of composted material or approved organic material and rototill into depth of soil needed to achieve 8 inches of settled soil at 5% organic content.

Water or roll to compact to 85% of maximum dry density. Rake to level and remove surface rocks larger than 1 inch diameter.

Setbacks: to prevent uneven settling, do not compost-amend soils within 3 feet on center of utility infrastructure (poles, vaults, meters etc.). Within one foot of pavement edge, curbs and sidewalks; soil should be compacted to approximately 90% max. modified proctor density (ASTM D1557) to ensure a firm surface. Do not compact within the tree protection zone. See Std. Plan LS-08 and LS-09.

See SWMM BMP L613 for additional information.

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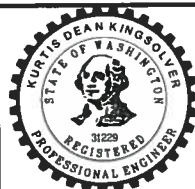
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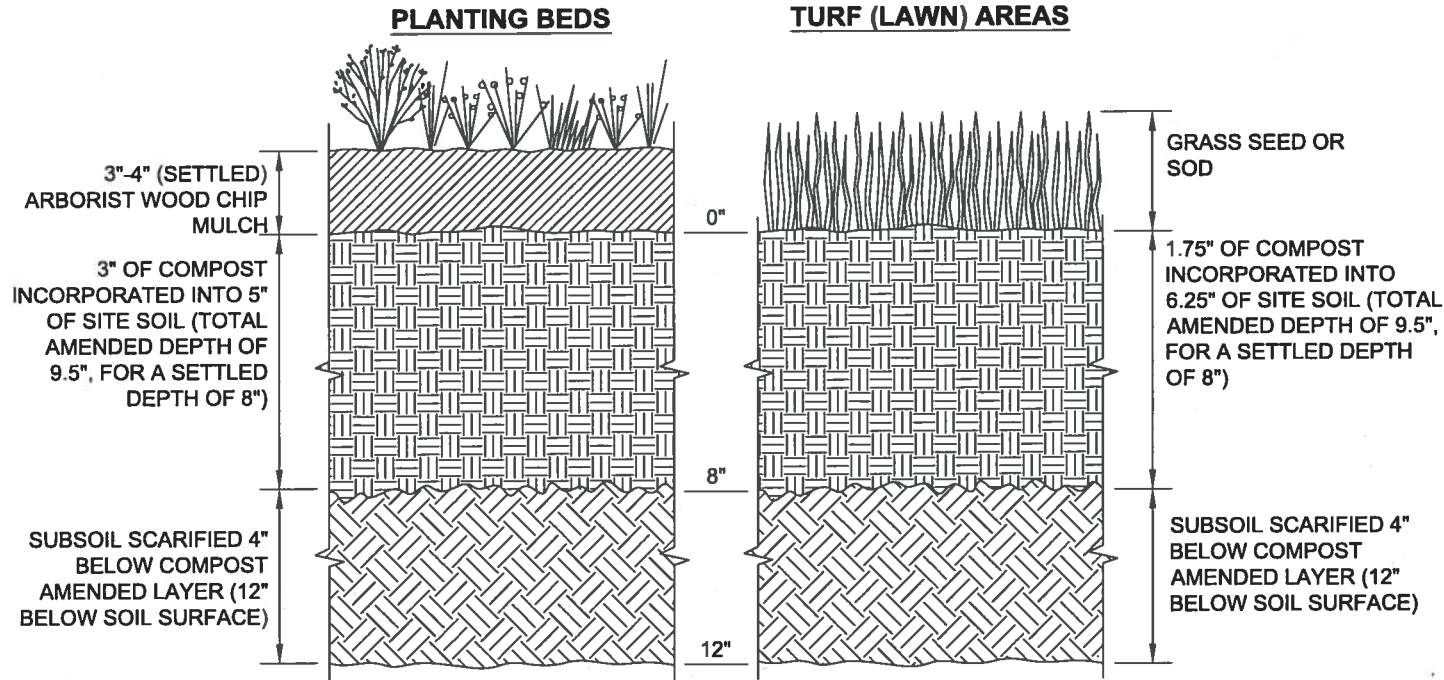
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CITY OF TACOMA
BMP L613 POST CONSTRUCTION SOIL
QUALITY AND DEPTH
OPTION 2 - AMEND IN PLACE

STANDARD PLAN NO. GSI-01b



OPTION 3: Stockpile existing topsoil during grading. Stockpile and cover soil with weed barrier material that sheds moisture yet allows air transmission, in approved location, prior to grading. Replace stockpiled topsoil prior to planting. Stockpiled topsoil shall be tested and amended if needed to meet the organic matter or depth requirements either at preapproved rate or calculated rate. All soil areas disturbed or compacted during construction, and not covered by buildings or pavement, shall be amended with compost as described below.

Scarification: If placed topsoil plus compost or other organic material will amount to less than 12 inches, scarify or till subgrade to depth needed to achieve 12 inches of loosened soil after topsoil and amendment are placed. Entire surface should be disturbed by scarification. Do not scarify within drip line of existing trees to be retained.

A. Planting Beds	B. Turf (Lawn) Areas
1. PREAPPROVED RATE: Place 3 inches of composted material and rototill into 5 inches of replaced soil (a total amended depth of about 9.5 inches, for a settled depth of 8 inches).	1. PREAPPROVED RATE: Place 1.75 inches of composted material and rototill into 6.25 inches of replaced soil (a total amended depth of about 9.5 inches, for a settled depth of 8 inches).
2. CALCULATED RATE: Place calculated amount of composted material or approved organic material and rototill into depth of replaced soil needed to achieve 8 inches of settled soil at 10% organic content.	2. CALCULATED RATE: Place calculated amount of composted material or approved organic material and rototill into depth of replaced soil needed to achieve 8 inches of settled soil at 5% organic content.
Rake beds to smooth and remove surface rocks larger than 2 inches diameter. Mulch planting beds with 3" - 4" of organic mulch or stockpiled duff.	Water or roll to compact to 85% of maximum dry density. Rake to level and remove surface rocks larger than 1 inch diameter.

Setbacks: to prevent uneven settling, do not compost-amend soils within 3 feet on center of utility infrastructure (poles, vaults, meters etc.). Within one foot of pavement edge, curbs and sidewalks; soil should be compacted to approximately 90% max. modified proctor density (ASTM D1557) to ensure a firm surface. Do not compact within the tree protection zone. See Std. Plans LS-08 and LS-09.

See SWMM BMP L613 for more information.

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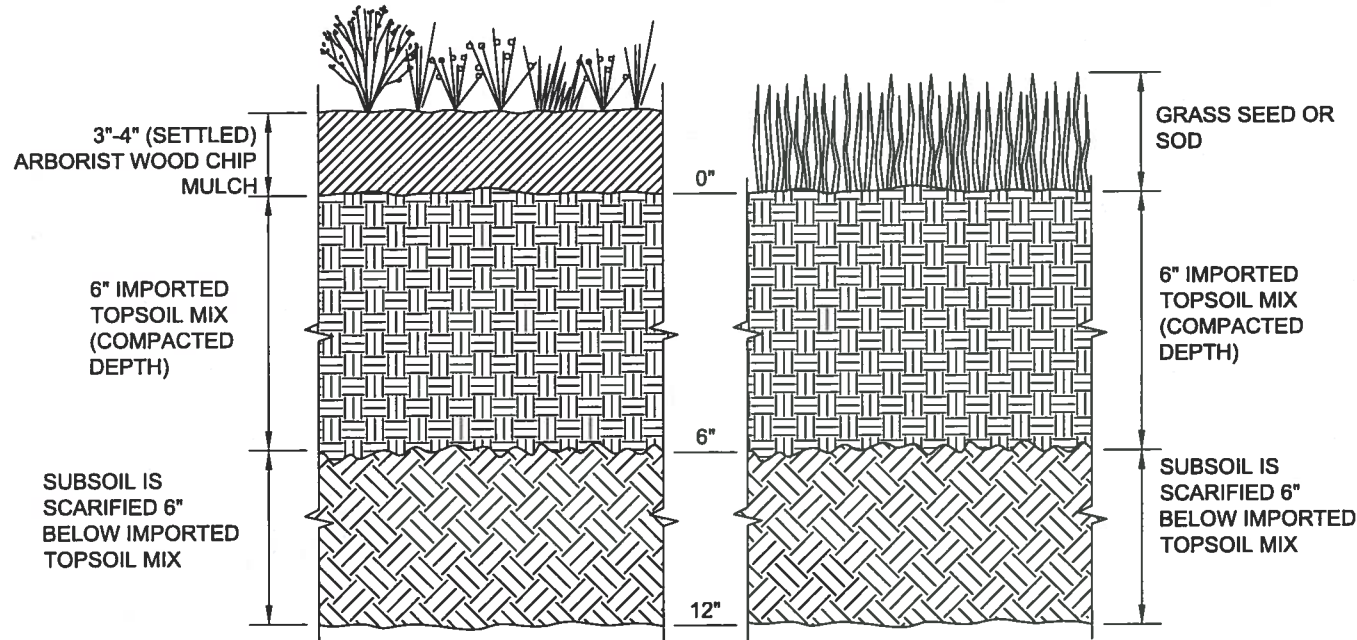
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CITY OF TACOMA
BMP L613 POST CONSTRUCTION SOIL
QUALITY AND DEPTH
OPTION 3 - STOCKPILE AND AMEND
STANDARD PLAN NO. GSI-01c

PLANTING BEDS

TURF (LAWN) AREAS



OPTION 4: Import topsoil mix of sufficient organic content and depth to meet the requirements. All soil areas disturbed or compacted during construction, and not covered by buildings or pavement, shall be restored as described below.

Scarification: scarify or till subgrade in two direction to 6 inches depth. Entire surface shall be disturbed by scarification. Do not scarify within drip line of existing trees to be retained.

A. Planting Beds

Use imported topsoil mix containing 10% organic matter (typically around 40% compost). Soil portion must be sand or sandy loam as defined by the USDA. Place 3 inches of imported topsoil mix on surface and till into 2 inches of soil. Place 3 inches of imported topsoil mix on surface and till into 2 inches of soil. Place second lift of 3 inches topsoil mix on surface.

Rake beds to smooth and remove surface rocks larger than 2 inches diameter. Mulch planting beds with 3" - 4" of organic mulch or stockpiled duff.

B. Turf (Lawn) Areas

Use imported topsoil mix containing 5% organic matter (typically around 25% compost). Soil portion must be sand or sandy loam as defined by the USDA. Place 3 inches of imported topsoil mix on surface and till into 2 inches of soil. Place second lift of 3 inches topsoil mix on surface.

Water or roll to compact to 85% of maximum dry density. Rake to level and remove surface rocks larger than 1 inch diameter.

Setbacks: to prevent uneven settling, do not compost-amend soils within 3 feet on center of utility infrastructure (poles, vaults, meters etc.). Within one foot of pavement edge, curbs and sidewalks; soil should be compacted to approximately 90% max. modified proctor density (ASTM D1557) to ensure a firm surface. Do not compact within tree protection zone. See Std. Plans LS-08 and LS-09.

See SWMM BMP L613 for additional information.

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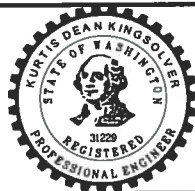
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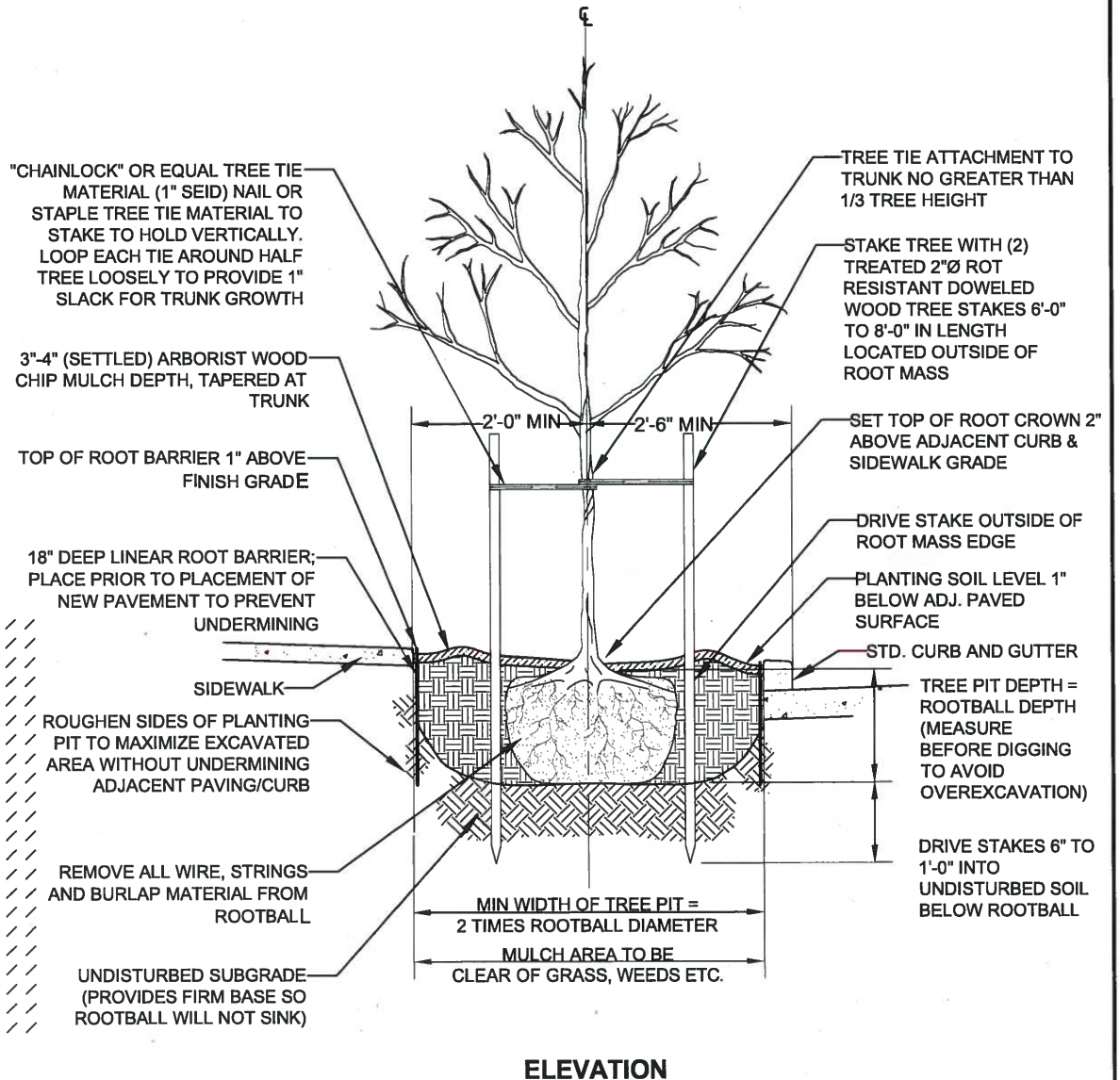
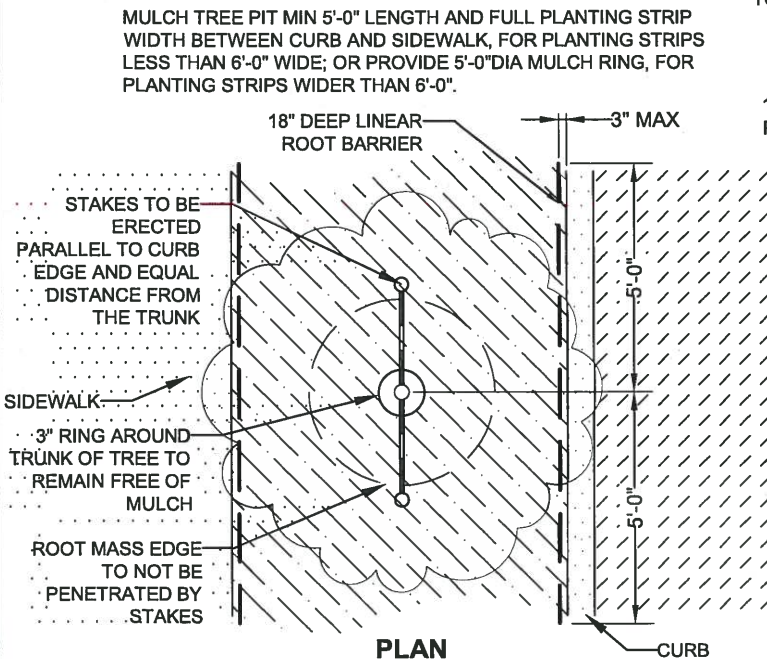
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CITY OF TACOMA
BMP L613 POST CONSTRUCTION SOIL
QUALITY AND DEPTH
OPTION 4 - IMPORTED TOPSOIL
STANDARD PLAN NO. GSI-01d

NOTES:

1. Planting includes removal of stakes one year after installation.
2. Shape soil surface to provide 4' dia watering ring.
3. Tree clearance shall be per STD PLAN LS-02.
4. See STD PLAN LS-03 for tree well dimension detail.
5. Root barriers shall be an injection molded or extruded modular component made of high density polypropylene or polyethylene plastic. 18" depth x 10' length root barrier is required along edge of roadways, curbs, driveways, trails, sidewalks, or other structures where root ball is within 4 feet. install root barrier for newly planted trees only.



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STREET TREE PLANTING

STANDARD PLAN NO. LS-01

NOTES:

- Street trees shall have a trunk free of branches up to the height listed below when planted:
 - Small trees, whose mature height is 15 to 25 feet, shall have a trunk free of branches up to a minimum of 4 feet.
 - Conifer/evergreen trees shall have a trunk free of branches up to a minimum of 2 feet.
 - Trees with ascending branches (examples - *Ulmus Americana* and *Zelkova Serrata*) may be branched 1 foot or More below the standard height and still provide proper clearance when planted.
 - All other trees shall have a trunk free of branches up to a minimum of 6 feet.
- Street trees shall not be less than 1.5 inches in caliper for broadleaf trees or 6 feet in height for evergreen/conifers.
- For minimum unpaved planting area dimensions refer to tree well dimension detail, STANDARD PLAN NO. LS-03.
- The accessible portion of the sidewalk must be a minimum of 5 feet and be free of obstructions.

MINIMUM TREE SETBACKS (AT PLANTING):

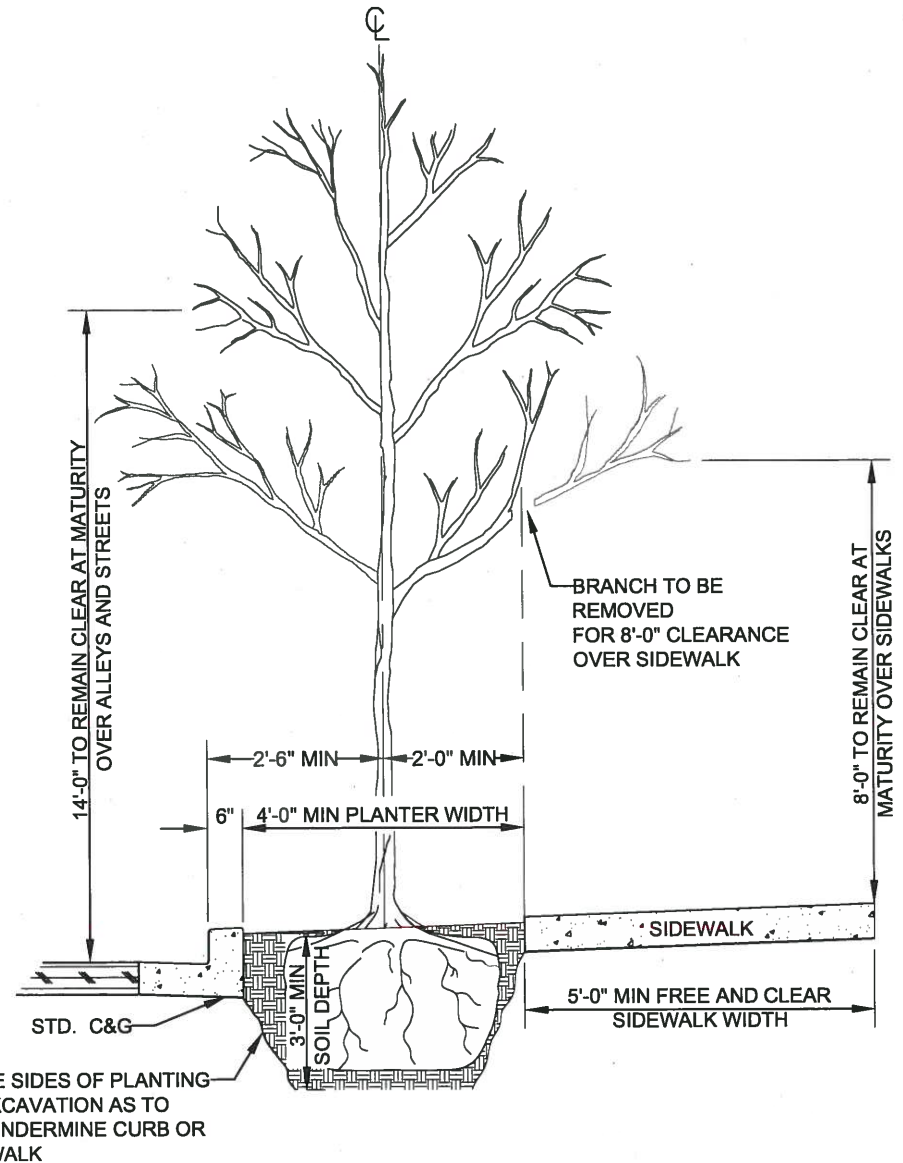
Centerline of tree to centerline of:	
Street corner (extension of outside face of curb)	25'-0"
Stop or yield sign	25'-0"
Utility pole	15'-0"
Other traffic control sign	5'-0"

Centerline of tree to edge of:	
Driveway	5'-0"
Face of curb	2'-6"
Pavement	2'-0"

Edge of tree to edge of:	
Utility worker access lids	5'-0"
Gas shutoff valves	5'-0"
Fire hydrant & hydrant branch	10'-0"
Water meter, water service & water mains	5'-0"
Storm inlet, cb, & manhole	5'-0"
Storm/sanitary service connections & mains	5'-0"

MINIMUM TREE CLEARANCES (AT MATURITY):

Lowest branch to surface of:	
Streets	14'-0"
Sidewalks	8'-0"



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STREET TREE CLEARANCE

STANDARD PLAN NO. LS-02

TREE SIZE:

Trees are categorized as small, medium or large based the canopy factor, which takes into account the trees mature height, crown spread and growth rate. The following formula shall be used to determine the canopy factor:

$$(\text{MATURE HEIGHT IN FEET}) \times (\text{MATURE WIDTH IN FEET}) \times (\text{GROWTH RATE}) \times (0.01) = \text{CANOPY FACTOR}$$

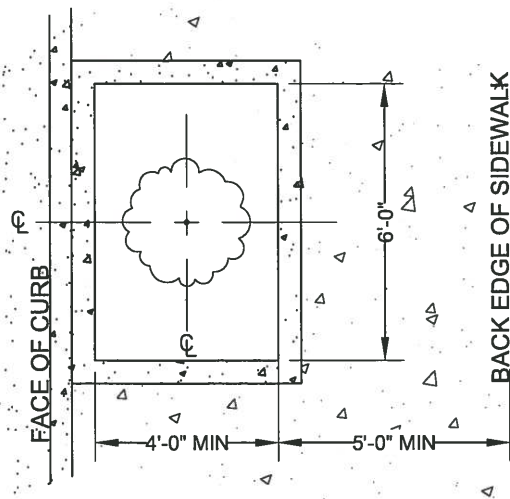
The growth rate number is 1 for slow growing trees, 2 for moderately growing trees and 3 for fast growing trees.

Tree size categories are as follows:

- A. LARGE TREES = Canopy factor greater than 90
- B. MEDIUM TREES = Canopy factor from 40-90
- C. SMALL TREES = Canopy factor less than 40

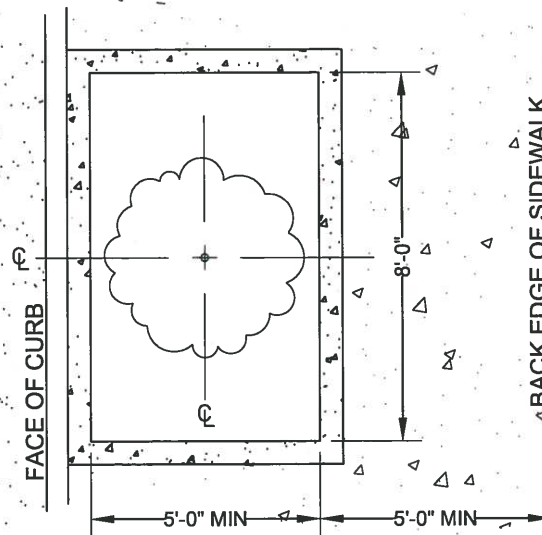
SMALL TREES

24 SQUARE FEET MIN
UNPAVED PLANTING AREA



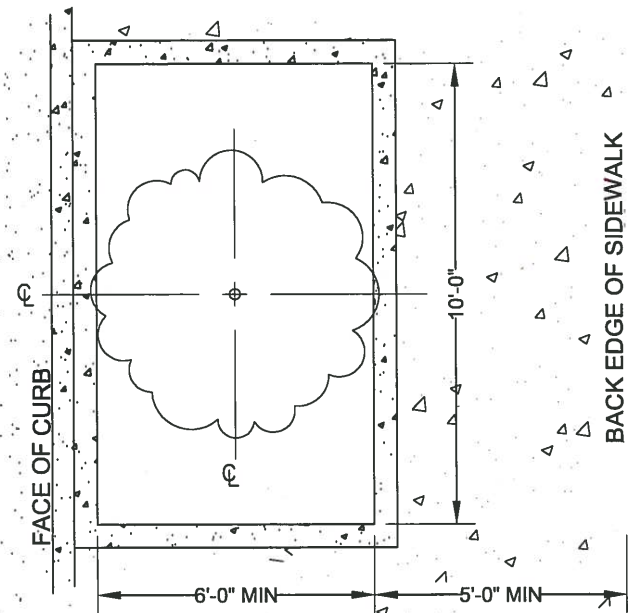
MEDIUM TREES

40 SQUARE FEET MIN
UNPAVED PLANTING AREA



LARGE TREES

60 SQUARE FEET MIN
UNPAVED PLANTING AREA



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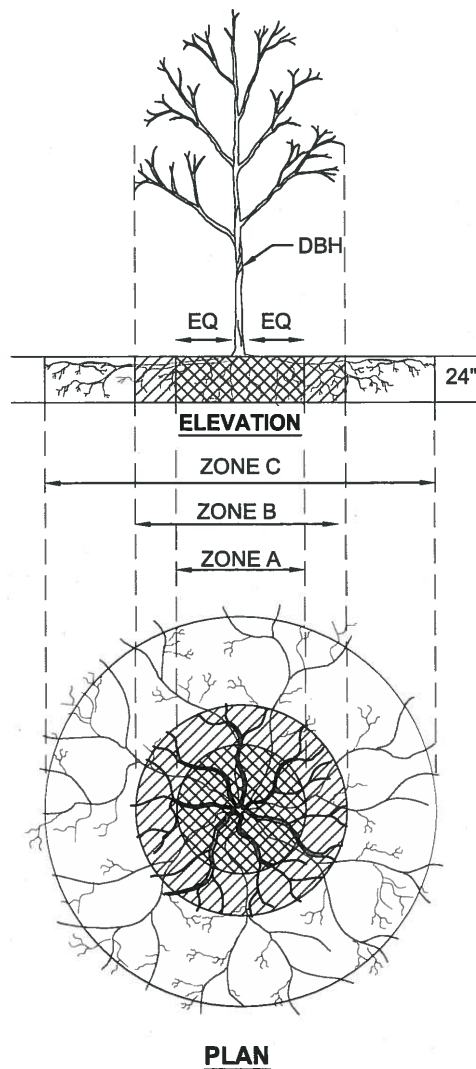
CITY ENGINEER

DATE

TREE WELL DIMENSION

STANDARD PLAN NO.

LS-03



ZONE A (CRITICAL ROOT ZONE)

The Critical Root Zone is the area under a tree measuring 1 foot of radius per 1 inch of diameter at breast height (DBH) from the trunk outwards and 24 inches in depth. For example: for a 10 inch dbh tree, the Critical Root Zone is located at least 10 feet out from the trunk and 24 inches deep.

RESTRICTIONS

1. No disturbance allowed without site-specific inspection and approval of methods to minimize root damage.
2. If roots larger than 2" IN DIA. are encountered, inspection and approval is required before proceeding trenching/excavation work.
3. Tunneling is required to install lines 3'-0" below grade or deeper.

ZONE C (FEEDER ROOT ZONE)

The Feeder Root Zone is the area under a tree measuring 2 feet of radius per 1 inch of DBH from the trunk outwards and 24 inches in depth. For example: for a ten inch diameter tree, The Critical Root Zone is located at least 20 feet out from the trunk and 24 inches deep.

RESTRICTIONS

1. Operation of heavy equipment and/or stockpiling of materials subject to approval. *Surface protection measures required
2. Trenching permitted as follows:
 - excavation by hand or WITH hand-driven trencher maybe required
 - Minimize trench width to the extent possible
 - Maintain 2/3 or more of ZONE C in an undisturbed condition

ZONE B (DRIP LINE)

The Drip Line is the area below the tree in which the boundary is designated by the edge of the tree's crown.

RESTRICTIONS

1. Operation of heavy equipment and/or stockpiling of materials subject to approval. *Surface protection measures required
2. Trenching permitted as follows:
 - Excavation by hand or with a hand-driven trencher may be required
 - Minimize trench width to the extent possible
 - No disturbance permitted within ZONE A
 - Maintain 2/3 or more of zone b in an undisturbed condition
3. Tunneling may be required for trenches deeper than 3'-0"

***SURFACE PROTECTION MEASURES**

1. Wood chip mulch layer, 6"-12" depth; or
2. 4" wood chip mulch layer under 3/4" plywood; or
3. 4" gravel over staked geotextile fabric
4. 4" wood chip mulch layer under steel plates;
5. 4" wood chip mulch layer under logging road mats

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TREE PROTECTION
DURING CONSTRUCTION

STANDARD PLAN NO. LS-08

TREE PROTECTION ZONE (TPZ)

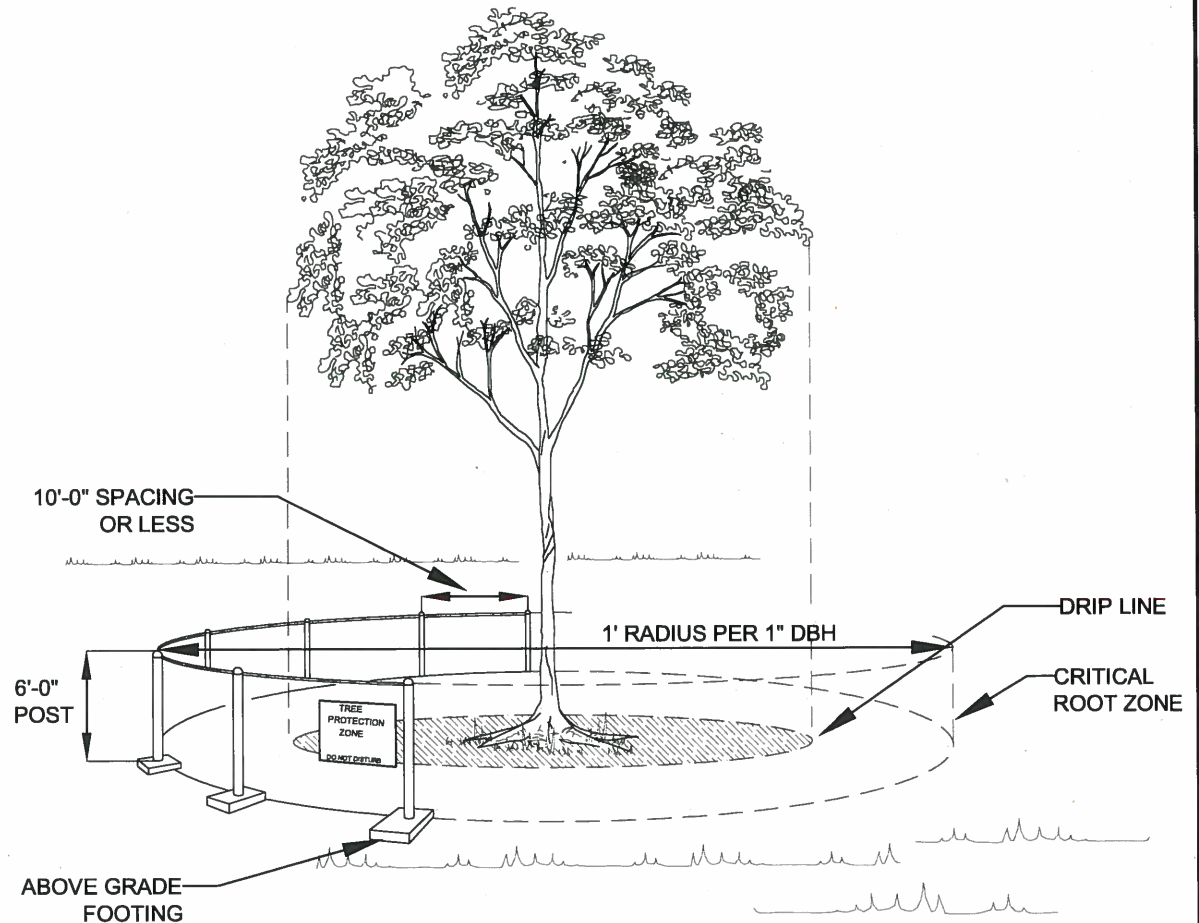
The Tree Protection Zone is an arborist defined area surrounding the trunk intended to protect the roots and soil to ensure future tree health and safety.

The location of the Tree Protection Zone is at the edge of the Critical Root Zone OR Drip Line, whichever is greater, or area as defined by the projects arborist.

For Critical Root Zone and Drip Line measurements see **TREE PROTECTION DURING CONSTRUCTION STANDARD PLAN NO. LS-08**.

TREE PROTECTION FENCING

1. Erect readily visible six-foot (6'-0") high chain link fencing at the edge of the Tree Protection Zone, and at the boundary of any open space tracts or conservation easements that abut the construction site except where, due to space restrictions, a specific distance is specified by the project's arborist.
2. Fencing shall be secured 6 foot metal posts with movable footings located above ground. metal posts shall not be more than 10 feet apart.
3. Fencing shall be flush with the initial undisturbed grade.
4. Signs shall be attached to the fencing stating that the tree is designated for protection and the area inside the fencing is a TPZ, which is not to be disturbed unless prior approval has been obtained from the city and/or the project's arborist.
5. Maintain the fencing in place until the city authorizes removal or a final certificate of occupancy is issued, whichever occurs first.
6. Ensure that any landscaping done in the TPZ, subsequent to the removal of the fencing, shall be accomplished with light machinery or hand labor.
7. No construction activity shall occur within the TPZ, including but not limited to:
 - Dumping or storage of materials such as building supplies, soil, waste items, and
 - storage of vehicles or equipment



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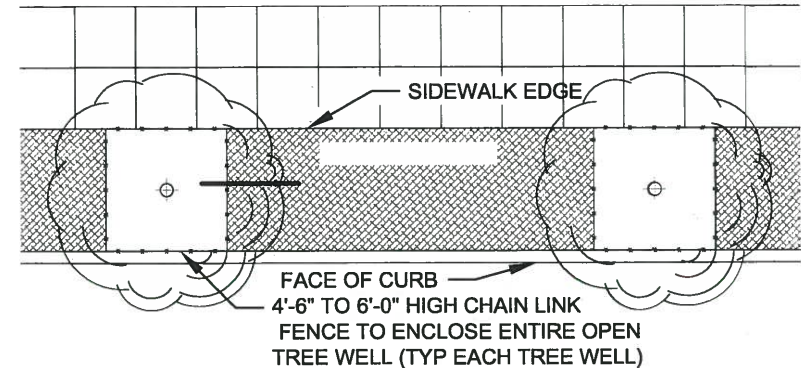
7/4/15
DATE

**TREE PROTECTION
DURING CONSTRUCTION**

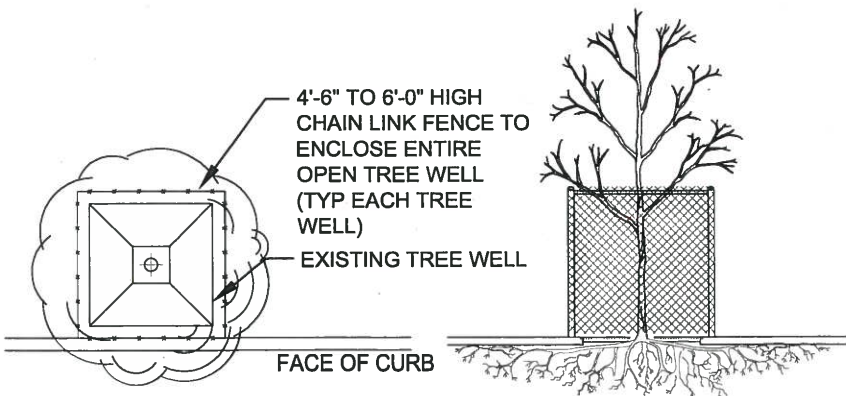
STANDARD PLAN NO. LS-09

NOTES:

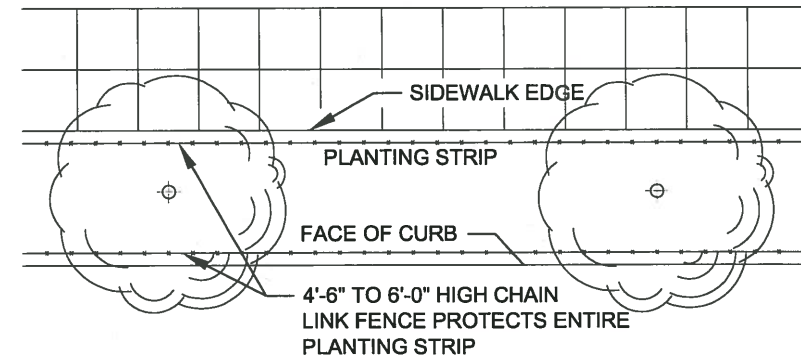
1. Tree protection requirements included in this standard detail are for trees which are directly adjacent to paved surfaces which will be retained through construction.
2. Required protection measures for trees other than those in tree wells and planting strips are contained in the TYPICAL TREE PROTECTION FENCING STANDARD PLAN NO. LS-09.
3. Reusable temporary tree and landscape protection fencing can be substituted for chain link fencing in tree wells and planting strips (SEE REUSABLE TREE PROTECTION FENCING FOR PAVED AREAS STANDARD PLAN NO. LS-11).
4. Consider traffic turning visibility and pedestrian visibility when selecting fence height; typically shorter fencing around tree pits between sidewalk and roadway is desired.



TREE IN PLANTING STRIP-OPTION 1



TREE IN TREE WELL



TREE IN PLANTING STRIP-OPTION 2

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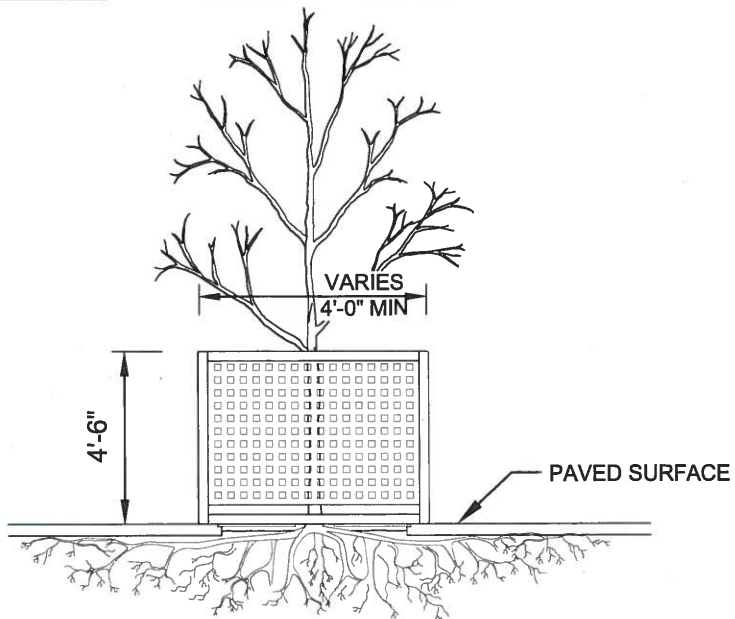
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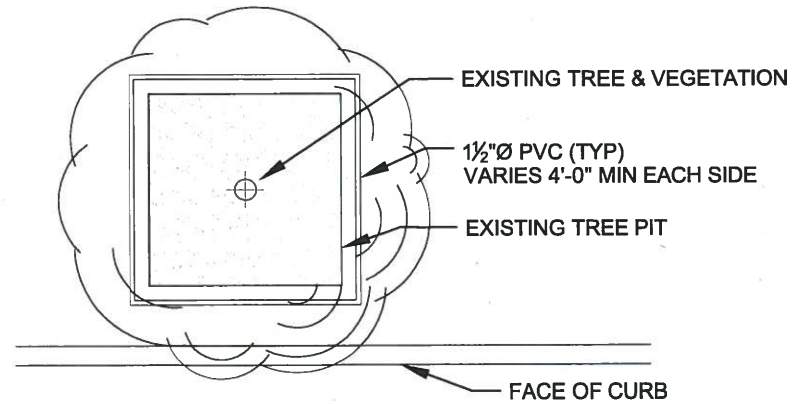
[Signature] 7/6/16
DATE

TREE PROTECTION FENCING
FOR TREES IN PAVED AREAS

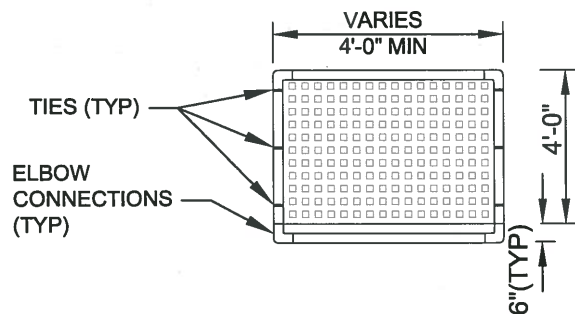
STANDARD PLAN NO. LS-10



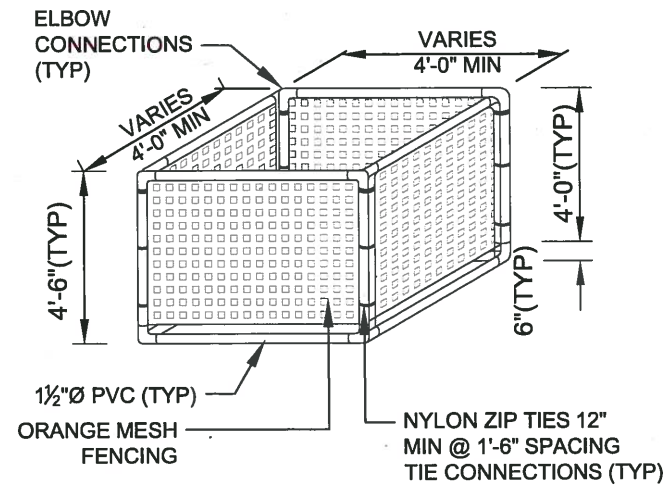
TYPICAL TREE GUARD RAIL



PLAN VIEW



TYPICAL PANEL



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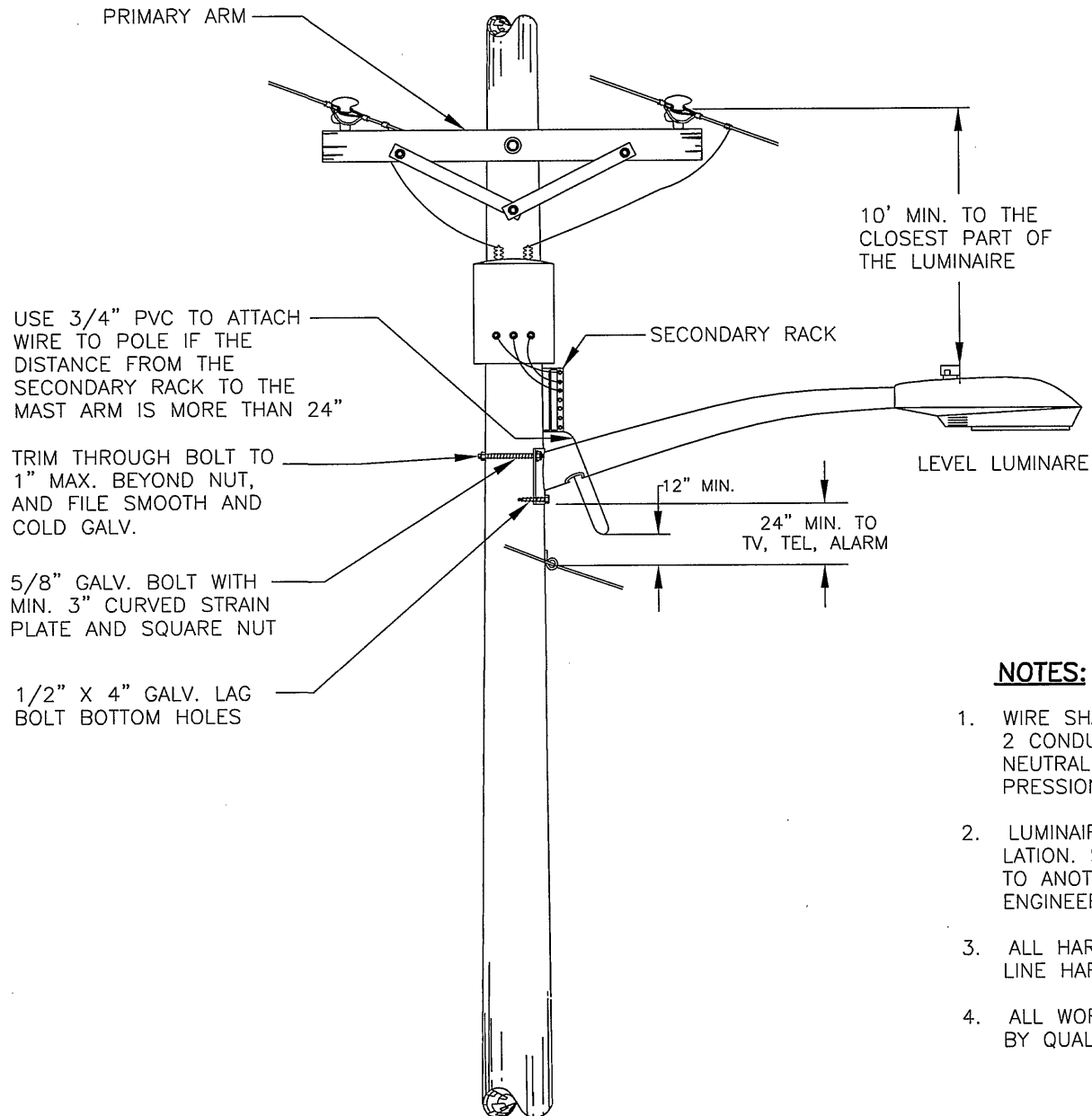
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REUSABLE TREE PROTECTION
FENCING FOR PAVED AREAS

STANDARD PLAN NO. LS-11



NOTES:

1. WIRE SHALL BE MINIMUM #10 AWG COPPER 2 CONDUCTOR. CONNECT TO 240 VOLT, NO NEUTRAL OR GROUND CONNECTION. USE COMPRESSION CONNECTORS APPROVED BY ENGINEER.
2. LUMINAIRES SHALL BE LEVELED AFTER INSTALLATION. SOCKET POSITION SHALL BE ADJUSTED TO ANOTHER POSITION IF REQUESTED BY THE ENGINEER BEFORE INSTALLATION.
3. ALL HARDWARE SHALL BE HOT DIP GALVANIZED LINE HARDWARE.
4. ALL WORK ON UTILITY POLES TO BE PERFORMED BY QUALIFIED LINEMEN.

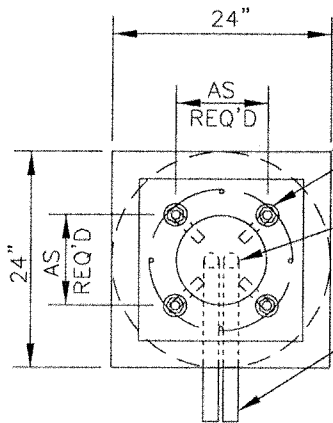
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**STREETLIGHT
LUMINAIRE ON WOOD POLE
TYPICAL INSTALLATION
STANDARD PLAN NO. SL-01**

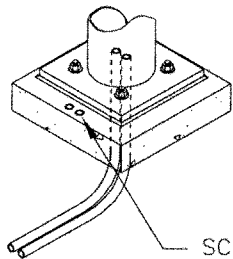


TOOL FINISH TOP AND EDGES

4EA ANCHOR BOLTS
MINIMUM TOP 8" OF BOLT SHALL BE GALVANIZED
(AASHTO M111)

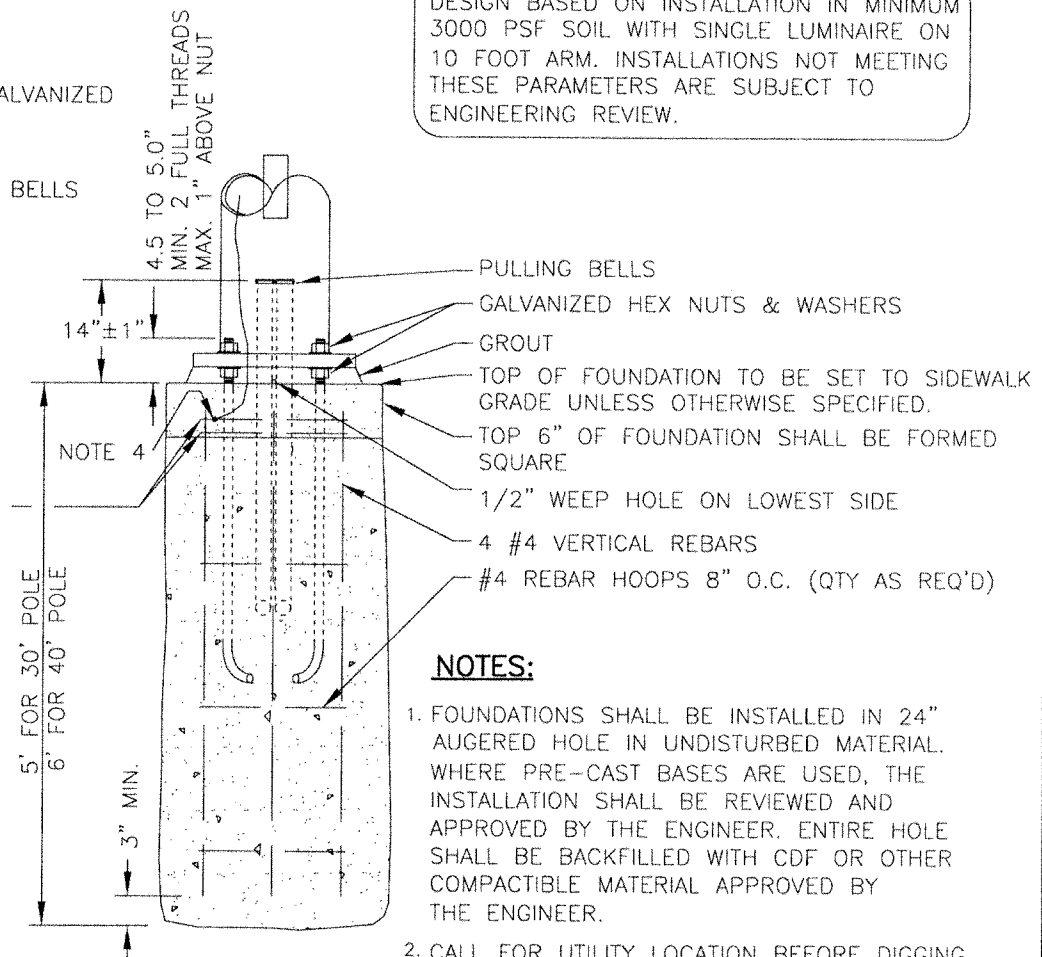
CONDUIT SHALL BE CENTERED ON POLE
W/CLEARANCE FOR COUPLINGS/PULLING BELLS

THERE SHALL BE A MINIMUM OF TWO
CONDUITS IN EACH FOUNDATION.
CONDUIT SHALL HAVE 18" RADIUS AND
BE ORIENTED TO MINIMIZE CONDUIT
BENDS.



SCRIBE A CIRCLE WITH END
OF CONDUIT ABOVE EACH
CONDUIT ENTERING THE
FOUNDATION.

(2) HOOPS WITHIN 5" OF TOP



DESIGN BASED ON INSTALLATION IN MINIMUM
3000 PSF SOIL WITH SINGLE LUMINAIRE ON
10 FOOT ARM. INSTALLATIONS NOT MEETING
THESE PARAMETERS ARE SUBJECT TO
ENGINEERING REVIEW.

NOTES:

1. FOUNDATIONS SHALL BE INSTALLED IN 24"
AUGERED HOLE IN UNDISTURBED MATERIAL.
WHERE PRE-CAST BASES ARE USED, THE
INSTALLATION SHALL BE REVIEWED AND
APPROVED BY THE ENGINEER. ENTIRE HOLE
SHALL BE BACKFILLED WITH CDF OR OTHER
COMPACTIBLE MATERIAL APPROVED BY
THE ENGINEER.
2. CALL FOR UTILITY LOCATION BEFORE DIGGING
(1-800-424-5555)
3. ALL STEEL TO HAVE 3" MINIMUM CONCRETE
COVER. HOOPS SHALL HAVE 135° HOOKS.
ANCHOR BOLTS MAY BE SECURED TO HOOPS.
4. BOND CAGE TO GROUND LUG.

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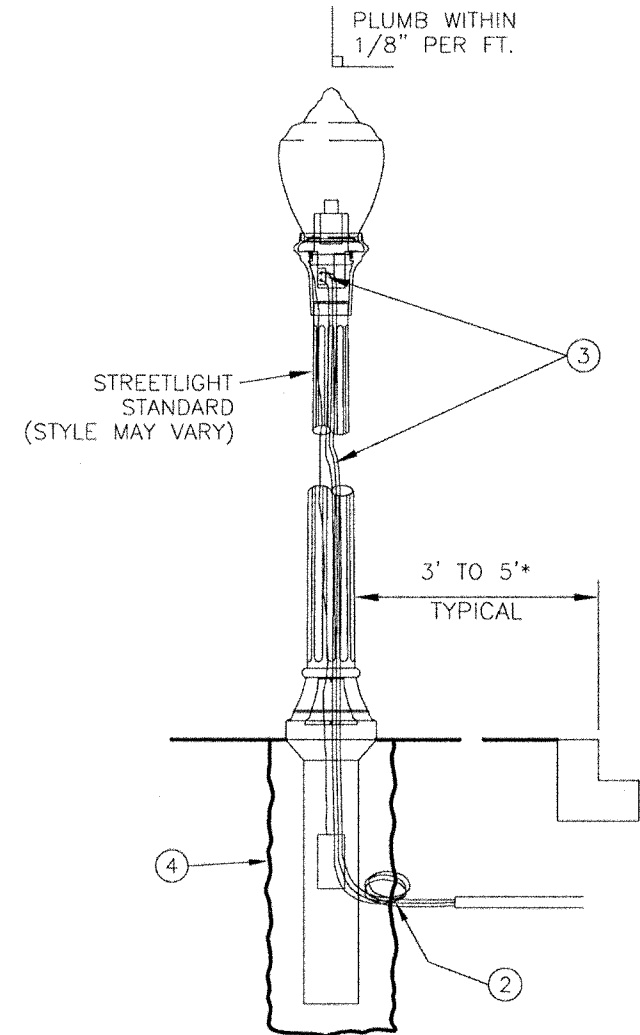
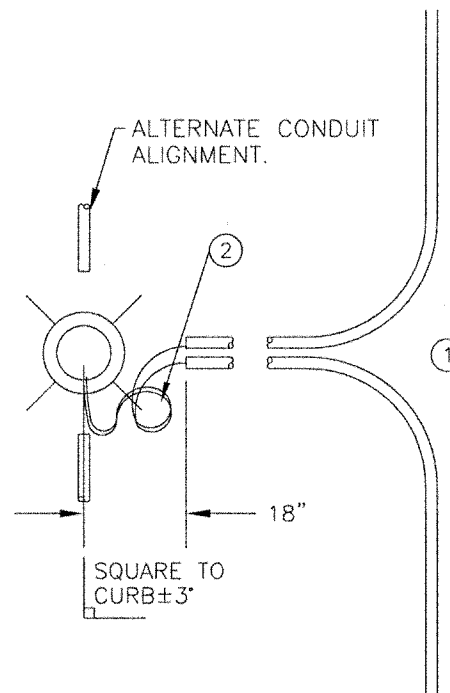
DATE 2/4/03

STREETLIGHT
FOUNDATION
30' & 40'

STANDARD PLAN NO. SL-02

NOTES:

- ① INTERCEPT EXISTING CONDUIT, WHERE APPLICABLE, AND ROUTE TOWARD LIGHT STANDARD. TERMINATE CONDUIT(S) APPROXIMATELY 12" FROM BASE OF STANDARD. SEAL END OF CONDUITS WITH TAPE.
- ② COIL THREE FEET OF WIRE AT END OF CONDUIT BEFORE ENTERING BASE OF STANDARD.
- ③ ROUTE WIRE UP TO TERMINAL BLOCK WITHOUT SPLICING.
- ④ MINIMUM AUGER SIZE IS 12". BACKFILL WITH CRUSHED SURFACING TOP COURSE. TAMP IN 6 INCH LIFTS.
- ⑤ SQUARE POLE TO CURB ± 3 DEGREES.



* OR AS DETERMINED BY ENGINEER

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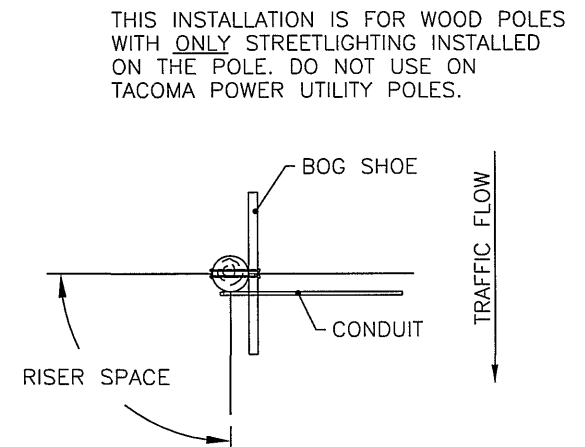
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3/10/03

DATE 2/4/03

STREETLIGHT
STANDARD EMBEDDED TYPE
INSTALLATION DETAIL-TYPICAL

STANDARD PLAN NO. SL-03



**STREETLIGHT
ON TIMBER POLE TYPICAL
INSTALLATION W/UNDERGROUND FEED**

STANDARD PLAN NO. SL-04

STREETLIGHTING TAP
FOR USE IN BASE OF STANDARDS

TAPING INSTRUCTIONS

1. MAKE SPLICE AS SHOWN IN FIGURE A
2. APPLY TAPE AS SHOWN IN FIGURE A
APPLY TAPE AND "SCOTHKOTE" MOISTURE
RESISTANT ELECTRICAL COATING OVER
ENTIRE SPLICE AREA.
3. ATTACH CABLE TIE A MINIMUM OF 2" FROM
THE PRESSURE CONNECTOR AS SHOWN IN FIGURE B.
4. APPLY SECOND COAT OF VARNISH.

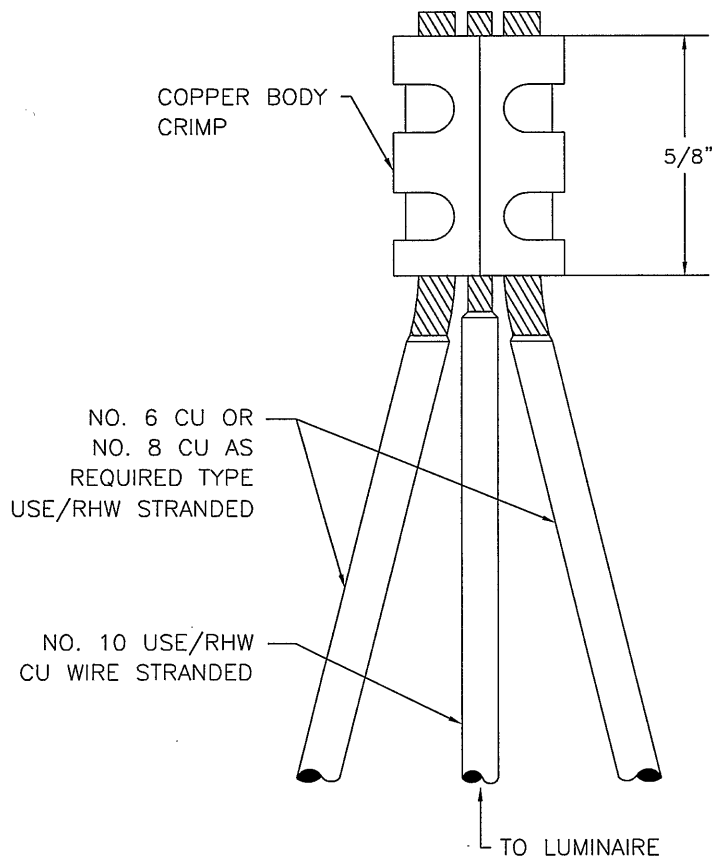


FIGURE A

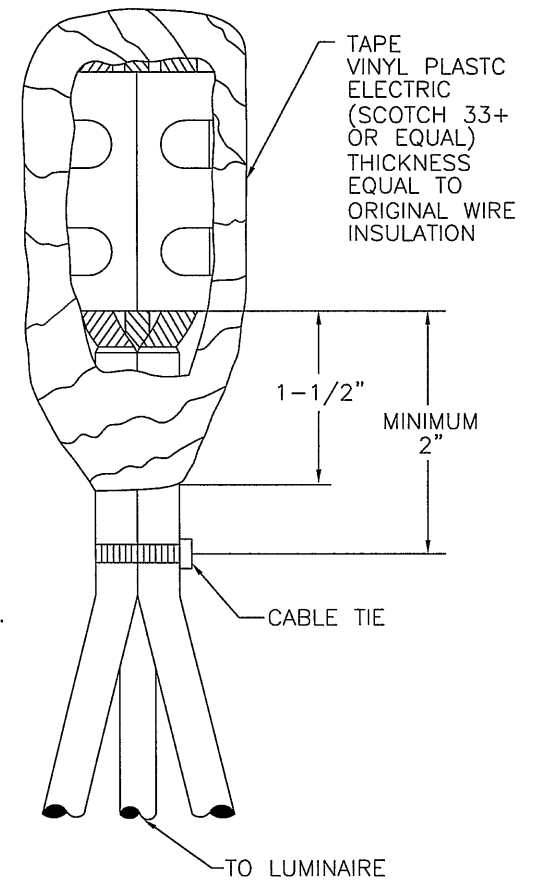


FIGURE B

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DATE 2/4/03

**STREETLIGHT
SPLICE FOR
HANDHOLES**

STANDARD PLAN NO. SL-05

WOOD POLES:

2" NUMBERS

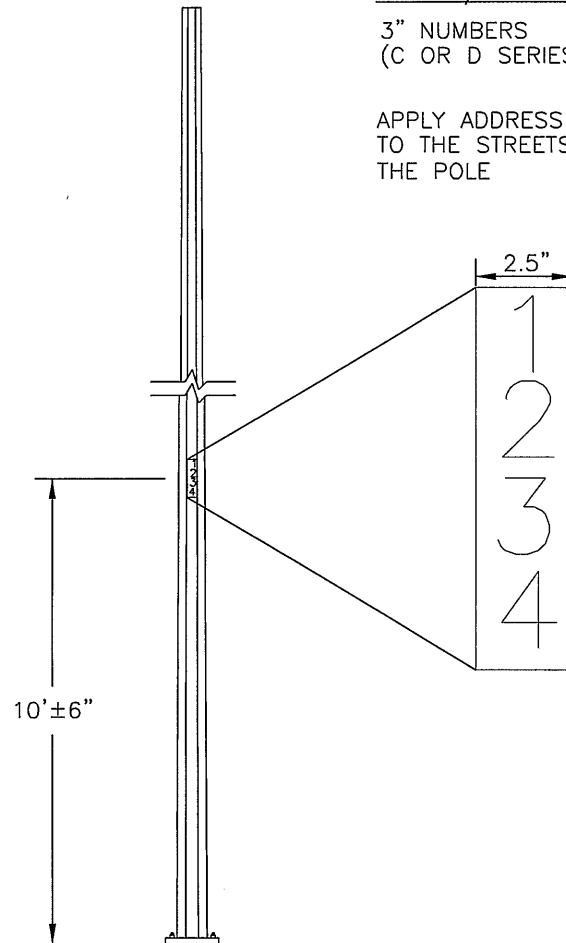
NAIL ON ALUMINUM NUMBERS

METAL/CONCRETE/FIBERGLASS POLES

3" NUMBERS

(C OR D SERIES)

APPLY ADDRESS NUMBERS
TO THE STREETSIDE OF
THE POLE



COLORS:

CONCRETE POLES:

BACKGROUND: LIGHT BEIGE
FOREGROUND: DARK BROWN

UNPAINTED ALUMINUM
OR GALVANIZED POLES:

BACKGROUND: NONE
FOREGROUND: BLACK

IF THERE ARE EXISTING
NUMBERS ON POLE
PAINT OVER OR REMOVE OLD NUMBERS

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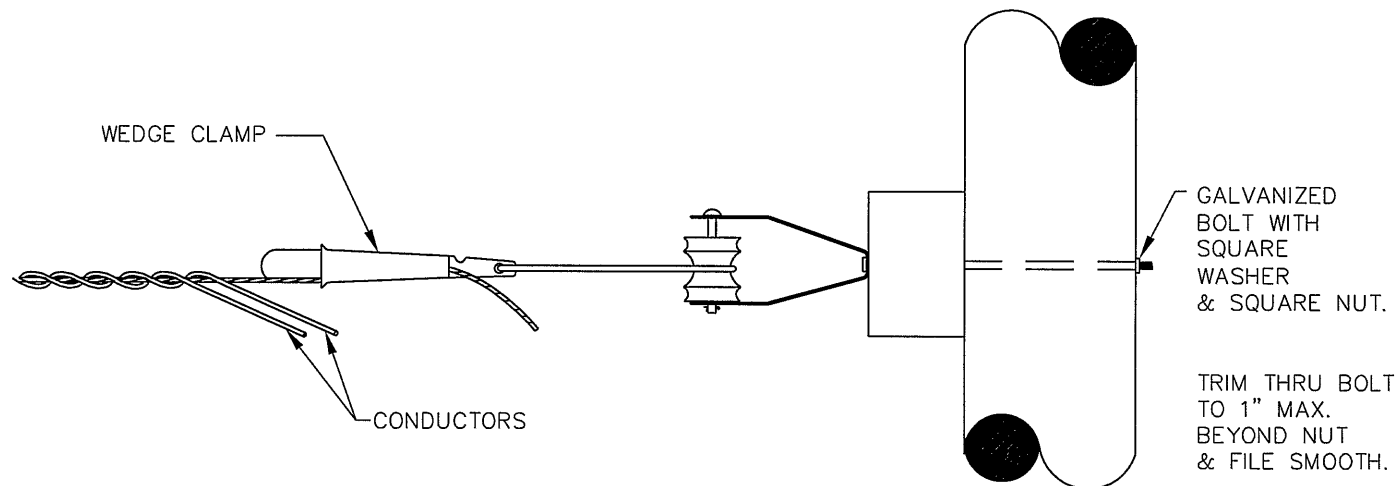
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STREETLIGHT
POLE ADDRESSES
TYPICAL DETAIL

STANDARD PLAN NO. SL-06



MAXIMUM TENSION = 100 POUNDS
TYPICAL
MAXIMUM SPAN LENGTHS

TRIPLEX SIZE SAG	1/0	#2	#4	#6
2.5 FEET	65	85	105	125
5 FEET	95	120	150	180
7.5 FEET	115	150	180	220

WOOD POLE

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STREETLIGHT
OVERHEAD TRIPLEX SPANS
TYPICAL INSTALLATION
STANDARD PLAN NO. SL-07

50 AMP OR AS SPECIFIED
BACK-FED MAIN BREAKER

RETAINING CLIP

BRANCH CIRCUITS
QTY MAY VARY

MINIMUM
10,000AIC

WHEN SERVING FROM
TRANSFORMERS LARGER
THAN 50 KVA AN EVALUATION
OF INTERRUPT CAPACITY OF
THE SERVICE EQUIPMENT IS
REQUIRED.

PANEL LAYOUT
N.T.S.

SIZE OF BRANCH CIRCUIT CONDUCTOR	MAXIMUM BREAKER SIZE *
#8 AWG COPPER	30AMP
#6 AWG COPPER	40AMP

* SIZE BASED ON ENSURING BREAKER WILL TRIP
ON FAULTS AT END OF LONG CIRCUITS.

PROCEDURE:

1. OBTAIN ELECTRICAL PERMIT FROM TACOMA POWER FOR EACH ELECTRICAL SERVICE.
2. COMPLETE SERVICE PANEL INSTALLATION EXCEPT FOR ENTERING TRANSFORMER VAULT OR PAD. FOR SSB INSTALLATIONS, INSTALL CONDUIT AND WIRE INTO SSB.
3. PREFERRED PRACTICE IS TO OBTAIN SERVICE FROM SSB. CONTACT TACOMA POWER BEFORE SERVICING STREETLIGHTS FROM TRANSFORMER.
4. ARRANGE FOR ELECTRICAL INSPECTION AND CUT-IN BY TACOMA POWER (502-8277).
5. AFTER TACOMA POWER ACCEPTANCE OF SERVICE PANEL CONTACT THE UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) OFFICE (502-8232) TO ARRANGE FOR CONDUIT AND CONDUCTOR ENTERANCE INTO TRANSFORMERS.

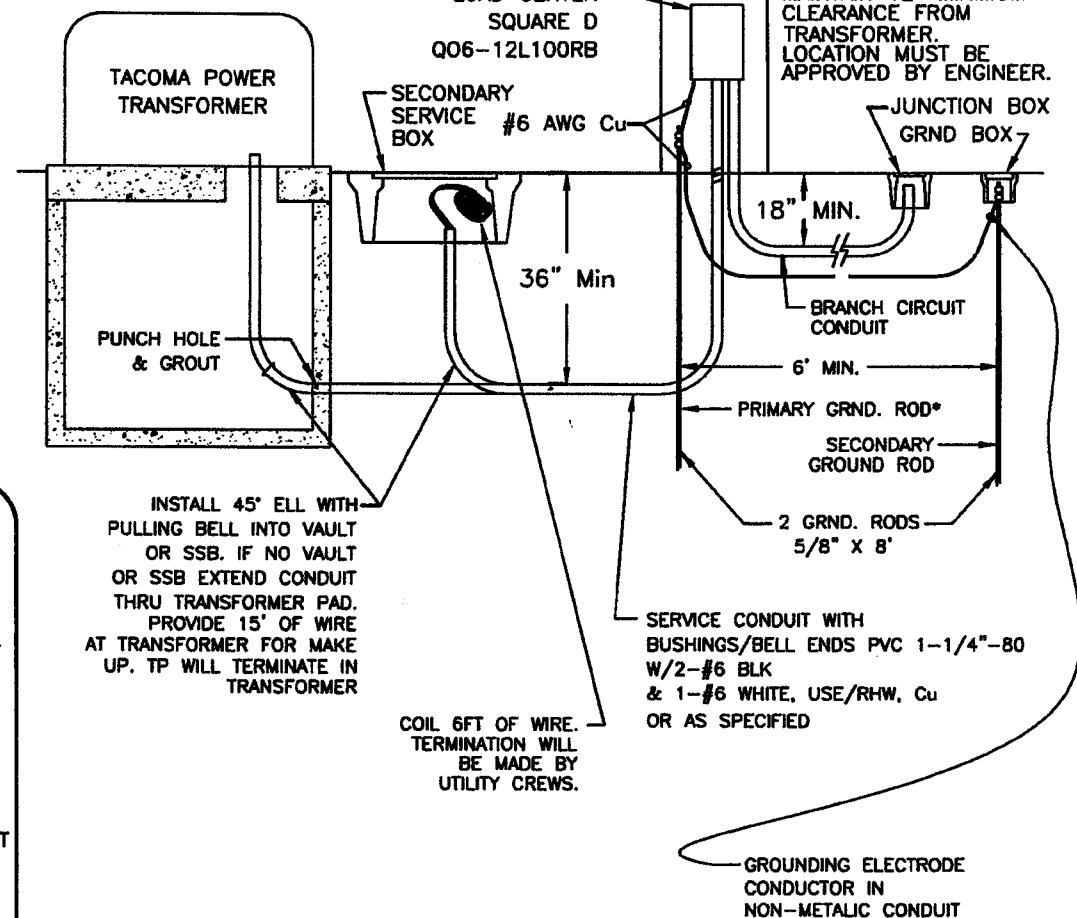
*6. PRIMARY GROUND ROD MAY BE LOCATED OUTSIDE OF SERVICE ENCLOSURE IN GROUND ROD BOX.

**7. DO NOT PENETRATE OUTER WALL OF ENCLOSURE WHEN MOUNTING EQUIPMENT HARDWARE.

SERVICE ENCLOSURE STYLE VARIES

**LOAD CENTER
SQUARE D
QO6-12L100RB

SERVICE PEDESTAL SHALL
MAINTAIN 12" MINIMUM
CLEARANCE FROM
TRANSFORMER.
LOCATION MUST BE
APPROVED BY ENGINEER.



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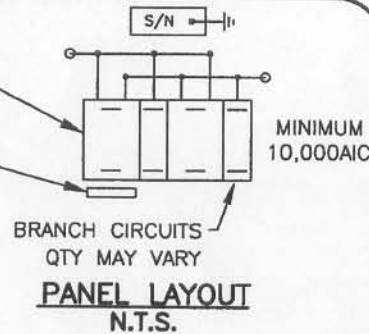
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DATE

STREETLIGHT
SERVICE DETAIL
UNDERGROUND TYPE A
STANDARD PLAN NO. SL-08

50 AMP OR AS SPECIFIED
BACK-FED MAIN BREAKER

RETAINING CLIP



WHEN SERVING FROM
TRANSFORMERS LARGER
THAN 50 KVA AN EVALUATION
OF INTERRUPT CAPACITY OF
THE SERVICE EQUIPMENT IS
REQUIRED.

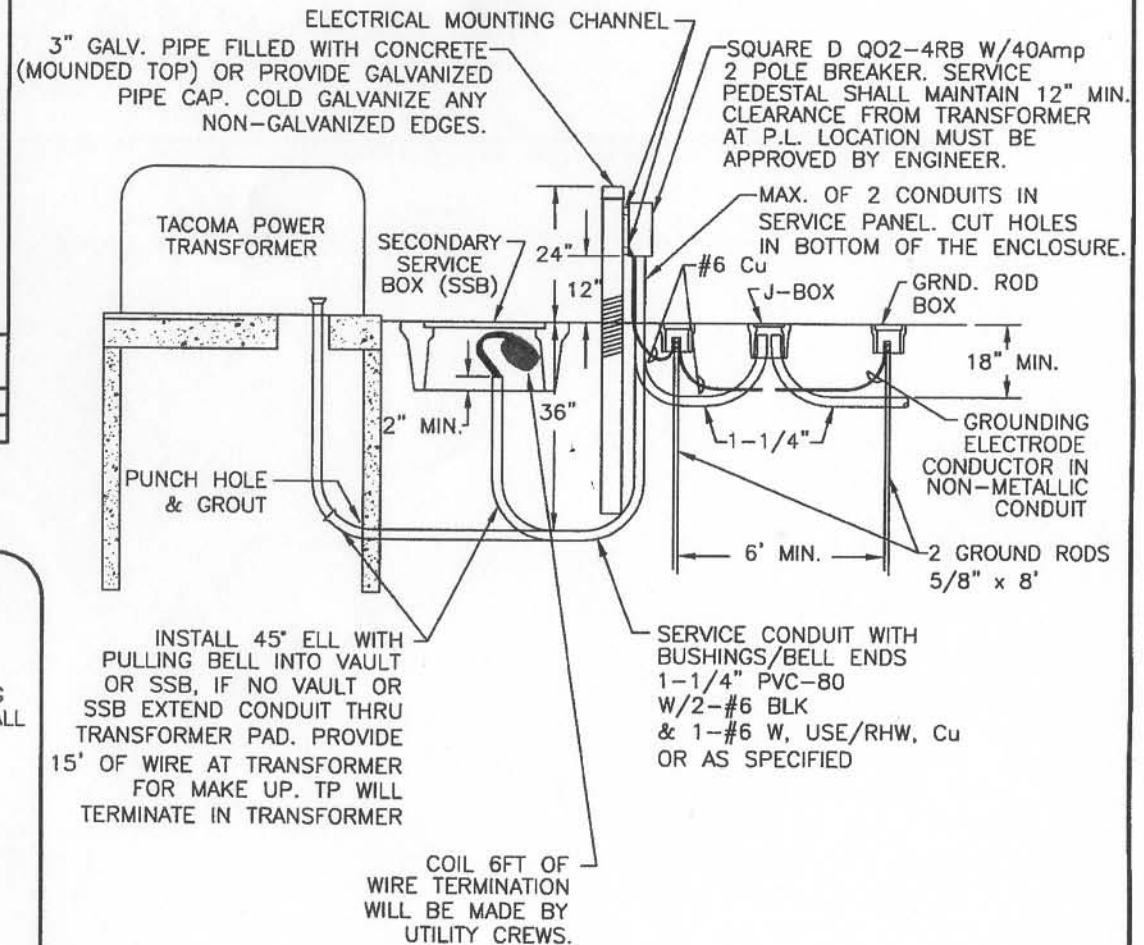
SIZE OF BRANCH CIRCUIT CONDUCTOR	MAXIMUM BREAKER SIZE *
#8 AWG COPPER	30AMP
#6 AWG COPPER	40AMP

* SIZE BASED ON ENSURING BREAKER WILL TRIP
ON FAULTS AT END OF LONG CIRCUITS.

PROCEDURE:

1. OBTAIN ELECTRICAL PERMIT FROM TACOMA POWER FOR EACH ELECTRICAL SERVICE.
2. COMPLETE SERVICE PANEL INSTALLATION EXCEPT FOR ENTERING TRANSFORMER VAULT OR PAD. FOR SSB INSTALLATIONS, INSTALL CONDUIT AND WIRE INTO SSB.
3. PREFERRED PRACTICE IS TO OBTAIN SERVICE FROM SSB. CONTACT TACOMA POWER BEFORE SERVICING STREETLIGHTS FROM TRANSFORMER.
4. ARRANGE FOR ELECTRICAL INSPECTION AND CUT-IN BY TP (502-8277).
5. AFTER TP ACCEPTANCE OF SERVICE PANEL CONTACT THE UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) OFFICE (502-8232) TO ARRANGE FOR CONDUIT AND CONDUCTOR ENTRANCE INTO TRANSFORMERS.

**6. DO NOT PENETRATE OUTER WALL OF ENCLOSURE
WHEN MOUNTING EQUIPMENT HARDWARE.



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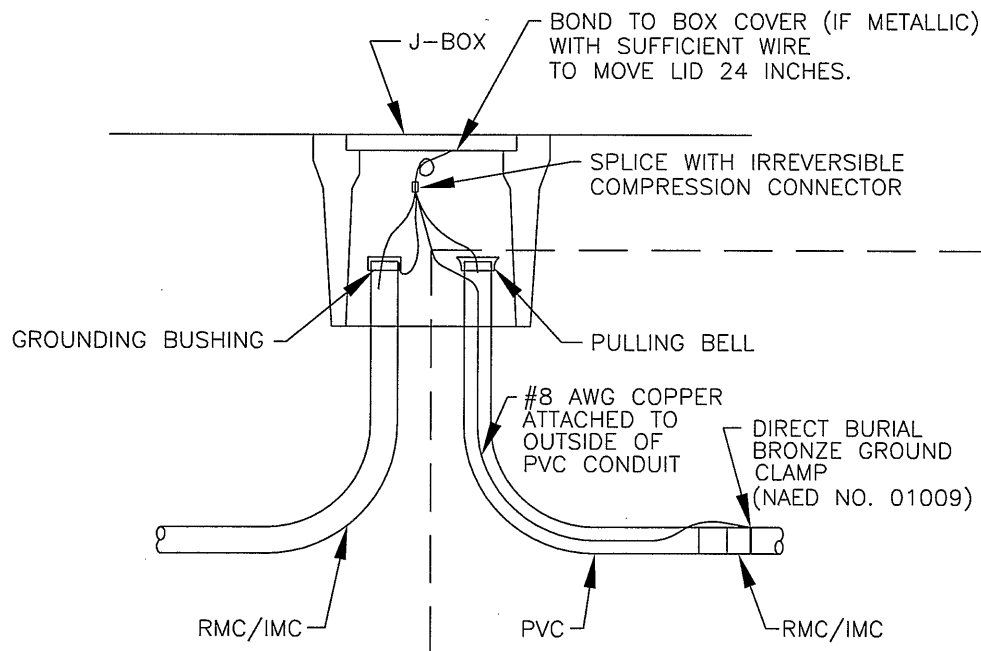
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5/31/07
DATE

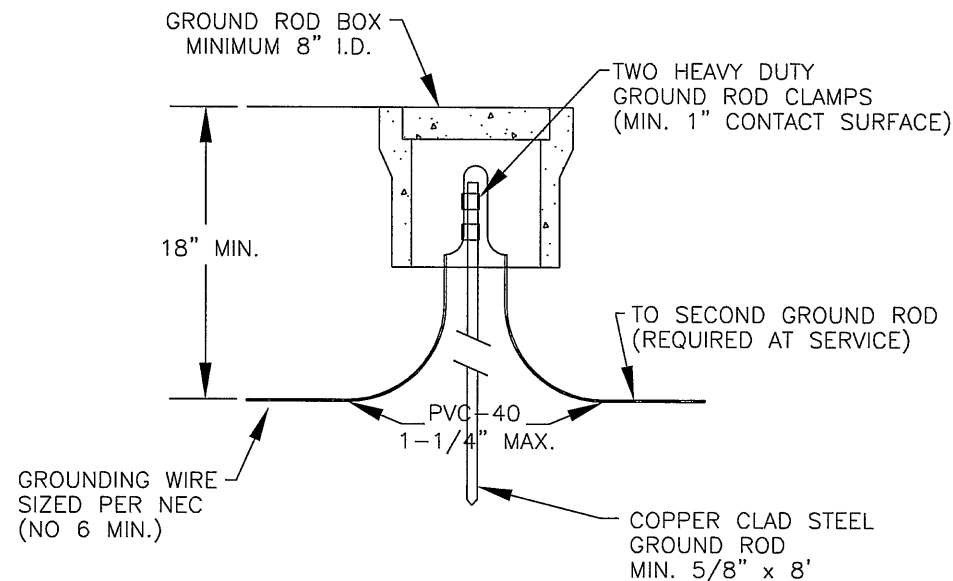
STREETLIGHT
SERVICE DETAIL
UNDERGROUND TYPE B

STANDARD PLAN NO. SL-09



CONDUIT GROUNDING

USE WHERE STEEL CONDUIT DOES NOT EXTEND TO JUNCTION BOX OR OTHER TERMINATION POINT.



GROUND ROD INSTALLATION

NOTES:

1. ALL STREETLIGHT CONDUITS SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR.
2. METALLIC CONDUIT SHALL BE BONDED AT BOTH ENDS TO THE EQUIPMENT GROUNDING CONDUCTOR.
3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE STRANDED INSULATED COPPER.

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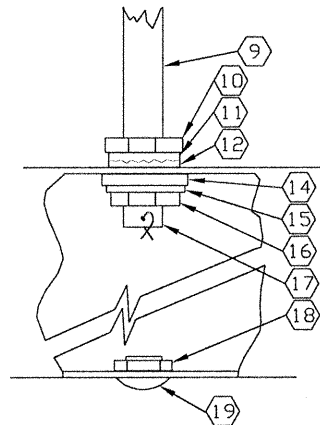
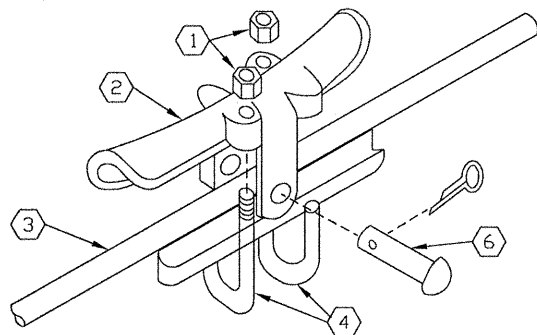
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STREETLIGHT

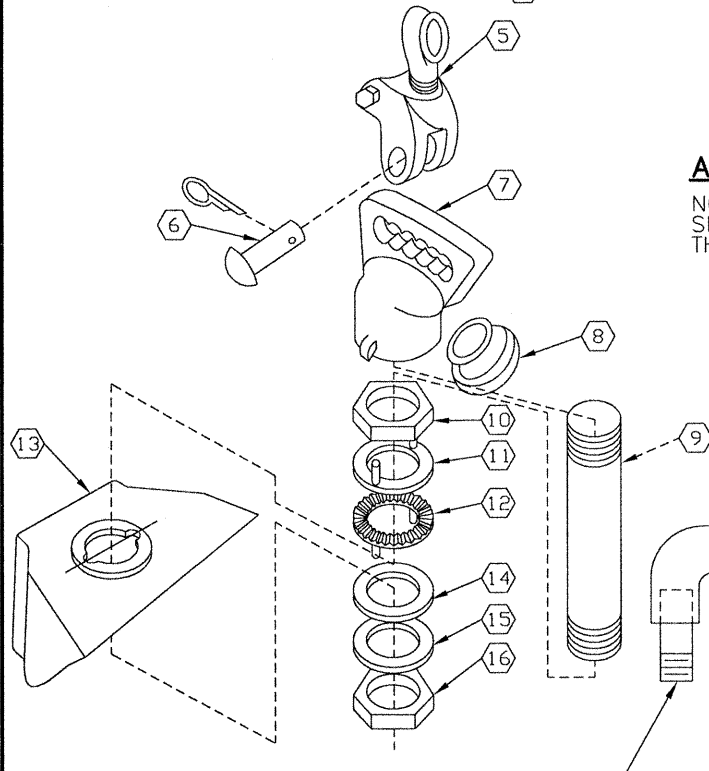
GROUNDING DETAIL

STANDARD PLAN NO. SL-10



ASSEMBLED HEAD DETAIL

NOTE: A FIVE POSITION TERMINAL BLOCK SHALL BE MOUNTED INSIDE AT THE BACK OF THE YELLOW SECTION HOUSING.



MULTIPLE HEAD BRACKET DETAIL

(SHALL INCLUDE LOWER TIE BRACE)

SEE ASSEMBLED HEAD DETAIL (ABOVE)

PLACE AUTOCAULKING DUCT SEAL BETWEEN ALL TOP EXTERIOR COMPRESSION JOINTS.

LEGEND

1. 1/2" STAINLESS STEEL NUT WITH LOCK WASHERS (STAINLESS STEEL OR BRONZE).
2. 9" CABLE SADDLE (BRONZE). PAINTED GREEN, TO FIT 1/4" TO 1/2" SPAN WIRE.
3. SPAN WIRE.
4. 1/2" 'J' CABLE CLAMPS (STAINLESS STEEL).
5. BRONZE BALANCE ADJUSTER DIRECTIONAL LOCK, PAINTED GREEN, WITH STAINLESS STEEL BOLTS AND WASHERS.
6. 5/8" PINS (STAINLESS STEEL) WITH BRASS OR STAINLESS STEEL COTTER PIN. INSTALL BRASS OR STAINLESS STEEL WASHERS ON EACH SIDE OF COTTER PIN.
7. BRONZE ENTRANCE FITTING, PAINTED GREEN.
8. 1-1/2" INSULATED CHASE NIPPLE.
9. 1-1/2" GALVANIZED DROP PIPE PAINTED SILVER. SEE NOTE BELOW. BOTTOM THREADS TO ACCOMMODATE FULL NUT AND LOCKING WIRE.
10. 1-1/2" MALLEABLE LOCK NUT-JAM TIGHT BEFORE INSTALLING HEAD.
11. (NON-CORROSIVE) SERRATED LOCKING WASHER.
12. SERRATED LOCKING WASHER (MAY BE OMITTED IF THE TOP OF THE VEHICLE HEAD IS SERRATED).
13. SIGNAL HEAD WITH AUTOCAULKING IN LOCKING HOLES AT TOP OF THE VEHICLE HEAD.
14. 1-1/2" DIAMETER FLAT CORK GASKET. (NEOPRENE OK)
15. 1-1/2" NON-CORROSIVE SLIP RING.
16. 1-1/2" MALLEABLE NUT.
17. SAFETY LOCKING WIRE, #14TW OR EQUAL.
18. NUT (NO GASKET).
19. PINNACLE (NO WASHER) BOTTOM OF LOWEST SECTION.
20. 1-1/2" GALVANIZED 90° ELBOW, PAINTED GREEN.
21. STAINLESS STEEL SET SCREW WITH HEX HEAD.
22. 1-1/2" GALVANIZED NIPPLE, PAINTED GREEN.
23. TWO-WAY HOUSING WITH BOTTOM COVER, PAINTED GREEN.

NOTE:

ALL METAL THREADS AND BRACKETS SHALL BE PAINTED WITH A HIGH QUALITY RUST PREVENTATIVE PAINT. A COAT OF GALVANIZED BONDING PRIMER SHALL BE APPLIED AND THOROUGHLY DRY BEFORE APPLYING FINISH COAT OF PAINT. ANY PAINTED HARDWARE DAMAGED DURING ASSEMBLY OR SHIPPING SHALL BE PAINTED AGAIN.

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DEPARTMENT OF PUBLIC WORKS

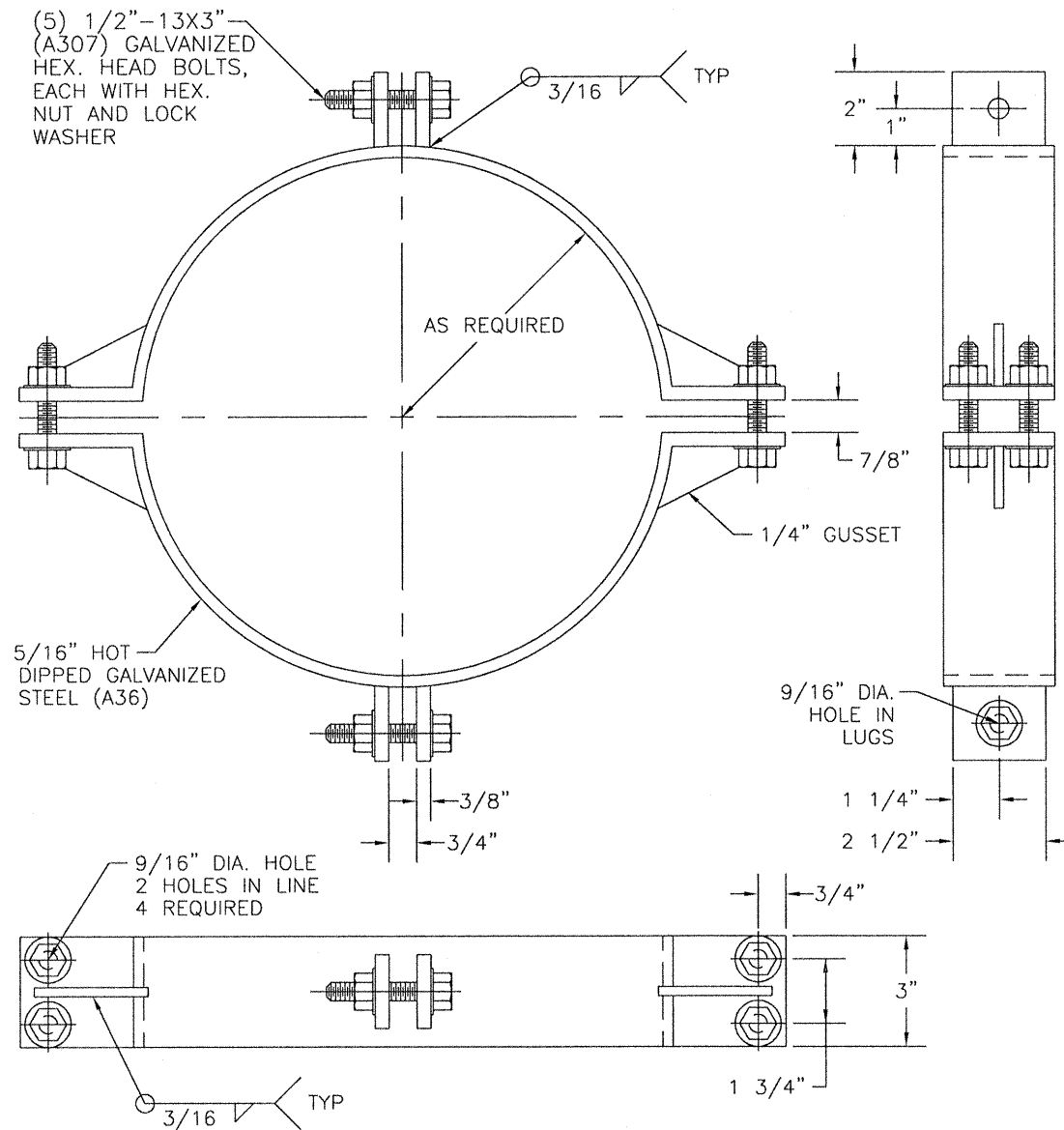
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CITY ENGINEER

DATE 2/4/03

VEHICLE TRAFFIC SIGNAL
(SINGLE & MULTIPLE)
HANGER ASSEMBLY

STANDARD PLAN NO. TS-01



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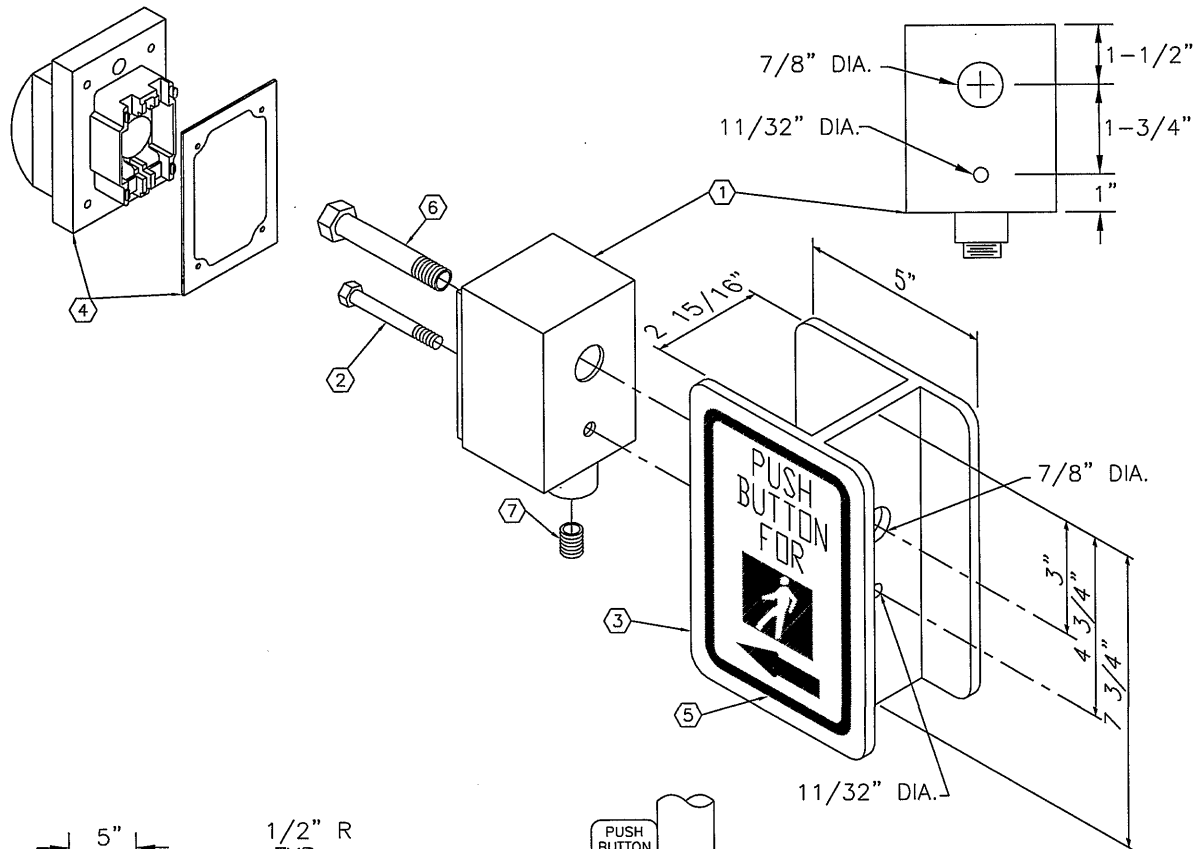
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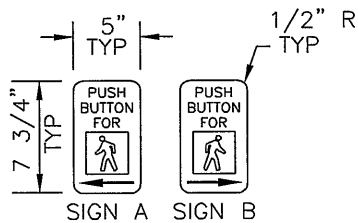
SPAN WIRE
STRAIN CLAMP

STANDARD PLAN NO. TS-02



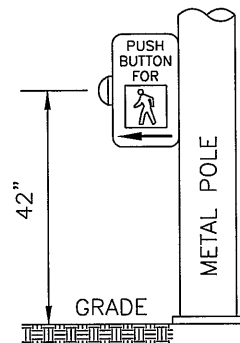
CONSTRUCTION NOTES

- ① FD-1-50-A CAST ALUMINUM BOX
- ② 5/16 INCH STAINLESS HEX BOLT WITH LOCK WASHER. DRILL & TAP POLE FOR 5/16 INCH STAINLESS STEEL BOLT.
- ③ H-TYPE EXTRUDED ALUMINUM OR FABRICATED APPROVED EQUAL
- ④ BUTTON, PLATE, STAINLESS STEEL FASTENERS & GASKET. PUSHBUTTON MECHANISM MUST HAVE MINIMUM OF 1/8 INCH OVER TRAVEL. REES #1371-412 OR APPROVED EQUAL.
- ⑤ SIGN TO BE SCREENED ON BOTH FACES OF EXTRUDED ALUMINUM OR ON SEPARATE PANELS
- ⑥ 1/2 INCH CHASE NIPPLE W/NPT
- ⑦ 1/2 INCH ALUMINUM PLUG (DRILL 1/8 INCH DRAIN HOLE)



ONE EACH
PER PUSHBUTTON
ASSEMBLY
R10-4B

SIGN DETAILS



TYPICAL INSTALLATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

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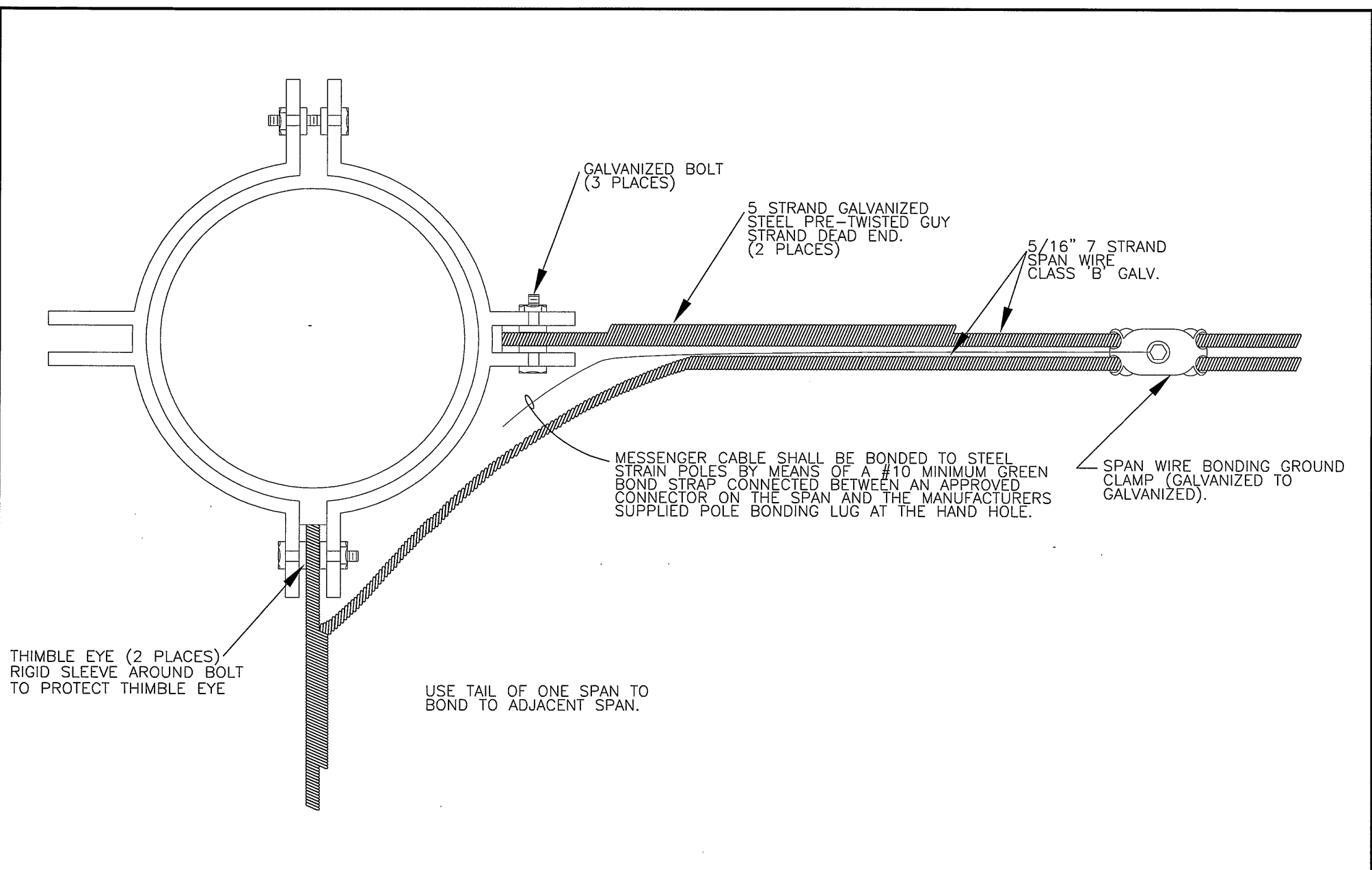
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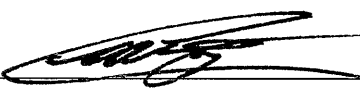
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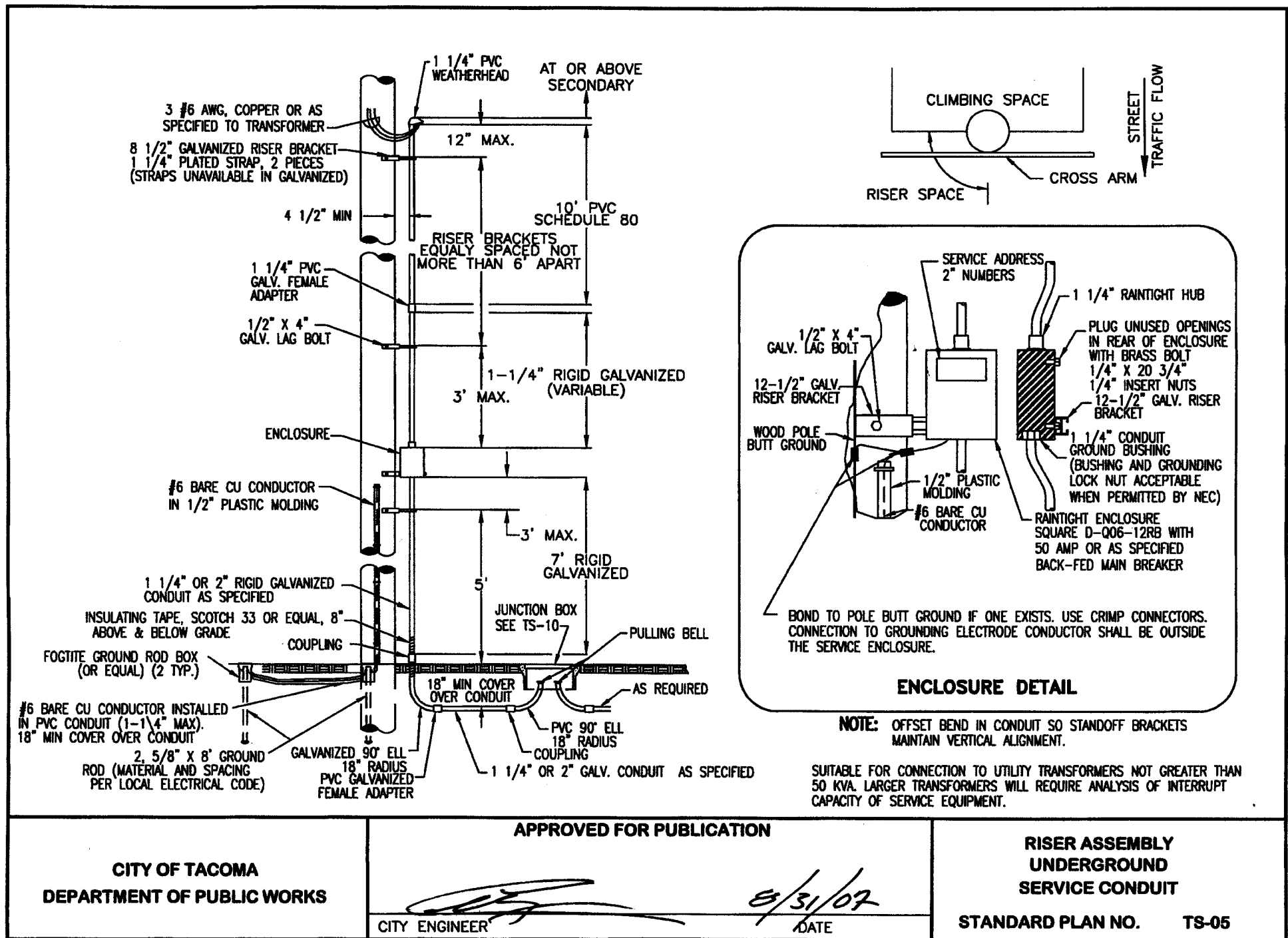
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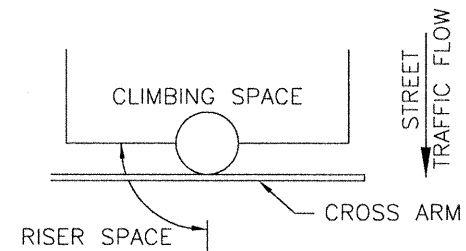
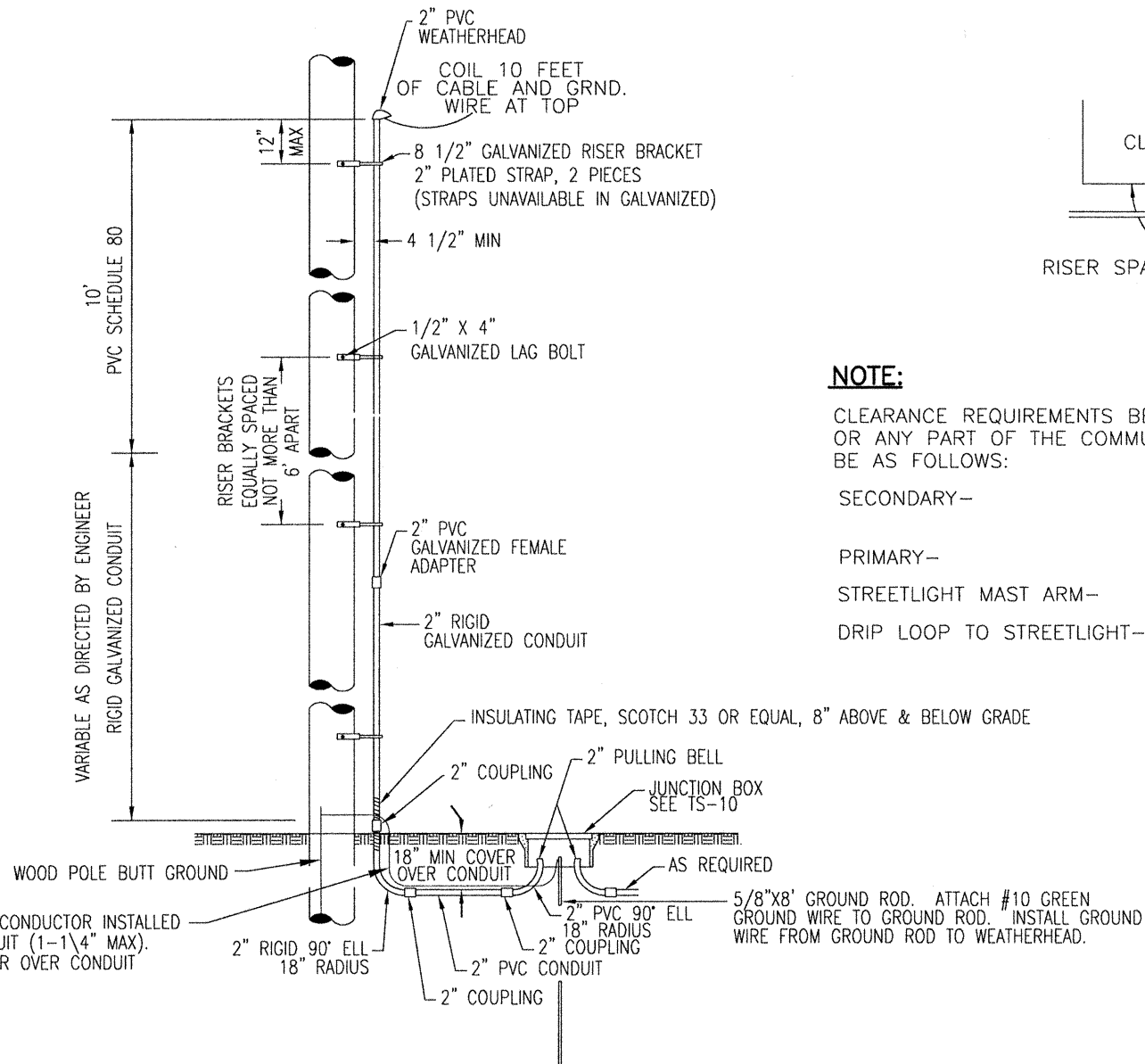
H-TYPE PEDESTRIAN
PUSHBUTTON
ASSEMBLY

STANDARD PLAN NO. TS-03



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NOTE:

CLEARANCE REQUIREMENTS BETWEEN THE TOP OF WEATHERHEAD, OR ANY PART OF THE COMMUNICATION RISER ASSEMBLY, SHALL BE AS FOLLOWS:

SECONDARY—	MINIMUM 40 INCHES TO LOWEST PART OF SECONDARY OR NEUTRAL.
PRIMARY—	MINIMUM OF 10 FEET 2 INCHES.
STREETLIGHT MAST ARM—	MINIMUM OF 20 INCHES.
DRIP LOOP TO STREETLIGHT—	MINIMUM OF 12 INCHES.

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DEPARTMENT OF PUBLIC WORKS

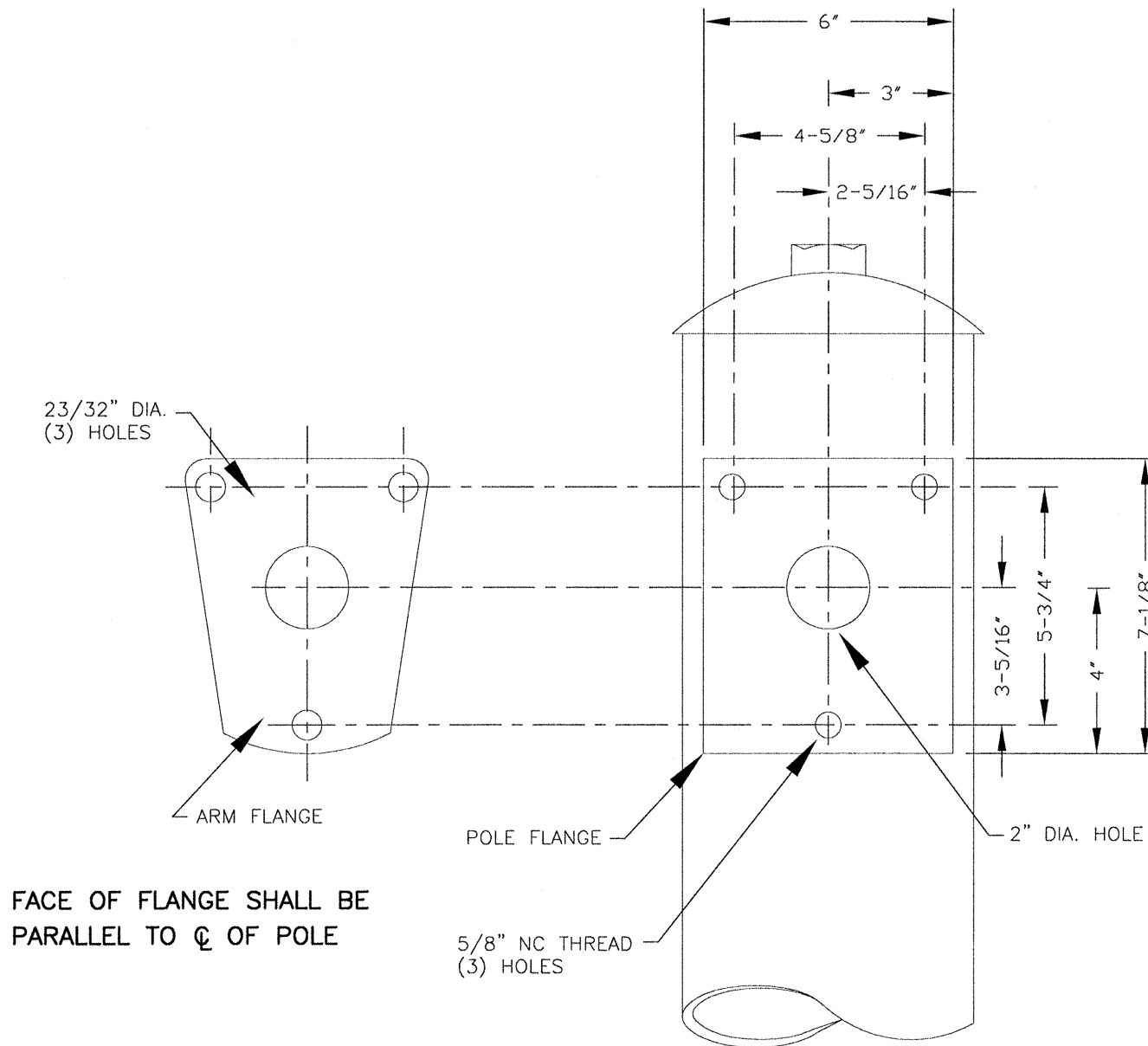
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CITY ENGINEER

DATE 2/4/03

RISER ASSEMBLY
COMMUNICATION
SIGNAL CONDUIT

STANDARD PLAN NO. TS-06



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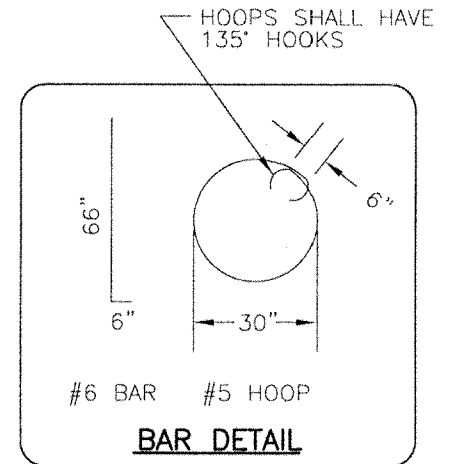
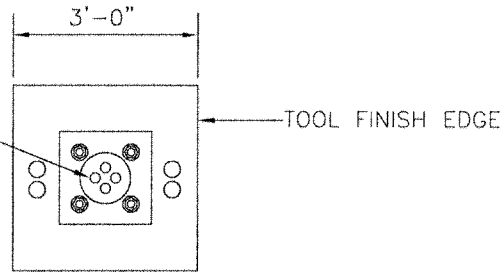
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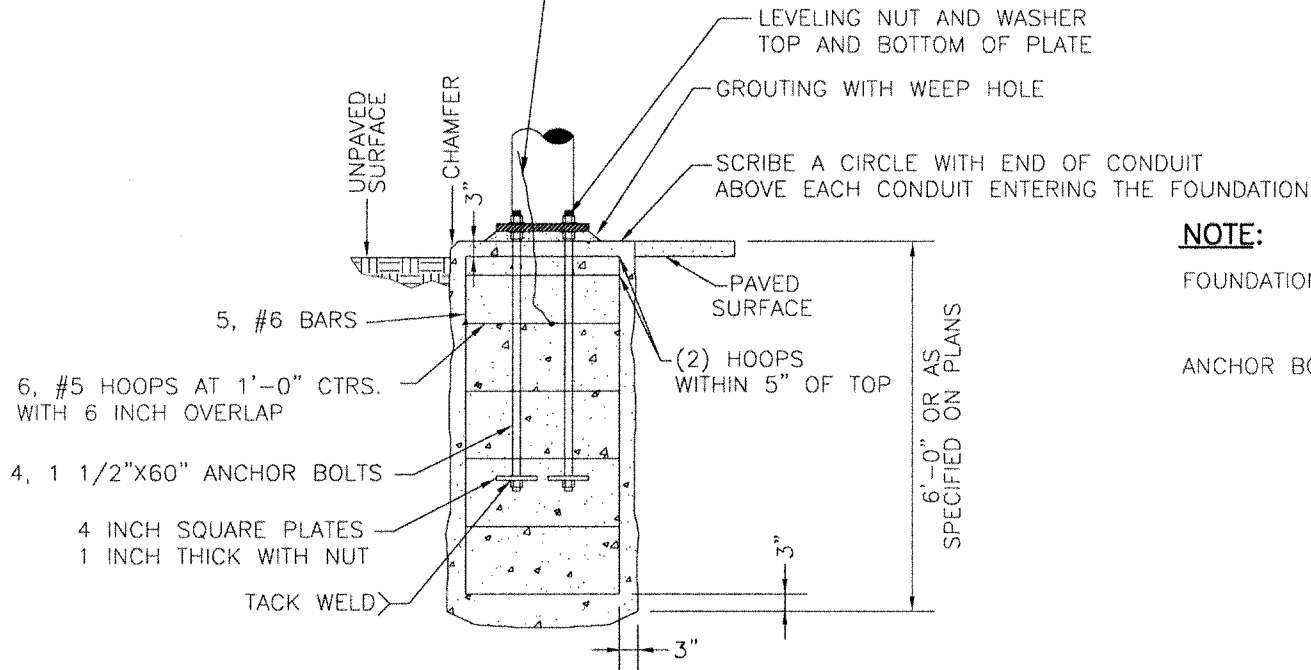
STREETLIGHT
MAST ARM MOUNTING
FLANGE DETAIL

STANDARD PLAN NO. TS-07

CONDUIT SHALL BE CENTERED IN 8 INCH DIAMETER CIRCLE WITH SPACING FOR COUPLINGS. CONDUIT SHALL BE STRAIGHT AND VERTICAL IN POLE. THERE SHALL BE A MINIMUM OF 4 CONDUITS IN EACH FOUNDATION.



#6 STRANDED GROUND CABLE. BOND CAGE TO GROUND LUG.



NOTE:

FOUNDATION

TOP ELEVATION SET BY ENGINEER.
TOP 6 INCHES SHALL BE FORMED SQUARE.

ANCHOR BOLTS

SPACING AS PER TEMPLATE SUPPLIED BY POLE SUPPLIER.
TOP OF BOLTS TO BE LEVEL.
SEE SECTION 9-29.14 OF THE CITY AMENDMENTS.
ANCHOR BOLTS SHALL EXTEND 6.0 TO 6.5 INCHES ABOVE THE FOUNDATION UNLESS OTHERWISE SPECIFIED.

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DEPARTMENT OF PUBLIC WORKS

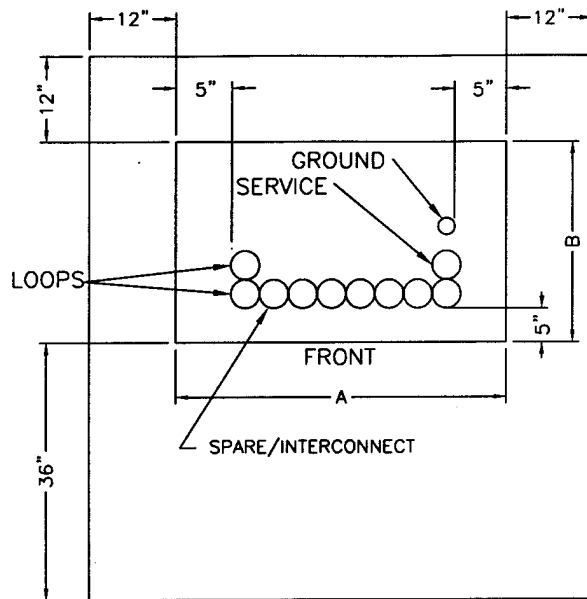
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DATE 2/4/03

STRAIN POLE
STANDARD
FOUNDATION

STANDARD PLAN NO. TS-09



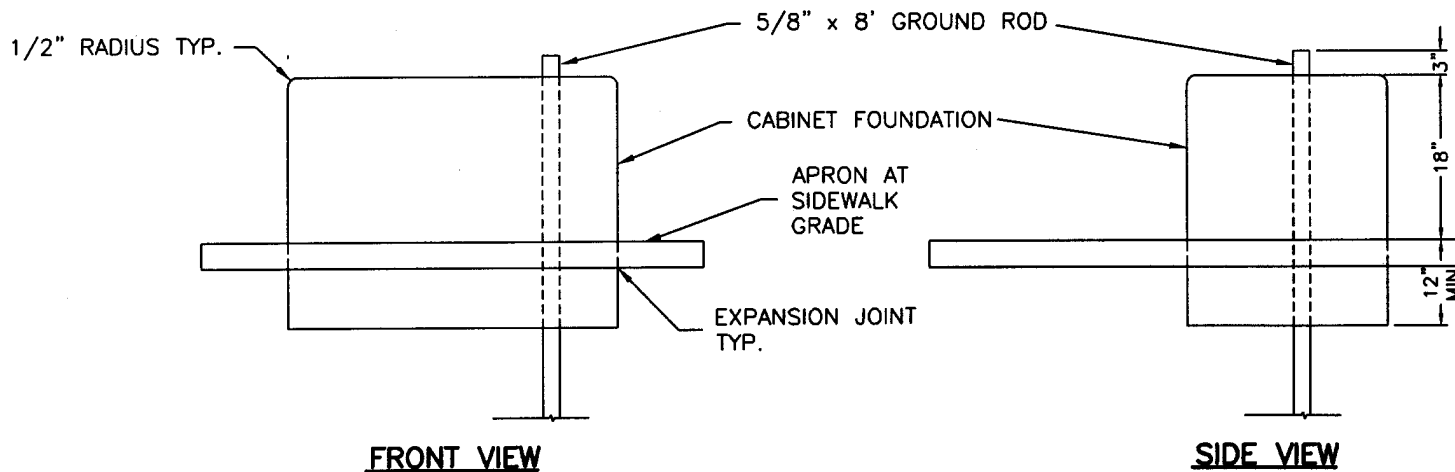
PLAN VIEW

M-CABINET FOUNDATION
A=32", B=19"

P-CABINET FOUNDATION
A=46", B=28"

NOTES:

1. CONDUIT SHALL HAVE MINIMUM 18" RADIUS BENDS.
2. CONDUITS SHALL EXTEND 1" ABOVE TOP OF BASE. INSTALL PULLING BELLS ON CONDUIT ENDS.
3. CONDUITS TO BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
4. 15 FEET OF SLACK CABLE SHALL BE PROVIDED AT THE CONTROLLER END OF ALL CABLES TERMINATING IN THE CONTROLLER CABINET.
5. CABINET ANCHORS SHALL BE EXPANSION ANCHORS (5/8" x 4-1/2").
6. 4" THICK CONCRETE APRON SHALL EXTEND 12" AROUND REAR AND SIDES AND 36" IN FRONT. INSTALL EXPANSION JOINT BETWEEN FOUNDATION AND APRON.



FRONT VIEW

SIDE VIEW

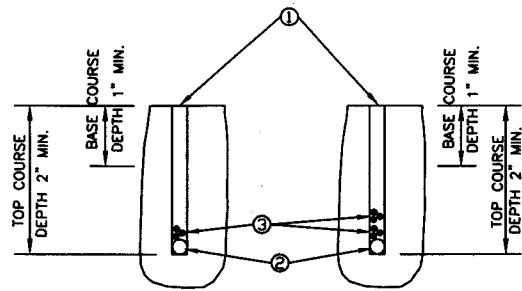
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DATE

FOUNDATION & APRON FOR
"M" AND "P"
CONTROLLER CABINETS
STANDARD PLAN NO. TS-10



1/4" SAWCUT

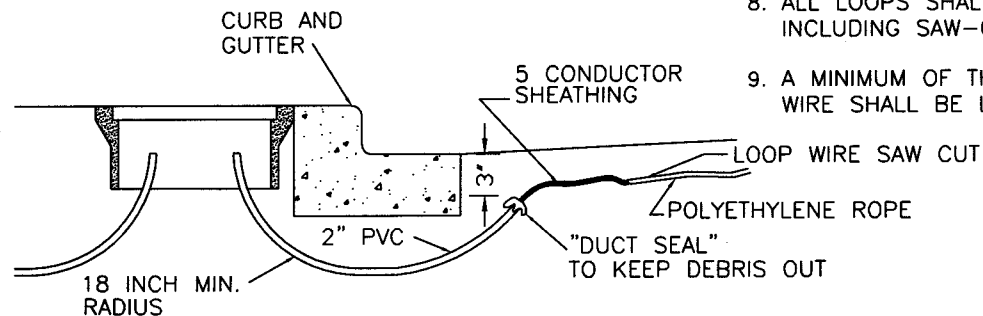
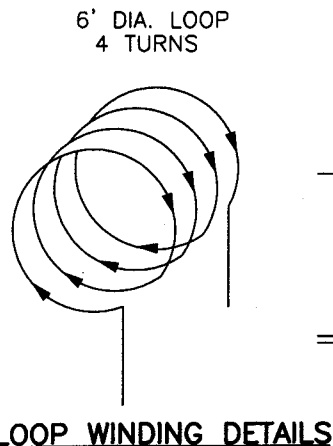
TYPICAL

3/8" SAWCUT

AS NOTED ON PLANS

NOTES:

- ① SEALANT - CRAFTCO 34271 OR EQUAL TO WITHIN 1/4 INCH OF THE SAWCUT. DO NOT OVERFILL.
- ② TWISTED POLYETHYLENE ROPE (SIZE FOR SNUG FIT).
- ③ LOOP WIRE #12 USE STRANDED COPPER CONDUCTOR (SEE LOOP WINDING DETAIL) OR LEAD-IN WIRES #18 STRANDED TINNED COPPER CONDUCTOR: ONE PAIR FOR EACH LOOP SERVED, 2 PAIRS MAX. PER SAWCUT.



**TYPICAL CONDUIT PLACEMENT
FOR LOOP LEAD-IN WIRES**

CONSTRUCTION NOTES:

1. CHANGE FROM 2 INCH CUT TO APPROXIMATELY A 4 INCH CUT AT ABOUT 12 INCHES FROM CURB.
2. LEAD-IN CUT SHALL BE THE SAME AS LOOP CUT EXCEPT AS INDICATED ON THE PLANS. IN THE LAST 12 TO 18 INCHES FROM THE GUTTER SECTION THE CUT SHALL GRADUALLY TRANSITION TO A FULL DEPTH CUT WHERE THE CONDUIT STUBS OUT UNDER THE CURB AND GUTTER. THIS WILL ALLOW THE LEAD-IN WIRE TO EXIT THE CONDUIT AND ENTER THE SAW CUT WITH NO SHARP EDGES.
3. METHOD SAME FOR CONCRETE OR ASPHALT PAVEMENTS.
4. INSTALL 5 CONDUCTOR CABLE SHEATHING OVER INDIVIDUAL PAIRS. EXTEND 6 INCHES INTO SAWCUTS AND 6 INCHES INTO CONDUIT. LEAVE SLACK AS DIRECTED BY ENGINEER.
5. ALL SAWCUTS SHALL BE CLEANED WITH A HIGH PRESSURE WASHER AND DRIED WITH 100 PSI MINIMUM AIR PRESSURE. ALL WASH WATER AND SLURRY SHALL BE VACCUMED UP AND PROHIBITED FROM LEAVING THE IMMEDIATE CUT AREA.
6. ONLY THOSE LOOPS THAT CAN BE COMPLETELY FINISHED, HAVING LOOP WIRE, ROPE AND SEALANT INSTALLED, IN ONE WORKING DAY, SHALL BE SAW-CUT IN THAT WORKING DAY. NO CONTINUOUS TRAFFIC SHALL BE ALLOWED TO TRAVEL OVER OPEN SAW-CUTS BEFORE LOOP WIRE, ROPE AND SEALANT HAVE BEEN INSTALLED. ALL ROADWAY SURFACES SHALL BE THOROUGHLY CLEANED UPON COMPLETION OF ANY LOOP WORK.
7. LOOP SPlicing PROCEDURE SHALL BE TO TWIST THE WIRE, SOLDER IT, WRAP WITH ELECTRICIAN'S TAPE TO 4 INCHES PAST THE SPICE EACH WAY, AND COAT WITH MOISTURE-RESISTANT VARNISH. LOOP SPlicing SHALL BE PERFORMED BY CITY OF TACOMA CREWS.
8. ALL LOOPS SHALL BE COMPLETELY INSTALLED BY THE CONTRACTOR INCLUDING SAW-CUTTING, LAYING WIRE, TESTING AND SEALANT.
9. A MINIMUM OF THREE (3) FEET OF SLACK LOOP WIRE OR LEAD-IN WIRE SHALL BE LEFT AT JUNCTION BOX.

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DEPARTMENT OF PUBLIC WORKS**

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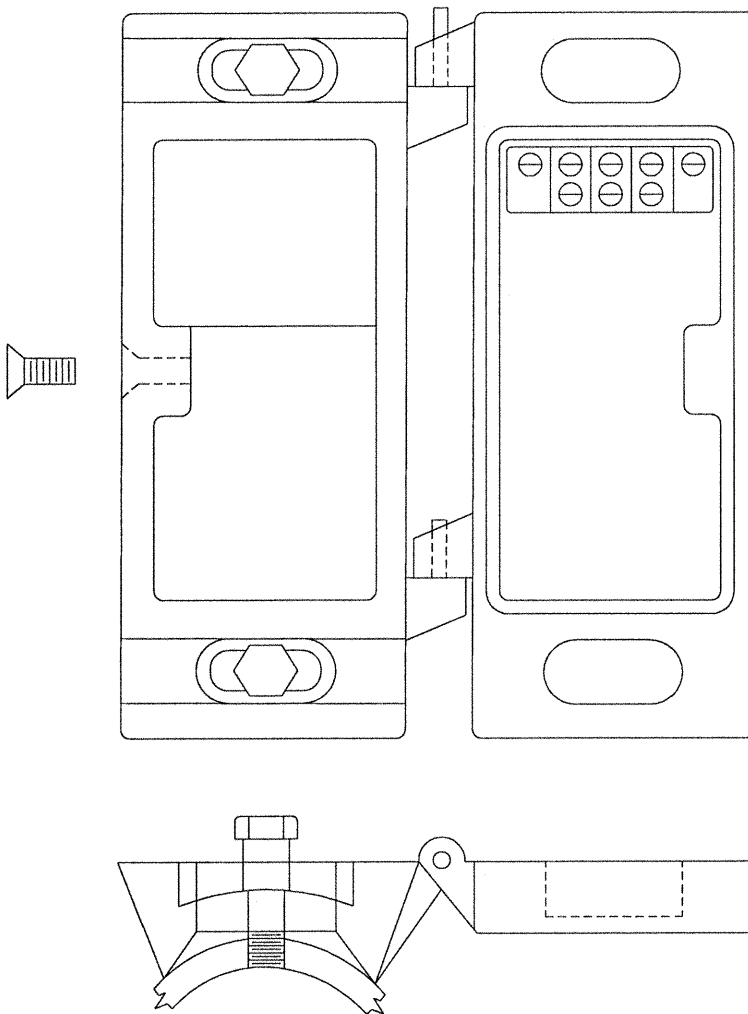
DATE

**INDUCTION LOOP
DETAILS**

STANDARD PLAN NO. TS-11

POLE HALF

SIGNAL HALF



MATERIAL:

CAST ALUMINUM ALLOY

STANDARD PAINT FINISHES:

DARK OLIVE GREEN

DIMENSIONS:

11-1/4" H MAXIMUM x5-1/2" W MAXIMUM x2-3/4 D MAXIMUM

WEIGHT:

TOTAL WEIGHT SHALL NOT EXCEED 7-1/2 LBS.

CONSTRUCTION:

THE CLAMSHELL CONSISTS OF A TWO PART MOUNTING ASSEMBLY. THE HINGE PINS ON THE POLE MOUNTED HALF SHALL BE STAINLESS STEEL AND FIT INTO THE EARS ON THE SIGNAL MOUNTED HALF.

MOUNTING:

THE POLE HALF OF THE ASSEMBLY SHALL BE DESIGNED TO FIT THE CURVATURE OF POLES 4" IN DIAMETER AND LARGER.

THE CLAMSHELL SHALL BE MECHANICALLY DESIGNED TO ALLOW FOR VARIOUS TYPES OF MOUNTING SUCH AS BANDING, THRU-BOLT OR LAG SCREW MOUNTING. THE BOLT HOLES SHALL BE ELONGATED HORIZONTALLY TO ALLOW FOR ROTATION ON THE POLE.

THE SIGNAL HALF OF THE ASSEMBLY SHALL BE SECURED TO THE POLE HALF THROUGH USE OF A FLATHEAD SOCKET BOLT AND TIGHTENED USING A 3/16" ALLEN WRENCH.

THE POLE HALF SHALL BE MOUNTED TO THE STRAIN POLE USING BOLTS EXCEPT AS DIRECTED BY THE ENGINEER.

THE BOTTOM OF THE PEDESTRIAN SIGNAL HEAD SHALL BE 8' ABOVE THE FINISHED SIDEWALK GRADE.

WIRING:

THE FIELD WIRING SHALL BE TERMINATED ON A HORIZONTALLY MOUNTED 3 POSITION TERMINAL BLOCK LOCATED IN THE UPPER HALF OF THE SIGNAL HALF.

MISCELLANEOUS:

A NEOPRENE GASKET WILL PROVIDE A RAIN-TIGHT SEAL

DRILL AND TAP HOLE IN STEEL POLE FOR 3/4" INSULATED CHASE NIPPLE FOR WIRING.

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DEPARTMENT OF PUBLIC WORKS

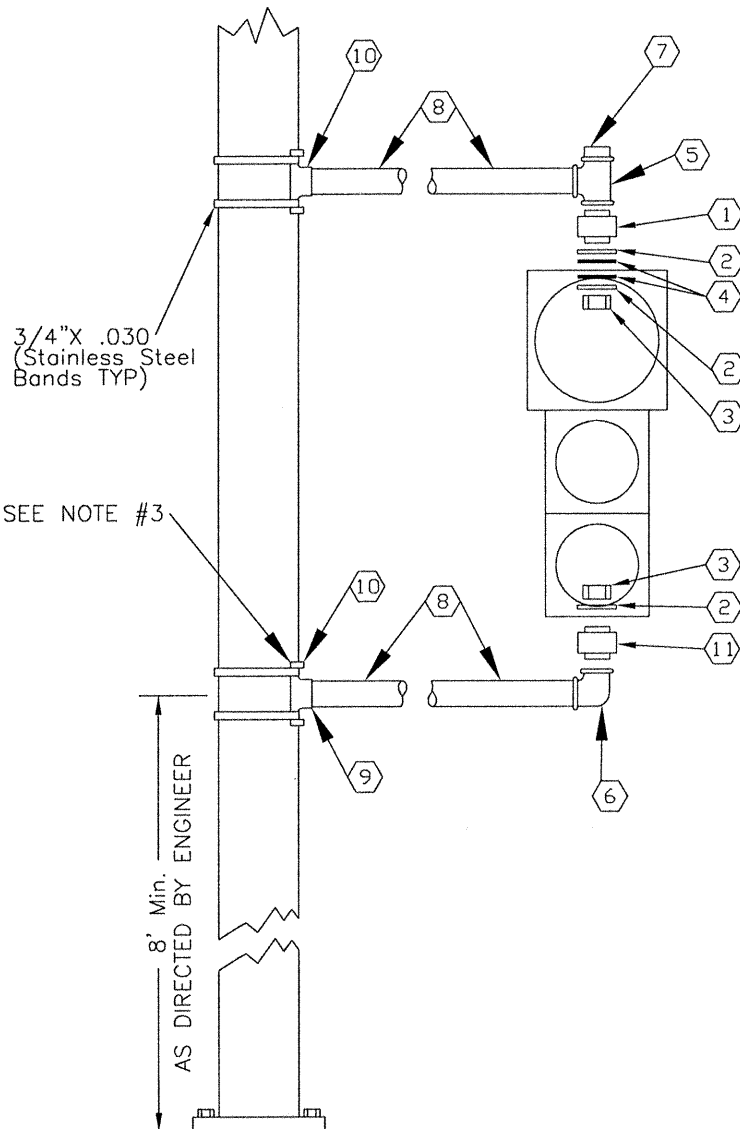
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CITY ENGINEER

DATE 2/4/03

PEDESTRIAN SIGNAL
CLAMSHELL POLE
MOUNTING DETAIL

STANDARD PLAN NO. TS-12



STEEL POLE

NOTES:

1. ALL METAL THREADS SHALL BE PAINTED WITH A HIGH QUALITY RUST PREVENTATIVE PAINT AND DRIED BEFORE ASSEMBLY. AFTER ASSEMBLY, A COAT OF GALVANIZED BONDING PRIMER PAINT SHALL BE APPLIED (AND THOROUGHLY DRY BEFORE PAINTING). COMPLETE BRACKET ASSEMBLY SHALL HAVE A FINISH COAT OF EXTERIOR QUALITY GREEN PAINT. ANY PAINTED HARDWARE DAMAGED DURING ASSEMBLY OR SHIPPING SHALL BE PAINTED AGAIN.
2. ALL TEES AND ELBOWS SHALL BE MADE FLAT AND LEVEL AT CONTACT POINTS, FOR WATERTIGHT SEAL.
3. THE BOTTOM BRACKET FLANGE ON A STEEL POLE SHALL HAVE A 5/16" X 3/4" FLATHEAD BRASS OR BRONZE SCREW LOCATED IN THE TOP OF THE FLANGE. THE SCREW SHALL BE TAPPED INTO THE CENTERLINE OF THE POLE BEFORE BANDING.

LEGEND:

1. 1-1/2" GALVANIZED NIPPLE TO PROVIDE FULL NUT, (REAMED AND PRIMED) WITH 1" LONG PIECE OF PVC CONDUIT USED AS SPACER.
2. 1-1/2" DIAMETER NON-CORROSIVE SLIP RING.
3. 1-1/2" MALLEABLE NUT, NON-CORROSIVE
4. 1-1/2" DIAMETER FLAT CORK GASKET. (NEOPRENE OK)
5. 1-1/2" GALVANIZED TEE.
6. 1-1/2" GALVANIZED ELBOW.
7. GALVANIZED PIPE PLUG.
8. FOR STEEL OR WOOD POLES 1-1/2" GALVANIZED NIPPLE 12" LONG.
9. FOR CONCRETE POLES, SEE CONCRETE POLE MOUNTING DETAIL.
10. DRILL AND TAP HOLE IN STEEL POLE FOR 3/4" INSULATED CHASE NIPPLE FOR WIRING.
11. ALUMINUM POLE FLANGE. SEE NOTE #3.

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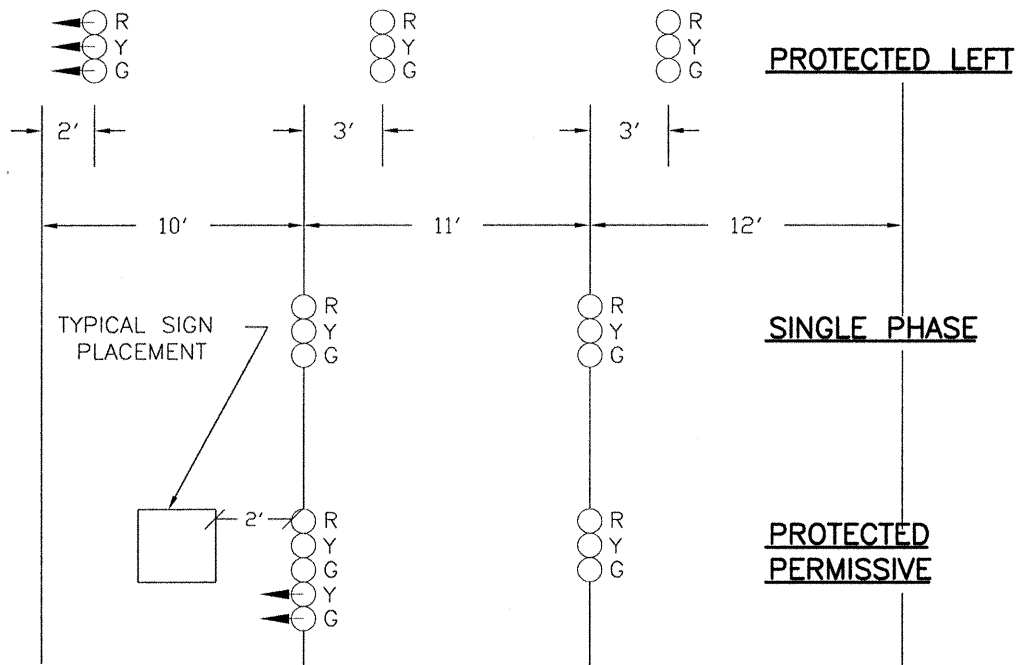
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DATE 2/4/03

**VEHICLE SIGNAL HEAD
POLE MOUNT
DETAIL**

STANDARD PLAN NO. TS-13

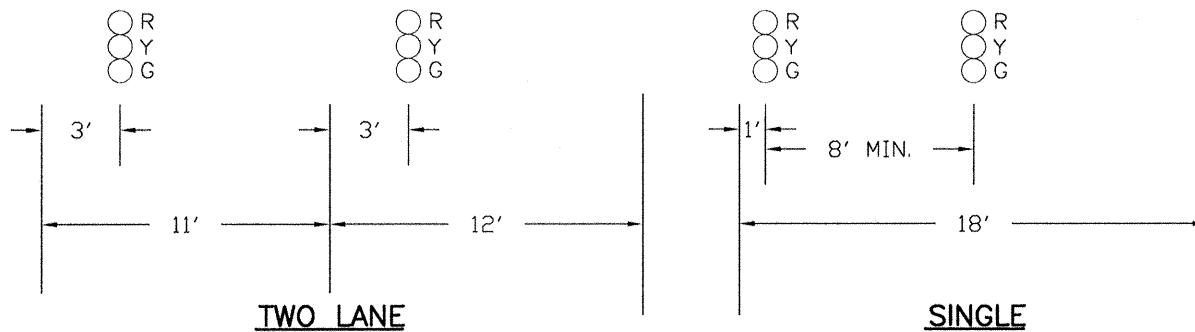


NOTE:

THIS STANDARD DEPICTS A VEHICLE HEAD PLACEMENT AS IT RELATES TO THE LANE LINES ON THE APPROACH TO THE GIVEN HEADS.

SIGNAL HEADS MUST BE LEVELED TO SPEC FROM A POINT 80 FEET FROM THE STOP BAR.

OVERHEAD SIGNS SHALL BE PLACED 2 FEET FROM VEHICLE HEAD.



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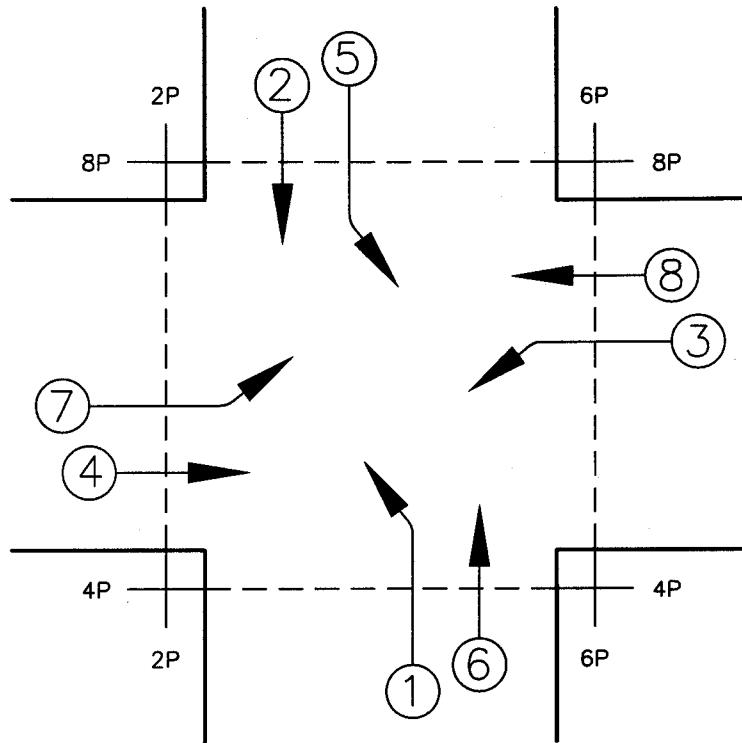
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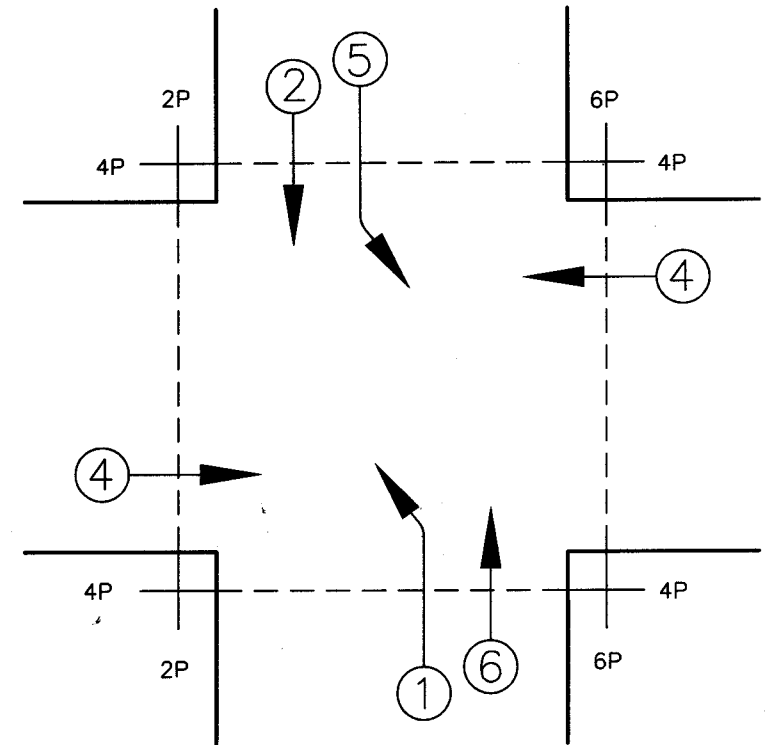
STANDARDS FOR
SIGNAL
PLACEMENT

STANDARD PLAN NO. TS-14

"P" CABINET



"M" CABINET



PEDESTRAIN SIGNAL WIRING

RED	N/S - DW
GREEN	N/S - WK
ORANGE	E/W - DW
BLACK	E/W - WK
WHITE	NEUTRAL

PEDESTRAIN PUSH BUTTON WIRING

RED	N/S
GREEN	SPARE
ORANGE	SPARE
*BLACK	E/W
WHITE	COMM BETWEEN PUSH BUTTONS

*BLACK USED WHEN ONLY ONE PUSH BUTTON IS USED FOR CROSSING EITHER STREET.

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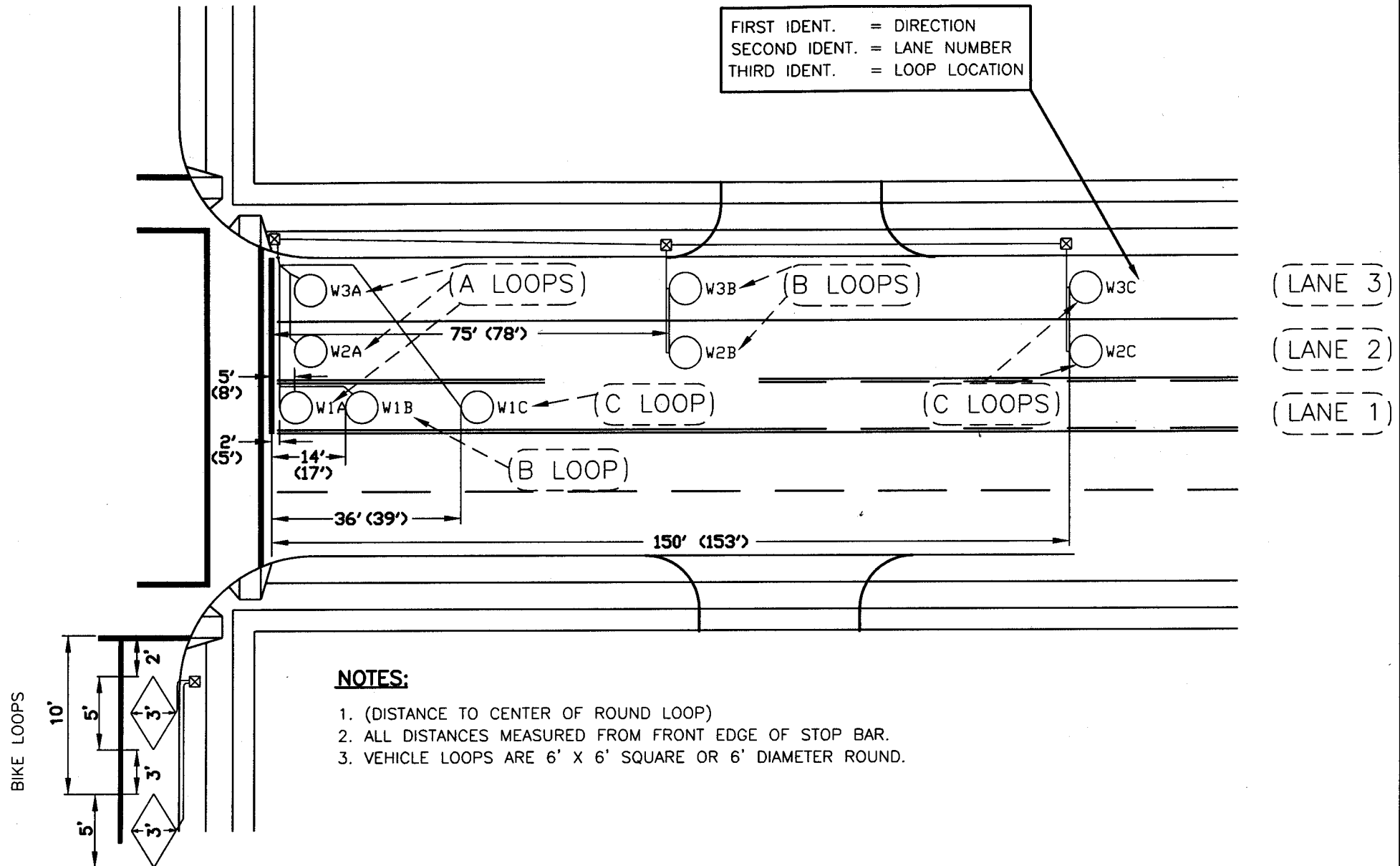
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TRAFFIC SIGNAL
PHASE ORIENTATION

STANDARD PLAN NO. TS-15

FIRST IDENT. = DIRECTION
 SECOND IDENT. = LANE NUMBER
 THIRD IDENT. = LOOP LOCATION



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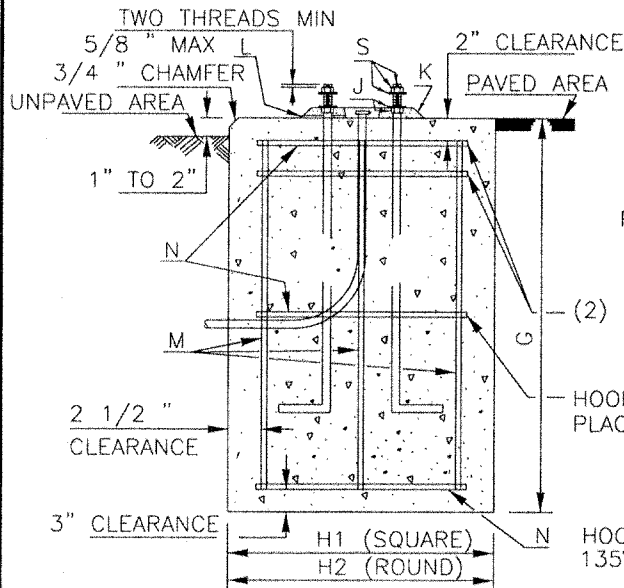
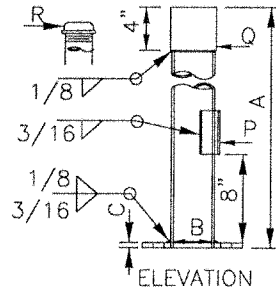
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VEHICLE INDUCTION LOOP
 TYPICAL LAYOUT

STANDARD PLAN NO. TS-16

PLAN



FOUNDATION DETAILS

ANCHOR BOLT, NUT, & WASHER SIZES		
MARK	STANDARD	DIMENSIONS
S	TYPE PPB	4 - 1/2" DIA x 12" x 2"
S	TYPE PS & I	4 - 3/4" DIA x 30" x 4"
S	TYPE FB & RM	3 - 3/4" DIA x 30" x 4"

TYPE PP
PED. PUS
BUTTON
POST

TYPE PS
PED. HEAD
STANDARD

TYPE I & RM
VEHICLE HEAD
AND RAMP METER
STANDARD

TYPE FB
FLASHING
BEACON
STANDARD

TYPE II
MAST ARM
STANDARD

TYPE III
LIGHTING AND
MAST ARM
STANDARD

TYPE IV
STRAIN POLE
STANDARD

TYPE V LIGHTING AND STRAIN POLE STANDARD

SIGNAL STANDARD TYPE DESIGNATIONS

TYPE PPB, PS, I, RM & FB STANDARD DIMENSION CHART

MARK	ITEM	TYPE PPB	TYPE PS	TYPE I	TYPE RM	TYPE FB
A	HEIGHT	4"-6"	8'-0"	10'-0"	SHEET 2	SHEET 2
B	POLE BASE DIA	2 1/2 "	*	*	*	*
C	PLATE THICKNESS	1/2 "	1/2 "	1/2 "	SHEET 2	SHEET 2
D	PLATE WIDTH	5"	9"	9"	SHEET 2	SHEET 2
E	HOLE DIA	5/8 "	1"	1"	SHEET 2	SHEET 2
F	BOLT CIRCLE	4 1/2 "	8 1/2 "	8 1/2 "	SHEET 2	SHEET 2
G	FOUNDATION DEPTH	1'-6"	3'-0"	3'-0"	3'-0"	3'-0"
H1	FOUNDATION WIDTH	1'-6"	2'-0"	2'-0"	2'-0"	2'-0"
H2	FOUNDATION DIA	2'-0"	2'-3"	2'-3"	2'-3"	2'-3"
J	NUT & WASHER	FOUR 1/2 "	3/4 "	3/4 "	3/4 "	3/4 "
K	GROUT PAD THICKNESS	NONE	**	**	SHEET 2	SHEET 2
L	PLASTIC DRAIN TUBE DIA	NONE	3/8 "	3/8 "	3/8 "	3/8 "
M	VERTICAL RE-BAR	NONE	EIGHT #4	EIGHT #4	EIGHT #4	EIGHT #4
N	HORIZ. RE-BAR HOOP	NONE	SIX #4	SIX #4	SIX #4	SIX #4
P	HANDHOLE SIZE	NONE	3-1/2"x4"	3-1/2"x4"	3-1/2"x4"	3-1/2"x4"
Q	SLIPFITTER DIA (I.D.)	NONE	4"	4"	4"	4"
R	CAP DIA	2 1/2 "	NONE	NONE	NONE	NONE

* TAPERED ROUND OR OCTAGONAL SHAFT, 11 GAGE, 4" OD AT SLIPFITTER WELD.

** LEVELING NUT HEIGHT 1" MAXIMUM.

LEVELING NUTS NOT REQUIRED FOR TYPE PPB STANDARD

TAPER = 0.14 INCHES/FT.

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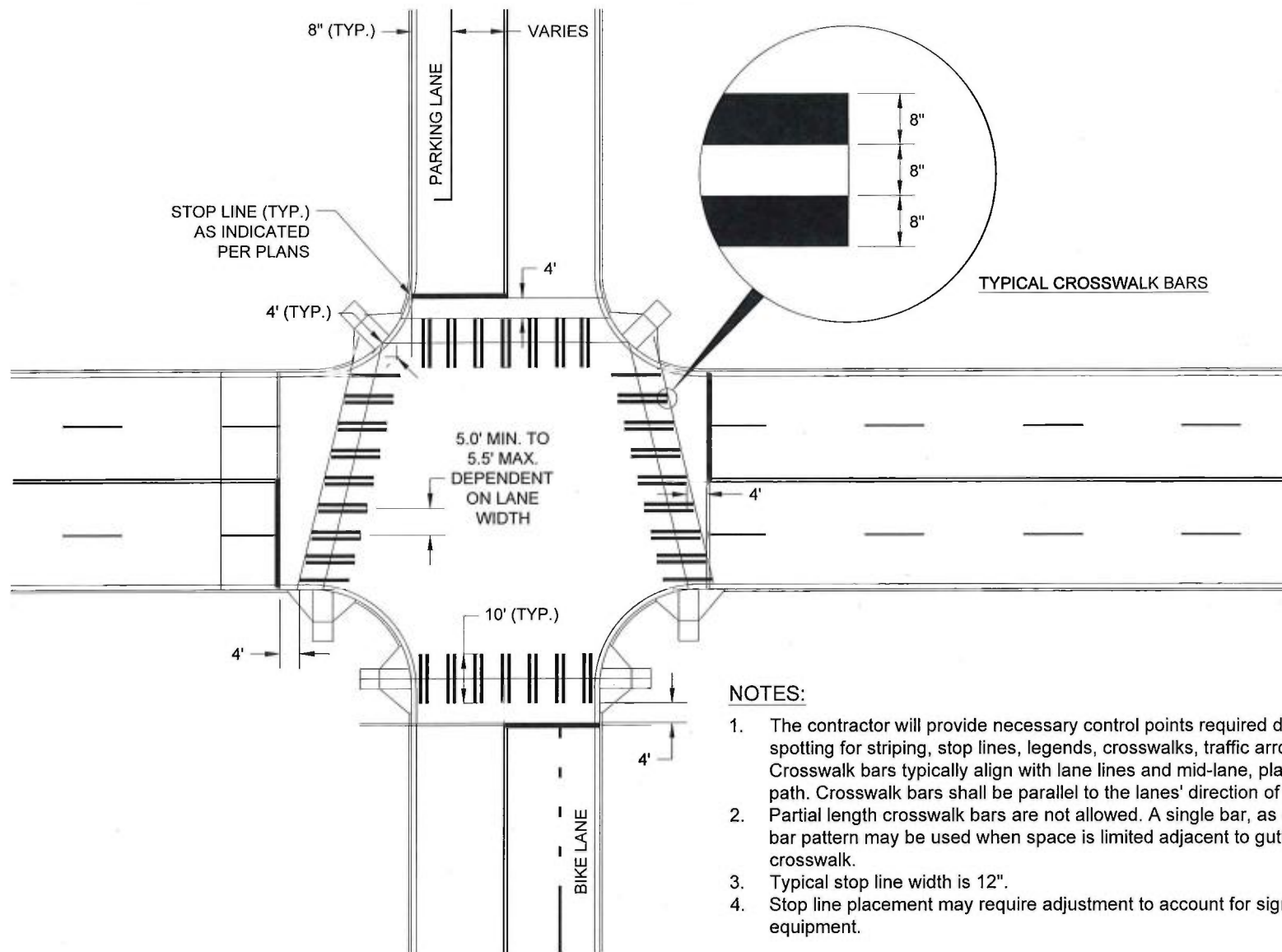
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DATE 2/4/03

**SIGNAL STANDARD TYPE
DESIGNATIONS AND TYPE
PPB, PS, I, RM, & FB DETAILS**

STANDARD PLAN NO. TS-17



NOTES:

1. The contractor will provide necessary control points required during preliminary spotting for striping, stop lines, legends, crosswalks, traffic arrows, and signs. Crosswalk bars typically align with lane lines and mid-lane, placed to avoid wheel path. Crosswalk bars shall be parallel to the lanes' direction of travel.
2. Partial length crosswalk bars are not allowed. A single bar, as opposed to the double bar pattern may be used when space is limited adjacent to gutter, curb or intersecting crosswalk.
3. Typical stop line width is 12".
4. Stop line placement may require adjustment to account for signal detection equipment.

DCS

PUBLIC WORKS

NA

TACOMA POWER

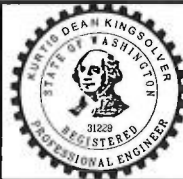
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ENVIRONMENTAL
SERVICES

NA

TACOMA WATER



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[Signature] 8/16/16

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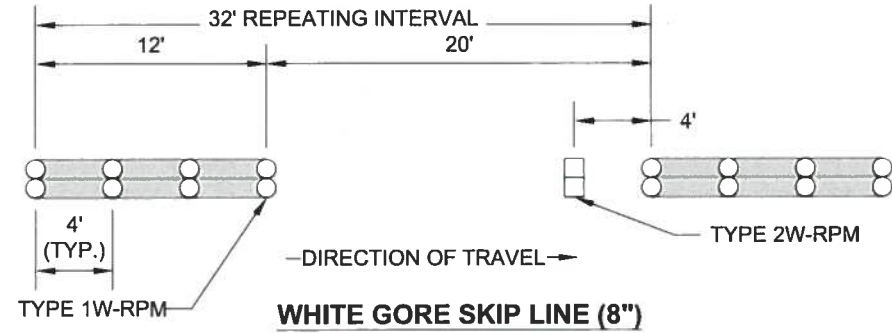
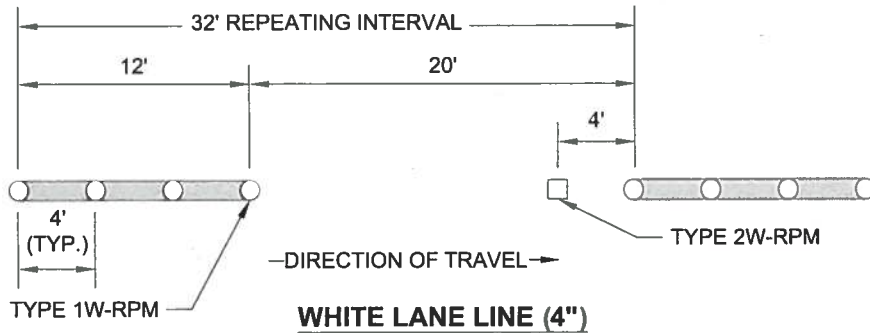
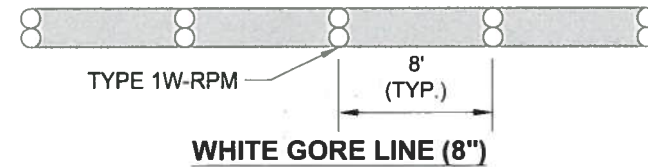
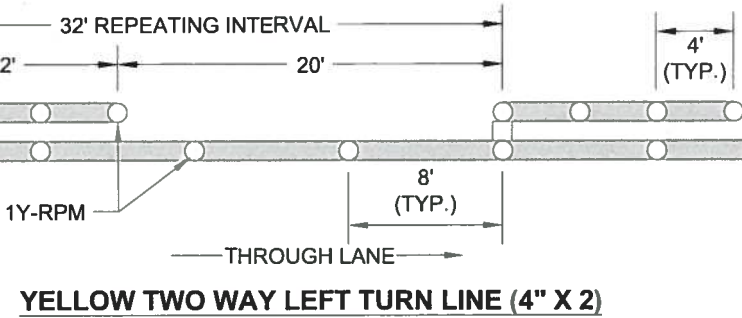
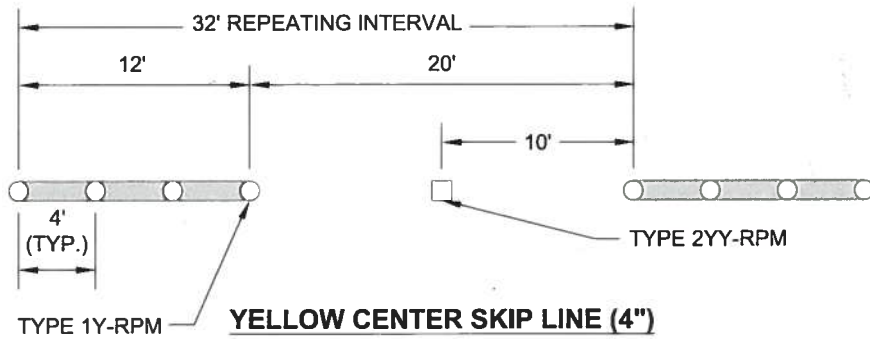
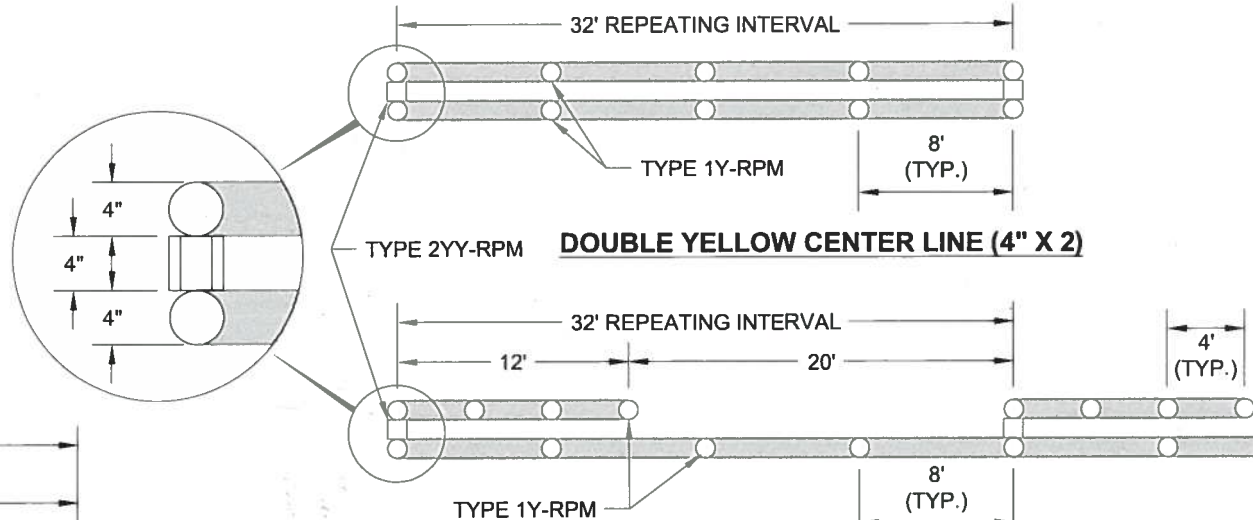
DATE

CITY OF TACOMA
TYPICAL CROSSWALK AND
STOP LINE LAYOUT FOR
VARIOUS CURB RAMP COMBINATIONS

STANDARD PLAN NO. CH-02

NOTES:

1. The Contractor will provide necessary control points for striping, stop lines, legends, crosswalks, traffic arrows, and signs. City inspection required before striping or associated sign installation begins.
2. Use of RPMs as shown correspond with paint striping. If striping consists of thermoplastic (or similar) then Type 1Y/W-RPMs are omitted.
3. RPMs shall not be placed over longitudinal or transverse joints of the pavement surface.



DCS

PUBLIC WORKS

NA

TACOMA POWER

REVIEWED BY

ENVIRONMENTAL
SERVICES

TACOMA WATER



APPROVED FOR PUBLICATION

CITY ENGINEER

DATE

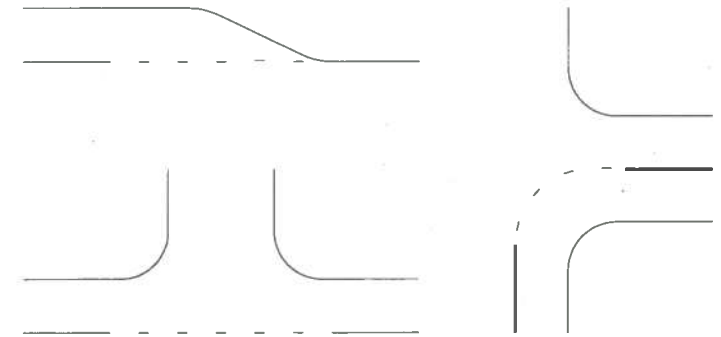
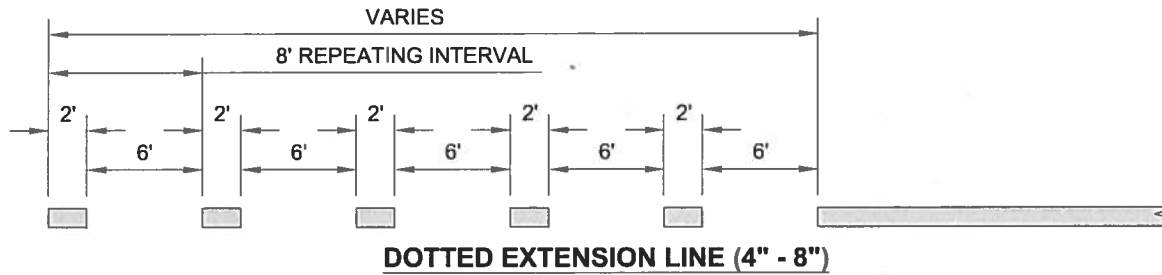
CITY OF TACOMA

LONGITUDINAL
PAVEMENT MARKINGS

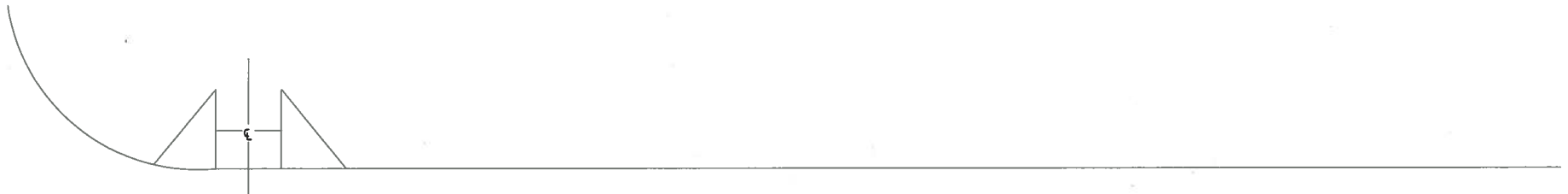
STANDARD PLAN NO. CH-03A

NOTE:

1. The Contractor will provide necessary control points for striping, stop lines, legends, crosswalks, traffic arrows, and signs. City inspection required before striping or associated sign installation begins.



EXAMPLE APPLICATIONS OF DOTTED EXTENSION LINE



EDGE LINE (4") (WHEN ADJACENT TO PARKING)



← DIRECTION OF TRAVEL →

BIKE LANE SKIP LINE (6")

BIKE LANE LINE (6")

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PUBLIC WORKS

ENVIRONMENTAL
SERVICES

N/A

TACOMA POWER

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TACOMA WATER



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CITY ENGINEER

DATE

CITY OF TACOMA

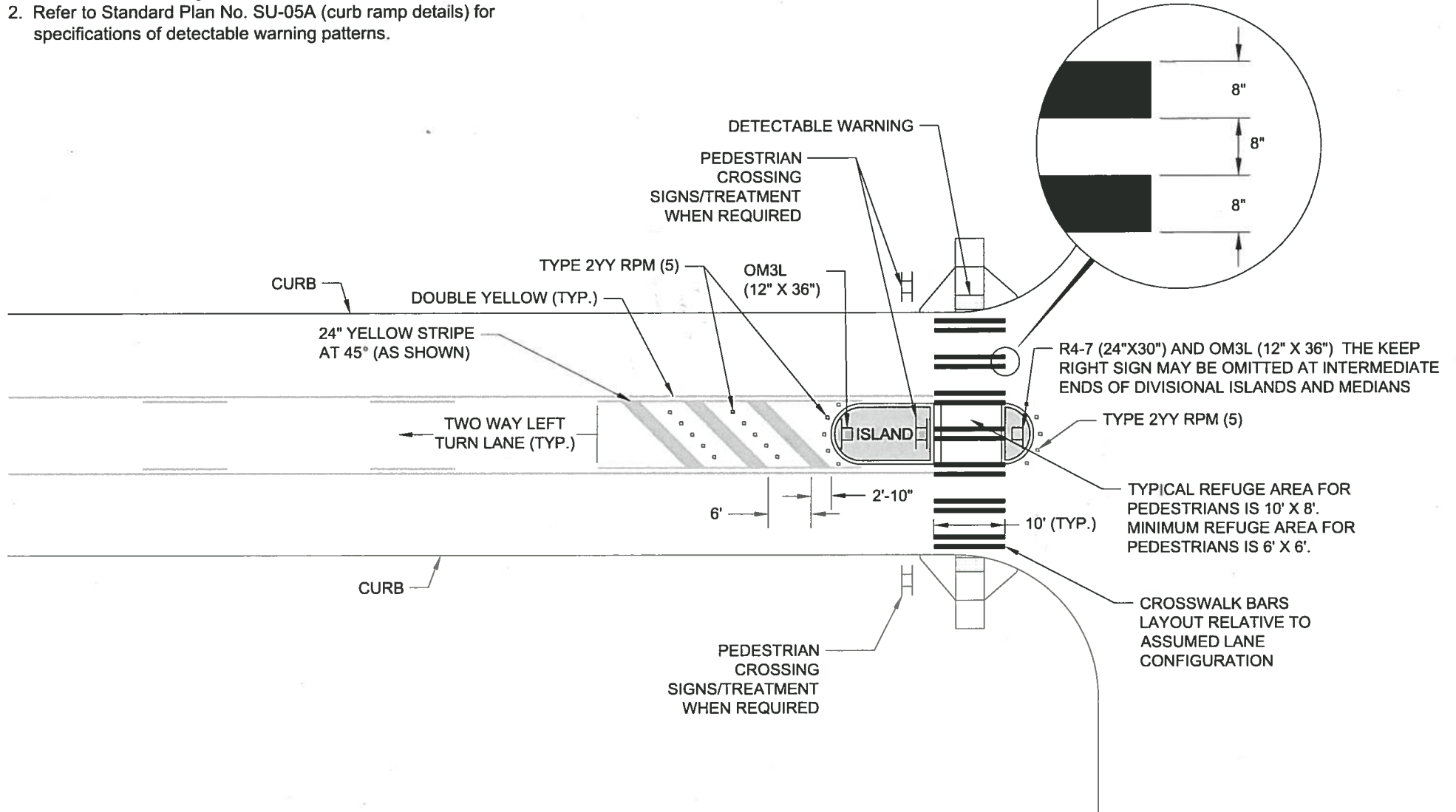
LONGITUDINAL
PAVEMENT MARKINGS

STANDARD PLAN NO.

CH-03B

NOTES:

1. Contractor will provide necessary control points to assist in preliminary spotting for striping, stop lines, legends, crosswalks, traffic arrows, and signs.
2. Refer to Standard Plan No. SU-05A (curb ramp details) for specifications of detectable warning patterns.



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PUBLIC WORKS

ENVIRONMENTAL
SERVICES

NA
TACOMA POWER

NA
TACOMA WATER



APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

4/4/10
DATE

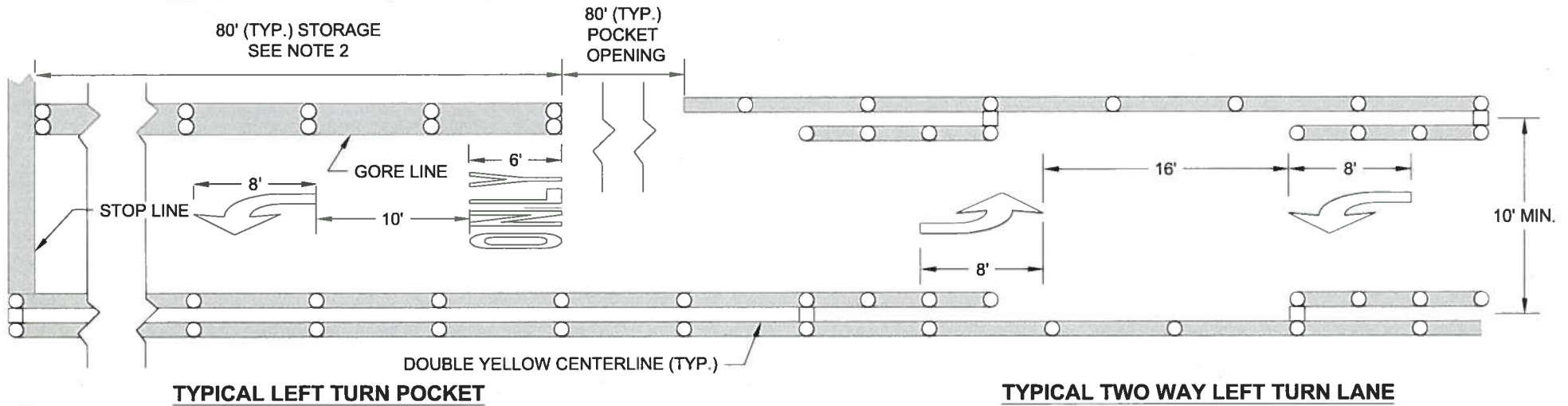
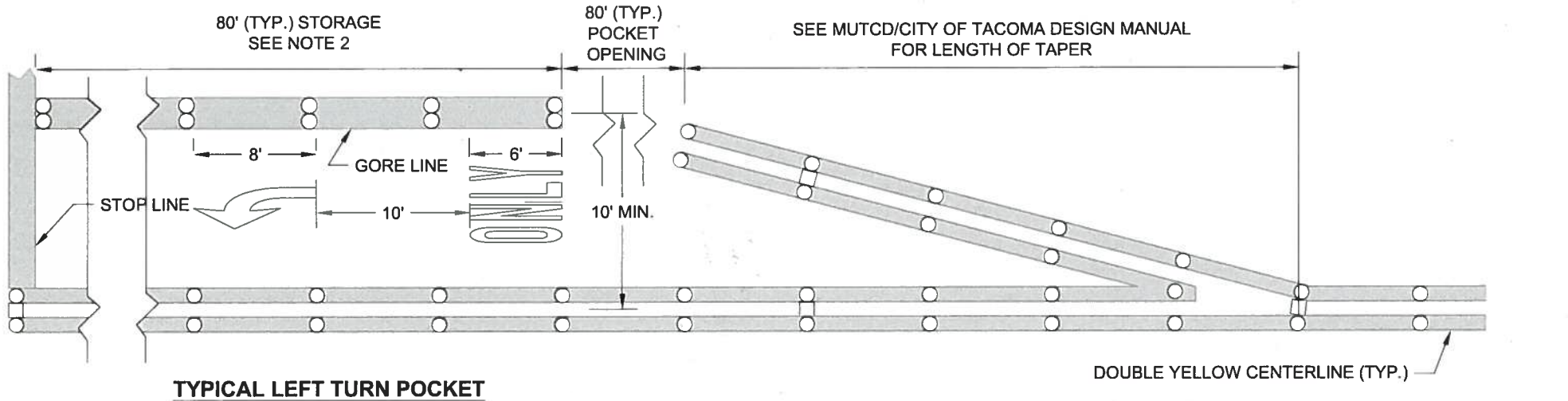
CITY OF TACOMA

PAVEMENT MARKINGS AND SIGN
LOCATIONS FOR PEDESTRIAN ISLAND

STANDARD PLAN NO. CH-07

NOTES:

1. Contractor will provide necessary control points to assist in preliminary spotting for striping, stop line, legends, crosswalks, traffic arrows, and associated signs.
2. If storage length is 100 feet or greater, then a second arrow, (without "only"), to be placed at 22 feet from stop line to near edge of the arrow.
3. Use of RPMs as shown correspond with paint striping. If striping consists of thermoplastic (or similar) then type 1Y/W-RPMs are omitted.



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NA

TACOMA WATER



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[Signature]
CITY ENGINEER

4/4/16
DATE

CITY OF TACOMA

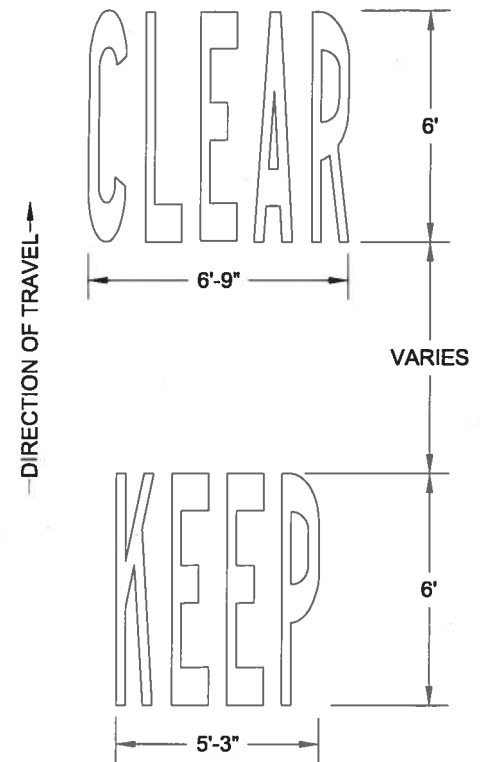
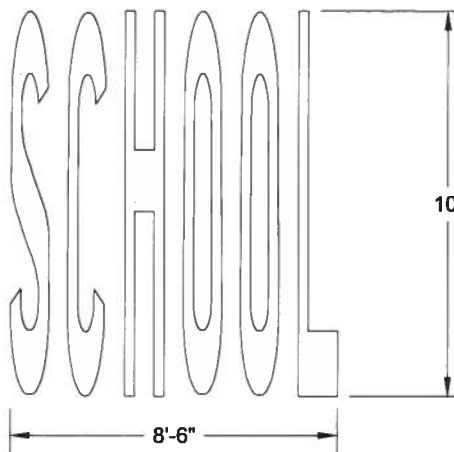
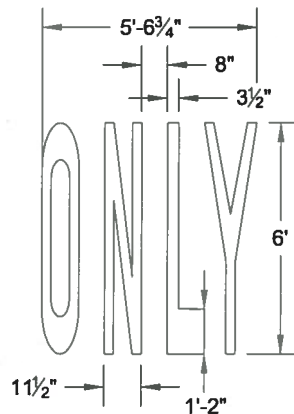
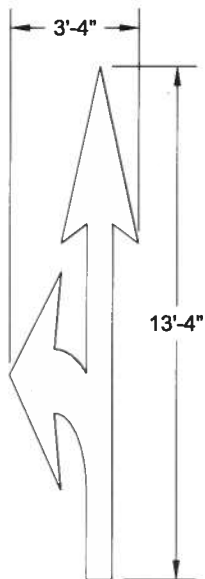
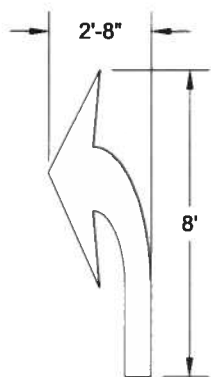
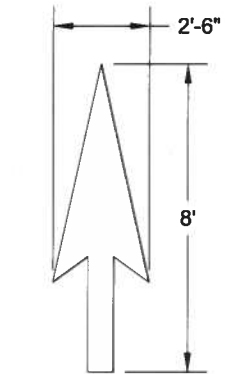
LEFT TURN POCKET
PAVEMENT MARKINGS

STANDARD PLAN NO.

CH-09

NOTES:

1. Contractor will provide necessary control points to assist in preliminary spotting for stripe, stop line, legends, crosswalks, traffic arrows, and associated signs.
2. Typical letter width is 11½".
3. Typical letter spacing is 8".
4. Letter stroke is 3½".
5. Refer to WSDOT M24.40-02 for more specific traffic arrow dimensions.
6. Arrows shown may be mirrored about their centerline as applicable to design.



DCS

PUBLIC WORKS

N/A

TACOMA POWER

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SERVICES

NA

TACOMA WATER



APPROVED FOR PUBLICATION

CITY ENGINEER

DATE _____

CITY OF TACOMA

PAVEMENT WORDS AND ARROWS

STANDARD PLAN NO. CH-10

APPENDIX B

TRAFFIC CONTROL HANDBOOK

TRAFFIC CONTROL HANDBOOK

**MUST MAINTAIN
PEDESTRIAN AND
DISABILITY ACCESS AT
ALL TIMES**



TABLE OF CONTENTS

INTRODUCTION (READ FIRST)

Traffic Control Handbook instructions
Permits / General Rules
Special Traffic Requirements

SAMPLE SETUP DRAWINGS

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Single Lane Non-Arterial with A Flagger
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Shoulder Work with Minor Encroachment
Two Lane Road with Center Closure
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Right Lane Closure
Right Lane Closure at Intersection
Left Lane Closure At Intersection
One Way Street Multi-Lane Closure
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SHORT DURATION WORK – UNDER 60 MINS

Lane Closure at Intersection
Mid-Block Lane Closure
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Traffic Control Recommendations for Truck Crossings
Traffic Control for Portable Dumpsters
Traffic Control for Moving Van
Bypass Walkway for Pedestrians
Bypass Ramps for Pedestrians
Curb Ramp Pedestrian Control
Sidewalk Closures
Sidewalk Closure with Parking Closure

SURVEY CREWS

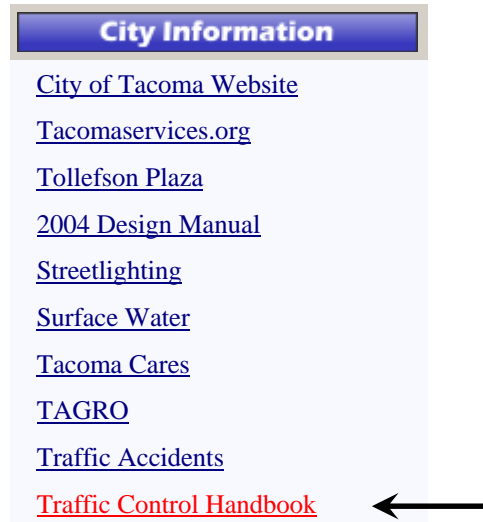
Survey Two Lane Arterial Intersection
Survey Two Lane Arterial Mid Block
Survey Multi-Lane Arterial

CREATE YOUR OWN PLAN

Blank Two Lane Road
Blank Two Lane Road with Center Turn Lane
Blank Two Lane Road with Two Intersections
Blank Two Lane Road with Two Intersections and Parking
Blank Two Lane Road with Four Intersections and Parking
Blank Four Lane Road with Two Intersections
Blank Four Lane Road with Two Intersections and Parking
Blank Five Lane Road

TRAFFIC CONTROL PLAN INSTRUCTIONS

- 1) To create a traffic control plan, go to www.govME.com
- 2) At the bottom of the page, under “City Information” choose “[Traffic Control Handbook](#)”



The City of Tacoma Traffic Control Handbook will open up in a new screen.

- 3) Read “**INTRODUCTION & SPECIAL REQUIREMENTS**” Chapter. Pay particular attention to the sections regarding [Pedestrian and Disability access](#).
- 4) Choose a plan closest to the type of traffic control you need.
 - You may need to alter an existing plan or use multiple plans
- 5) Print out the traffic control plan that you need.
- 6) On the map, identify street names and addresses of work.
- 7) Draw site specific details (work area, location of signs, cones, etc.).
- 8) Add Contractor name and contact information.
- 9) Specify type of work at the top of the page
- 10) List dates of work and desired work hours.
- 11) Contact a Permit Specialist when you are done filling in your Traffic Control Plan.
- 12) Write the permit number in the top right corner of the sheet (when obtained from the Permit Specialist).
- 13) The Traffic Control Plan is not valid until permit is acquired and paid for.
- 14) You must keep a copy of the Traffic Control Plan on your job site for Inspectors and Road Use Compliance Officers to review. Prime contractors will be responsible for any subcontractor's traffic control unless sub goes through the above process.



City of Tacoma Public Works Department

INTRODUCTION

This manual is intended for use by any person, firm or corporation, public or private, when involved in construction, maintenance or any activity that alters the normal flow of traffic, vehicular or pedestrian, on any City right-of-way.

This manual shall be used in conjunction with Part VI of The Manual on Uniform Traffic Control Devices (MUTCD) for the installation of temporary traffic control and the Access Board's Guidelines for Accessible Public Rights -of-Way (2002), (www.access-board.gov/),

Authority to establish local rules regarding channelization and traffic control is permitted by Washington Administrative Code (WAC) 308.330.265.

Unless specifically addressed in this manual, when the term "should" is used in the MUTCD to describe a condition or method for traffic control, it means that if that suggestion is not used an equally effective method will be used. It does not eliminate the responsibility to address the situation.

This manual does not prohibit the use of additional traffic control or warning devices as long as the minimum conditions are met.

For additional information, please call the Engineering Division at (253) 591-5500.

PERMITS

A permit must first be obtained from the Public Works Department by any person, firm or corporation working in City right-of-way that alters the normal flow of traffic or makes any public place dangerous.

Provisions for obtaining a permit are outlined in Tacoma Municipal Code Chapter 10.22.

All applications for permits must have a comprehensive traffic control plan attached for review by the Traffic Engineer. Permits will not be issued unless the Traffic Engineer has approved the traffic control plan.

MUNICIPAL AGENCIES

Municipal agencies and Utilities are not required to obtain a permit for routine maintenance and repairs, but must notify the Traffic Engineer a minimum of 72 hours in advance if the following conditions apply:

1. Closing any street (see attached street closure requirements).
2. Altering or detouring traffic during commute hours on arterial streets (7 a.m. – 9 a.m. and 4 p.m. – 6 p.m.).
3. The activity or obstruction will be in place for more than 8 hours.
4. The activity or obstruction is during the hours of darkness.
5. The activity reduces traffic on arterial streets to less than one lane in each direction.

GENERAL RULES

The following list of rules must be followed while involved in construction, maintenance or other activity in City right of way unless specifically addressed by the Traffic Engineer.

1. All traffic control devices must meet the requirements established by the Manual on Uniform Traffic Control Devices.
2. No activity will be placed in such a way as to detour, slow or alter traffic flow during peak commute hours. These times are generally from 7 a.m.– 9 a.m. and 3:30 p.m. – 6 p.m. The Traffic Engineer may allow an exception with prior approval.
3. An approved traffic control plan must be on-site and accessible for inspection at all times by law enforcement or inspectors.
4. Traffic control plans and activities must include the following components:
 - a. Advanced Warning Area: Signs and other devices inform drivers of what to expect.
 - b. Transition Area: Channelization devices move traffic from the normal flow to the desired path.
 - c. Activity Area: Area where the work takes place.
 - d. Buffer Space: Area used to separate traffic from the work activity area and provides recovery space for an errant vehicle.
 - e. Termination Area: Area used to return traffic to the normal path.
5. **Pedestrian and disability access** must be maintained throughout the period of time construction is underway. This does not just apply to the final product, but accessibility must be maintained during the actual construction. Safe, clearly marked routes must be maintained through or around the construction activity at all times. The use of temporary walkways with width, slope, and cross-slope compliant to the maximum extent feasible shall be incorporated on the job site. Surfaces must be firm, stable, and slip resistant. Channeling and barricading must be used to separate pedestrians from traffic. Adequate barricading must be addressed to prevent visually impaired pedestrians from entering work zones. Alternate pedestrian circulation routes with appropriate signage that can be accessed by people who use mobility aids (wheelchairs, walkers, scooters, etc.) The alternate circulation path shall have a minimum width of 5 feet and parallel the disrupted pedestrian access route when practicable. Barricades and channelizing devices shall be continuous, stable, non-flexible, and shall consist of a wall, fence, or enclosure specified in section 6F of the MUTCD. A solid toe rail should be attached such that the bottom edge is 6 inches maximum above the walkway surface. The top rail shall be parallel to the toe rail and shall be located 36 inches minimum and 42 inches maximum above the walkway surface. If drums, cones, or tubular markers are used to channelize pedestrians, they shall be located such that there are no gaps between the bases of the devices in order to create a continuous bottom, and the height of each individual device shall be no less than 36 inches.
6. Persons in charge of maintaining or establishing traffic control and channelization must have a certified flagger control card in their possession and must be on the site at all times or be represented by another knowledgeable, certified person.
7. A flagger cannot be used to direct traffic through a signalized intersection against the signal indications. When flaggers are used near signalized intersections, care will be used to clear the intersection of traffic before the signal change.
8. In some situations, Signal modifications may be used to support the traffic control plan. The traffic Signal Shop shall make all modifications, and all modifications must be approved by the Traffic Engineer.
9. A uniformed police officer is required to direct traffic through a signalized intersection against the signal indications.
10. Police officers may also be required during activities for traffic calming if speeds are high, pedestrian or vehicular traffic volume is extremely high, or during emergencies.

11. To minimize the disruption to access to adjacent properties, and to Pierce Transit operations, the lane closure area shall be limited to that area of active work and necessary for appropriate lane closure tapers. The Contractor shall stage work to maintain access to and egress from all properties at all times. An **approved traffic control plan and permit shall** be posted on the job site for review by City officials. Construction Inspectors shall ensure the approved traffic control plan is on site at all times. Any approved Traffic control plans the Contractor doesn't follow are in violation of the Standard Specifications which are included in the contract. It is the inspector's job to have them comply or Stop work. Jobs having permits only and not following the approved Traffic Control plan is a violation of Tacoma Municipal Code 10.22.080. The work can be stopped or a violation infraction can be imposed in an amount not exceeding \$500.00.
12. When parking lanes are closed due to construction, "no parking" portables will be installed at least 48 hours in advance of the closure in unrestricted areas and 24 hours in advance in time restricted areas. The message on the portables shall establish the date and hours for no parking.
13. During emergencies where life, property or public safety is in danger, conditions listed may be changed. Traffic control will be addressed along with the initial response. (See attached page for emergency contact numbers.)
14. The Traffic Engineer may allow reduced speed limits in construction area zones. Request for speed reduction must be included in the traffic control plan.
15. All signs and cones shall be removed from the right-of-way when traffic control is not in effect.
16. The contractor may be required to discontinue work if possible conflict exists with special events such as parades, sporting events, miscellaneous rallies, and large public meetings. Information concerning such events can usually be obtained from the City Clerks Office, tel. (253) 591-5171.
17. Maintenance of 2-way traffic on arterial streets at all times except on one-way streets. Additional width for facilitating traffic flow may be obtained by prohibiting on-street parking adjacent to the work zone.
18. No work shall be scheduled on streets or sidewalks within the City of Tacoma Business Districts from Thanksgiving Day through New Year's Day.
19. All traffic control devices used at night, particularly signs, barricades and channelizing devices, must have Type C steady burn lights. Requests to reduce the number of lights used on channelizing devices must be specifically detailed on the approved traffic control plan.

Failure to comply with the provisions of this manual is a traffic infraction and, notwithstanding any fines or penalties levied against the person, firm or corporation involved, if a safety hazard exists, the work may be ordered stopped and the obstruction cleared by the person, firm or corporation responsible or by the City at that responsible party's expense.

<http://www.cityoftacoma.org/>

<http://wspwit01.ci.tacoma.wa.us/govME/Admin/Inter/StartPage/default.aspx>

http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf

Special Traffic Requirements

The contractor shall notify the following departments three (3) working days prior to any street closure.

Pierce Transit requires five (5) working days prior to any route detours.

Department	Phone	Fax	Email
Traffic Engineering	591-5500	591-5533	
Tacoma Fire Department	591-5733	591-5034	kmueller@cityoftacoma.org
Tacoma Police –Ops	591-5932	594-7842	
LESA	798-4721 Opt #3	798-2708	
Sound Transit Link	206-370-5674		
Pierce Transit	581-8109	589-6364 or 589-6367	
Pierce Transit Events Coordinator	581-8001	984-8161	
Public Works/Street Ops	591-5495	591-5302	
School Trans Office	571-1853	571-1932	
Durham School Services		475-0422	
First Students		272-7799	
UWT Facilities Services		692-5705	
Off-Duty Police Officer	591-5932		TacomaPoliceEvents@cityoftacoma.org
Tacoma Refuse	591-5544	591-5547	

Include the following information when notifying the above departments.

Name of street to be closed & the extent of the closure (between which two roads).

Stipulate whether or not the area is to be open to local traffic & emergency vehicles.

State the date(s) & hour(s) the closure will be in effect.

Give the reason for the closure.

Provide detour information.

State who/which firm is performing the work.

Provide the name and telephone number of a contact person.

Recommended Publications

As a contractor you will have many opportunities for setting up traffic control. To comply with national standards, we recommend having the **MUTCD** (Manual on Uniform Traffic Control Devices) for future reference.

To order hard copies or CD versions of the MUTCD please go to one of the links below:

American Association of State Highway Organizations at: <https://bookstore.transportation.org/>

Institute of Traffic Engineers at: <http://www.ite.org/bookstore/index.asp>

American Traffic Safety Services Association at: <http://www.atssa.com/>

Things to Think About

Before the traffic control plan is drawn visit the site and look for special circumstances that may be unique to the area. For example work being done on the sidewalk may be a hazard if someone walks out a door into your wet cement or a tool may fall on someone's head if someone is in a lift washing windows. Call Pierce Transit if you need to do work at a bus stop. Transit requires five (5) days notice for route detours. Transit will inform citizens and move or temporarily close the stop. Keep in mind that pedestrians need 5' of unobstructed walking area. If roadwork needs to be done on an arterial street, traffic control devices shall be removed during peak hour traffic (7am to 9am and 4pm to 6pm). For further information see our TRAFFIC CONTROL HANDBOOK.

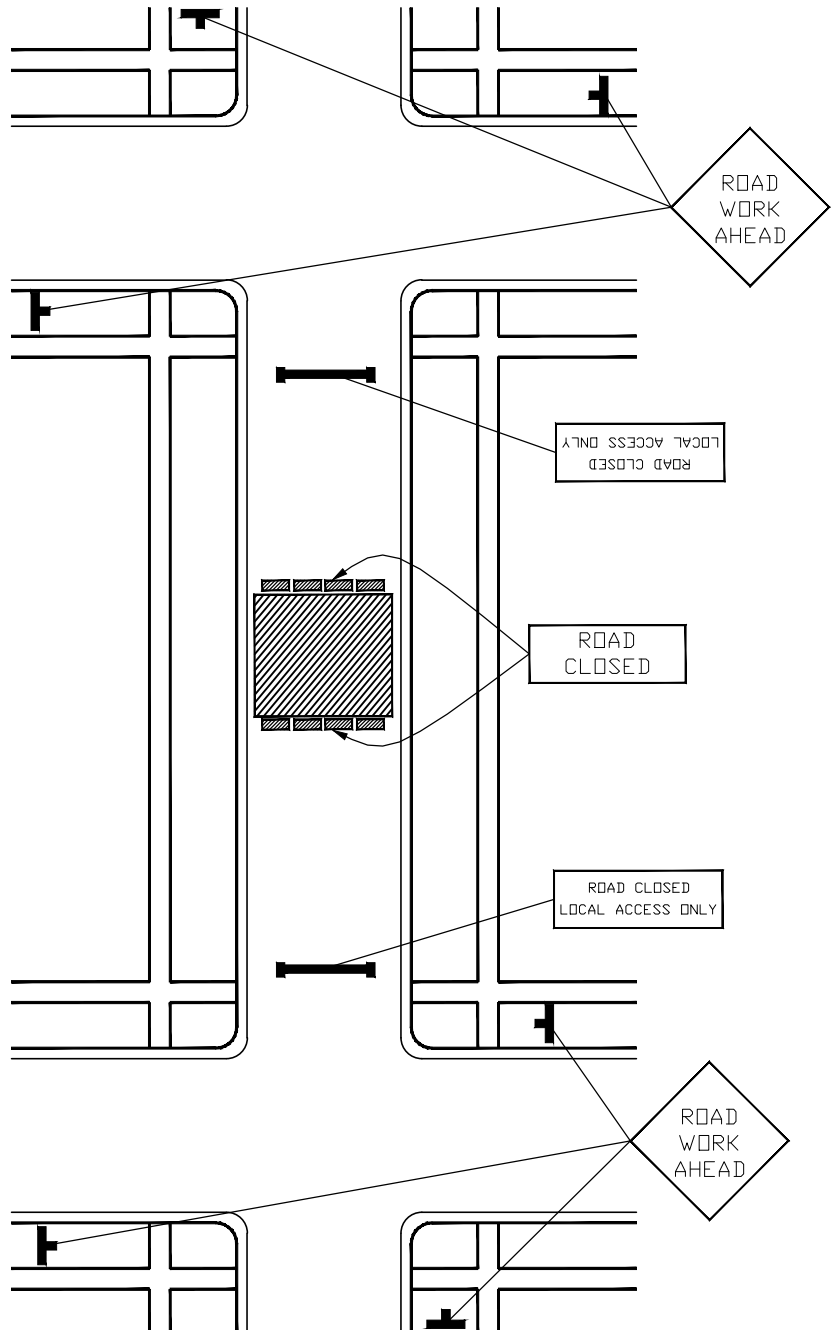
<http://www.cityoftacoma.org/>

<http://wspwit01.ci.tacoma.wa.us/govME/Admin/Inter/StartPage/default.aspx>

http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf

SAMPLE SETUP

Note: At night, signage and barricades must be Type C steady burn lights. A contractor may close a nonarterial street to through traffic, provided that local access is maintained at all times with a minimum of a 20' wide access lane. Road Work Ahead signs may be eliminated on non-arterial streets.



NON-ARTERIAL ROAD CLOSURES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

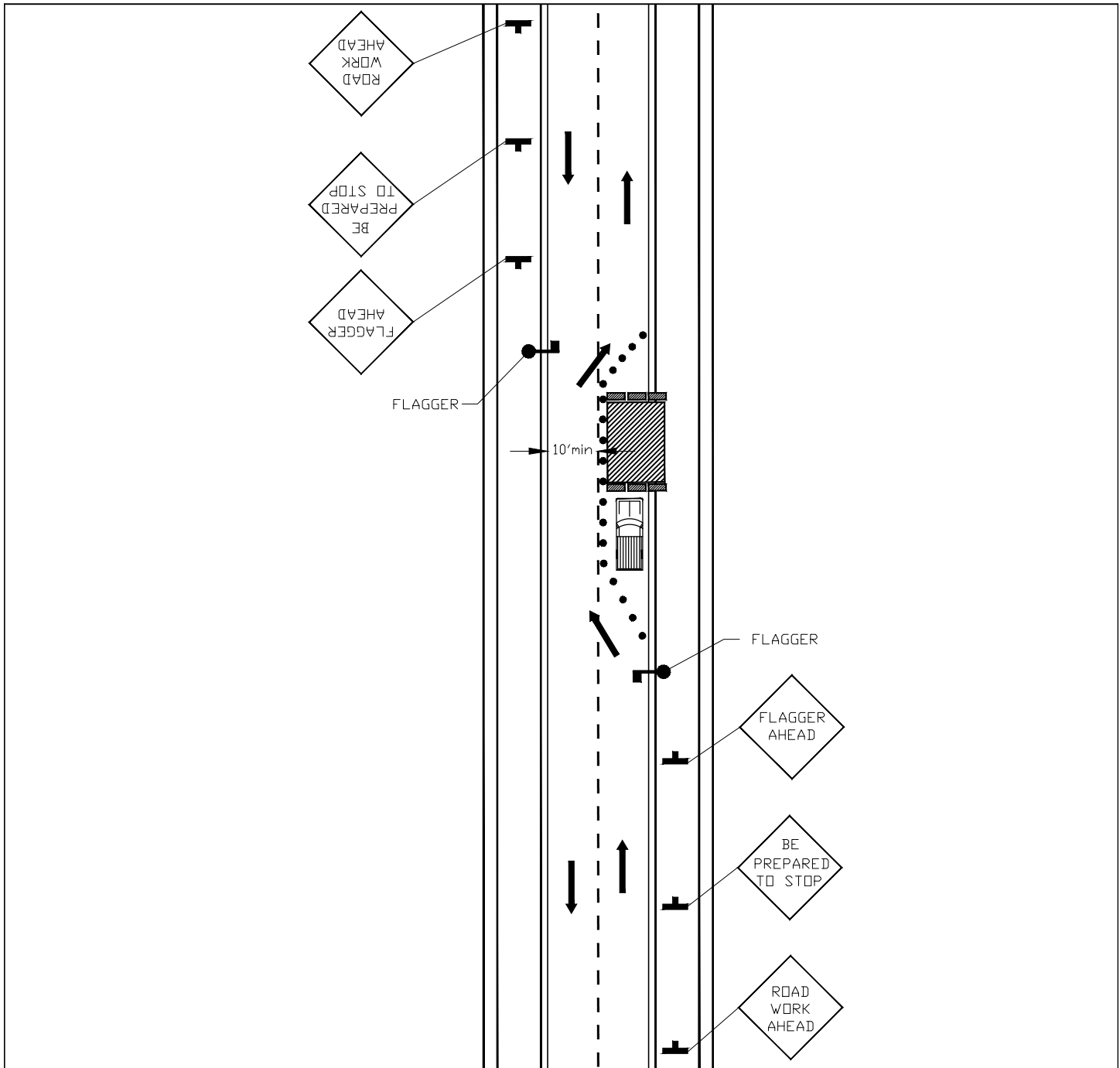
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SINGLE LANE NON-ARTERIAL WITH FLAGGER

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

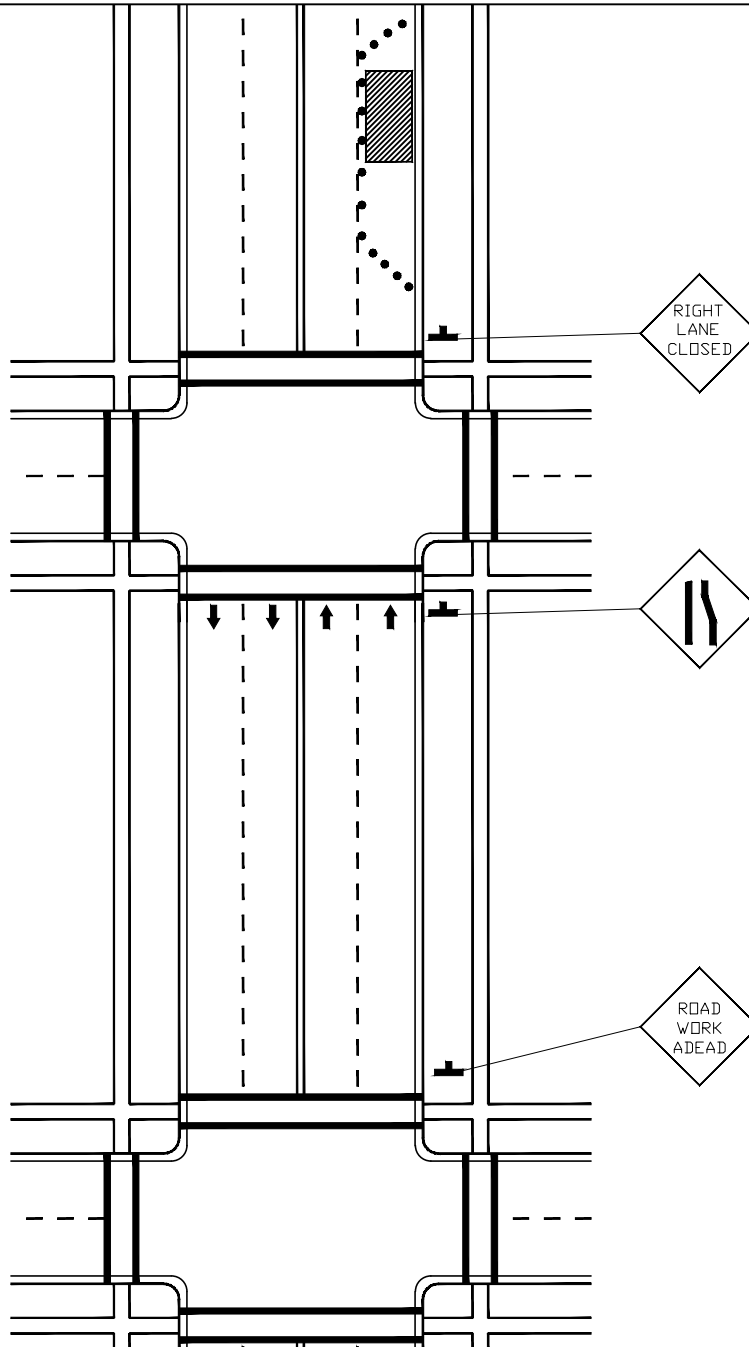
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



CBD
RIGHT LANE
CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

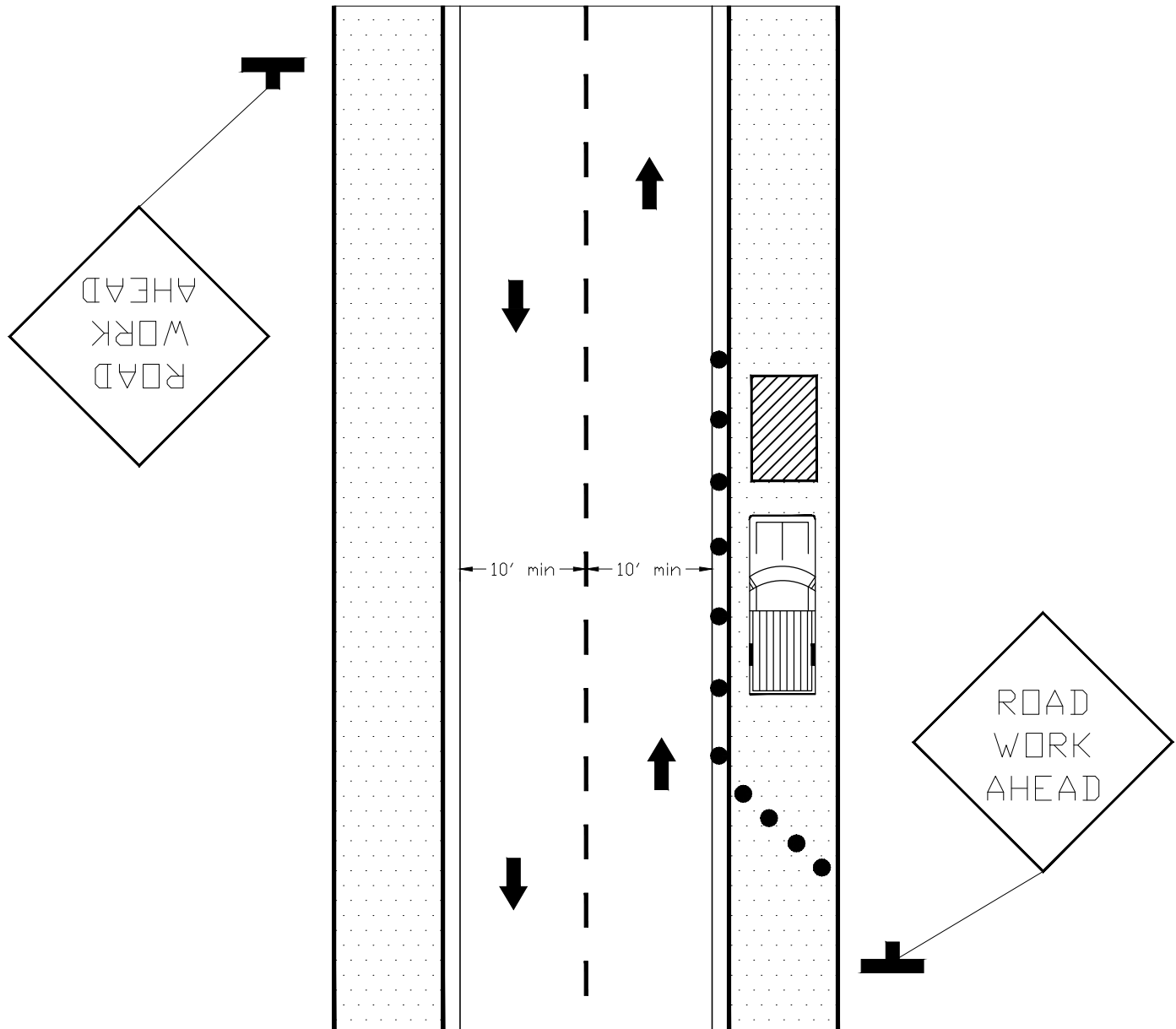
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SHOULDER WORK WITH MINOR ENCROACHMENT

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

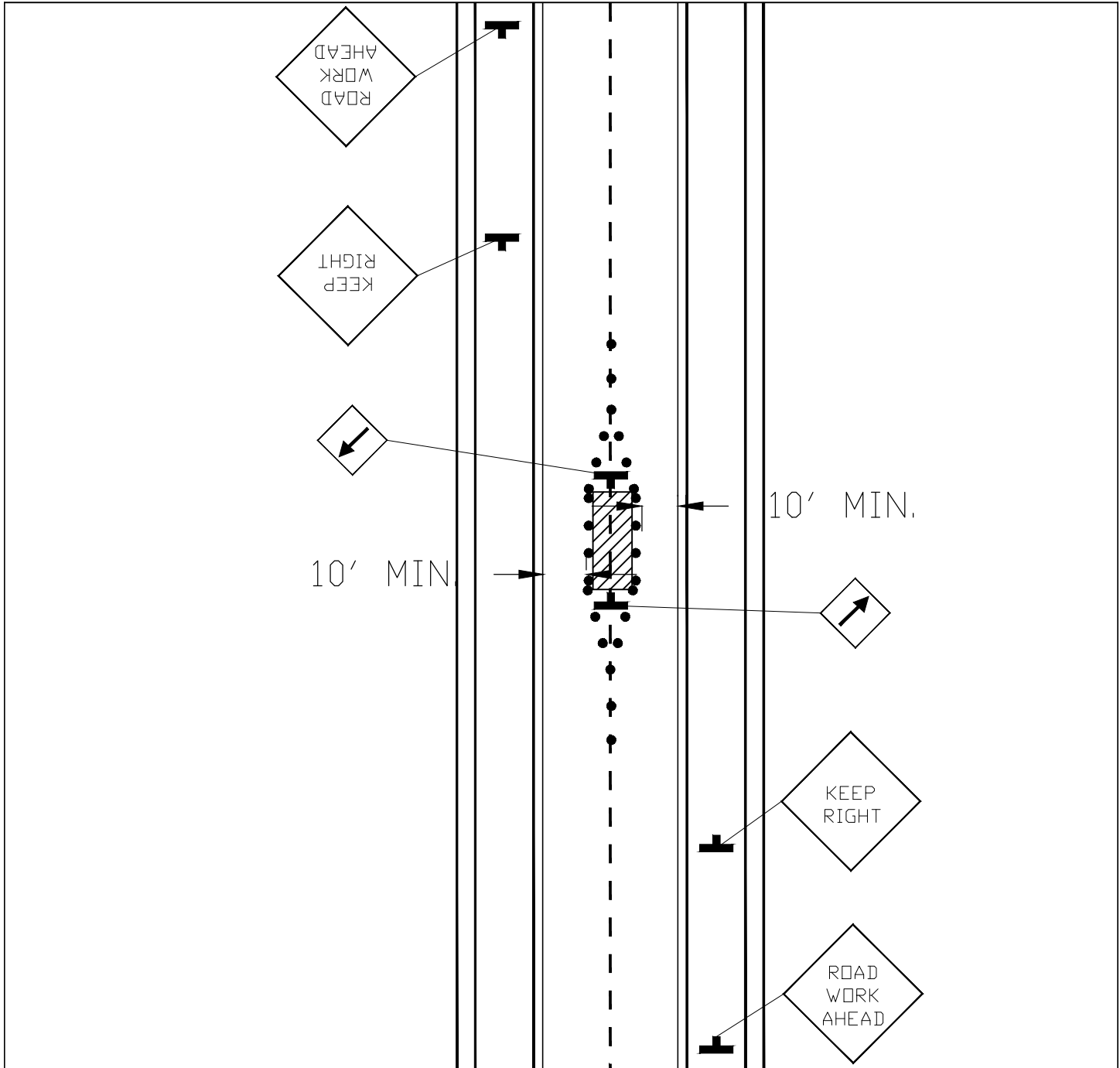
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TWO LANE CENTER CLOSURE

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

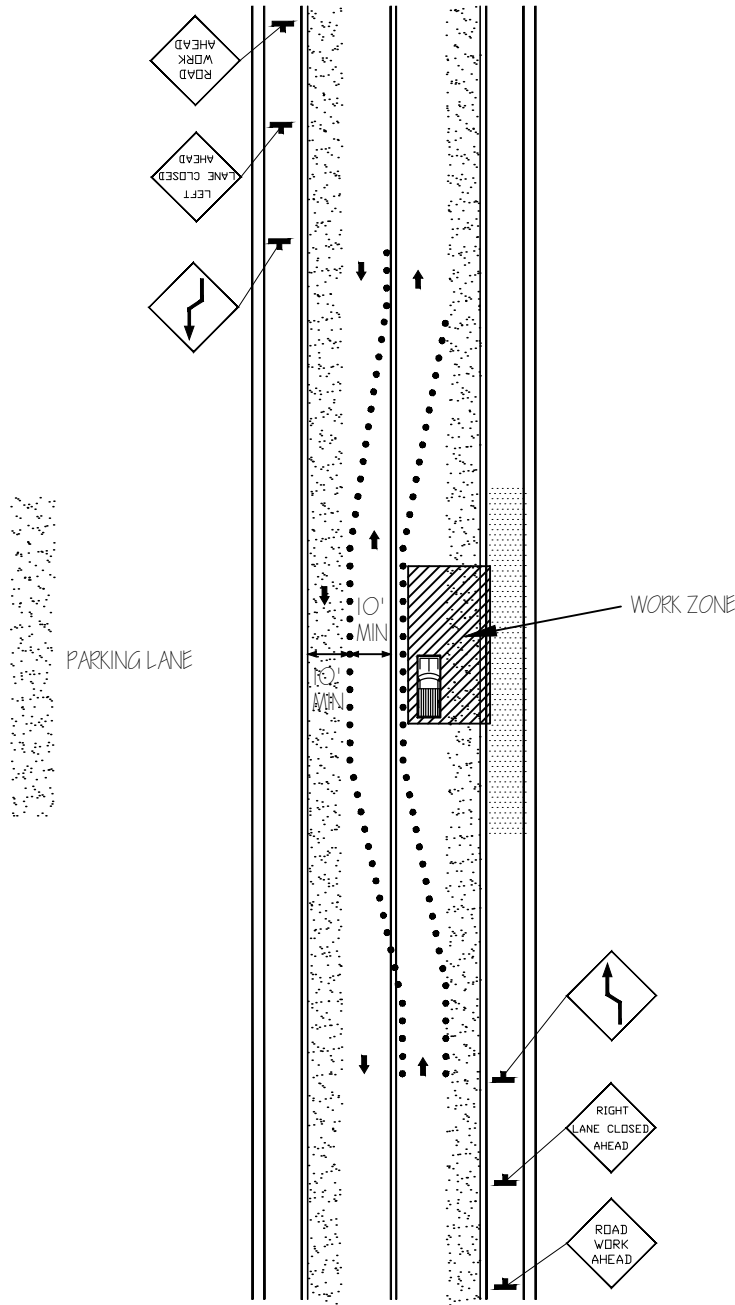
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TWO WAY LANE SHIFT WITH PARKING

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

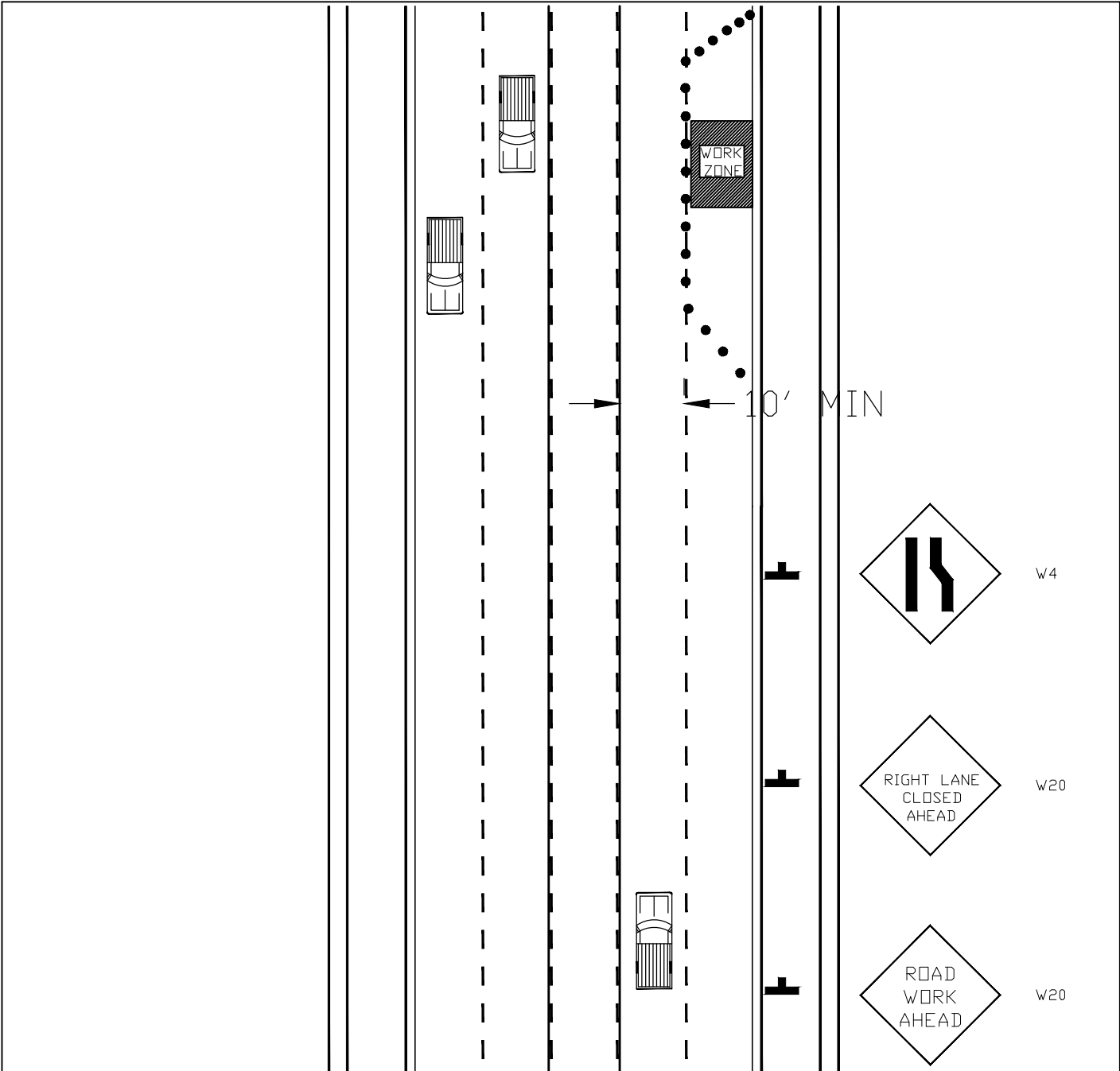
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



RIGHT LANE
CLOSURE

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

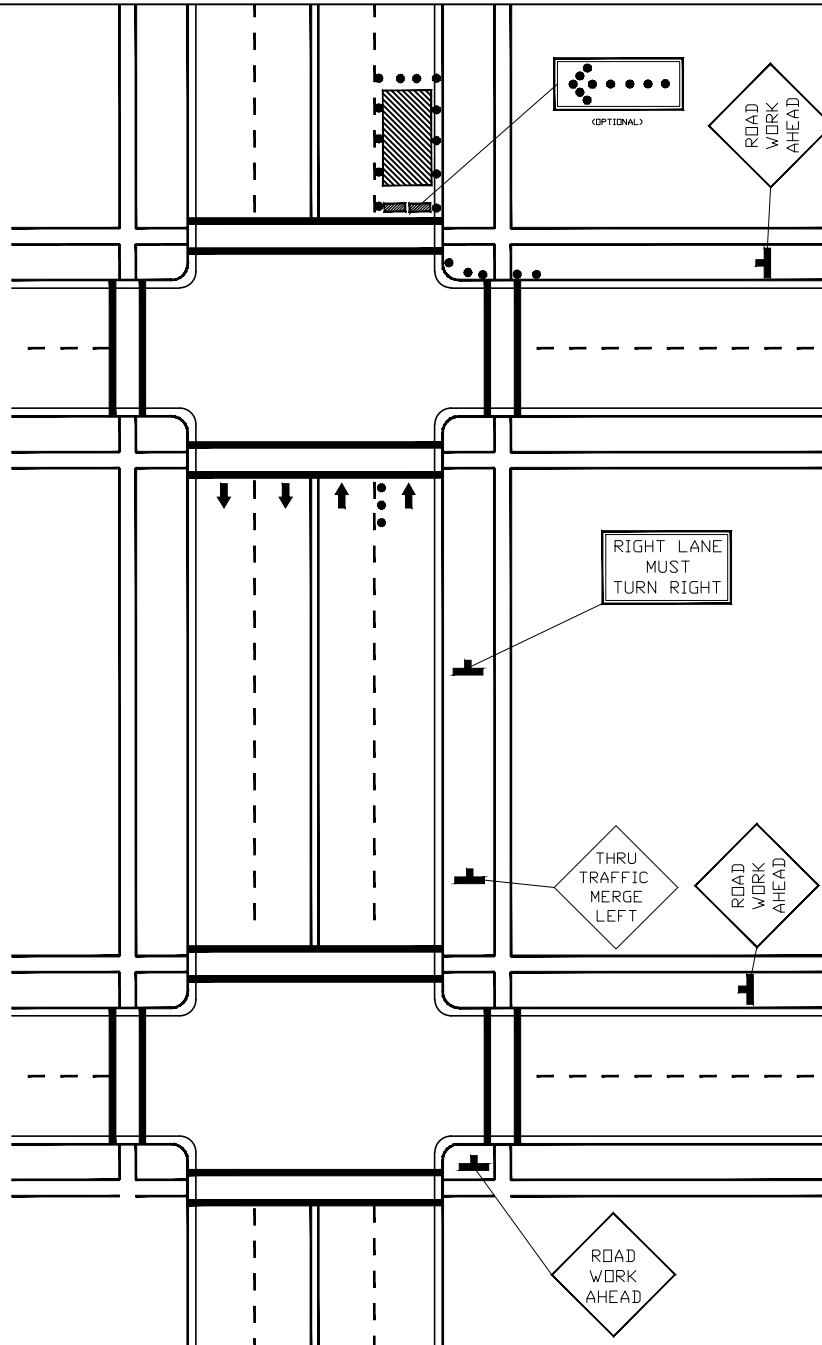
☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS
MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS
EVENING AND WEEKENDS ONLY
START TRAFFIC CONTROL SET UP DATE & TIME: _____
MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.
NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



RIGHT LANE CLOSURE AT INTERSECTION

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

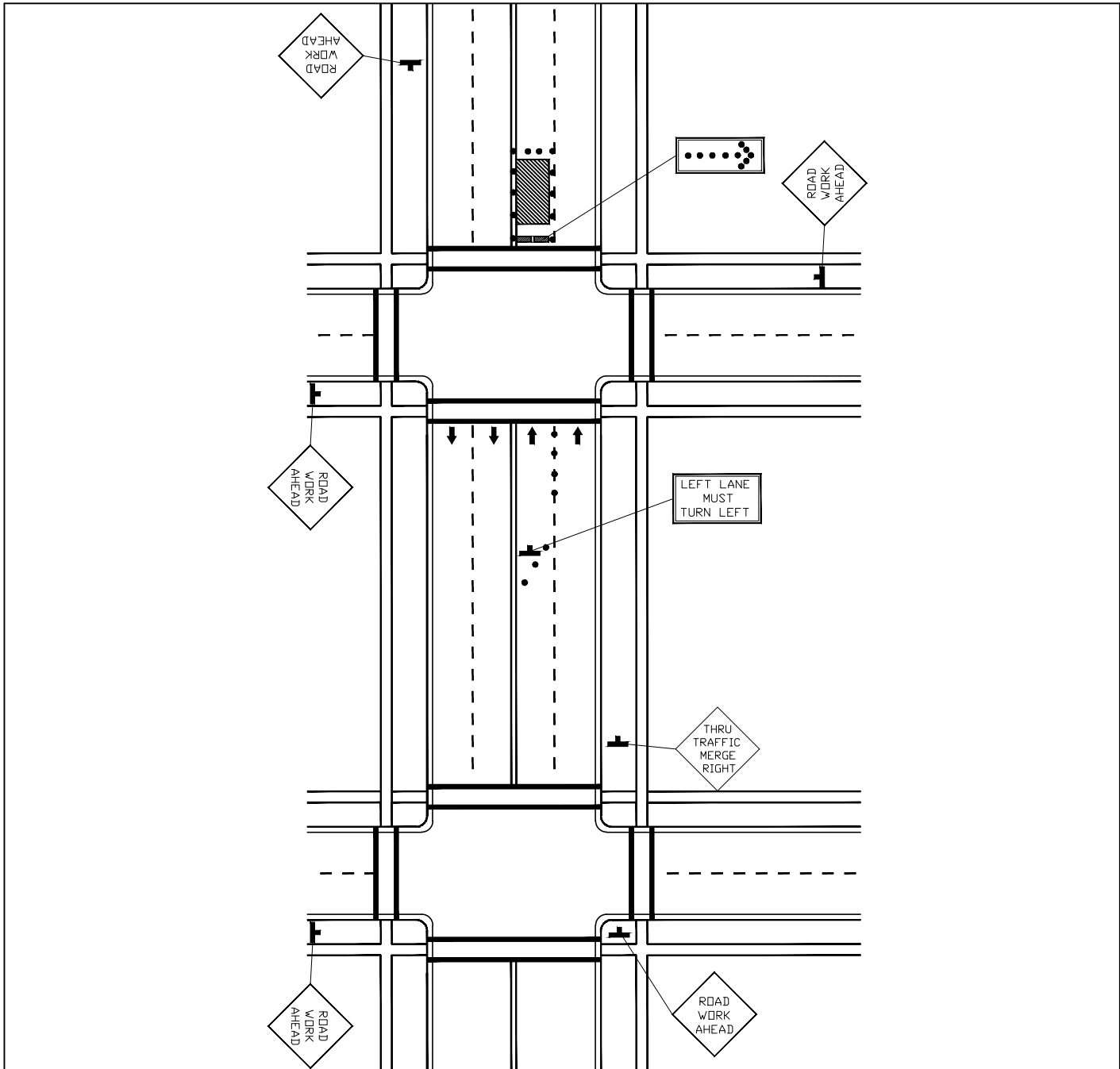
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



LEFT LANE CLOSURE AT INTERSECTION

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

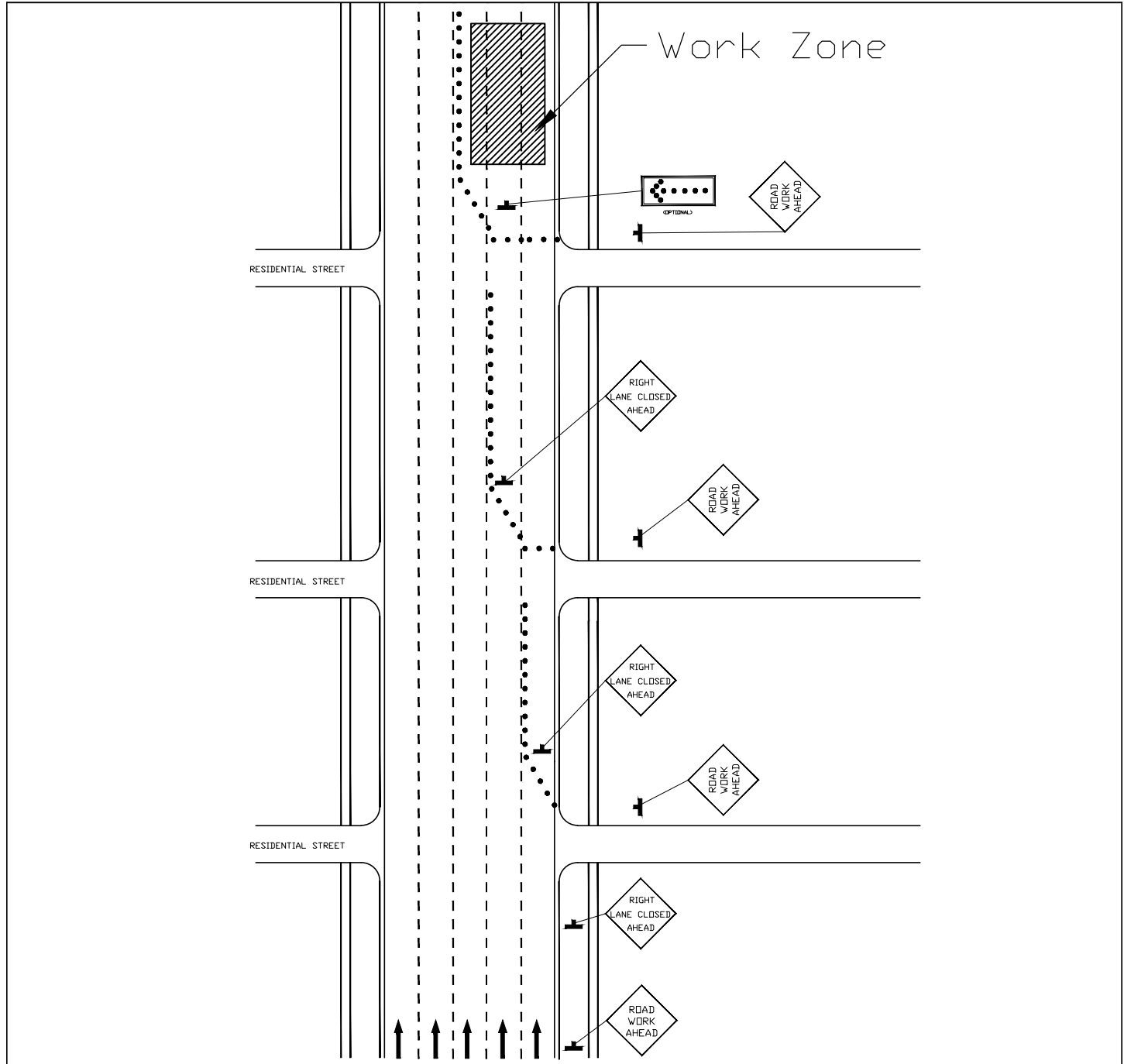
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



ONE WAY MULTI-LANE CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

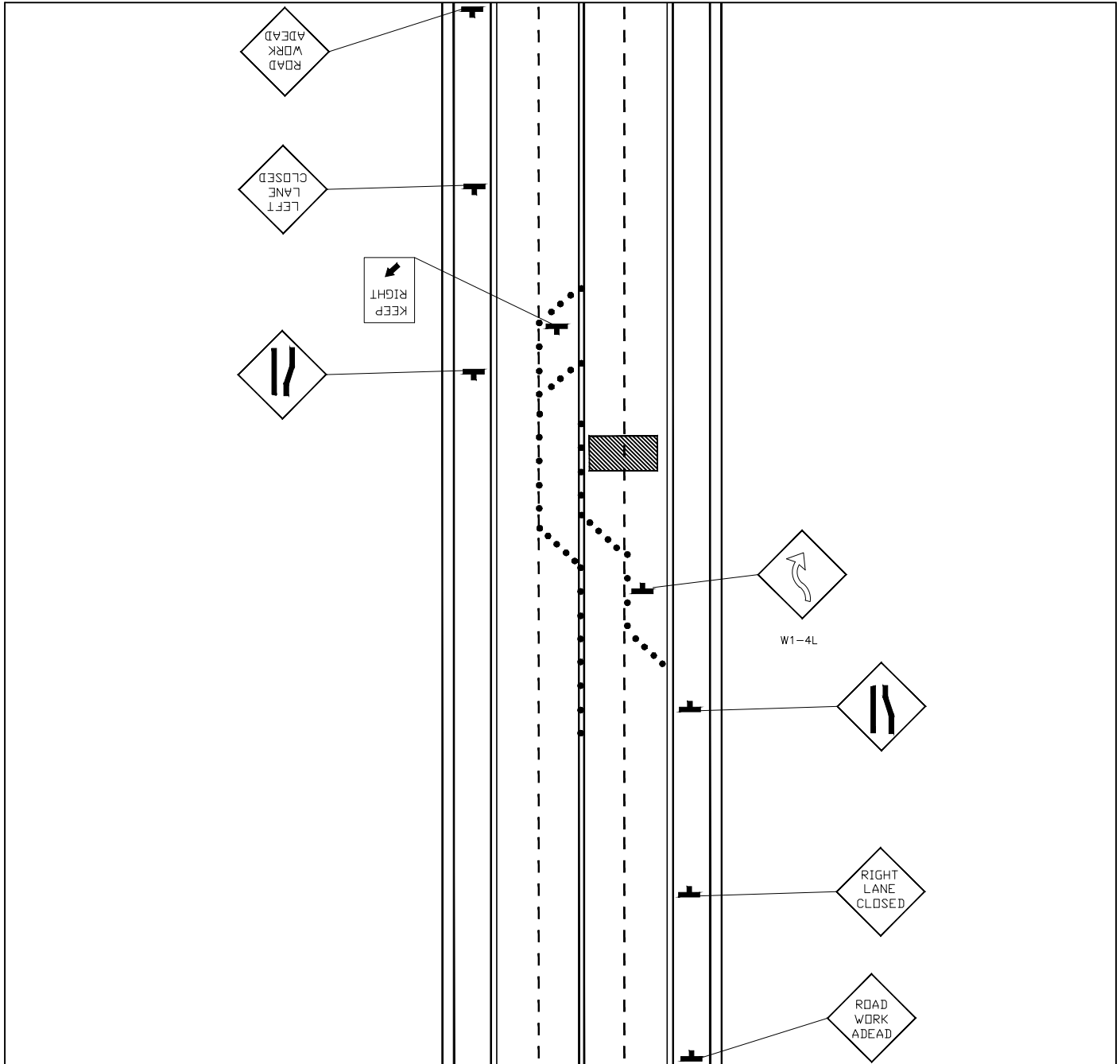
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)								
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



FOUR LANE ROAD
TWO LANE CLOSURE
ARTERIAL STREET

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)

Offset cones 1 foot maximum.

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

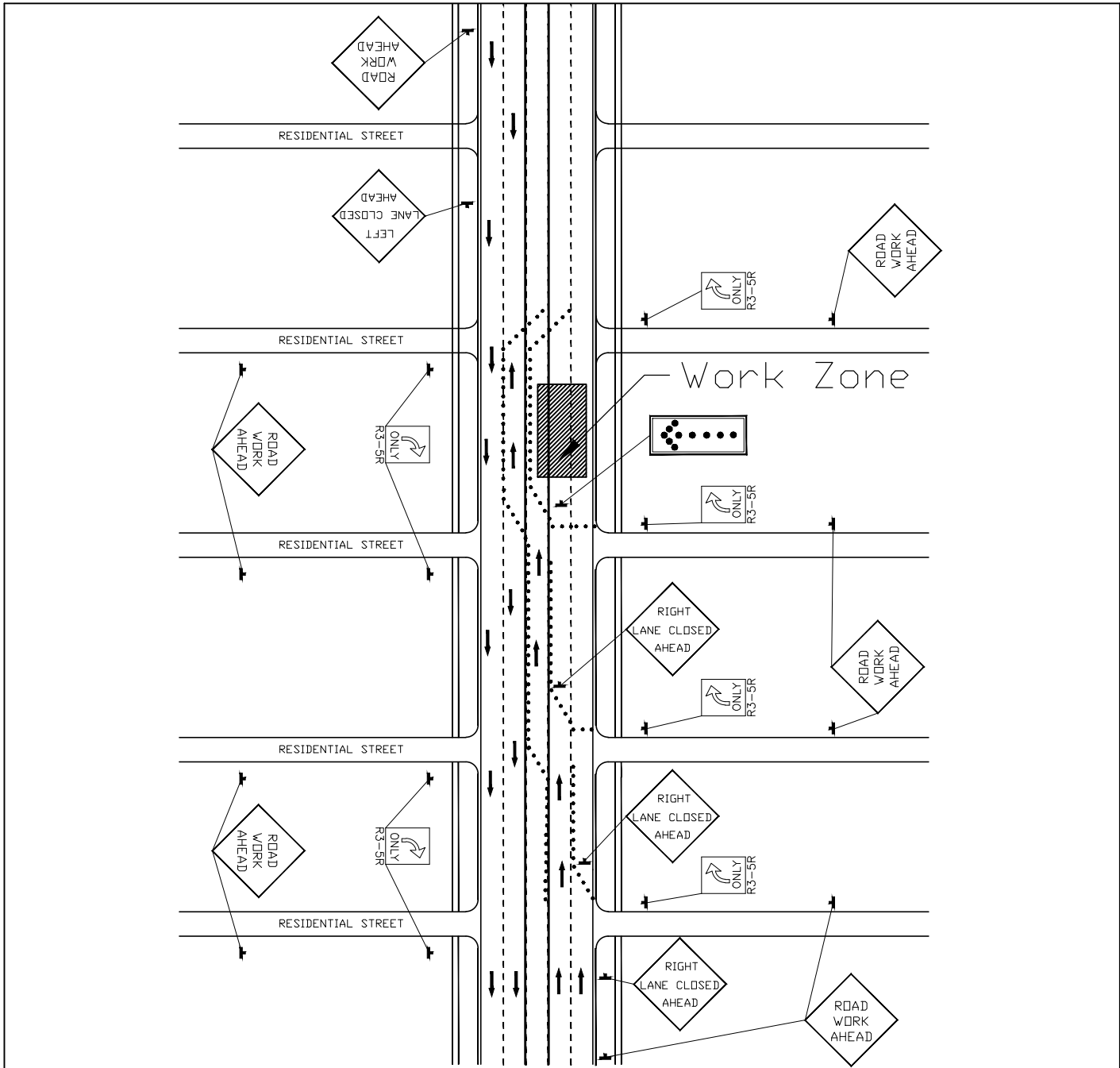
MUST BE OUT OF THE ROAD BY DATE & TIME: _____

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



FIVE LANE ROAD MULTI-LANE CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

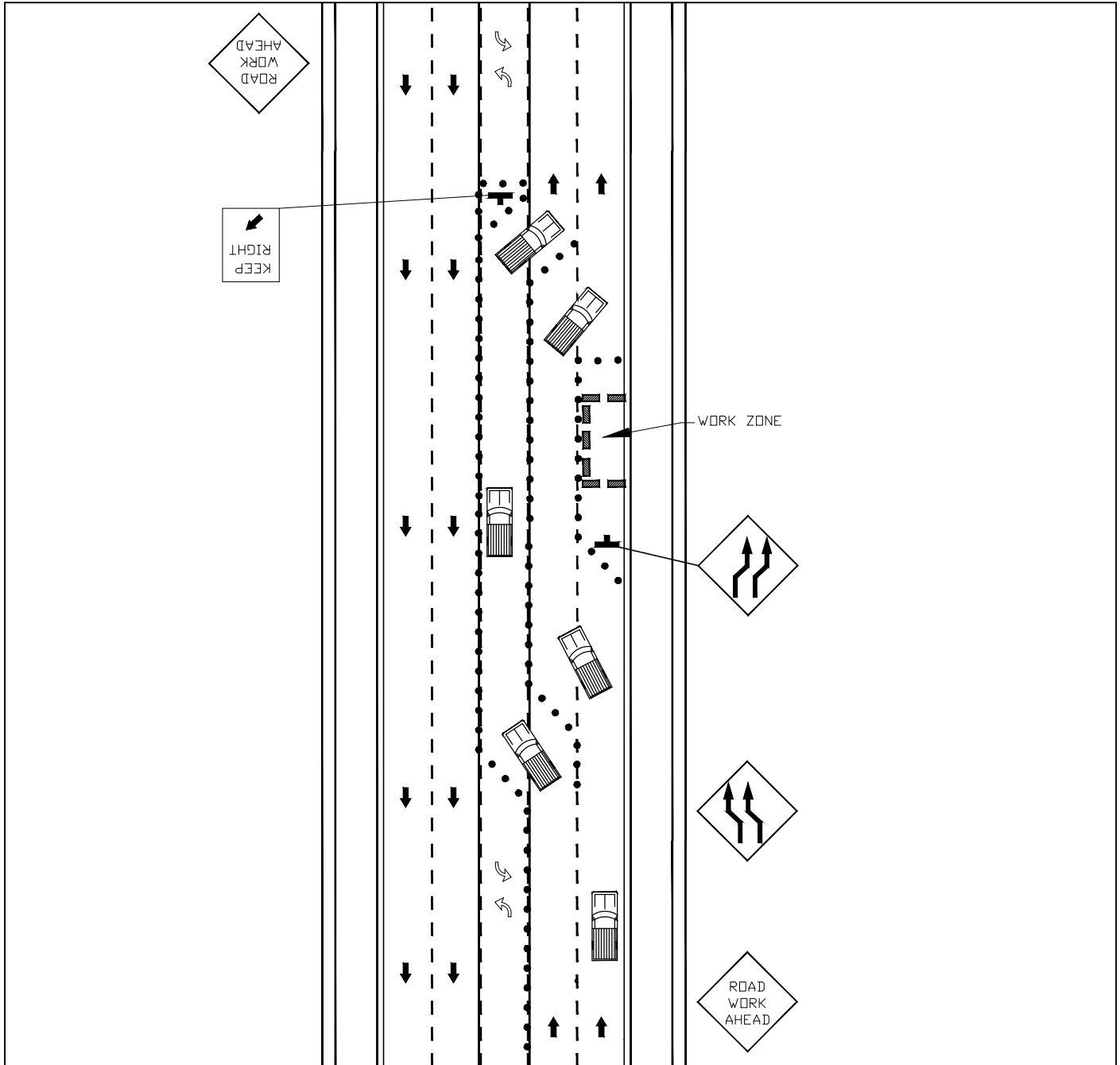
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL FOR 5 LANE SHIFTING

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

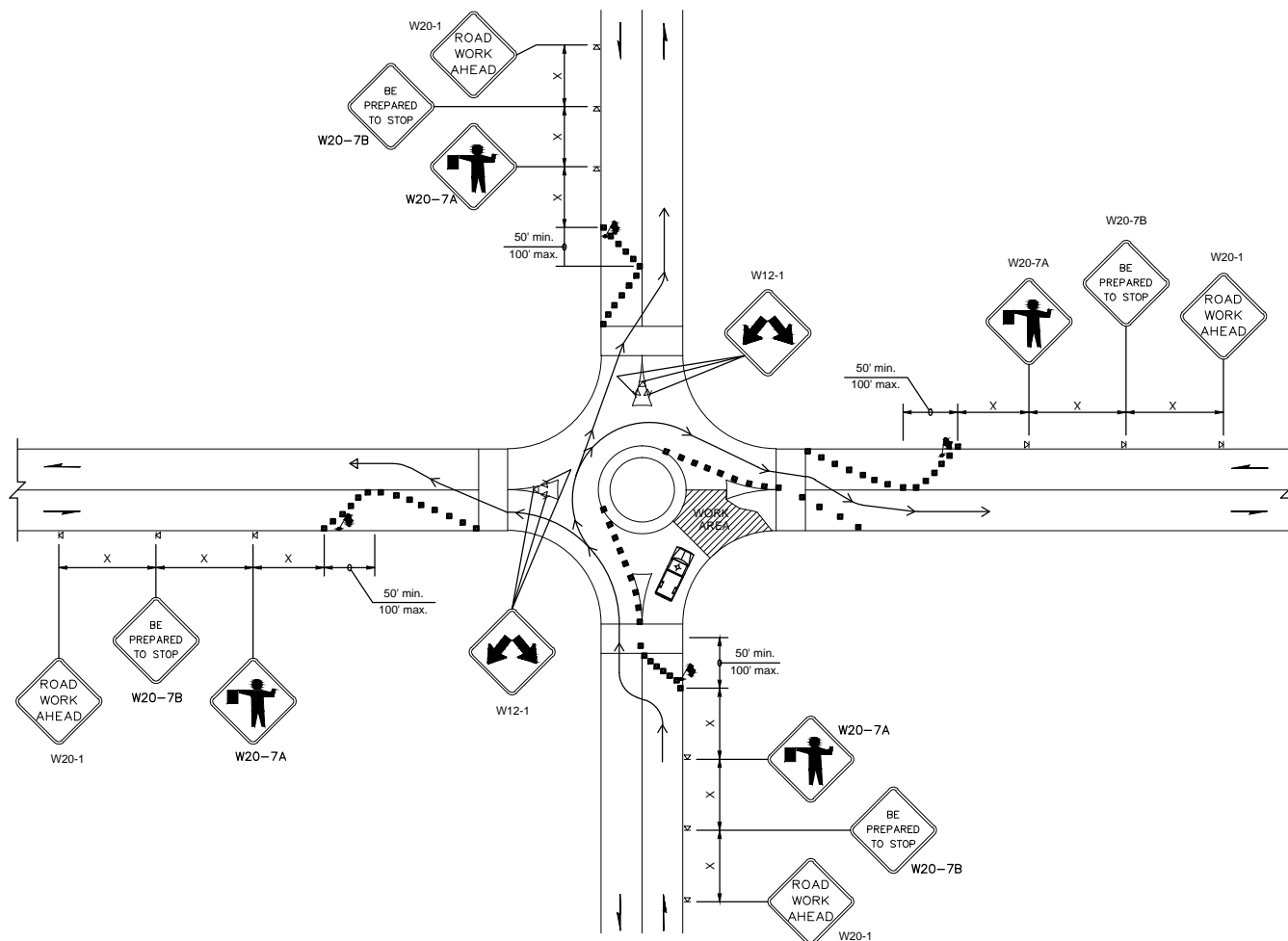
NUMBER OF CHANNELIZATION DEVICES (CONES)

Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



LEGEND

1. Night work requires additional roadway lighting at flagging stations, refer to WSDOT Standard Specifications for additional details
2. Protective vehicle recommended – may be a work vehicle.
3. Each roundabout location is unique and the traffic control must be developed to meet the specific conditions of the location and the work operation.
4. If the work and all work vehicles are off of the travel lanes and island apron, a single Road Work Ahead sign per approach is all that is required. Refer to additional guidance in the MUTCD manual for further information.
5. Consider an additional flagger in center island to assist traffic movement through roundabout or additional signing as appropriate.

LEGEND

- FLAGGING STATION
- SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE – RECOMMENDED
- VEHICLE TRAVEL PATH DURING A FLAGGING PHASE

TYPICAL ROUNDABOUT TRAFFIC CONTROL WITH FLAGGERS

☐ APPROVED BY: _____

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

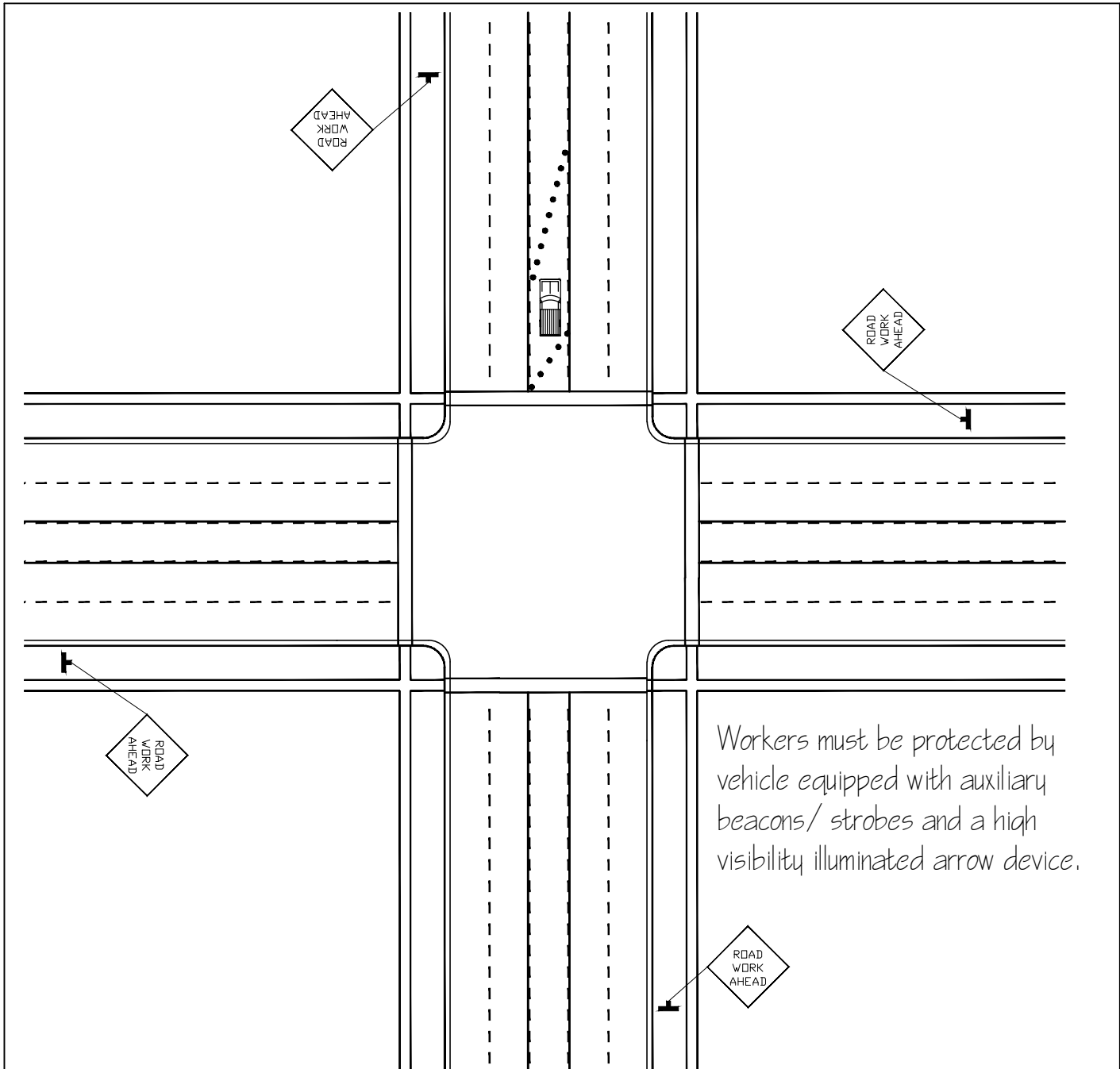
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



CENTER LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

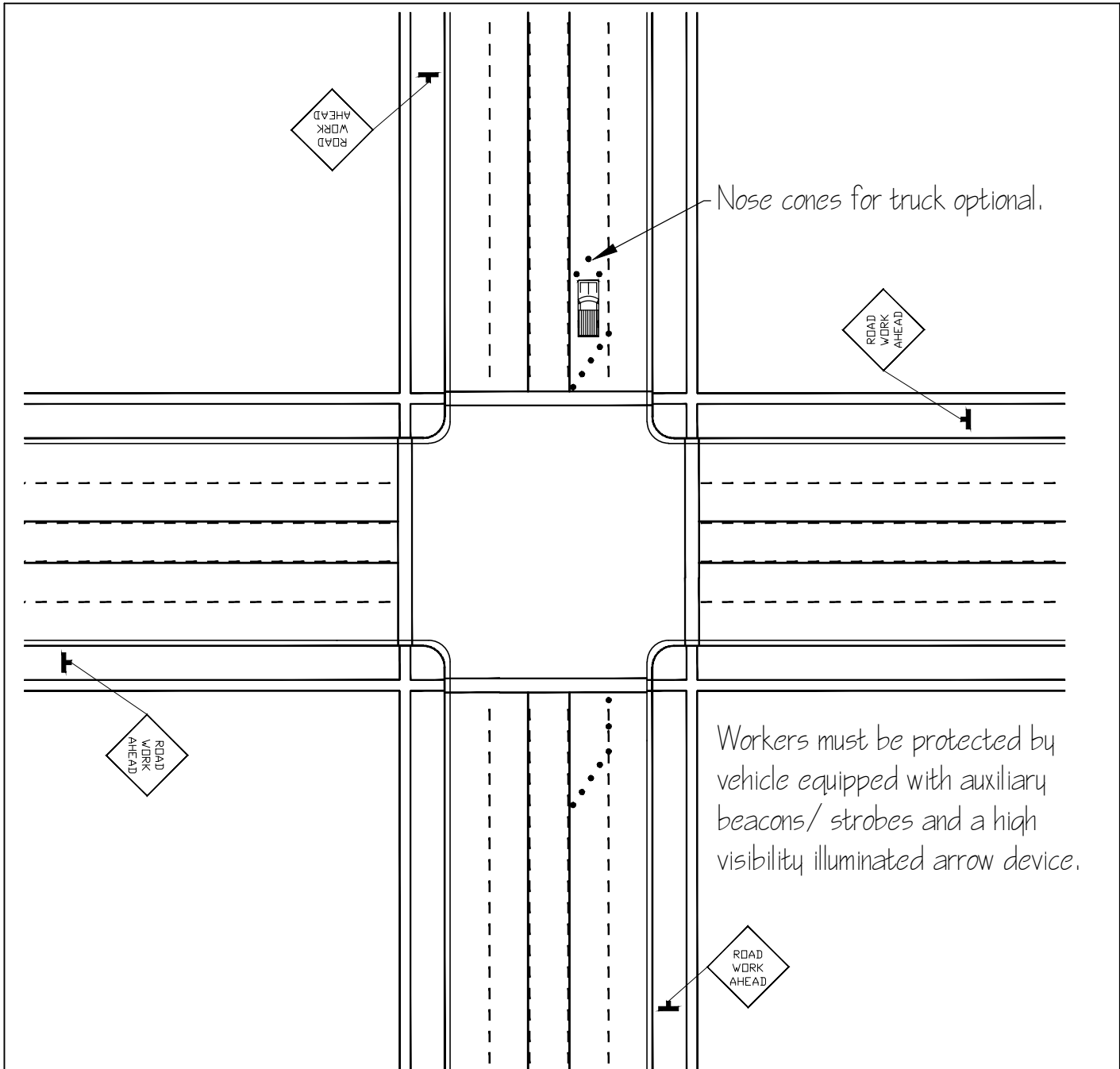
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



INSIDE LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

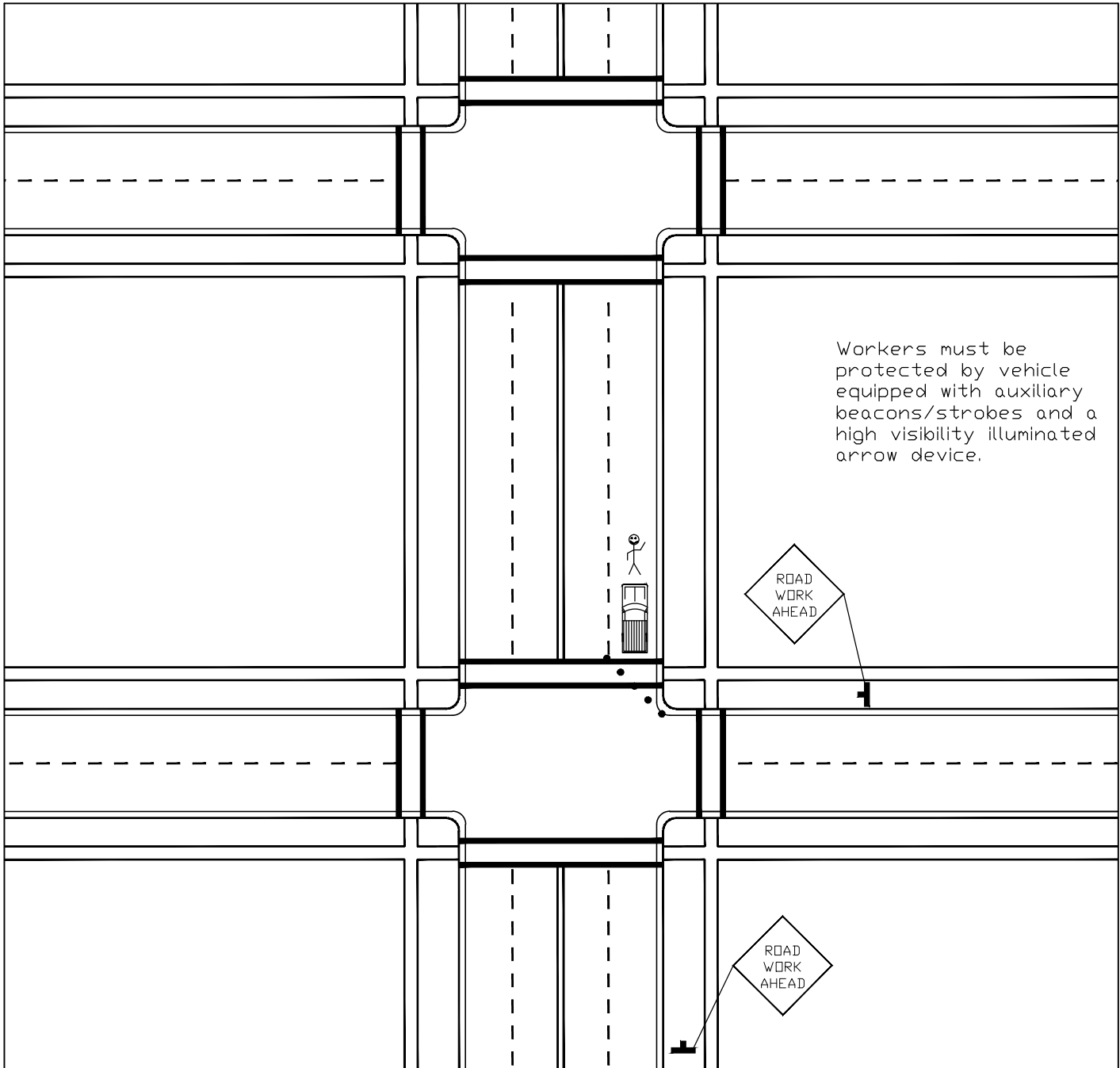
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
	NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

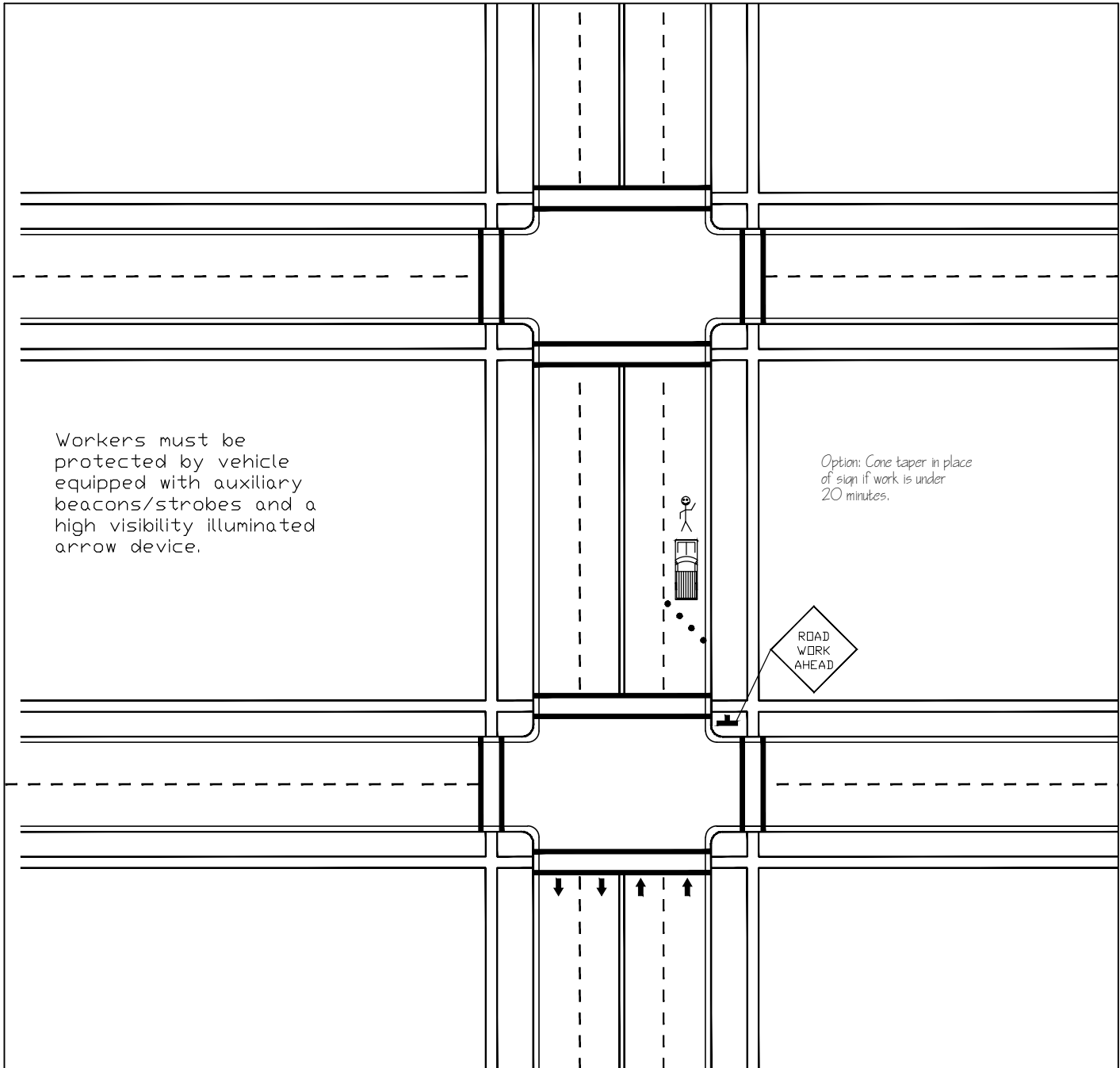
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



MID-BLOCK LANE CLOSURE UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

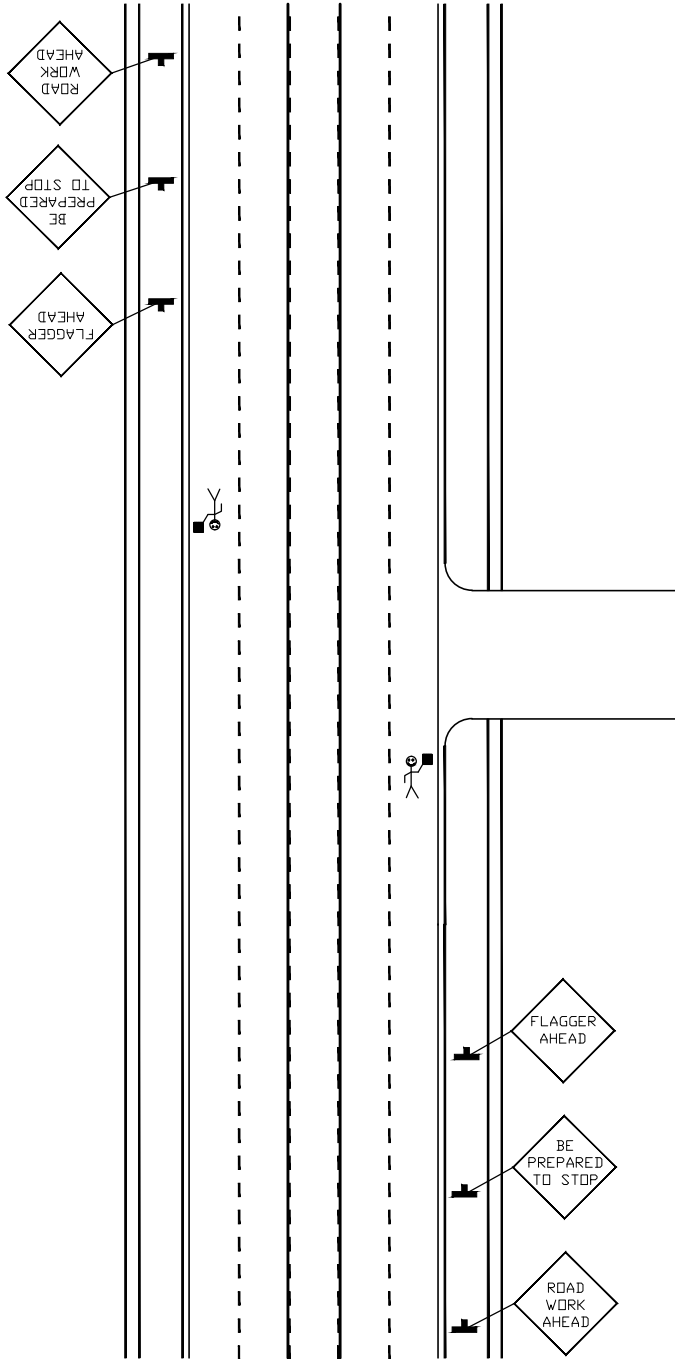
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS FOR TRUCK CROSSING

- ☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

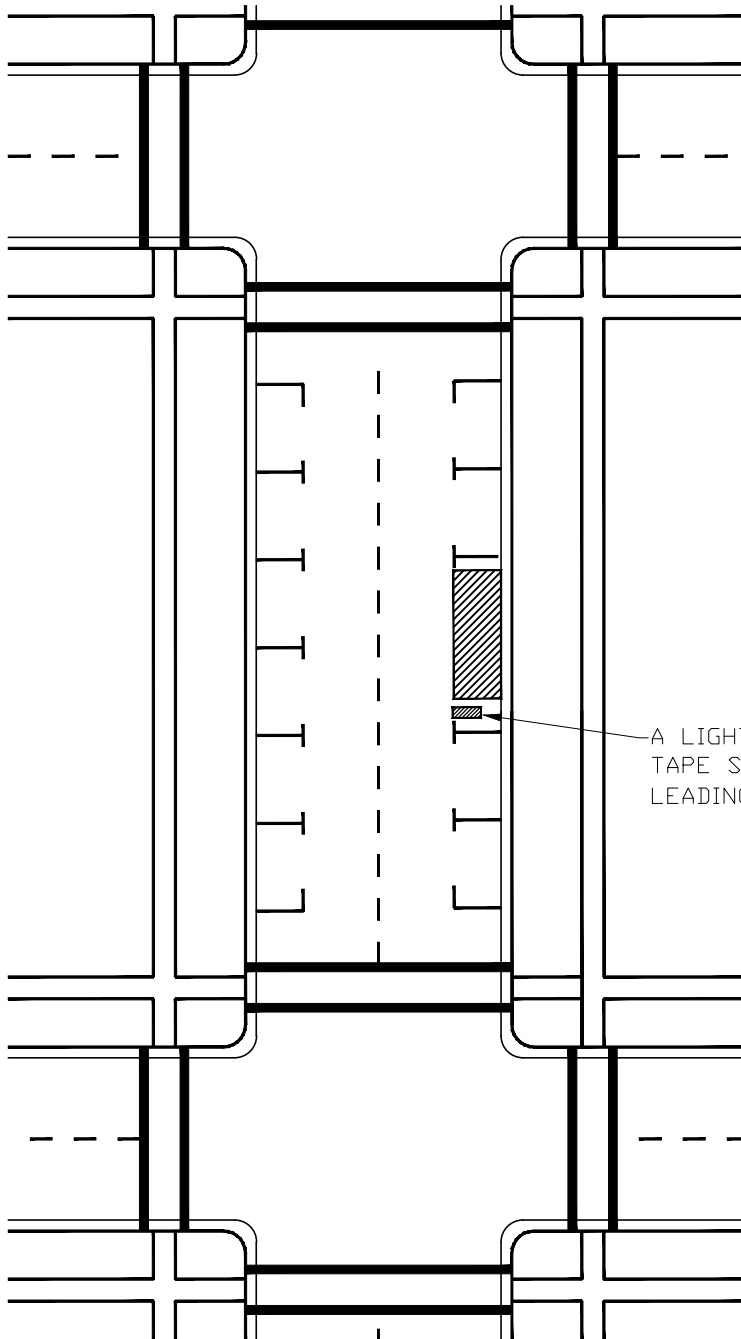
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



A LIGHTED BARRICADE OR REFLECTIVE TAPE SHALL BE INSTALLED ON THE LEADING EDGE OF THE DUMPSTER.

TRAFFIC CONTROL FOR A PORTABLE DUMPSTER

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

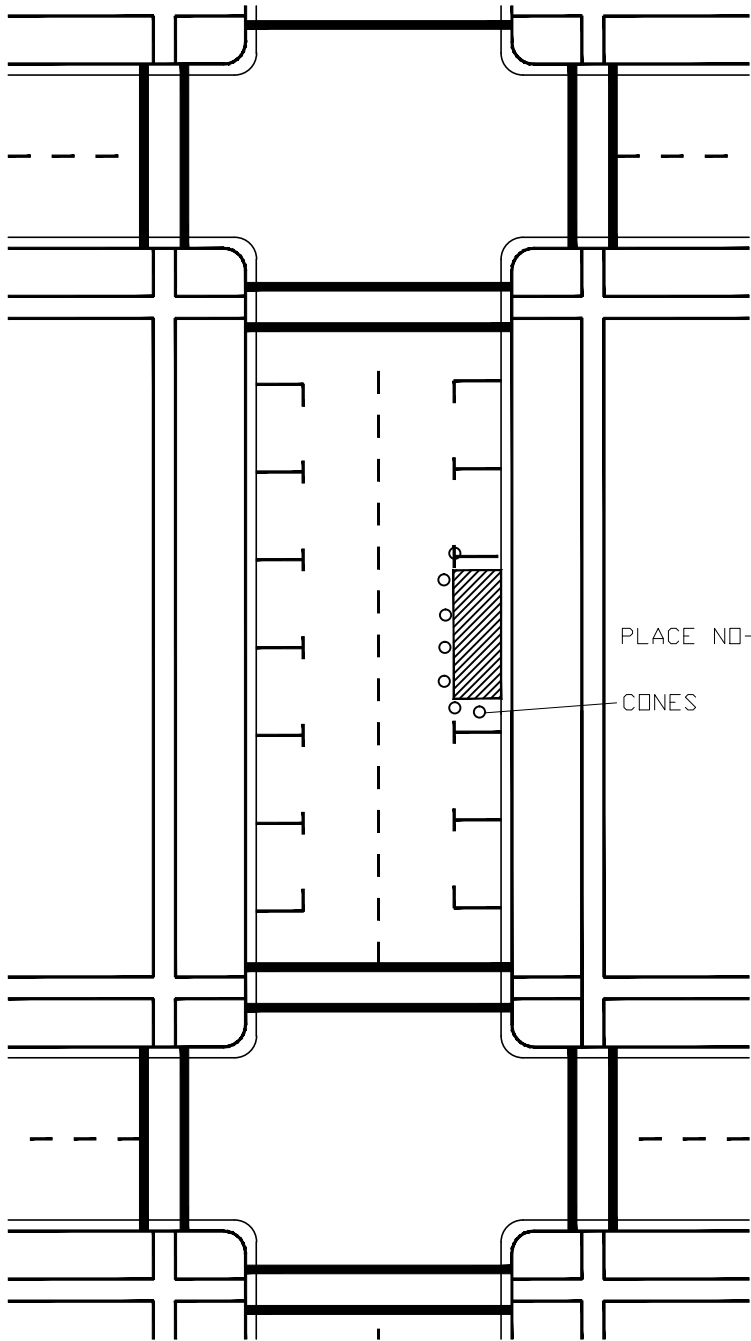
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



PLACE NO-PARK SIGNS 24HRS IN ADVANCE

CONES

TRAFFIC CONTROL FOR MOVING VAN

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.
 NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.
 NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

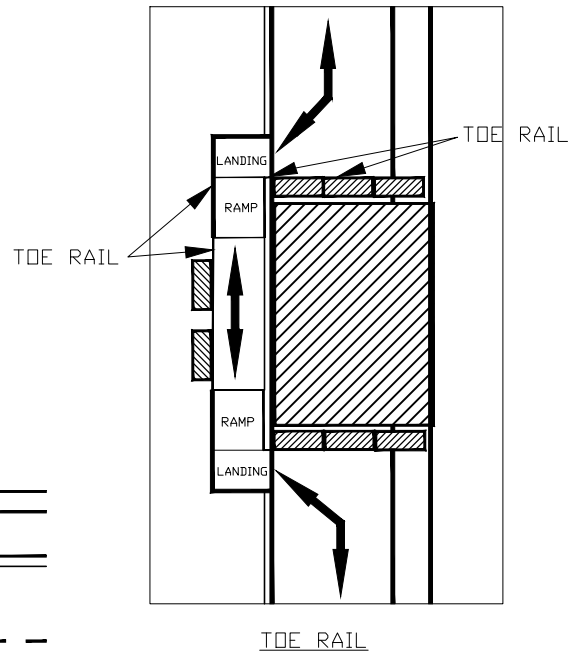
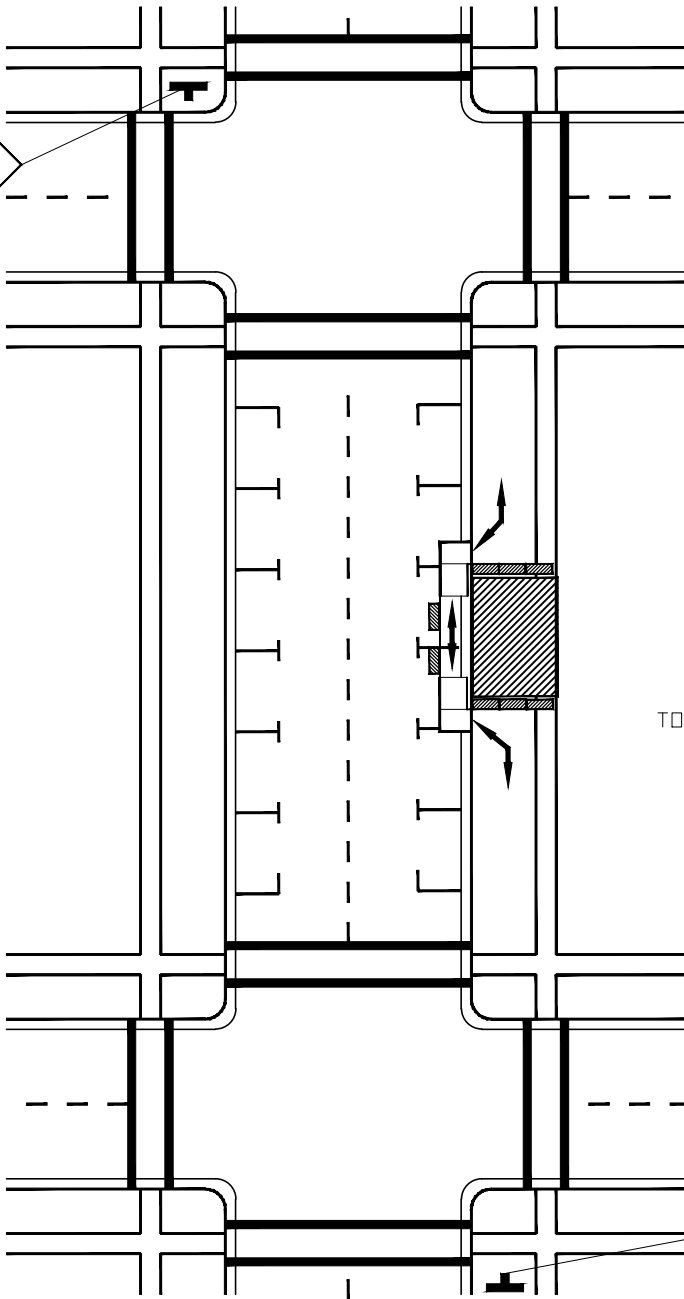
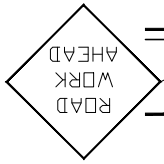
SAMPLE SETUP

NOTE:

PEDESTRIAN WALKWAYS SHALL BE A MINIMUM OF 5 FEET WIDE.

TOE RAIL ON RAMP ENTRANCE AND BARRICADE TOE RAIL SHALL HAVE NO GAPS AND BE PARALLEL.

SEE BYPASS RAMP DETAIL FOR PROPER CONSTRUCTION OF RAMP TO ALLOW FOR PEDESTRIAN AND DISABILITY ACCESS.



BYPASS
WALKWAY FOR
PEDESTRIANS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

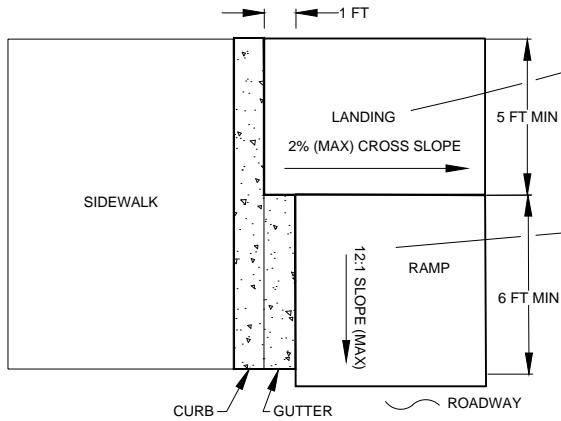
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP

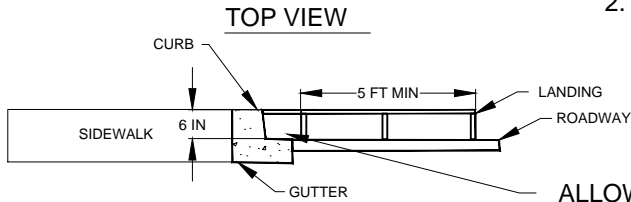


RAMP LANDING SHALL BE 1" X 5' X 5' (MIN) AND FLUSH WITH THE TOP OF THE CURB

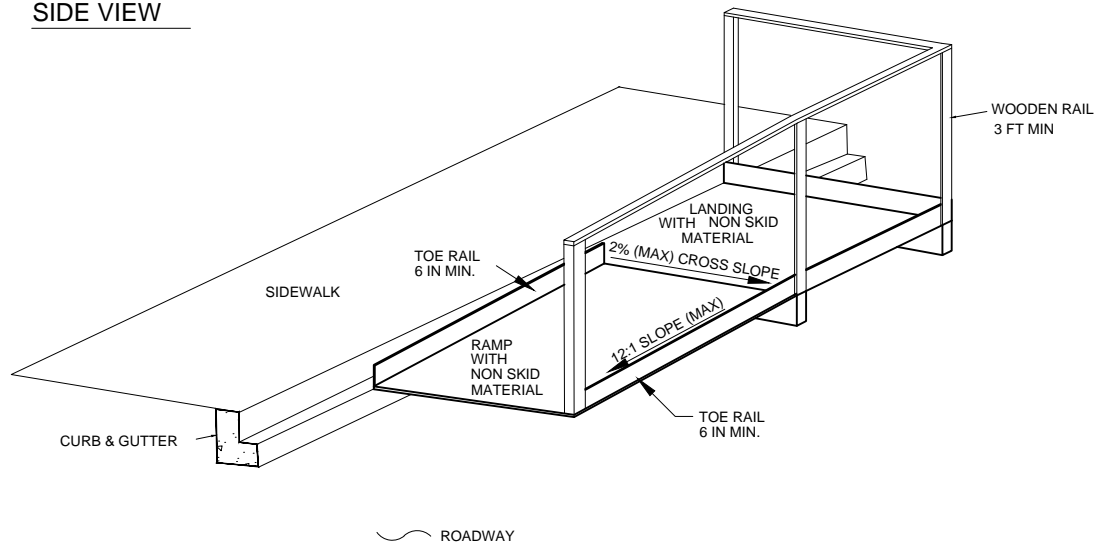
RAMP SHALL BE 1" X 5' X 6' (MIN) AND HAVE A 600 POUND LOAD CAPACITY MIN.

NOTES:

1. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
2. ADA ACCOMODATIONS MUST BE ADDRESSED AND CONSIDERED FOR ALL WORK OPERATIONS. EXISTING ADA FACILITIES MUST BE MAINTAINED.



ALLOW FOR STORM DRAINAGE IN GUTTER LINE



PEDESTRIAN BYPASS RAMPS FOR TEMPORARY TRAFFIC CONTROL MINIMUM STANDARDS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)

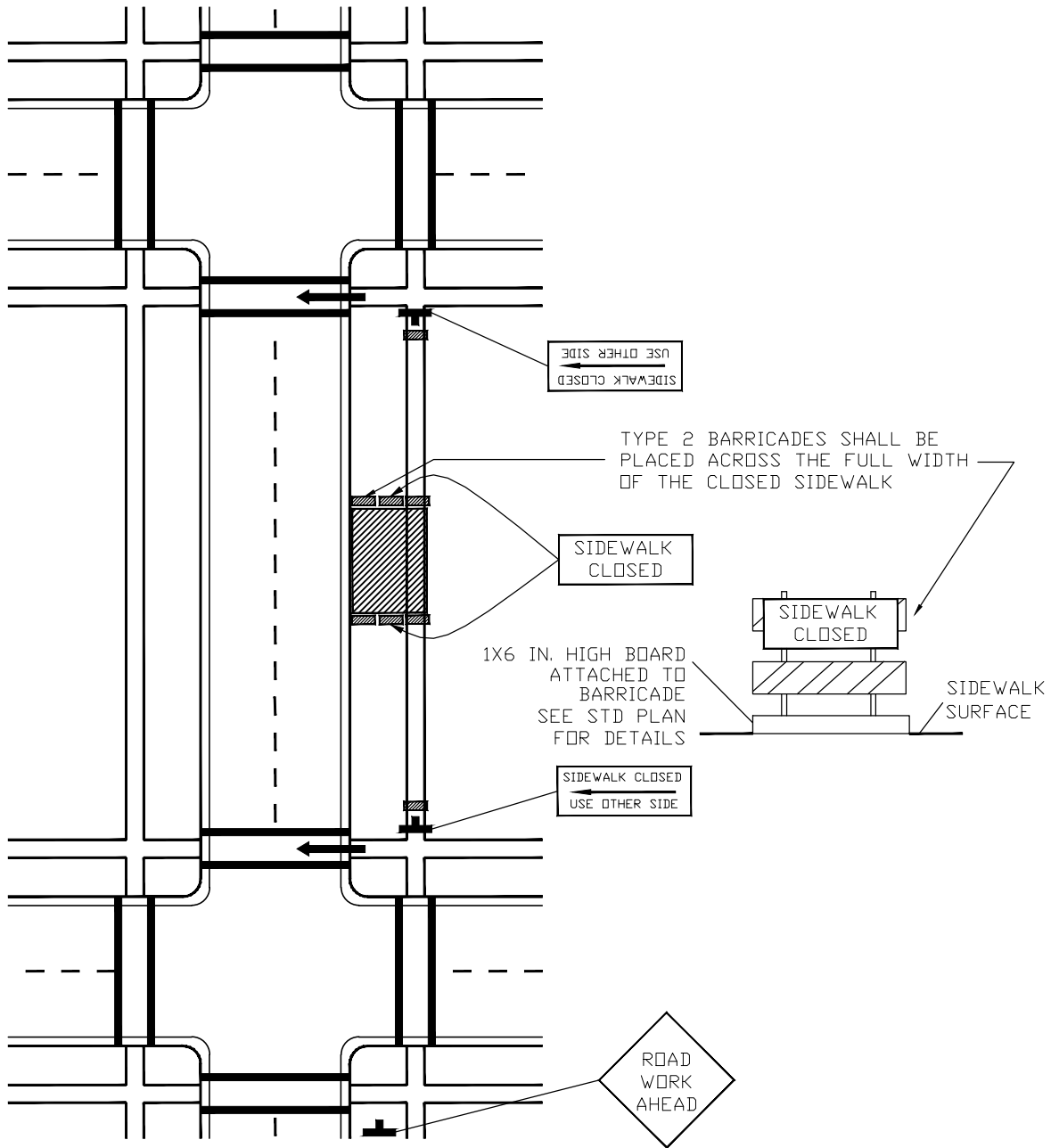
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SIDEWALK
CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

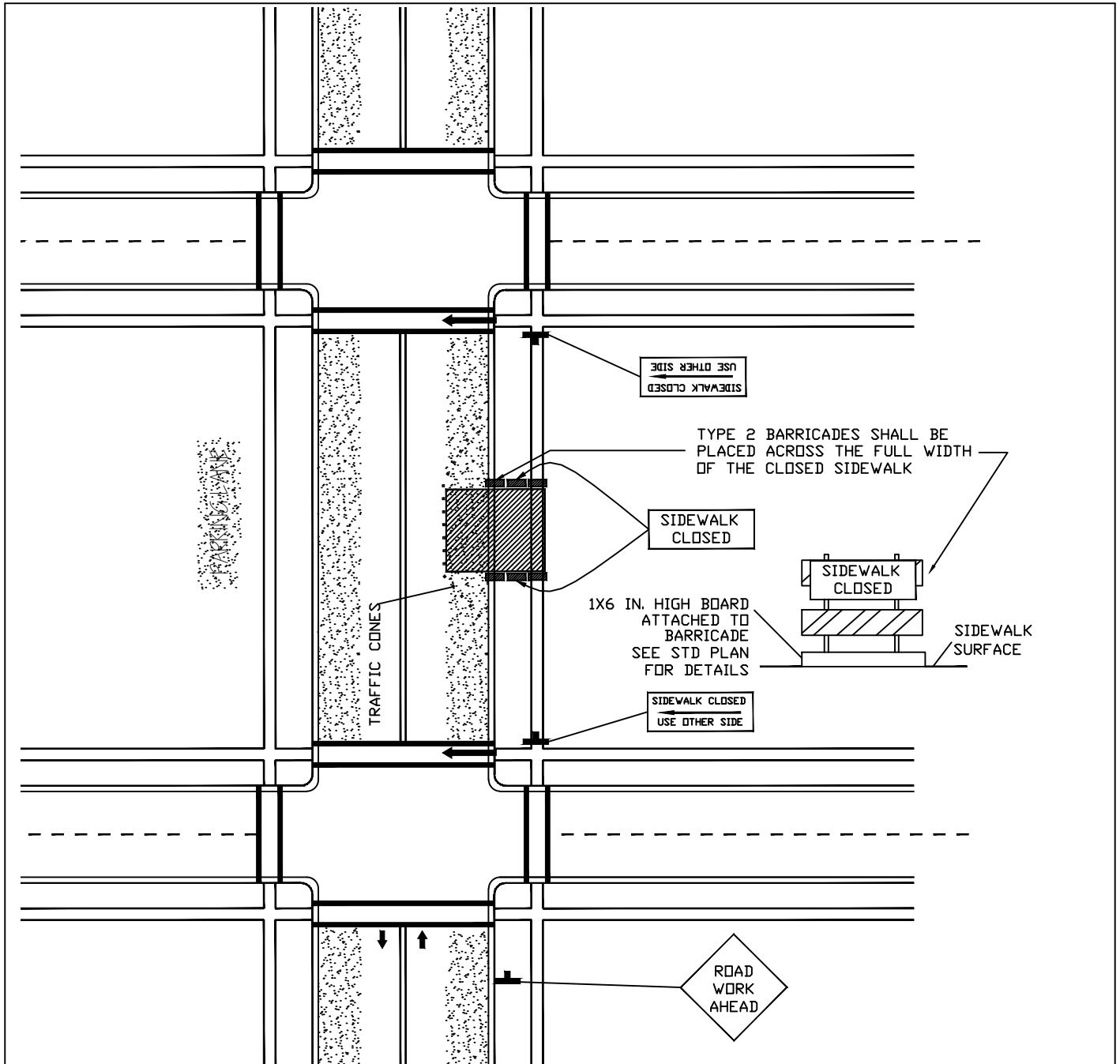
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SIDEWALK / PARKING CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

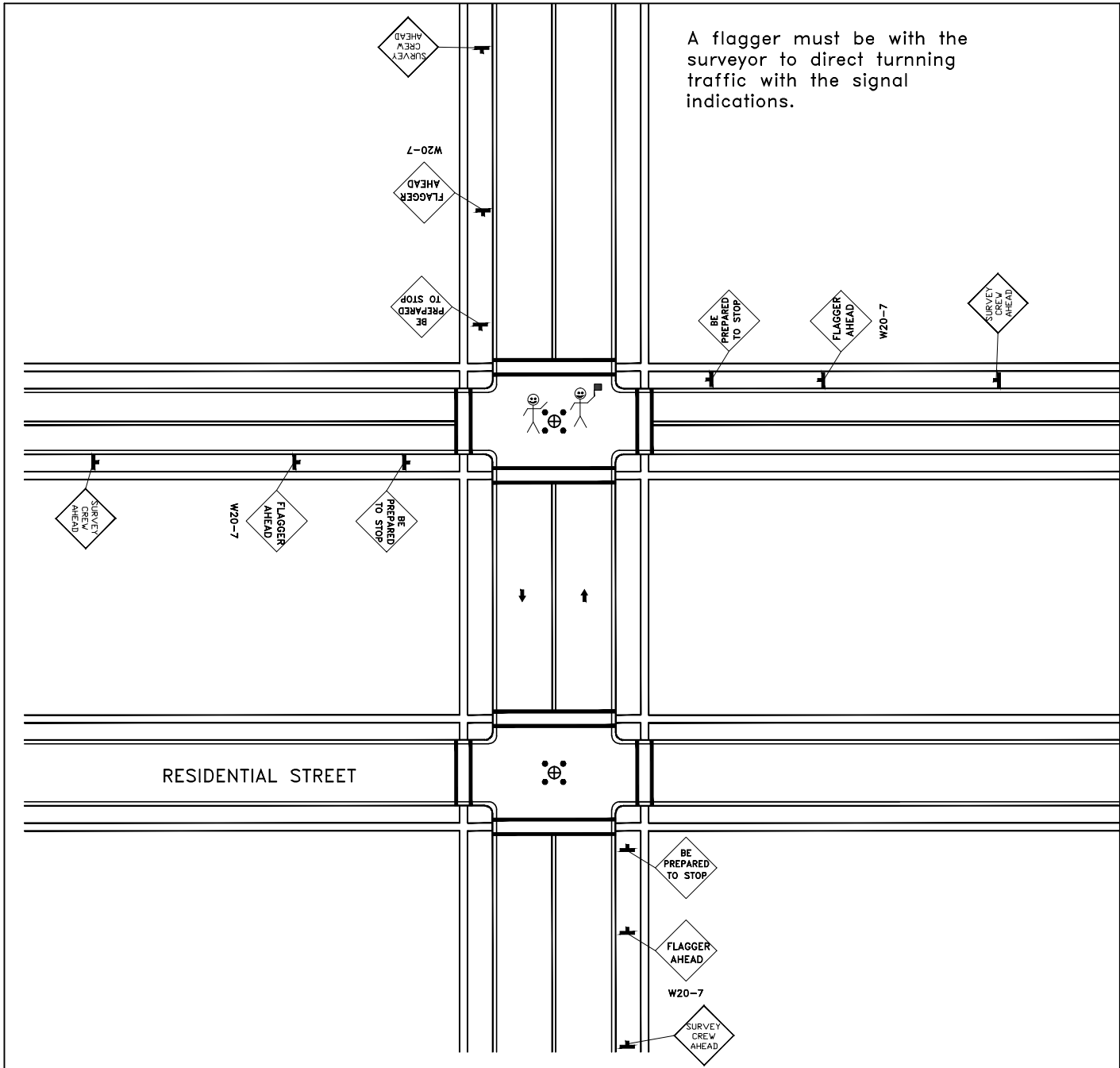
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



RESIDENTIAL STREET

SURVEY TWO LANE ARTERIAL INTERSECTION

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)

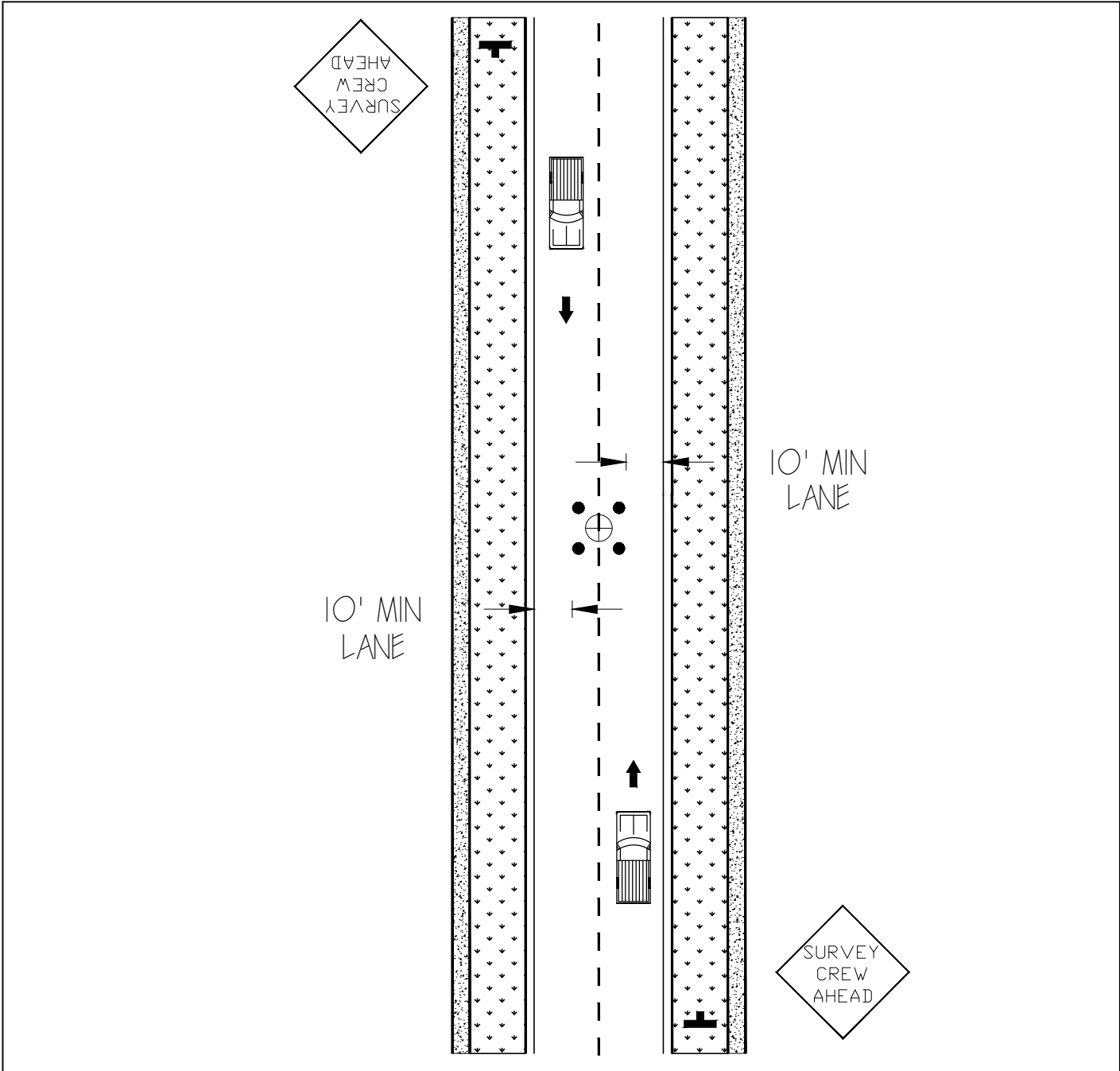
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SURVEY
TWO LANE ARTERIAL
MID-BLOCK

☐ APPROVED BY: _____

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)

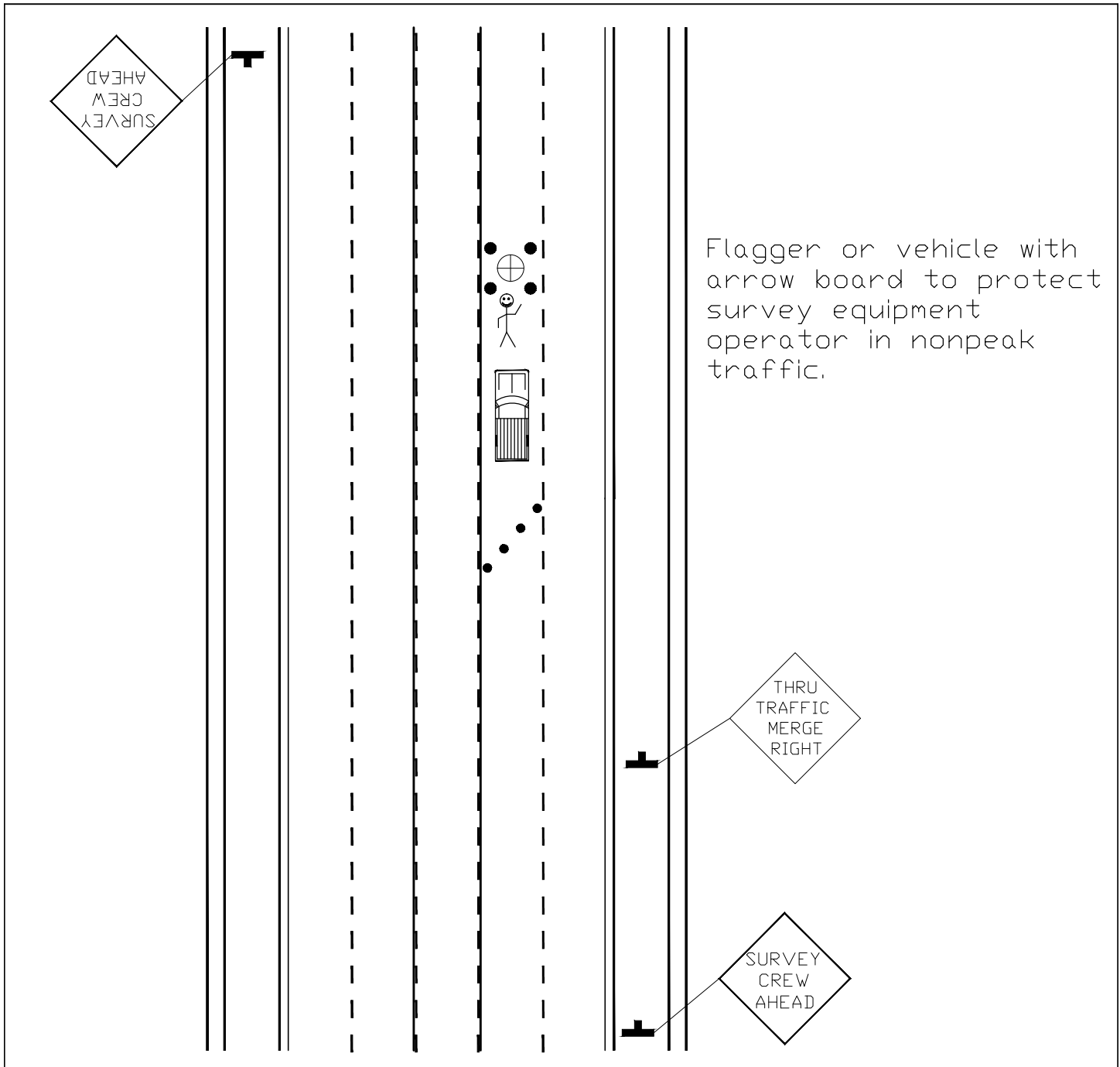
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SURVEY
MULTI-LANE
ARTERIAL

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

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SAMPLE SETUP

TRAFFIC CONTROL
RECOMMENDATIONS

☐ APPROVED BY:

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

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MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

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MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

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LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
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[illegible]

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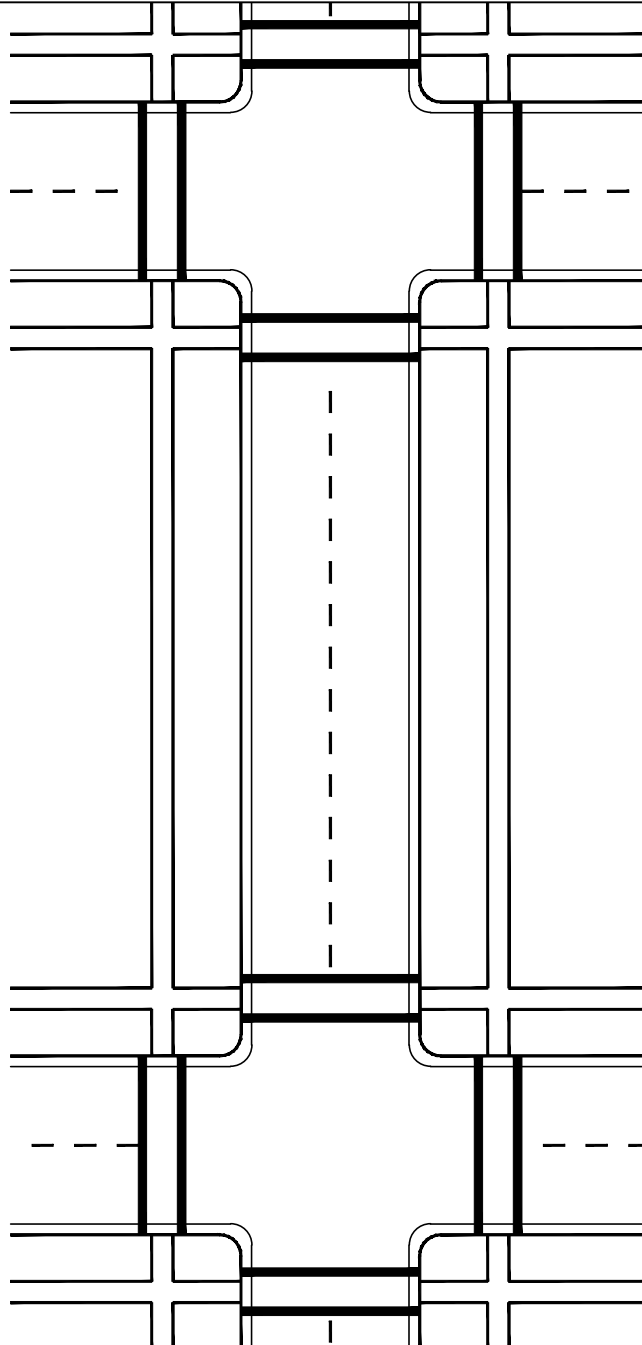
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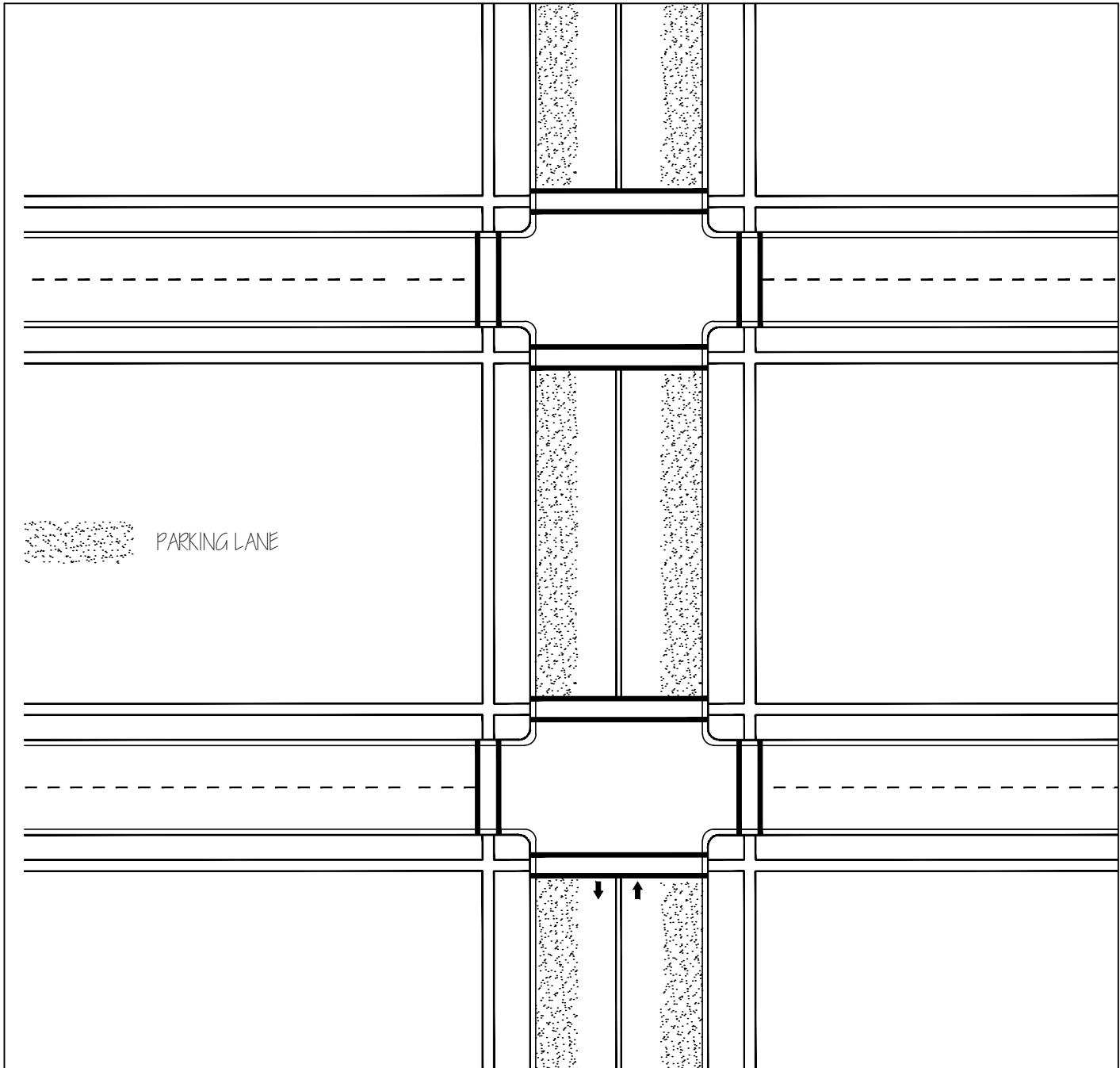
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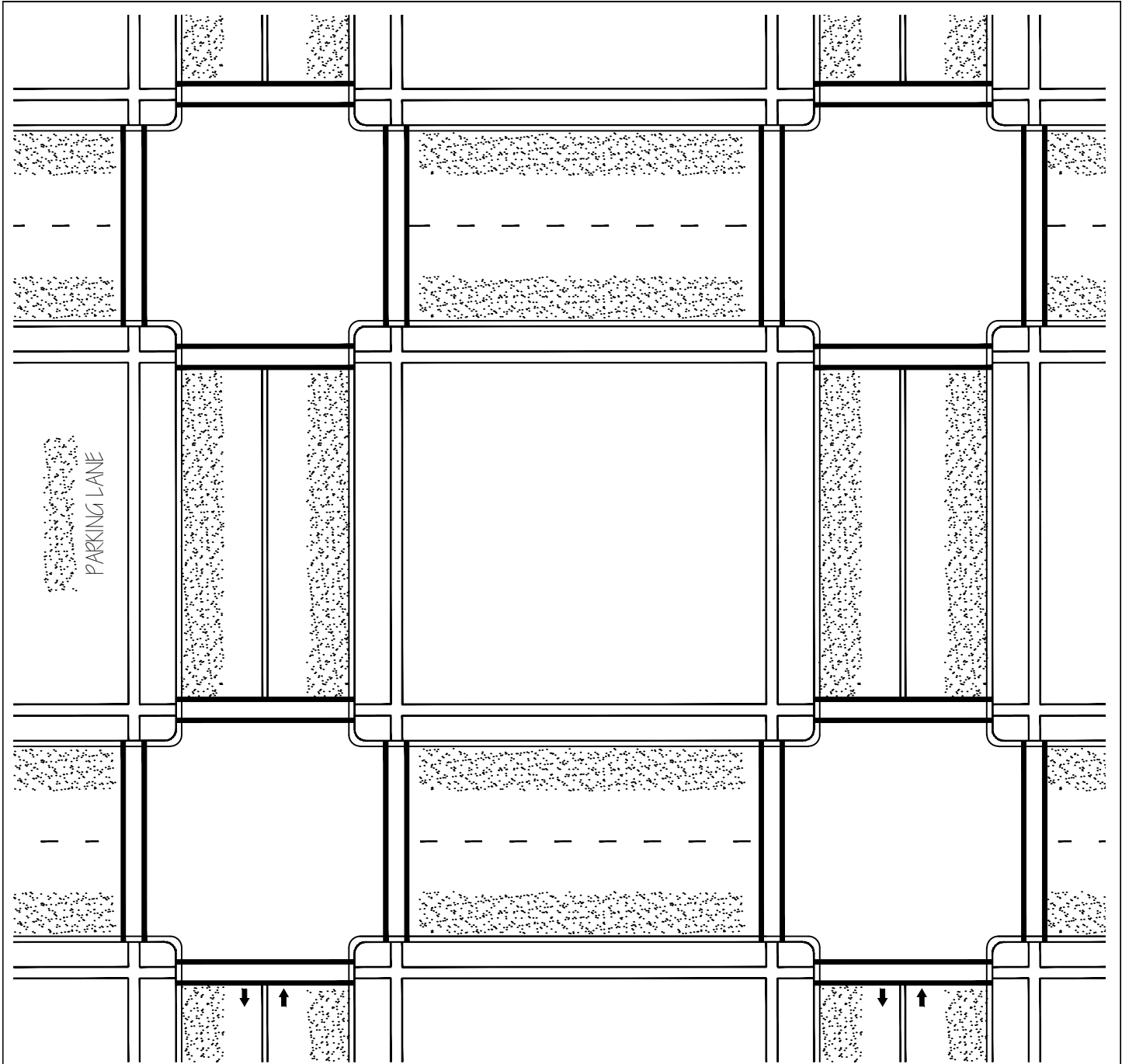
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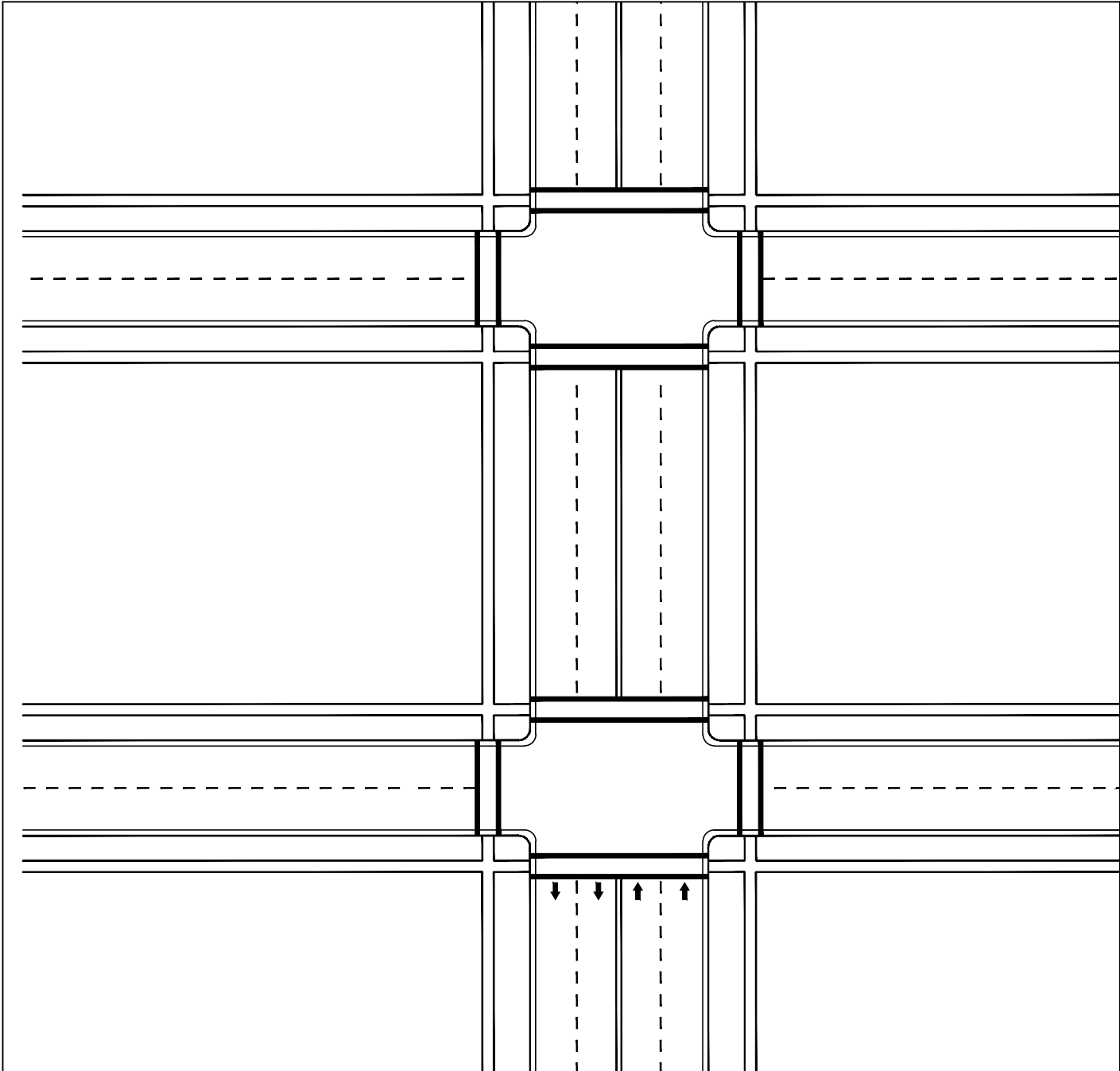
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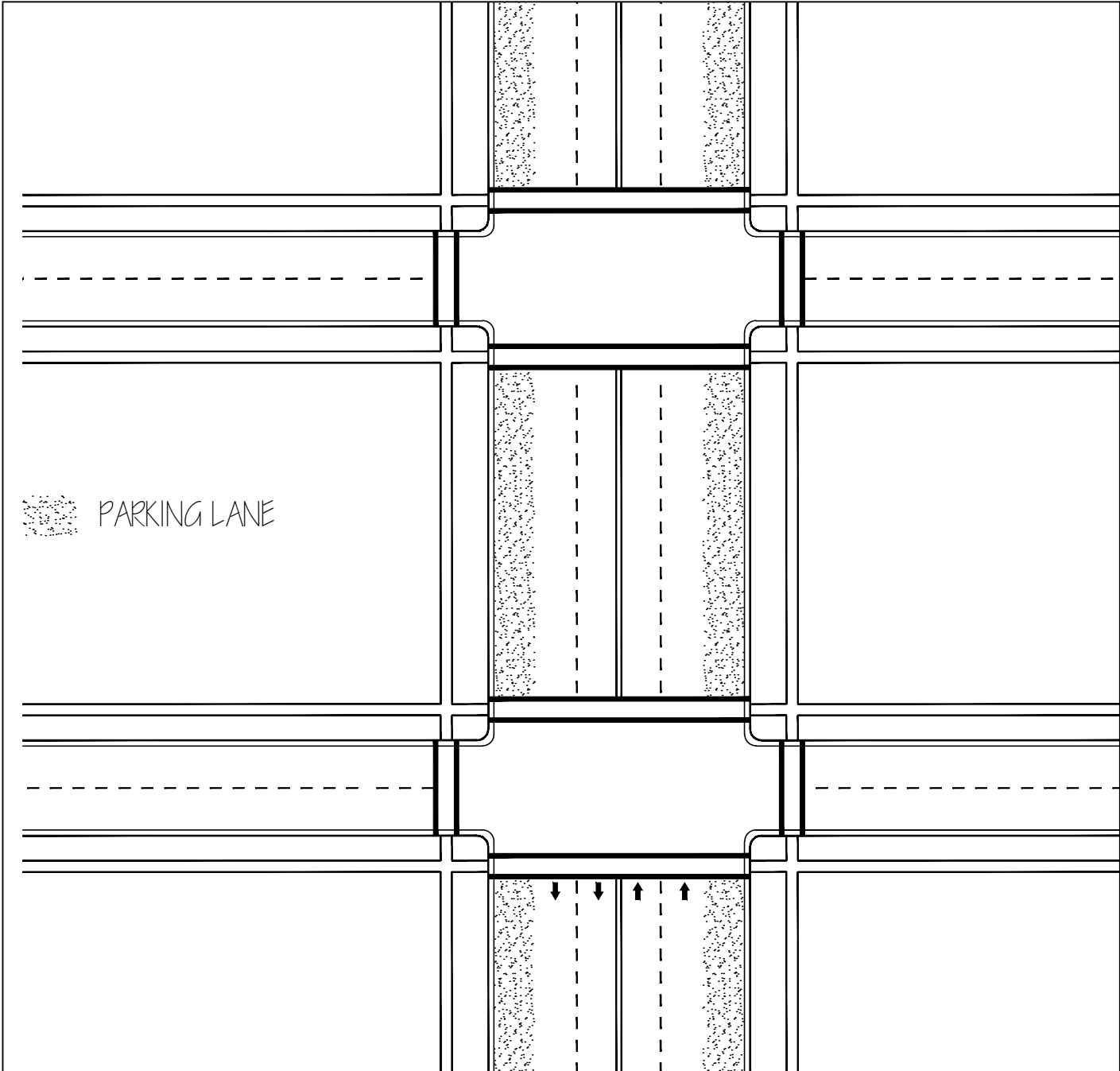
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APPENDIX C

PUBLIC CONVENIENCE AND SAFETY

Public Convenience and Safety

Construction Under Traffic

Additional Temporary Traffic Control Requirements:

Any demolition, or closure of pedestrian accessibility, at a given corner of an intersection must be limited to that given corner, with the remaining three corners at the intersection (at a minimum) being used to facilitate a pedestrian detour, until full accessibility or an accessible connection with at least one other corner can be re-established. Any temporary pedestrian access path/route that may be employed shall provide equivalent to, or better, accessibility than the unavailable path/route in accordance with the Americans with Disabilities Act and the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG).

The Contractor shall submit the proposed material type for "Temporary Pedestrian Access" to the Engineer for approval prior to construction. The Contractor shall maintain each pedestrian access and make repairs as directed for the duration of the construction, until the sidewalk and entry ways are finished at each respective location.

When construction operations are such that an existing traffic signal is required to be overridden to allow for traffic control measures, the signal shall be overridden only by a uniformed off-duty police officer.

To prevent hacker from getting access to the Portable Change Message Signs (PCMS), the contractor is required to change the default password and to take other appropriate measures for field access to message control features on the PCMS. In addition, the contractor shall verify the PCMS control box, if any, is secured and locked from tampering during the daily review of the work zone set up and conditions of the traffic control devices.

Property access impacted by the work must be preserved at all times, although alternative access may be arranged if coordinated in advance and with concurrence from the City and affected property owner(s).

To minimize the disruption to access to adjacent properties, and to Pierce Transit operations, the lane closure area shall be limited to that area of active work and necessary for appropriate lane closure tapers. The Contractor shall stage work to maintain legal access to and egress from all properties at all times.

A safe pedestrian access shall be provided at all times through the project area. All lane closures shall be coordinated with the adjacent businesses, school/school district, other contractors working within the project vicinity, local transit agencies and the City.

Where, in the opinion of the Engineer, parking is a hazard to through traffic or to the construction work, parking may be restricted either entirely or during the time when it creates a hazard. Signs for restricting parking shall be approved for content and location by the City and placed by the Contractor at least twenty-four (24) hours in advance for residential property and at least forty-eight (48) hours in advance for commercial property. The Contractor shall be responsible for and shall maintain all such signs. The replacement of signs restricting parking shall be as approved by the Engineer.

The Contractor shall notify all property owners and tenants of detours, street and alley closures, or other restrictions that may interfere with their access. Notification shall be at least twenty-four (24) hours in advance for residential property, and at least forty-eight (48) hours in advance for commercial property.

Emergency traffic, such as police, fire, and disaster units, shall be provided access at all times. In addition, the Contractor shall coordinate Contractor activities with all disposal firms and transit bus service that may be operating in the project area.

It is the intent of the Contract to effectively prevent the deposition of debris on streets in areas of public traffic or where such debris may be transported into a drainage system. When construction operations are such that debris from the work is deposited on the streets, the Contractor shall, at a minimum, remove on a daily basis any deposits or debris which may accumulate on the roadway surface. Should daily removal be insufficient to keep the streets clean, the Contractor shall perform removal operations on a more frequent basis. If the Engineer determines that a more frequent cleaning is impractical or if the Contractor fails to keep the streets free from deposits and debris resulting from the work, the Contractor shall, upon order of the Engineer, provide facilities for and remove all deposits from the tires or between wheels before trucks or other equipment will be allowed to travel over paved streets. Should the Contractor fail or refuse to clean the streets in question, or the trucks or equipment in question, the Engineer may order the work suspended at the Contractor's risk until compliance with Contractor's obligations is assured, or the Engineer may order the streets in question cleaned by others and such costs incurred by the City in achieving compliance with these contract requirements, including cleaning of the streets, shall be deducted from moneys due or to become due the Contractor on monthly estimate. The Contractor shall have no claim for delay or additional costs should the Engineer choose to suspend the Contractor's work until compliance is achieved.

An all-weather, functional roadway shall consist of a minimum four inch (4") layer of crushed surfacing base material to be provided and maintained on all roadway areas disturbed by construction and used to maintain vehicular traffic as required by these Special Provisions.

The unit Contract price for "Crushed Surfacing Base Course," at per ton, as listed in the Proposal shall be full pay for all labor, equipment, and materials required to furnish, place, compact, and grade the material necessary to maintain an all-weather functional roadway.

The Proposal quantity for "Crushed Surfacing Base Course" is intended to provide for the additional material necessary to maintain an all-weather, functional roadway as described above and is an estimate only.

Trenches backfilled with CDF shall be protected from traffic with steel plates. The plates shall remain in place for 24-hours after placement of the CDF or until CDF is compacted or hardened to prevent rutting by construction equipment or traffic.

Construction and Maintenance of Detours

Detour signing during any allowed road closures shall be in accordance with Detour Plans, when included in the Contract Documents. When plans are not included in the Contract Documents, the Contractor shall submit plans for detours in accordance with the "Manual on Uniform Traffic Control Devices (MUTCD)". In addition, where the Contractor believes an alternate plan will safely and adequately maintain vehicular and pedestrian traffic, the

Contractor may submit alternate plans to those for traffic control and detours required by MUTCD or contract documents. Such alternate plans must comply with the MUTCD and shall be in writing and submitted to the Engineer at least fifteen (15) days in advance of their intended use. In general, detouring of arterial traffic must be accomplished on streets designated as City Arterials. Detouring of arterial traffic on non-arterial streets will not be allowed. The acceptance of any alternate plan shall be entirely at the discretion of the Engineer and the Contractor shall have no claim by reason of a plan being rejected or modified, nor shall there be any additional payment by reason of using a substitute plan.

The Contractor shall notify the Engineer three (3) working days in advance of implementation of any street closures/detours allowed under the Contract. Advance notice signing shall be placed a minimum of three (3) working days prior to implementation of any street closure/detour.

A minimum of three (3) working days prior to any street closure, the Contractor shall notify all entities below:

Tacoma Fire Dept.	(253-591-5775)
Tacoma Police Dept.	(253-591-5932)
LESA Communications Center	(253-798-4721 - Opt.#2)
Tacoma Public Schools Transportation Office	(253-571-1853)
Pierce Transit	(253-581-8001)
Tacoma Environmental Services Solid Waste	(253-591-5544)
Tacoma Public Works Engineering Division	(253-591-5500)
Tacoma Public Works Streets and Grounds	(253-591-5495)

APPENDIX D

STORMWATER SITE PERMIT (SSP)

Combined Stormwater Site Plan and Construction Stormwater Pollution Prevention Plan Report Short Form – Marine

The Combined Stormwater Site Plan (SSP) and Construction Stormwater Pollution Prevention Plan (SWPPP) Report Short Form may be used for smaller projects. These typically will not trigger the need to install stormwater facilities to meet the intent of Minimum Requirement #6 (water quality), Minimum Requirement #7 (flow control), or Minimum Requirement #8 (Wetlands Protection). These projects typically fall within or below the following thresholds:

- The project adds or replaces between 2,000 and 5,000 square feet of hard surface.
- The project disturbs between 7,000 square feet and 1 acre of land.

This short form is not intended to replace the contents of the Stormwater Management Manual (SWMM) but is intended to provide an easy to use form that will help comply with the Minimum Requirements of the SWMM. This short form is appropriate for many projects in the City of Tacoma but may not be appropriate for all smaller projects. Environmental Services may require the preparation of a formal SSP and SWPPP per Volume 1 and Volume 2 of the SWMM based upon the project scope.

Utilize this Short Form for projects that are located in the **Northeast Tacoma, North Tacoma, Thea Foss, Tideflats, Lower Puyallup, and Western Slopes Watersheds and discharge to marine waterbodies**. For all other project locations, utilize the Combined Stormwater Site Plan and Construction Stormwater Pollution Prevention Plan Report Short Form – Freshwater located at www.cityoftacoma.org/stormwatermanual_shortforms.

The Combined SSP/SWPPP shall include both the completed attached report with associated appendices and a site plan which includes the following information at minimum. The site plan shall clearly show all necessary features and be drawn to scale. Provide at least two pages – one showing the BMPs that will be used during construction and one showing the site in the final condition including all permanent BMPs and final cover conditions (landscaping). Onsite field verification of actual conditions is required in order to complete the combined SSP and SWPPP. Environmental Services may also require additional information if warranted by project parameters.

- Vicinity Map
- Address, Parcel Number, Permit Number, and Street Names
- Parcel Lines
- North Arrow
- Boundaries of existing vegetation (e.g. tree lines, grassy areas, pasture areas, fields, etc.)

City of Tacoma Combined SSP-SWPPP Short Form

- Onsite or adjacent critical areas and associated buffers (e.g. wetlands, steep slopes, streams, etc.).
- Existing and proposed contours. Provide survey information if available; if unavailable, the City of Tacoma DART Map or govME MapGuide may be used to obtain estimated contours.
- Areas proposed to be cleared and graded.
- All cut and fill slopes, indicating top and bottom of slope catch lines.
- Indicate all locations where upstream runoff enters the site and locations where runoff leaves the site.
- Show spot elevations, dimensions, and direction of flow in any ditches, swales, culverts, and pipes that will be used during construction.
- Indicate locations and outlets of any dewatering systems (usually to sediment trap).
- Identify and show the location of all erosion control techniques to be used during and after construction.
- Include details for proposed temporary erosion and sediment control best management practices.
- Finish floor elevations of all proposed structures.
- Show the location of all existing improvements, including all known utilities.
- Show the location of all proposed improvements including:
 - The location and dimensions of any hard surfaces
 - The building footprint shall show the dimension of the roof footprint to fully show the amount of hard surface coverage
 - Pipe types and slopes for all proposed utilities
 - Location and dimension of any proposed stormwater system (infiltration trench, drywell, rain garden, etc.)
 - The location and dimension for vegetated flowpaths (if dispersion is proposed)
- Details for any proposed stormwater facility.
- For compliance with BMP L613: Post-Construction Soil Quality and Depth, hatch or otherwise clearly mark the location of soils amendments and the type of amendment proposed.
- Provide a proposed landscape plan which may include a separate planting plan for any proposed rain gardens (see Volume 6, Section 2.2.2.1.2.9).

Combined Stormwater Site Plan and Construction Stormwater Pollution Prevention Plan Report Short Form - Marine

City of Tacoma Site Development or Work Order Permit Number(s): PWK-G0039-01

Prepared By: Nick Correll

Date Prepared: 09/29/20

City of Tacoma SWMM Version Project is required to follow: 2020

Chapter 1 – Project Overview

Project Address: S 19th St / Yakima Ave, S 19th St / Tacoma Ave

Parcel Number: 8888879492, 2018150051, 2019150010, 2019160012, 2018120030, 2017110041, 2019110051, 2019120010

Size of Parcel (acres or square feet): N/A

Brief description of project: Improve traffic signal phasing and the visibility of pedestrian crosswalks. Add protected left-turn signal phasing and, if applicable, upgrade existing markings to high visibility style crosswalks at the following intersections: S 19th St & Yakima – north leg, east leg, south leg, and west leg. S 19th St & Tacoma Ave – north leg, east leg, south leg, and west leg.

Associated City of Tacoma Permit Number(s) (e.g., land use permits, residential building permits): N/A

Applicant Name: Nick Correll

Applicant Address: TMB

Applicant Phone Number: 253-591-5492

Applicant E-mail: ncorrell@cityoftacoma.org

Property Owner Name: City of Tacoma ROW

Property Owner Address: S 19th St / Yakima Ave, S 19th St / Tacoma Ave Intersections

Property Owner Phone Number: 253-591-5492

Property Owner E-mail: ncorrell@cityoftacoma.org

City of Tacoma Combined SSP-SWPPP Short Form

Identify other agency permits required or associated with the subject parcel (e.g., hydraulic permits, Army Corps 404 permits). Provide Permit numbers if available: N/A

Project Location Watershed: FS-06

First Waterbody Encountered in Entire Downstream Flowpath: Foss Waterway

Final (Ultimate) Discharge Waterbody: Puget Sound

City of Tacoma Combined SSP-SWPPP Short Form

In the table below, list all site improvements that have occurred on this site since January 1, 2003. Include all new hard surfaces and land disturbances. Provide short description of improvement including approximate square footage and related City of Tacoma Permit Number:

Year of Improvement	Description	Hard Surface Created (ft ²)	Amount of Land Disturbed (ft ²)	Related City of Tacoma Permit Number
N/A	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.

Complete the following table as applicable to the proposed project (include onsite and offsite improvements):

Description ^a	Onsite	Offsite	Total
Existing Conditions			
Total Project Area ^b (ft ²)	Click here to enter text.	Click here to enter text.	26,600
Existing hard surface (ft ²)	Click here to enter text.	Click here to enter text.	23,940
Existing vegetation area (ft ²)	Click here to enter text.	Click here to enter text.	2,660
Proposed Conditions			
Total Project Area ^b (ft ²)	Click here to enter text.	Click here to enter text.	26,600
Amount of new hard surface (ft ²)	Click here to enter text.	Click here to enter text.	24.8
Amount of new pollution generating hard surface (PGHS) ^c (ft ²)	Click here to enter text.	Click here to enter text.	24.8
Amount of replaced hard surface (ft ²)	Click here to enter text.	Click here to enter text.	2,390
Amount of replaced PGHS ^d (ft ²)	Click here to enter text.	Click here to enter text.	2,390
Amount of new plus replaced hard surface (ft ²)	Click here to enter text.	Click here to enter text.	2,414.8
Amount of new + replaced PGHS (ft ²)	Click here to enter text.	Click here to enter text.	2,414.8

City of Tacoma Combined SSP-SWPPP Short Form

Amount of existing hard surfaces converted to vegetation (ft²)	Click here to enter text.	Click here to enter text.	0
Amount of Land Disturbed (ft²)	Click here to	Click here to	2,414.8
Vegetation to Lawn/Landscaped (acres)	Click here to	Click here to	0
Native Vegetation to Pasture (acres)	Click here to	Click here to	0
Existing hard surface to remain unaltered (ft²)	Click here to	Click here to	21,550
Existing vegetation area to remain unaltered (ft²)	Click here to	Click here to	2,635.2

a. All terms are defined in the SWMM glossary.

b. The total project area in the existing condition should typically match the total project area in the proposed condition. The total project area includes those areas that remain unaltered and those areas that will be altered.

c. The "amount of new PGHS" should be part of or all of "amount of new hard surfaces"

d. The "amount of replaced PGHS" should be part of or all of the "amount of replaced hard surfaces".

Chapter 2 – Existing Condition Summary

Existing Site Conditions

1. Existing site conditions. (Check all that apply)

- ☐ Forest
 ☐ Pasture/prairie grass
 ☒ Pavement
 ☐ Landscaping
☐ Brush
 ☐ Trees
 ☐ Structure/Building
 ☐ Other: [Click here to enter text.](#)

2. Describe how stormwater flows across/from the site. (Check all that apply)

- ☐ Sheet Flow
 ☒ Gutter
 ☒ Catch Basin
 ☐ Ditch/Swale
☒ Stormwater Pipes
 ☐ Stream/Creek
 ☐ Other: [Click here to enter text.](#)

3. Existing Site Topography (Check all that apply)

- ☒ Flat
 ☐ Rolling
 ☒ Steep

4. Are there any known historical drainage problems such as flooding, erosion, etc.?

- ☐ Yes (show on site plan)
 ☒ No

5. Existing utilities (Check all that are on the site and show on site map with legend)

- ☒ Stormwater
 ☐ Water
 ☒ Wastewater
 ☐ Other: [Click here to enter text.](#)

City of Tacoma Combined SSP-SWPPP Short Form

6. Are sensitive and critical areas present on or near the site (i.e. vegetative buffers, wetlands, steep slopes, floodplains, geologic hazard areas, streams, creeks, ponds, ravines, springs, etc.)?
- ☐Yes (show on site plan) ☒No
7. Are existing fuel tanks present on the site?
- ☐Yes (show on site plan) ☒No
8. Is this site within the South Tacoma Groundwater Protection District (on GovME or SWMM Volume 1, Chapter 2, Figure 1 - 2)?
- ☐Yes ☒No
9. Is the site within the aquifer recharge area (on GovME under Building and Land Use/ Critical Areas)?
- ☐Yes ☒No
10. Are groundwater wells present onsite and/or within 100 feet of the site?
- ☐Yes (show on site plan) ☒No
11. Are septic systems present onsite and/or within 100 feet of the site?
- ☐Yes (show on site plan) ☒No
12. Are there existing public and/or private easements on the project site?
- ☒Yes (Yakima - 9606110382) ☐No
13. When a soils report is required (see Volume 3, Appendix B of the SWMM), provide a soils report (attach soils report as Appendix to this SSP Report).

Chapter 3 – Offsite Analysis (Qualitative)

1. Provide a map showing the downstream drainage path leading from the site to the receiving waterbody or ¼ mile (whichever is less). The map must show the location of the stormwater conveyance location and describe pipe diameters. Include map in appendices of this stormwater site plan. Alternatively, in writing below, describe the downstream drainage path leading from the site to the receiving waterbody or ¼ mile (whichever is less). {e.g. water flows from the project site into the existing concrete curb-line which connects to a catch basin at intersection of X and Y streets. A 12-inch pipe system conveys water another 1000 feet to a ravine/wetland.}:

Water flows from the project site into catch basins located along S 19th St. The water flows eastward through stormwater pipes down S 19th St, before exiting into the Thea Foss Waterway, and eventually into the Puget Sound.

2. Perform a site visit to investigate the drainage system ¼ mile downstream from the project and check the boxes below indicating any visual signs of drainage problems:

- ☒ No sign of drainage problems
- ☐ Damaged catch basins
- ☐ Damaged pipes
- ☐ Excessive leaf fall or debris blocking catch basin
- ☐ Localized flooding (large puddles)
- ☐ Signs of erosion (sediment build-up in curb line)
- ☐ Other: [Click here to enter text.](#)

Date of Inspection: 03/03/2020

Weather at the time of the inspection (was it raining during site visit?): sunny

Chapter 4 – Low Impact Development Principles

Where feasible, sites shall use the following low impact development site design principles. Check those principles that will be used onsite. The applicant is not required to revise their proposed design in order to accommodate these principles, but shall use the principles when feasible.

- ☐ Minimization of land disturbance by fitting development to the natural terrain.
- ☒ Minimization of land disturbance by confining construction to the smallest area feasible and away from critical areas.
- ☐ Preservation of natural vegetation.
- ☐ Locating impervious surfaces over less permeable soils.

- ☐ Clustering buildings
- ☒ Minimizing Impervious Surfaces

Chapter 5 – Discussion of Minimum Requirements

Check the box which describes how each of the Minimum Requirements will be satisfied. The applicant can check the boxes that apply or describe the alternate means used to comply with the Minimum Requirements. Review Volume 1 of the SWMM to determine which Minimum Requirements apply to a project.

Minimum Requirement #1 – Preparation of a Stormwater Site Plan

- ☒ This Combined SSP and SWPPP Report Short Form and associated plan set satisfy this requirement.

Minimum Requirement #2 – Construction Stormwater Pollution Prevention

- ☒ This Combined SSP and SWPPP Report Short Form and associated plan set satisfy this requirement.

Minimum Requirement #3 – Source Control of Pollution

- ☒ For roadway projects, comply with all Mandatory Operational, Good Housekeeping and Preventative Maintenance BMPs per Volume 4, Section 4.1 as applicable. Also, comply with the following BMPs: BMP A302: Concrete Pouring, Concrete Cutting and Asphalt Application, BMP A306: Landscaping and Lawn/Vegetation Maintenance, BMP A601: Dust Control at Disturbed Land Areas and Unpaved Roadways and Parking Lots, BMP A707: De-Icing and Anti-Icing Operations for Streets and Highways, BMP A709: Urban Streets, BMP A712: Maintenance of Roadside Ditches and Culverts, BMP A713: Spills of Oil and Hazardous Substances, and BMP S109: Cleaning Catch Basins, as applicable to the project.

Minimum Requirement #4 – Preservation of Natural Drainage Systems and Outfalls

All boxes should be checked for this Minimum Requirement. If all boxes cannot be checked an exception to the Minimum Requirement may be required per Volume 1, Section 3.5 of the SWMM.

- ☒ The natural (or existing) drainage patterns have been maintained to the maximum extent feasible.
- ☒ Discharges from the project site occur at the natural (or existing) location to the maximum extent feasible.
- ☒ Discharge from the project site will not cause a significant adverse impact to downstream receiving waters and downgradient properties.

Minimum Requirement #5 – Onsite Stormwater Management

Minimum Requirement #5 is dependent upon the watershed in which the project is located. See Volume 3 and Volume 6 of the SWMM for feasibility and design requirements for onsite stormwater management techniques. If there are multiple surface types (i.e. more than one roof), ensure the means of onsite management is described for each.

Include a description of how the facility size was determined including any calculations used to determine the facility size. Show the amount of surface area mitigated for each surface type and each facility. **Include sizing calculations as an attachment to this SSP.** See Volume 3, Appendix B of the SWMM to determine if a soils report is required for the facility type chosen. **Include soils report as an attachment to this SSP.**

Place a checkmark next to the BMP proposed to be used for each surface type. Complete an infeasibility checklist to determine which BMPs are appropriate for the project. See www.cityoftacoma.org/stormwatermanual_shortforms for infeasibility checklists for each BMP. Attach the completed infeasibility checklist(s) as an appendix to this SSP Report. Include an Operation and Maintenance Manual for all permanent facilities as an attachment to this SSP Report.

For projects within Northeast Tacoma, North Tacoma, Thea Foss, Tideflats, Lower Puyallup, and Western Slopes that discharge to marine waterbodies one of the following BMPs for each surface type must be utilized if feasible. The optional BMPs may be used as an alternative to the required BMPs if feasible.

Roofs:

Required BMPs: At least one of these BMPs must be analyzed for feasibility. If any BMP is found to be infeasible, the applicant may utilize BMP L605: Collect and Convey per the SWMM.

- ☐ BMP L602: Downspout Infiltration Trench
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☐ BMP L602: Downspout Dry Well
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☐ BMP L603: Dispersion Trench
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☐ BMP L603: Splashblocks
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☐ BMP L604: Perforated Stubout
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☒ No Roofs – Not Required
- ☐ Required BMPs are not feasible – utilize BMP L605: Collect and Convey

Optional BMPs: These BMPs may be utilized as an alternative to those listed above. The BMPs must be feasible for the proposed development and must be designed in accordance with the SWMM.

- ☐ BMP L601: Rain Garden
- ☐ BMP L630: Bioretention
- ☐ BMP L614: Full Dispersion

Other Hard Surfaces:

Required BMPs: At least one of these BMPs must be analyzed for feasibility. If any BMP is found to be infeasible the applicant may utilize BMP L605: Collect and Convey per the SWMM. Additional treatment may be required if proposing to infiltrate pollution generating surfaces in the South Tacoma Groundwater Protection District. See Volume 5, Appendix D of SWMM. If treatment is required the Short Form SSP cannot be used.

- ☐ BMP L611: Concentrated Flow Dispersion
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☐ BMP L612: Sheet Flow Dispersion
 - ☐ Not feasible – see infeasibility checklist in appendices
- ☒ Required BMPs are not feasible – utilize BMP L605: Collect and Convey

Optional BMPs: These BMPs may be utilized as an alternative to those listed above. The BMPs must be feasible for the proposed development and must be designed in accordance with the SWMM.

- ☐ BMP L633: Permeable Pavement
- ☐ BMP L601: Rain Garden
- ☐ BMP L630: Bioretention
- ☐ BMP L614: Full Dispersion

Lawn and Landscaped Areas:

Required BMP: The following BMP must be analyzed for feasibility. Place a checkmark next to the option(s) that will be utilized onsite.

- ☒ BMP L613: Post Construction Soil Quality and Depth
 - ☒ Option 1: Leave Native Vegetation and Soil Undisturbed
 - ☐ Option 2: Amend the Existing Site Topsoil
 - ☐ Option 3: Stockpile existing topsoil during grading and replace it prior to planting.
 - ☐ Option 4: Import Topsoil Mix
- ☐ Required BMP is not feasible – see infeasibility checklist attached in appendices

Minimum Requirement #6 – Water Quality Treatment

- ☐ See appendices for description of water quality treatment requirements and design calculations.
- ☒ Water quality treatment is not required for this project. Additional information:

Minimum Requirement #7 – Flow Control

- ☐ See appendices for description of flow control requirements and design calculations.
- ☒ Flow control is not required for this project. Additional information: [Click here to enter text.](#)

Minimum Requirement #8 – Wetland Protection

- ☐ See appendices for description of wetland protection requirements and design calculations.
- ☒ Wetlands protection is not required for this project. Additional information: no wetlands are present on or adjacent to the project site.

Minimum Requirement #9 – Operation and Maintenance

- ☐ See operation and maintenance manual contained in appendix of this Stormwater Site Plan Short Form Report.
- ☒ No stormwater facilities are proposed for this project (all stormwater is being collected and conveyed to the City system).

Minimum Requirement #10 – Offsite Analysis and Mitigation

See Chapter 3 of this Stormwater Site Plan Short Form Report.

Construction Stormwater Pollution Prevention Plan

13 Elements of a Construction SWPPP

The **following 13 elements are required for each SWPPP**. If an element does not apply to the project site, describe why the element does not apply. Check off those BMPs that are proposed to be used to meet the requirements of the 13 elements below. Everything that is checked below must be shown on the site plan. If a BMP is checked as a possible contingent BMP, state that in this report. Only those erosion and sediment control techniques most pertinent to small construction sites are included here. More detailed information on construction BMPs can be found in Volume 2 of the City of Tacoma Stormwater Management Manual. The BMP numbers referenced are BMPs located in the City of Tacoma SWMM. Attach those BMPs from the SWMM that will be used for the project as a separate appendix.

Element #1 – Preserve Vegetation and Mark Clearing Limits

Retain the duff layer, native topsoil, and natural vegetation in an undisturbed state to the maximum extent practicable. If it is not practicable to retain the duff layer in place, it should be stockpiled onsite, covered to prevent erosion, and replaced immediately upon completion of the ground-disturbing activity.

All construction projects must clearly mark any clearing limits, sensitive areas and their buffers, and any trees that will be preserved prior to beginning any land disturbing activities, including clearing and grading. Clearly mark the limits both in the field and on the plans. Limits shall be marked in such a way that any trees or vegetation to remain will not be harmed. See Figure 3 - 13 of the SWMM.

The BMP(s) being proposed to meet this element are:

☐BMP C101: Preserving Natural Vegetation

☐BMP C102: Buffer Zones

☐BMP C103: High Visibility Fence

☐BMP C233: Silt Fence

☐Other (Describe Method): [Click here to enter text.](#)

Or

☒This element is not required for this project because: no vegetation is being cleared. No vegetation or sensitive areas are adjacent to project site.

Element #2 – Establish Construction Access

All construction projects subject to vehicular traffic shall provide a means of preventing vehicle “tracking” of soil from the site onto City streets or neighboring properties. Limit vehicle ingress and egress to one route if possible. All access points shall be stabilized with a rock pad construction entrance per BMP C105 or other City of Tacoma approved BMP. The applicant should consider placing the entrance in the area for future driveway(s), as it may be possible to use the rock as a driveway base material. The entrance(s) must be inspected

weekly, at a minimum, to ensure no excess sediment buildup or missing rock.

If sediment is tracked offsite, it shall be swept or shoveled from the paved surface immediately. Keep streets clean at all times. Street washing for sediment removal is not allowed as it can transport sediment to downstream water courses and clog the downstream stormwater system.

The location of the proposed construction entrance must be identified on the site plan.

The BMP(s) being proposed to meet this element are:

☐BMP C105: Stabilized Construction Entrance/Exit

☐BMP C107: Construction Road/Parking Area Stabilization

☐Other (Describe Method): [Click here to enter text.](#)

Or

☒This element is not required for this project because: dedicated construction entrance not practical for individual intersection construction sites; will use street sweeping.

Element #3 – Control Flowrates

Protect properties and waterways downstream of the project site from erosion due to increases in volume, velocity, and peak flow of stormwater runoff from the project site.

Permanent infiltration facilities shall not be used to control flowrates during construction unless specifically approved in writing by Environmental Services.

The BMP(s) being proposed to meet this element are:

☐BMP C203: Water Bars

☐BMP C207: Check Dams

☐BMP C209: Outlet Protection

☐BMP C235: Wattles

☐BMP C240: Sediment Trap

☐Other (Describe Method): [Click here to enter text.](#)

Or

☒This element is not required for this project because: Flowrates before and after the project are likely to remain the same – controlling flowrates during construction is not necessary.

Element #4 – Install Sediment Controls

Stormwater runoff from disturbed areas must pass through an appropriate sediment removal device prior to leaving a construction site or discharging into an infiltration facility.

Install/construct the sediment removal BMP before site grading.

The BMP(s) being proposed to meet this element are:

☐BMP C233: Silt Fence

☐BMP C234: Vegetated Strip

☐BMP C235: Wattles

☐BMP C240: Sediment Trap

☒Other (Describe Method): street sweeping

Or

☐This element is not required for this project because: [Click here to enter text.](#)

Element #5 – Stabilize Soils

Stabilize exposed and unworked soils by applying BMPs that protect the soils from raindrop impact, flowing water, and wind. Minimize the amount of soil exposed during construction activity. Minimize the disturbance of steep slopes. Minimize soil compaction and, unless infeasible, preserve topsoil.

From October 1 through April 30, no soils shall remain exposed or unworked for more than 2 days. From May 1 to September 30, no soils shall remain exposed and unworked for more than 7 days. This applies to all soils on site whether at final grade or not.

The BMP(s) being proposed to meet this element are:

☐BMP C120: Temporary and Permanent Seeding

☐BMP C121: Mulching

☐BMP C122: Nets and Blankets

☒BMP C123: Plastic Covering

☐BMP C124: Sodding

☐BMP C125: Compost

☐BMP C126: Topsoiling

☐BMP C140: Dust Control

☐ Other (Describe Method): [Click here to enter text.](#)

Or

☐ This element is not required for this project because:

Element #6 – Protect Slopes

Design and construct cut-and-fill slopes in a manner to minimize erosion.

Protect slopes by diverting water at the top of the slope. Reduce slope velocities by minimizing the continuous length of the slope, which can be accomplished by terracing and roughening slope sides. Establishing vegetation on slopes will protect them as well.

The BMP(s) being proposed to meet this element are:

☐ BMP C120: Temporary and Permanent Seeding

☐ BMP C121: Mulching

☐ BMP C122: Nets and Blankets

☐ BMP C200: Interceptor Dike and Swale

☐ BMP C203: Water Bars

☐ BMP C204: Pipe Slope Drains

☐ BMP C205: Subsurface Drains

☐ BMP C207: Check Dams

☐ BMP C208: Triangular Silt Dike

☐ Other (Describe Method): [Click here to enter text.](#)

Or

☒ This element is not required for this project because: project does not involve working on or around slopes

Element #7 – Protect Drain Inlets

Protect all storm drain inlets that are operable during construction to ensure untreated stormwater does not enter conveyance system. Install catch basin protection on all catch basins within 500 feet downstream of the project. The catch basin inlet protection shown in Figure 2-45 is the only catch basin protection allowed within the City right of way. Once the site is fully stabilized, catch basin protection must be removed.

The BMP(s) being proposed to meet this element are:

☒ BMP C220: Storm Drain Inlet Protection

☐ Other (Describe Method): [Click here to enter text.](#)

Or

☐ This element is not required for this project because: [Click here to enter text.](#)

Element #8 – Stabilize Channels and Outlets

Stabilize all temporary onsite conveyance channels. Provide stabilization to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches at the outlets of conveyance systems.

The BMP(s) being proposed to meet this element are:

- ☐ BMP C122: Nets and Blankets
- ☐ BMP C202: Channel Lining
- ☐ BMP C207: Check Dams
- ☐ BMP C209: Outlet Protection
- ☐ Other (Describe Method): [Click here to enter text.](#)

Or

- ☒ This element is not required for this project because: no temporary channels

Element #9 – Control Pollutants

Handle and dispose of all pollutants, including demolition debris and other solid wastes in a manner that does not cause contamination of the stormwater. Provide cover and containment for all chemicals, liquid products (including paint), petroleum products, and other materials.

Handle all concrete and concrete waste appropriately. All discharges to the City sanitary sewer system require City approval, which may include a Special Approved Discharge (SAD) permit, see

http://www.cityoftacoma.org/government/city_departments/environmentalservices/wastewater/wastewater_permits_and_manuals for additional information.

The BMP(s) being proposed to meet this element are:

- ☒ BMP C151: Concrete Handling
- ☒ BMP C152: Sawcutting and Surfacing Pollution Prevention
- ☒ BMP C153: Material Delivery, Storage, and Containment
- ☐ BMP C154: Concrete Washout Area
- ☐ Other (Describe Method): [Click here to enter text.](#)

Or

- ☐ This element is not required for this project because: [Click here to enter text.](#)

Element #10 – Control Dewatering

Clean, non-turbid dewatering water, such as groundwater, can be discharged to the stormwater system provided the dewatering flow does not cause erosion or flooding of receiving waters. All other water shall be discharged to the City wastewater system.

All discharges to the City wastewater system require City approval, which may include a Special Approved Discharge (SAD) permit.

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The BMP(s) being proposed to meet this element are:

- ☐ BMP C203: Water Bars
- ☐ BMP C236: Vegetative Filtration
- ☐ Other (Describe Method): [Click here to enter text.](#)

Or

- ☒ This element is not required for this project because: dewatering not anticipated

Element #11 – Maintain BMPs

Maintain and repair temporary erosion and sediment control BMPs as needed. Inspect all BMPs at least weekly and after every storm event.

Remove all temporary erosion and sediment control BMPs within 30 days after final site stabilization or if the BMP is no longer needed. Any trapped sediment should be removed or stabilized onsite. No sediment shall be discharged into the storm drainage system or natural conveyance systems.

The BMP(s) being proposed to meet this element are:

- ☒ BMP C150: Materials on Hand
- ☒ BMP C160: Erosion and Sediment Control Lead
- ☐ Other (Describe Method): [Click here to enter text.](#)

Or

- ☐ This element is not required for this project because: [Click here to enter text.](#)

Element #12 – Manage the Project

Phase development projects in order to prevent soil erosion and the transport of sediment from the project site during construction.

Coordinate all work before initial construction with subcontractors and other utilities to ensure no areas are prematurely worked.

An Erosion Control Lead is required for all construction sites. The Erosion Control Lead is the party responsible for ensuring that the proposed erosion and sediment control BMPs are appropriate for the site and are functioning. They are also responsible for updating the SWPPP as necessary as site conditions warrant. They must be available 24 hours a day to ensure compliance.

The BMP(s) being proposed to meet this element are:

- ☐ BMP C150: Materials on Hand
- ☒ BMP C160: Erosion and Sediment Control Lead
 - Name of ESC Lead: Contractor will provide
 - Phone Number for ESC Lead: Contractor will provide
- ☐ BMP C162: Scheduling
- ☐ Other (Describe Method): [Click here to enter text.](#)

Or

☐ This element is not required for this project because: [Click here to enter text.](#)

Element #13 – Protect BMPs

Protect all permanent stormwater BMPs from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the BMPs. Restore all BMPs to their fully functioning condition if they accumulate sediment during construction. Restoring the BMP shall include removal of all sediment. Keep heavy equipment off of infiltration surfaces.

The BMP(s) being proposed to meet this element are:

- ☐ BMP C102: Buffer Zone
- ☐ BMP C103: High Visibility Fence
- ☐ BMP C200: Interceptor Dike and Swale
- ☐ BMP C201: Grass-Lined Channels
- ☐ BMP C207: Check Dams
- ☐ BMP C208: Triangular Silt Dike (TSD) (Geotextile-Encased Check Dam)
- ☐ BMP C231: Brush Barrier
- ☐ BMP C233: Silt Fence
- ☐ BMP C234: Vegetated Strip
- ☐ Other (Describe Method): [Click here to enter text.](#)

Or

☒ This element is not required for this project because: none known

Complete the following information regarding construction sequencing, phasing, and scheduling:

Construction Sequencing

The standard construction sequence is as follows:

- Mark clearing/grading limits.
- Schedule an inspection with the City to verify clearing/grading limits and TESC BMP placement prior to the start of any work on the site.
- Clear, grade, and fill site as outlined in the site plan while implementing and maintaining TESC BMPs at the same time.
- Install proposed site improvements (hard surface, landscaping, etc.).
- Schedule an inspection with the City for approval of permanent site stabilization protection and site grades.
- Remove TESC BMPs as permitted by the City inspector and repair permanent landscaping as necessary.
- Monitor and maintain permanent erosion protection (lawn/landscaping) until fully established.

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List any changes from the standard construction sequence outlined above: no changes

Construction Phasing

Construction phasing: If construction is going to occur in separate phases, describe: conduit will be installed first and concrete/pavement restoration will be completed. Signal equipment will be installed several months later due to long lead times.

Construction Schedule

Provide a proposed construction schedule (dates construction begins and ends and dates for any construction phasing).

Start Date: 02/2021

End Date: 08/2021

Interim Phasing Dates: N/A

Wet Season Construction Activities: *Wet season occurs from October 1 to April 30.* Describe construction activities that will occur during this time period: conduit installation and concrete/pavement restoration

NOTE: Additional erosion control measures beyond those shown may be required to manage site runoff.

Stormwater Site Plan and Construction Stormwater Pollution Prevention Plan Appendices

The following are potential appendices that may be required for your project. Only includes those items applicable to your project. Additional appendices may be required in addition to those typical appendices shown below.

Appendix A – Qualitative Analysis Map

- See Chapter 3 for additional information of what should be included on this map.

Appendix B – Completed Infeasibility Checklists

- See Chapter 5, Minimum Requirement #5 for additional information for what to include in this appendix.

Appendix C – Stormwater Facility Sizing

- Complete all relevant information in Appendix C. Remove sizing information that is not relevant to the project.
- See Volume 3 of the SWMM for information on how to size onsite stormwater BMPs.

Appendix D – Soils Report

- See Volume 3, Appendix B of the SWMM.

Appendix E – BMP Operation and Maintenance Manual

- If a permanent stormwater BMP is proposed for this project, an O&M Manual is required.

Appendix F – Source Control Worksheet for Commercial and Industrial Facilities

- Required for commercial and industrial facilities. See Volume 4, Chapter 2 of the SWMM.

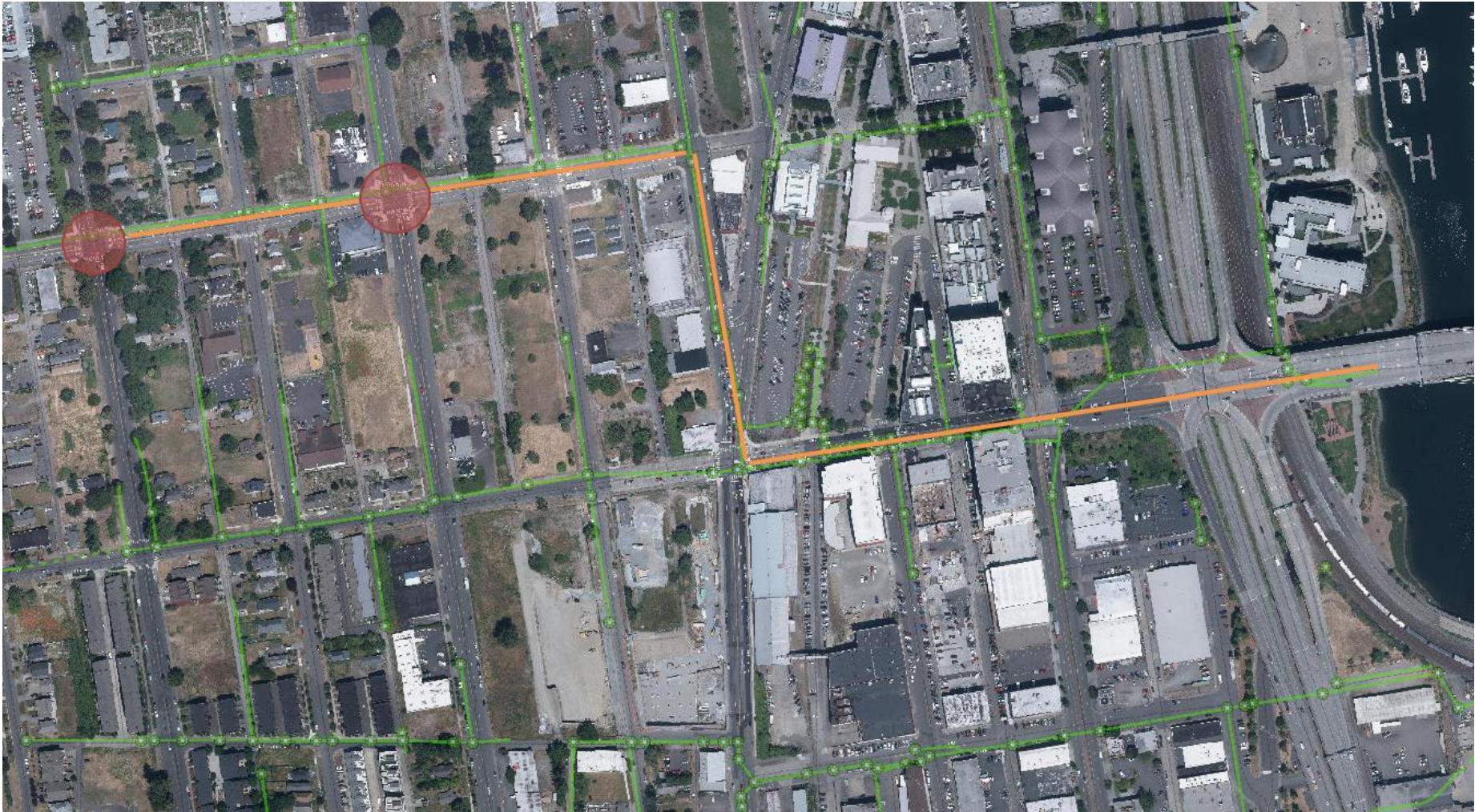
Appendix G – Temporary Erosion and Sediment Control BMPs

- Only include applicable BMPs from Volume 2 of the SWMM.

Appendix A – Qualitative Analysis Map, Other Attachments

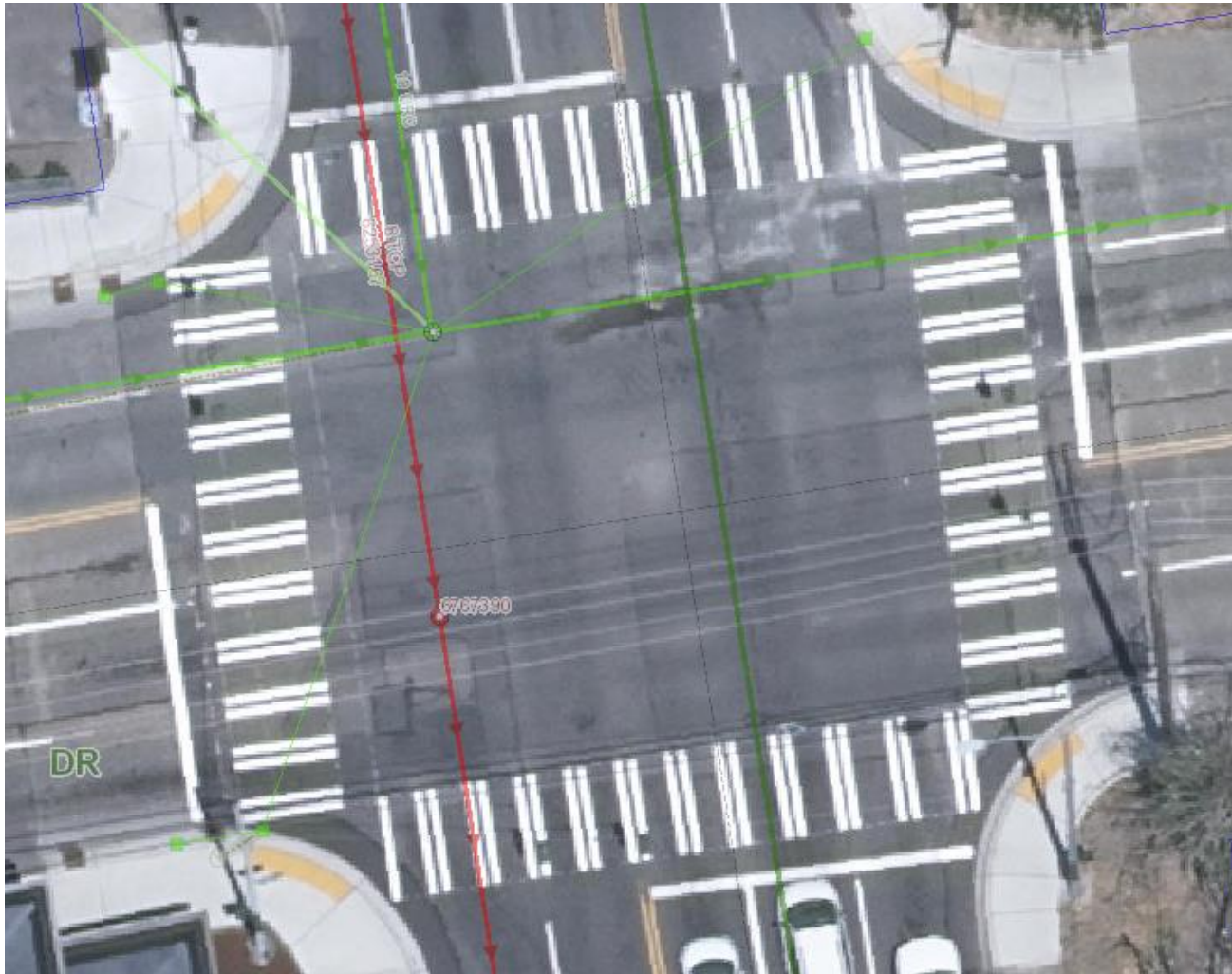
Downstream map tool unavailable

Figure 1 downstream water flow



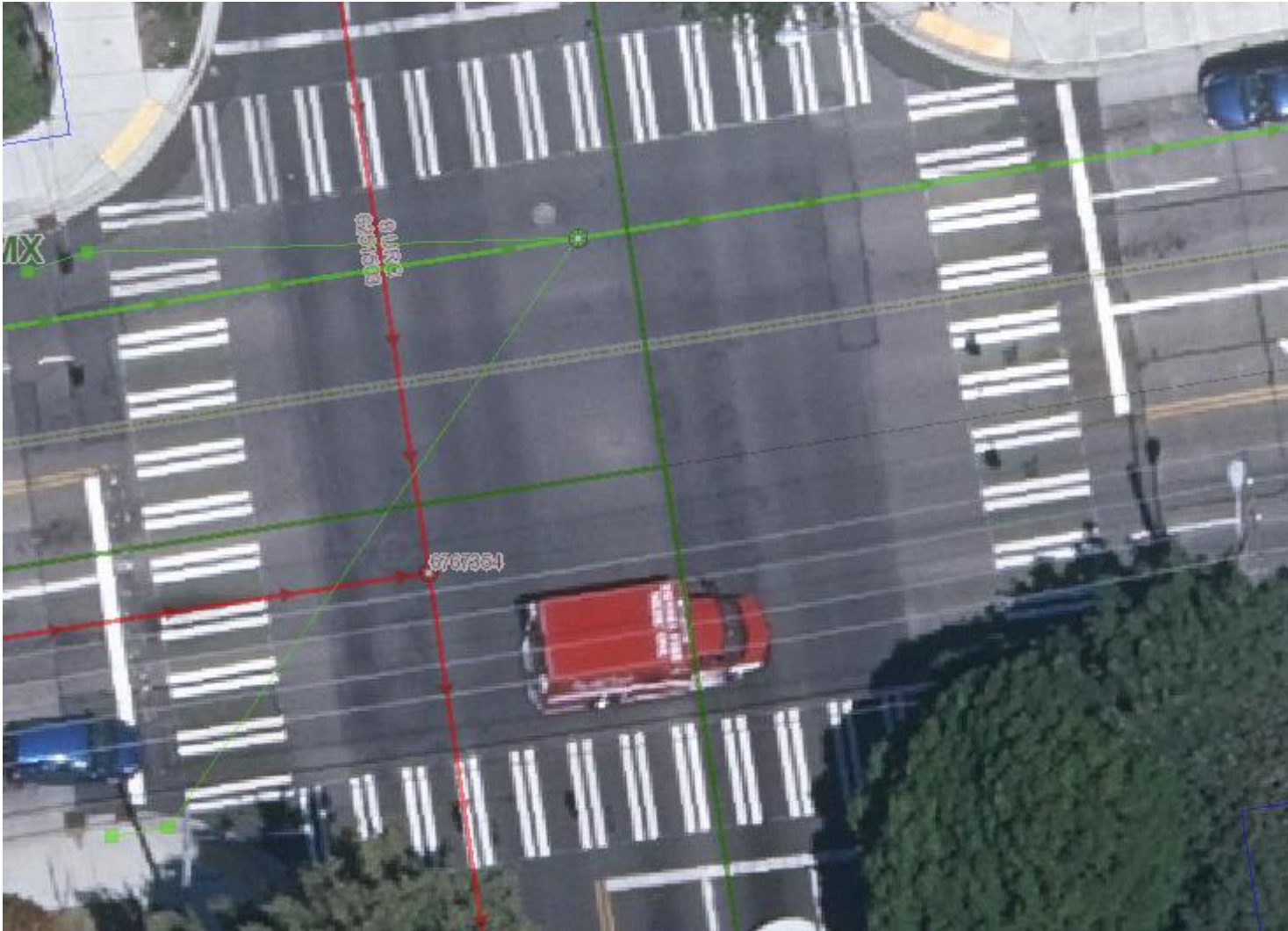
City of Tacoma Combined SSP-SWPPP Short Form

Figure 2 Tacoma Ave / S 19th - Utility Locations



City of Tacoma Combined SSP-SWPPP Short Form

Figure 3 Yakima Ave / S 19th - utility locations



City of Tacoma Combined SSP-SWPPP Short Form

Figure 4 Easement at Yakima Ave / S 19th



Appendix B – Completed Infeasibility Checklists

Surface Type: Other Hard Surfaces BMP L611: Concentrated Flow Dispersion City of Tacoma Permit Number: Click here to enter text. Date Prepared: 2/21/2019			
	Yes	No	NA
Can the dispersion BMP be placed 10 feet or more from any building structure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Can the dispersion BMP be placed 5 feet or more from any other structure or property line?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Can the dispersion BMP be placed 50 feet or more from the top of a steep slope (15% or greater)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Can the dispersion BMP be placed 10 feet or more from septic tanks and septic drainfields?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
For dispersion trenches, is there a 25 foot or greater vegetated flowpath between the discharge point from the dispersion BMP and any property line, structure, steep slope, stream, lake, wetland, or other hard surface for concentrating flows onto a rock pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
For rock pads, is there a 50 foot or greater vegetated flowpath between the discharge point from the dispersion BMP and any property line, structure, steep slope, stream, lake, wetland, or other hard surface for concentrating flows onto a rock pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will installing concentrated flow dispersion cause conflicts with any of the following? (An answer of yes means this BMP is not feasible).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please check the box next to those items that apply. Answer requires a report prepared by professional.			
Requirements of the Historic Preservation Laws and Archeology Laws, Federal Superfund or Washington State Model Toxics Control Act, Federal Aviation Administration requirements for airports, or Americans with Disability Act	<input type="checkbox"/>		
Special zoning district design criteria adopted and being implemented through any City of Tacoma planning efforts	<input type="checkbox"/>		
Public health and safety standards	<input checked="" type="checkbox"/>		
Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-of-way	<input checked="" type="checkbox"/>		
Critical Area Preservation Ordinance	<input type="checkbox"/>		

Appendix G – Temporary Erosion and Sediment Control BMPs

City of Tacoma

July 2016 SWMM

3.1.10 BMP C123: Plastic Covering

3.1.10.1 Purpose

Plastic covering provides immediate, short-term erosion protection to slopes and disturbed areas.

3.1.10.2 Conditions of Use

- Plastic covering may be used on disturbed areas that require cover measures for less than 30 days, except as stated below.
- Plastic is particularly useful for protecting cut and fill slopes and stockpiles.
- The relatively rapid breakdown of most polyethylene sheeting makes it unsuitable for long-term (greater than six months) applications.
- Clear plastic sheeting can be used over newly-seeded areas to create a greenhouse effect and encourage grass growth if the hydroseed was installed too late in the season to establish 75 percent grass cover, or if the wet season started earlier than normal. Clear plastic should not be used for this purpose during the summer months because the resulting high temperatures can kill the grass.
- Due to rapid runoff caused by plastic covering, this method shall not be used upslope of areas that might be adversely impacted by concentrated runoff. Such areas include steep and/or unstable slopes.
- Whenever plastic is used to protect slopes, water collection measures must be installed at the base of the slope. These measures include plastic-covered berms, channels, and pipes used to convey clean rainwater away from bare soil and disturbed areas. At no time is clean runoff from a plastic covered slope to be mixed with dirty runoff from a project.
- Other uses for plastic include:
 - Temporary ditch liner;
 - Pond liner in temporary sediment pond;
 - Liner for bermed temporary fuel storage area if plastic is not reactive to the type of fuel being stored;
 - Emergency slope protection during heavy rains; and
 - Temporary drainpipe ("elephant trunk") used to direct water.

3.1.10.3 Design and Installation Specifications

See Figure 3.1.11.

Plastic slope cover must be installed as follows:

- Run plastic up and down slope, not across slope.
- Plastic may be installed perpendicular to a slope if the slope length is less than 10 feet.
- Minimum of 8-inch overlap at seams.
- On long or wide slopes, or slopes subject to wind, all seams should be taped.
- Place plastic into a small (12-inch wide by 6-inch deep) slot trench at the top of the slope and backfill with soil to keep water from flowing underneath.

- Place sand filled burlap or geotextile bags every 3 to 6 feet along seams and pound a wooden stake through each to hold them in place. Alternative options for holding plastic in place exist and may be considered with COT approval.
- Inspect plastic for rips, tears, and open seams regularly and repair immediately. This prevents high velocity runoff from contacting bare soil, which causes extreme erosion;
- Plastic sheeting shall have a minimum thickness of 6 mil.
- If erosion at the toe of a slope is likely, a gravel berm, riprap, or other suitable protection shall be installed at the toe of the slope in order to reduce the velocity of runoff.

3.1.10.4 Maintenance Standards

- Torn sheets must be replaced and open seams repaired.
- If the plastic begins to deteriorate due to ultraviolet radiation, it must be completely removed and replaced.
- When the plastic is no longer needed, it shall be completely removed.
- Properly dispose of products used to weigh down covering.

- Irrigation water can be used for dust control. Install irrigation systems as a first step on sites where dust control is a concern.
- Spray exposed soil areas with a dust palliative, following the manufacturer's instructions and cautions regarding handling and application. Used oil is prohibited from use as a dust suppressant. The City may approve other dust palliatives such as calcium chloride or PAM.
- PAM (BMP C127) added to water at a rate of 2/3 pounds per 1,000 gallons of water per acre and applied from a water truck is more effective than water alone. This is due to the increased infiltration of water into the soil and reduced evaporation. In addition, small soil particles are bonded together and are not as easily transported by wind. Adding PAM may actually reduce the quantity of water needed for dust control. There are concerns with the proper use of PAM, refer to BMP C127 for more information on PAM application. PAM use requires COT approval.
- Lower speed limits. High vehicle speed increases the amount of dust stirred up from unpaved roads and lots.
- Upgrade the road surface strength by improving particle size, shape, and mineral types that make up the surface and base materials.
- Add surface gravel to reduce the source of dust emission. Limit the amount of fine particles to 10 to 20 percent.
- Use geotextile fabrics to increase the strength of new roads or roads undergoing reconstruction.
- Encourage the use of alternate, paved routes, if available.
- Restrict use of paved roadways by tracked vehicles and heavy trucks to prevent damage to road surfaces and bases.
- Apply chemical dust suppressants using the admix method, blending the product with the top few inches of surface material. Suppressants may also be applied as surface treatments.
- Pave unpaved permanent roads and other trafficked areas.
- Use vacuum street sweepers.
- Remove mud and other dirt promptly so it does not dry and then turn into dust.
- Limit dust-causing work on windy days.
- Contact the Puget Sound Clean Air Agency for guidance and training on other dust control measures. Compliance with the Puget Sound Clean Air Agency's recommendations/requirements constitutes compliance with this BMP.

3.1.17.4 Maintenance Standards

Evaluate the potential for dust generation frequently during dry periods. Complete the actions outlined above as needed to limit the dust.

Any dust which leaves the site must be cleaned immediately.

3.1.18 BMP C150: Materials On Hand

3.1.18.1 Purpose

Quantities of erosion prevention and sediment control materials should be kept on the project site at all times to be used for regular maintenance and emergency situations such as unexpected

heavy summer rains. Having these materials onsite reduces the time needed to implement BMPs when inspections indicate that existing BMPs are not meeting the Construction SWPPP requirements.

3.1.18.2 Conditions of Use

Construction projects of any size or type can benefit from having materials on hand. A small commercial development project could have a roll of plastic and some gravel available for immediate protection of bare soil and temporary berm construction. A large earthwork project, such as highway construction, might have several tons of straw, several rolls of plastic, flexible pipe, sandbags, geotextile fabric, and steel "T" posts.

- Materials are stockpiled and readily available before any site clearing, grubbing, or earthwork begins. A large contractor or developer could keep a stockpile of materials that are available to be used on several projects.
- If storage space at the project site is at a premium, the contractor could maintain the materials at a location less than one hour from the project site.

3.1.18.3 Design and Installation Specifications

Depending on project type, size, complexity, and length, materials and quantities will vary. Table 2 - 9 provides a good minimum that will cover numerous situations.

Table 2 - 9: Materials on Hand

Material	Measure	Quantity
Clear Plastic, 6 mil	100 foot roll	1-2
Drainpipe, 6 or 8 inch diameter	25 foot section	4-6
Sandbags, filled	each	25-50
Quarry Spalls	ton	2-4
Washed Gravel	cubic yard	2-4
Geotextile Fabric	100 foot roll	1-2
Catch Basin Inserts	each	2-4
Steel "T" Posts	each	12-24

3.1.18.4 Maintenance Standards

- All materials with the exception of the quarry spalls, steel "T" posts, and gravel should be kept covered and out of both sun and rain.
- Re-stock materials used as needed.

3.1.19 BMP C151: Concrete Handling

3.1.19.1 Purpose

Concrete work can generate process water and slurry that contain fine particles and high pH, both of which can violate water quality standards in the receiving water. This BMP is intended to minimize and eliminate concrete, concrete process water and concrete slurry from entering waters of the state.

3.1.19.2 Conditions of Use

Utilize these management practices any time concrete is used.

Concrete construction projects include, but are not limited to, the following:

- Curbs
- Sidewalks
- Roads
- Bridges
- Foundations
- Floors
- Runways

3.1.19.3 Design and Installation Specifications

- Concrete trucks, chutes, pumps, and internals shall be washed out only at an approved offsite location or in designated washout areas.
- Unused concrete remaining in the truck and pump shall be returned to the originating batch plant for recycling.
- Hand tools shall be washed off only into formed areas awaiting installation of concrete or asphalt.
- Equipment that cannot be easily moved, such as concrete pavers, shall only be washed in areas that do not directly drain to natural or constructed stormwater conveyances.
- Washdown from areas such as concrete aggregate driveways shall not drain directly to natural or constructed stormwater conveyances.
- Do not wash out concrete trucks onto the ground, or into storm drains, open ditches, streets, or streams. Refer to BMP C151 for information concerning concrete handling and BMP C154 for information concerning concrete washout areas.
- Always use forms or solid barriers for concrete pours within 15-feet of surface waters.
- Refer to BMPs C252 and C253 for pH adjustment requirements.
- Refer to the Construction Stormwater General Permit for pH monitoring requirements if the project involves one of the following activities:
 - Significant concrete work (greater than 1,000 cubic yards poured concrete or recycled concrete used over the life of a project).
 - The use of engineered soils amended with (but not limited to) Portland cement-treated base, cement kiln dust or fly ash.
 - Discharging stormwater to segments of water bodies on the 303(d) list (Category 5) for high pH.

3.1.19.4 Maintenance Standards

Containers shall be checked for holes in the liner daily during concrete pours and repaired the same day.

3.1.20 BMP C152: Sawcutting and Surfacing Pollution Prevention**3.1.20.1 Purpose**

Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate water quality standards in the receiving water. This BMP is intended to minimize and eliminate process water and slurry from entering waters of the State

3.1.20.2 Conditions of Use

Anytime sawcutting or surfacing operations take place, use these management practices. Sawcutting and surfacing operations include, but are not limited to, the following:

- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- Bridge and road surfacing

3.1.20.3 Design and Installation Specifications

- Vacuum slurry and cuttings during cutting and surfacing operations.
- Do not leave slurry and cuttings on permanent concrete or asphalt pavement overnight.
- Do not drain slurry and cuttings to any natural or constructed drainage conveyance.
- Dispose of collected slurry and cuttings in a manner that does not violate groundwater or surface water quality standards.
- Do not drain process water that is generated during hydro-demolition, surface roughening, or similar operations to any natural or constructed drainage conveyance. Dispose of process water in a manner that does not violate groundwater or surface water quality standards.
- Handle and dispose of cleaning waste material and demolition debris in a manner that does not cause contamination of water. If the area is swept with a pick-up sweeper, haul the material out of the area to an appropriate disposal site.

3.1.20.4 Maintenance Standards

Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks.

3.1.21 BMP C153: Material Delivery, Storage and Containment**3.1.21.1 Purpose**

Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in a designated area, and installing secondary containment.

- Updating all project drawings and the Construction SWPPP with changes made.
- Keeping daily logs and inspection reports. Inspection reports should include:
 - Inspection date/time.
 - Weather information, general conditions during inspection, and approximate amount of precipitation since the last inspection.
 - A summary or list of all BMPs implemented, including observations of all erosion/sediment control structures or practices. The following shall be noted:
 - Locations of BMPs inspected,
 - Locations of BMPs that need maintenance,
 - Locations of BMPs that failed to operate as designed or intended, and
 - Locations where additional or different BMPs are required.
 - Visual monitoring results, including a description of discharged stormwater. The presence of suspended sediment, turbid water, discoloration, and oil sheen shall be noted, as applicable.
 - Any water quality monitoring performed during inspection.
 - General comments and notes, including a brief description of any BMP repairs, maintenance, or installations made as a result of the inspection.
- Facilitate, participate in, and take corrective actions resulting from inspections performed by outside agencies or the owner.
- Keep an inventory of equipment onsite.

3.1.24 BMP C161: Payment of Erosion Control Work

3.1.24.1 Purpose

As with any construction operation, the contractor should be paid for erosion control work. Address payment for erosion control during project development and design. Identify the method of payment in the SWPPP.

Erosion control work should never be "incidental" to the contract as it is extremely difficult for the contractor to bid the work.

3.1.25 BMP C162: Scheduling

3.1.25.1 Purpose

Sequencing a construction project reduces the amount and duration of soil exposed to erosion by wind, rain, runoff, and vehicle tracking.

3.1.25.2 Conditions of Use

The construction sequence schedule is an orderly listing of all major land-disturbing activities together with the necessary erosion and sedimentation control measures planned for the project.

This type of schedule guides the contractor on work to be done before other work is started so serious erosion and sedimentation problems can be avoided.

Following a specified work schedule that coordinates the timing of land-disturbing activities and the installation of control measures is perhaps the most cost-effective way of controlling erosion during construction. The removal of surface ground cover leaves a site vulnerable to accelerated erosion. Construction procedures that limit land clearing, provide timely installation of erosion and sedimentation controls, and restore protective cover quickly can significantly reduce the erosion potential of a site.

3.1.25.3 Design Considerations

- Minimize construction during rainy periods.
- Schedule projects to disturb only small portions of the site at any one time. Complete grading as soon as possible. Immediately stabilize the disturbed portion before grading the next portion. Practice staged seeding in order to revegetate cut and fill slopes as the work progresses.

3.2.11 BMP C220: Storm Drain Inlet Protection**3.2.11.1 Purpose**

To prevent coarse sediment from entering drainage systems prior to permanent stabilization of the disturbed area.

3.2.11.2 Conditions of Use

- Where storm drain inlets are to be made operational before permanent stabilization of the disturbed drainage area.
- Provide protection for all storm drain inlets downslope and within 500 feet of a disturbed or construction area, unless the runoff that enters the catch basin will be conveyed to a sediment pond or trap. Inlet protection may be used anywhere to protect the drainage system. It is likely that the drainage system will still require cleaning.
- Table 2 - 11 lists several options for inlet protection. All of the methods for storm drain inlet protection are prone to plugging and require a high frequency of maintenance. Drainage areas should be limited to 1 acre or less. Emergency overflows may be required where stormwater ponding would cause a hazard. If an emergency overflow is provided, additional end-of-pipe treatment may be required.
- Only bag filter type catch basin filters (per Section 3.2.11.3) are allowed within the right of way.

Table 2 - 11: Storm Drain Inlet Protection

Type of Inlet Protection	Emergency Overflow	Applicable for Paved/Earthen Surfaces	Conditions of Use
Excavated drop inlet protection	Yes, temporary flooding will occur	Earthen	Applicable for heavy flows. Easy to maintain. Large area requirement: 30' x 30' per acre.
Block and gravel drop filter	Yes	Paved or earthen	Applicable for heavy concentrated flows. Will not pond.
Gravel and mesh filter	No	Paved	Applicable for heavy concentrated flows. Will pond. Can withstand traffic.
Catch basin filters	Yes	Paved or earthen	Frequent maintenance required.
Curb inlet protection with a wooden weir	Small capacity overflow	Paved	Used for sturdy, more compact installation.
Block and gravel curb inlet protection	Yes	Earthen	Sturdy, but limited filtration.
Culvert inlet sediment trap			18-month expected life.

3.2.11.3 Design and Installation Specifications**Excavated Drop Inlet Protection**

- An excavated impoundment around the storm drain. Sediment settles out of the stormwater prior to entering the storm drain.

- Provide depth of 1 to 2 feet, as measured from the crest of the inlet structure.
- Slope sides of excavation no steeper than 2H:1V.
- Minimum volume of excavation 35 cubic yards.
- Shape basin to fit site with longest dimension oriented toward the longest inflow area.
- Install provisions for draining to prevent standing water problems.
- Clear the area of all debris.
- Grade the approach to the inlet uniformly.
- Drill weep holes into the side of the inlet.
- Protect weep holes with screen wire and washed aggregate.
- Seal weep holes when removing structure and stabilizing area.
- It may be necessary to build a temporary dike to the down slope side of the structure to prevent bypass flow.

Block and Gravel Filter

- A barrier formed around the storm drain inlet with standard concrete blocks and gravel. See Figure 2 - 18.
- Provide a height 1 to 2 feet above inlet.
- Recess the first row 2 inches into the ground for stability.
- Support subsequent courses by placing a piece of 2x4 lumber through the block opening.
- Do not use mortar.
- Lay some blocks in the bottom row on their side for dewatering the pool.
- Place hardware cloth or comparable wire mesh with ½-inch openings over all block openings.
- Place gravel just below the top of blocks on slopes of 2H:1V or flatter.
- An alternative design is a gravel donut.
- Provide an inlet slope of 3H:1V.
- Provide an outlet slope of 2H:1V.
- Provide a 1-foot wide level stone area between the structure and the inlet.
- Use inlet slope stones 3 inches in diameter or larger.
- For outlet slope use gravel ½- to ¾-inch at a minimum thickness of 1-foot.

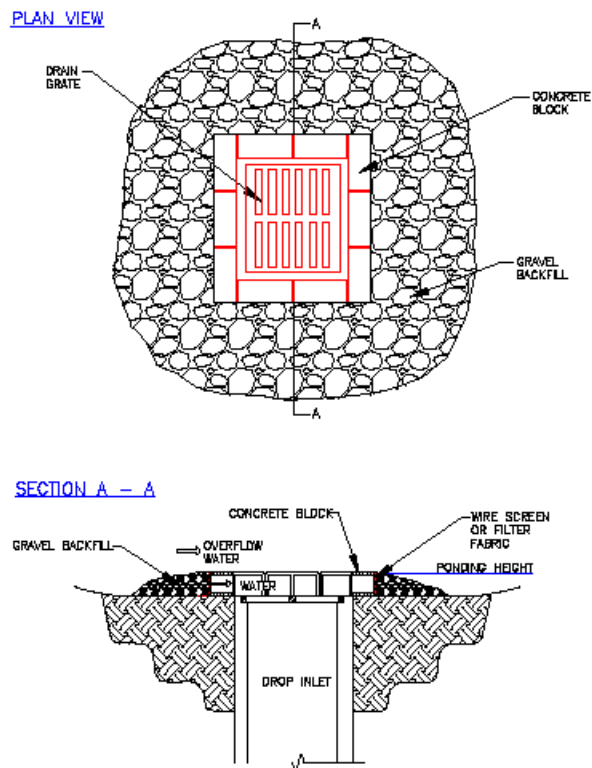
Gravel and Wire Mesh Filter

- A gravel barrier placed over the top of the inlet (see Figure 2 - 19). This structure does not provide an overflow.
- Use hardware cloth or comparable wire mesh with ½-inch openings.
- Use coarse aggregate.
- Place wire mesh over the drop inlet so that the wire extends a minimum of 1-foot beyond each side of the inlet structure.
- If more than one strip of mesh is necessary, overlap the strips.

- Place coarse aggregate over the wire mesh.
- The depth of the gravel should be at least 12 inches over the entire inlet opening and extend at least 18 inches on all sides.

Catchbasin Filters

- Inserts (Figure 2 - 20) shall be designed by the manufacturer for use at construction sites. The limited sediment storage capacity increases the frequency of inspection and maintenance required, which may be daily for heavy sediment loads. The maintenance requirements can be reduced by combining a catchbasin filter with another type of inlet protection. This type of inlet protection provides flow bypass without overflow and therefore may be a better method for inlets located along active rights-of-way.
- Provide a minimum of 5 cubic feet of storage.
- Requires dewatering provisions.
- Provide a high-flow bypass that will not clog under normal use at a construction site.
- The catchbasin filter is inserted in the catchbasin just below the grating.
- Only bag filter type catch basin filters are allowed in the City right-of-way.



NOTE:
 1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
 2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE INLET.
 3. THE TOP OF THE STRUCTURE (POND HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

Figure 2 - 18. Drop Inlet with Block and Gravel Filter

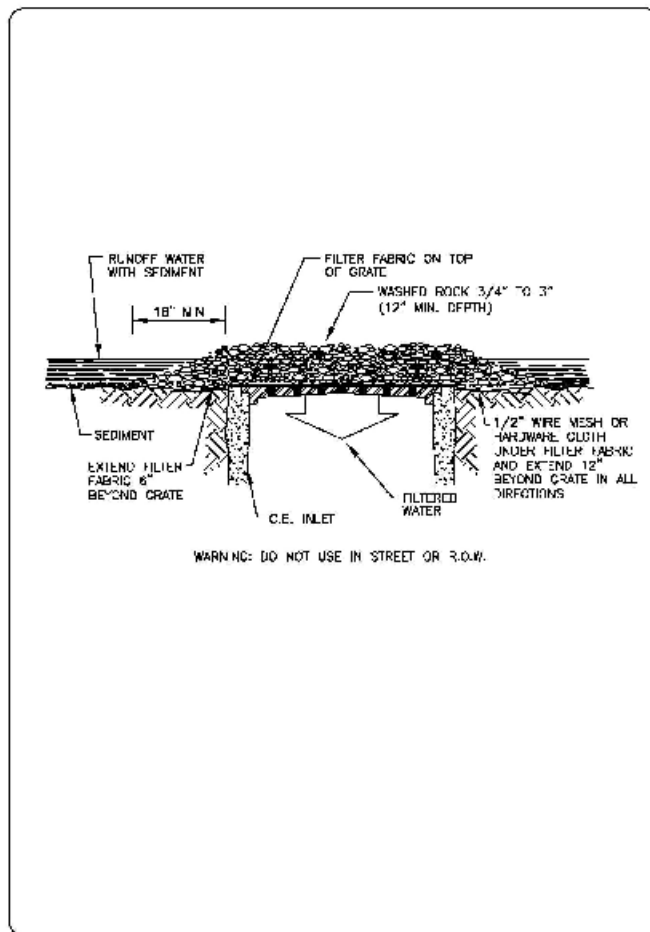


Figure 2 - 19. Gravel and Wire Mesh Filter

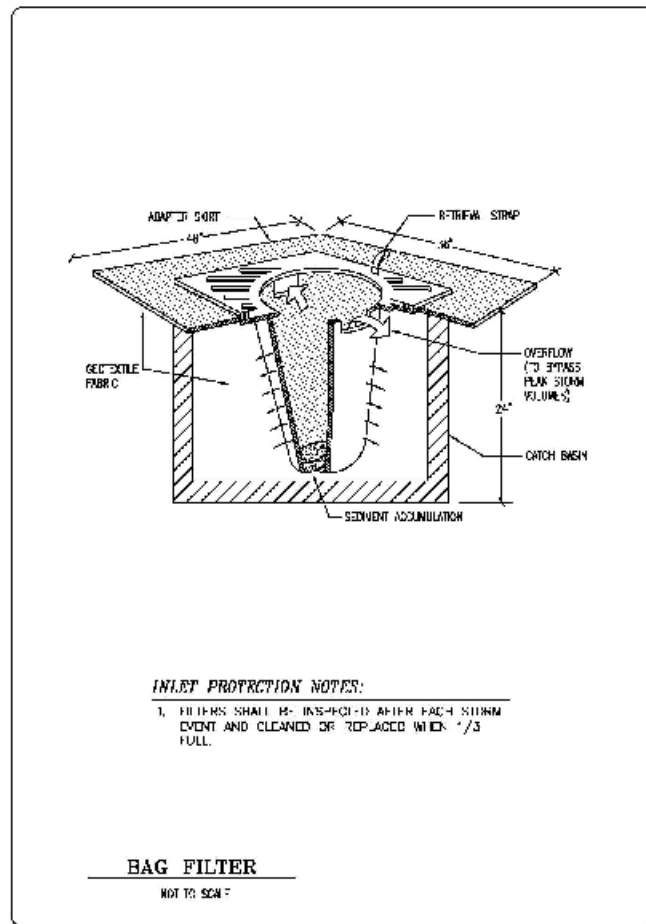


Figure 2 - 20. Catchbasin Filter

Curb Inlet Protection with Wooden Weir

Barrier formed around a curb inlet with a wooden frame and gravel.

- Use wire mesh with ½-inch openings.
- Use extra strength filter cloth.
- Construct a frame.
- Attach the wire and filter fabric to the frame.
- Pile coarse washed aggregate against the wire and fabric..
- Place weight on frame anchors.

Block and Gravel Curb Inlet Protection

Barrier formed around an inlet with concrete blocks and gravel. See Figure 2 - 21.

- Use wire mesh with ½-inch openings.
- Place two concrete blocks on their sides abutting the curb at either side of the inlet opening. These are spacer blocks.
- Place a 2x4 stud through the outer holes of each spacer block to align the front blocks.
- Place blocks on their sides across the front of the inlet and abutting the spacer blocks.
- Place wire mesh over the outside vertical face.
- Pile coarse aggregate against the wire to the top of the barrier.

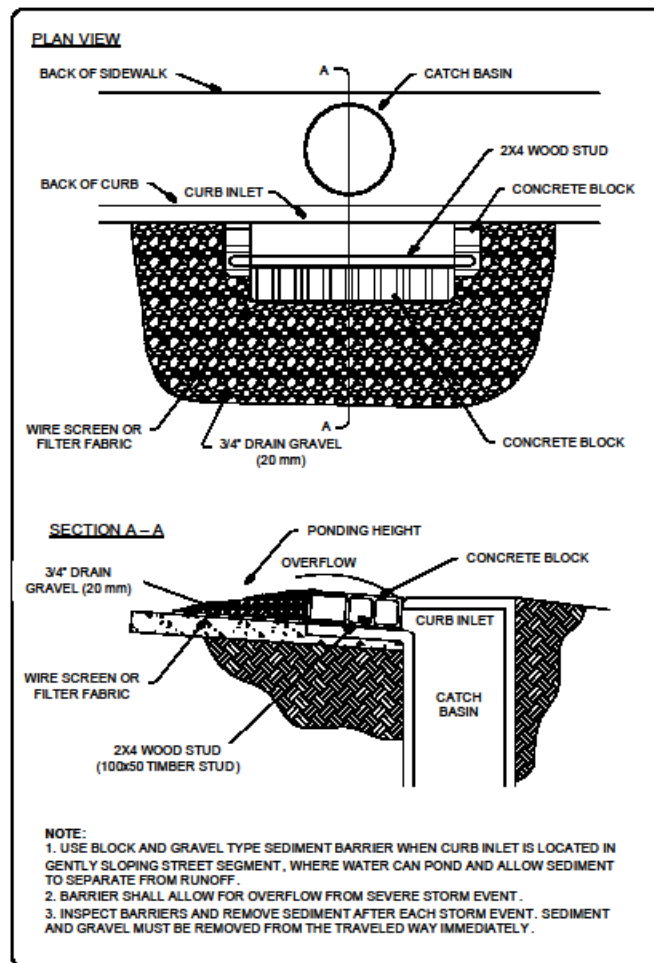


Figure 2 - 21. Block and Gravel Curb Inlet Protection

Curb and Gutter Sediment Barrier

Sandbag or rock berm (riprap and aggregate) 3 feet high and 3 feet wide in a horseshoe shape. See Figure 2 - 22.

- Construct a horseshoe shaped berm, faced with coarse aggregate if using riprap, 3 feet high and 3 feet wide, at least 2 feet from the inlet.
- Construct a horseshoe shaped sedimentation trap on the outside of the berm sized to sediment trap standards for protecting a culvert inlet.
- Sandbag must be gravel filled.

3.2.11.4 Maintenance Standards

- Inspect catch basin filters frequently, especially after storm events. If the insert becomes clogged, clean or replace it.
- For systems using stone filters: If the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill and put fresh stone around the inlet.
- Do not wash sediment into storm drains while cleaning. Spread all excavated material evenly over the surrounding land area or stockpile and stabilize as appropriate.
- Do not allow accumulated sediment to enter the storm drain system.
- Inlet protection shall be removed when area is fully stabilized and erosion and sediment controls are no longer needed.

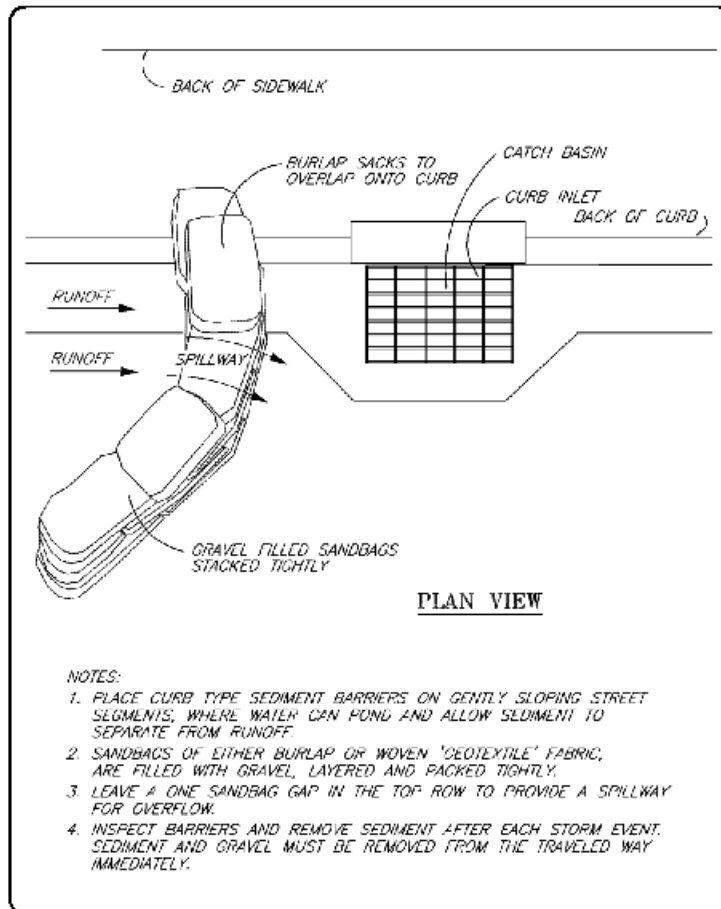


Figure 2 - 22. Curb and Gutter Sediment Barrier

- Every 100 feet on slopes greater than 10 percent
- Berm dimensions:
 - 1 foot high with 3:1 side slopes
 - 8 linear feet per 1 cubic foot per second runoff based on the 10-year, 24-hour design storm event assuming a Type 1A rainfall distribution (3.0-inches)

3.2.13.4 Maintenance Standards

Regular inspection is required. Remove sediment and replace filter material as needed.

3.2.14 BMP C233: Silt Fence

3.2.14.1 Purpose

Use of a silt fence reduces the transport of coarse sediment from a construction site by providing a temporary physical barrier to sediment and reducing the runoff velocities of overland flow. See Figure 2 - 24 for details on silt fence construction.

3.2.14.2 Conditions of Use

- Silt fence may be used downslope of all disturbed areas.
- Silt fence shall prevent soil carried by runoff water from going beneath, through, or over the top of the silt fence, but shall allow the water to pass through the fence.
- Silt fence is not intended to treat concentrated flows, nor is it intended to treat substantial amounts of overland flow. Convey any concentrated flows through the drainage system to a sediment pond. The only circumstance in which overland flow can be treated solely by a silt fence is when the area draining to the fence is one acre or less and flow rates are less than 0.5 cfs.
- Do not construct silt fences in streams or use them in V-shaped ditches. They are not an adequate method of silt control for anything deeper than sheet or overland flow.

3.2.14.3 Design and Installation Specifications

- Drainage area of 1 acre or less or in combination with appropriate sediment removal BMPs on larger sites.
- Maximum slope steepness (perpendicular to fence line) 1H:1V.
- Maximum sheet or overland flowpath length to the fence of 100 feet.
- No flows greater than 0.5 cubic feet per second.

- The geotextile used shall meet the following standards. All geotextile properties listed below are minimum average roll values (i.e., the test result for any sampled roll in a lot shall meet or exceed the values shown in Table 2 - 12).

Table 2 - 12: Geotextile Standards

Standard	Description
Polymeric Mesh AOS (ASTM D4751)	0.60 mm maximum for silt film wovens (#30 sieve). 0.30 mm maximum for all other geotextile types (#50 sieve). 0.15 mm minimum for all fabric types (#100 sieve).
Water Permittivity (ASTM D4491)	0.02 sec ⁻¹ minimum
Grab Tensile Strength (ASTM D4632)	180 lbs. minimum for extra strength fabric. 100 lbs. minimum for standard strength fabric.
Grab Tensile Strength (ASTM D4632)	30% maximum
Ultraviolet Resistance (ASTM D4355)	70% minimum

- Support standard strength fabrics with wire mesh, chicken wire, 2-inch x 2-inch wire, safety fence, or jute mesh to increase the strength of the fabric. Silt fence materials are available that have synthetic mesh backing attached.
- Silt fence material shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life at a temperature range of 0° to 120° Fahrenheit.
- 100 percent biodegradable silt fence is available that is strong and long lasting.
- The following are standard design and installation methods. Refer to Figure 2 - 24 for standard silt fence details.
 - Install and maintain temporary silt fences at the locations shown in the plans. Install the silt fences in the areas of clearing, grading, or drainage prior to starting those activities. Do not consider a silt fence temporary if the silt fence must function beyond the life of the contract. The silt fence shall prevent soil carried by runoff water from going beneath, through, or over the top of the silt fence, but shall allow the water to pass through the fence.
 - The minimum height of the top of silt fence shall be 2 feet and the maximum height shall be 2½ feet above the original ground surface.
 - Sew the silt fence fabric together at the point of manufacture, or at an approved location as determined by the Engineer, to form lengths as required. Locate all sewn seams at a support post. Alternatively, two sections of silt fence can be overlapped, provided the Contractor can demonstrate, to the satisfaction of the Engineer, that the overlap is long enough and adjacent fence sections are close enough together to prevent silt laden water from escaping through the fence at the overlap.
 - Attach the silt fence fabric on the up-slope side of the posts and support system with staples, wire, or in accordance with the manufacturer's recommendations. Attach the silt fence fabric to the posts in a manner that reduces the potential for geotextile tearing at the staples, wire, or other connection device. Silt fence back-up support for the fabric in the form of a wire or plastic mesh is dependent on the properties of the fabric selected for use. If wire or plastic back-up mesh is used, fasten the mesh

securely to the up-slope of the posts with the fabric being up-slope of the mesh back-up support.

- Bury the fabric at the bottom of the fence in a trench to a minimum depth of 4 inches below the ground surface. Backfill the trench and tamp the soil in place over the buried portion of the fabric, such that no flow can pass beneath the fence and scouring can not occur. When wire or polymeric back-up support mesh is used, the wire or polymeric mesh shall extend into the trench a minimum of 3 inches.
- Drive fence posts in to a minimum depth of 18 inches. A minimum depth of 12 inches is allowed if topsoil or other soft subgrade soil is not present and a minimum depth of 18 inches cannot be reached. Increase fence post depths by 6 inches if the fence is located on slopes of 3H:1V or steeper and the slope is perpendicular to the fence. If required post depths cannot be obtained, adequately secure the posts by bracing or guying to prevent overturning of the fence due to sediment loading.
- Locate the silt fences on contour as much as possible, except at the ends of the fence, where the fence shall be turned uphill such that the silt fence captures the runoff water and prevents water from flowing around the end of the fence.
- If the fence must cross contours, with the exception of the ends of the fence, place gravel check dams perpendicular to the back of the fence to minimize concentrated flow and erosion along the back of the fence. The gravel check dams shall be approximately 1-foot deep at the back of the fence and be perpendicular to the fence at the same elevation until the top of the check dam intercepts the ground surface behind the fence. The gravel check dams shall consist of crushed surfacing base course, gravel backfill for walls, or shoulder ballast. Locate the gravel check dams every 10 feet along the fence where the fence must cross contours. The slope of the fence line where contours must be crossed shall not be steeper than 3H:1V.
- Use wood, steel or equivalent posts. Wood posts shall have minimum dimensions of 2 inches by 2 inches, minimum by 3 feet minimum length, and shall be free of defects such as knots, splits, or gouges. Steel posts shall consist of either size No. 6 rebar or larger; ASTM A120 steel pipe with a minimum diameter of 1-inch; U, T, L, or C shape steel posts with a minimum weight of 1.35 pounds per foot; or other steel posts having equivalent strength and bending resistance to the post sizes listed. The spacing of the support posts shall be a maximum of 6 feet.
- Fence back-up support, if used, shall consist of steel wire with a maximum mesh spacing of 2 inches, or a prefabricated polymeric mesh. The strength of the wire or polymeric mesh shall be equivalent to or greater than 180 pounds grab tensile strength. The polymeric mesh must be as resistant to ultraviolet radiation as the geotextile it supports.
- Specification details for silt fence installation using the slicing method follow. Refer to Figure 2 - 25 for slicing method details.
 - The base of both end posts must be at least 2 to 4 inches above the top of the silt fence fabric on the middle posts for ditch checks to drain properly. Use a hand level or string level, if necessary, to mark base points before installation.
 - Install posts 3 to 4 feet apart in critical retention areas and a maximum of 6 feet apart in standard applications. If wire backing is used, post spacing may be increased to 8-foot maximum.

- Install posts 24 inches deep on the downstream side of the silt fence, and as close as possible to the fabric, enabling posts to support the fabric from upstream water pressure.
- Install posts with the nipples facing away from the silt fence fabric.
- Attach the fabric to each post with three ties, all spaced within the top 8 inches of the fabric. Attach each tie diagonally 45 degrees through the fabric, with each puncture at least 1 inch vertically apart. In addition, each tie should be positioned to hang on a post nipple when tightening to prevent sagging.
- Wrap approximately 6 inches of fabric around the end posts and secure with 3 ties.
- No more than 24 inches of a 36-inch fabric is allowed above ground level.
- The installation should be checked and corrected for any deviation before compaction. Use a flat-bladed shovel to tuck fabric deeper into the ground, if necessary.
- Compaction is vitally important for effective results. Compact the soil immediately next to the silt fence fabric with the front wheel of a tractor, skid steer, or roller exerting at least 60 pounds per square inch. Compact the upstream side first and then each side twice for a total of four trips.

3.2.14.4 Maintenance Standards

- Repair any damage immediately.
- If concentrated flows are evident uphill of the fence, intercept and convey them to a sediment pond.
- It is important to check the uphill side of the fence for signs of the fence clogging, acting as a barrier to flow, and then causing channelization of flows parallel to the fence. If this occurs, replace the fence or remove the trapped sediment.
- Remove sediment deposits when the deposit reaches approximately one-third the height of the silt fence, or install a second silt fence.
- If the filter fabric (geotextile) has deteriorated due to ultraviolet breakdown, replace it.

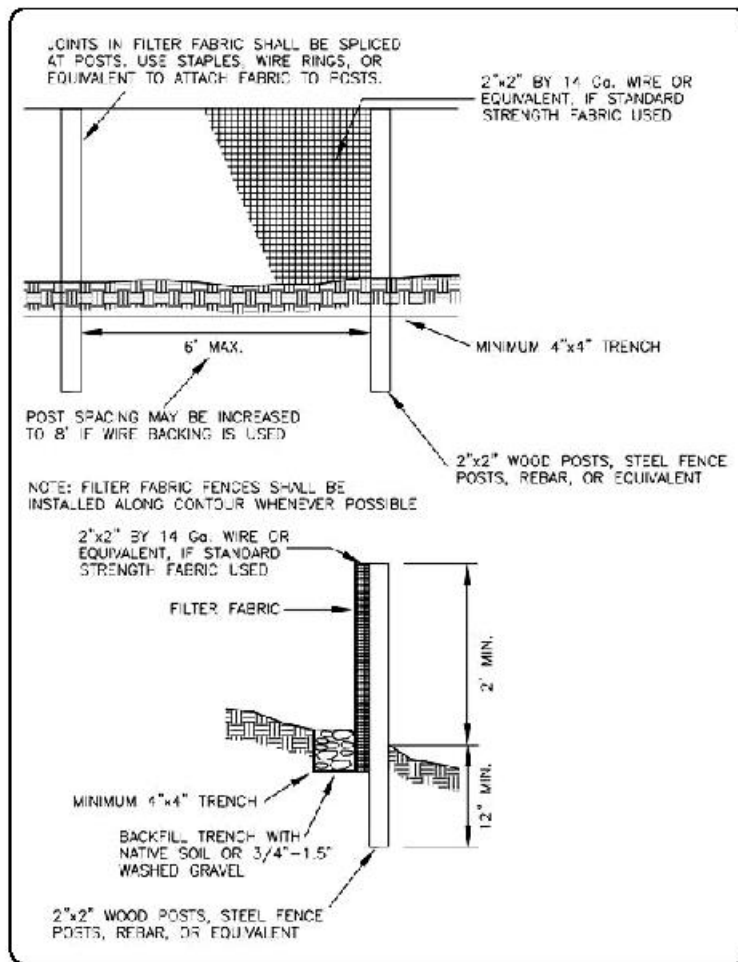


Figure 2 - 24. Silt Fence

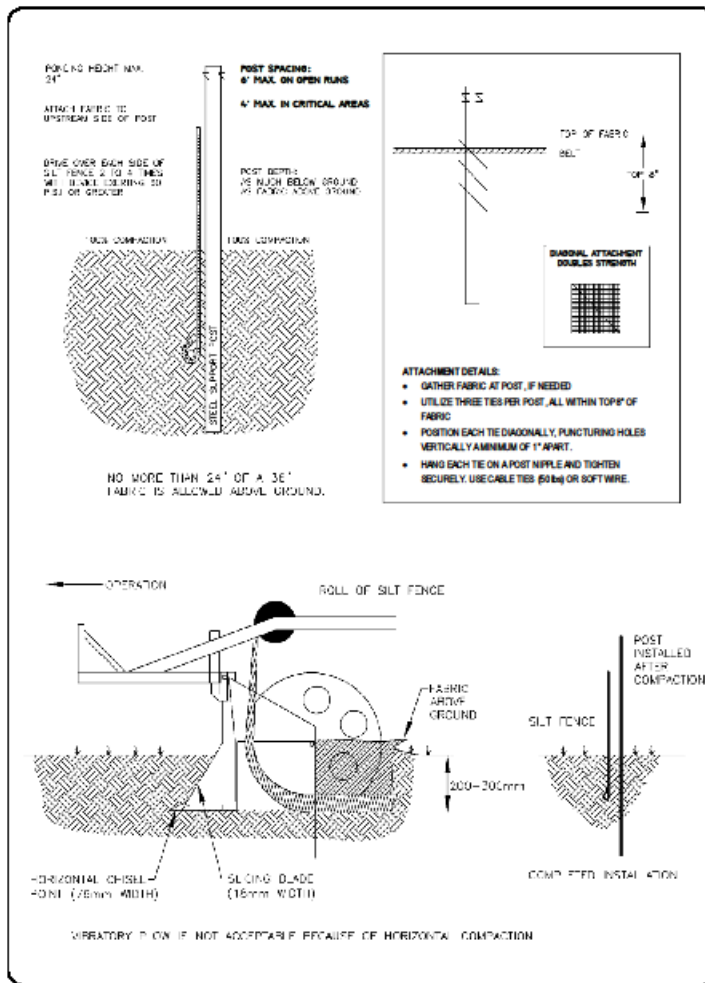


Figure 2 - 25. Silt Fence Installation by Slicing

PART IV

FEDERAL WAGE RATES

"General Decision Number: WA20200001 09/11/2020

Superseded General Decision Number: WA20190001

State: Washington

Construction Type: Highway

Counties: Washington Statewide.

HIGHWAY (Excludes D.O.E. Hanford Site in Benton and Franklin Counties)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	02/14/2020
2	02/28/2020
3	03/06/2020
4	03/13/2020
5	05/01/2020
6	07/03/2020
7	07/10/2020
8	07/24/2020
9	08/07/2020
10	08/14/2020
11	09/11/2020

CARP0003-006 06/01/2018

SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLUCKITAT, LEWIS(Piledriver only), PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to Willapa Bay to the Pacific Ocean), SKAMANIA, and WAHIAKUM Counties.

	Rates	Fringes
Carpenters:		
CARPENTERS.....	\$ 37.64	16.83
DIVERS TENDERS.....	\$ 43.73	16.83
DIVERS.....	\$ 87.73	16.83
DRYWALL.....	\$ 37.64	16.83
MILLWRIGHTS.....	\$ 38.17	16.83
PILEDRIERS.....	\$ 38.71	16.83

DEPTH PAY:

50 TO 100 FEET \$1.00 PER FOOT OVER 50 FEET
 101 TO 150 FEET \$1.50 PER FOOT OVER 101 FEET
 151 TO 200 FEET \$2.00 PER FOOT OVER 151 FEET

Zone Differential (Add up Zone 1 rates):

Zone 2 - \$0.85
 Zone 3 - 1.25
 Zone 4 - 1.70
 Zone 5 - 2.00
 Zone 6 - 3.00

BASEPOINTS: ASTORIA, LONGVIEW, PORTLAND, THE DALLES, AND VANCOUVER, (NOTE: All dispatches for Washington State Counties: Cowlitz, Wahkiakum and Pacific shall be from Longview Local #1707 and mileage shall be computed from that point.)

ZONE 1: Projects located within 30 miles of the respective city hall of the above mentioned cities
 ZONE 2: Projects located more than 30 miles and less than 40 miles of the respective city of the above mentioned cities
 ZONE 3: Projects located more than 40 miles and less than 50 miles of the respective city of the above mentioned cities
 ZONE 4: Projects located more than 50 miles and less than 60 miles of the respective city of the above mentioned cities.
 ZONE 5: Projects located more than 60 miles and less than 70 miles of the respective city of the above mentioned cities
 ZONE 6: Projects located more than 70 miles of the respected city of the above mentioned cities

CARP0030-004 06/01/2019

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM Counties

	Rates	Fringes
CARPENTER		
BRIDGE CARPENTERS.....	\$ 45.92	16.52
CARPENTERS ON CREOSOTE MATERIAL.....	\$ 46.02	16.52
CARPENTERS.....	\$ 45.92	16.52
DIVERS TENDER.....	\$ 50.79	16.52
DIVERS.....	\$ 99.68	16.52
MILLWRIGHT AND MACHINE ERECTORS.....	\$ 47.42	16.52
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED MATERIAL, ALL PILING.....	\$ 46.17	16.52

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

 CARP0059-002 06/01/2019

ADAMS, ASOTIN, BENTON, CHELAN (East of 120th meridian),
 COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT (East of
 120th meridian), KITTITAS (East of 120th meridian), LINCOLN,
 OKANOGAN (East of 120th meridian), PEND OREILLE, SPOKANE,
 STEVENS, WALLA WALLA, WHITMAN, and YAKIMA (East of 120th
 meridian) Counties

	Rates	Fringes
CARPENTER		
GROUP 1.....	\$ 35.47	16.88
GROUP 2.....	\$ 47.42	18.96
GROUP 3.....	\$ 36.66	16.88
GROUP 4.....	\$ 36.66	16.88
GROUP 5.....	\$ 83.96	16.88
GROUP 6.....	\$ 40.23	16.88
GROUP 7.....	\$ 41.23	16.88
GROUP 8.....	\$ 37.66	16.88
GROUP 9.....	\$ 44.23	16.88

CARPENTER & DIVER CLASSIFICATIONS:

GROUP 1: Carpenter

GROUP 2: Millwright, Machine Erector

GROUP 3: Piledriver - includes driving, pulling, cutting,
 placing collars, setting, welding, or creosote treated
 material, on all piling

GROUP 4: Bridge, Dock, and Wharf carpenters

GROUP 5: Diver Wet

GROUP 6: Diver Tender, Manifold Operator, ROV Operator

GROUP 7: Diver Standby

GROUP 8: Assistant Diver Tender, ROV Tender/Technician

GROUP 9: Manifold Operator-Mixed Gas

ZONE PAY:

ZONE 1	0-45 MILES	FREE
ZONE 2	45-100	\$4.00/PER HOUR
ZONE 3	OVER 100 MILES	\$6.00/PER HOUR

DISPATCH POINTS:

CARPENTERS/MILLWRIGHTS: PASCO (515 N Neel Street) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS/PILEDRIIVER: SPOKANE (127 E. AUGUSTA AVE.) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: WENATCHEE (27 N. CHELAN) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: COEUR D' ALENE (1839 N. GOVERNMENT WAY) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: MOSCOW (306 N. JACKSON) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

DEPTH PAY FOR DIVERS BELOW WATER SURFACE:

50-100 feet \$2.00 per foot
 101-150 feet \$3.00 per foot
 151-220 feet \$4.00 per foot
 221 feet and deeper \$5.00 per foot

PREMIUM PAY FOR DIVING IN ENCLOSURES WITH NO VERTICAL ASCENT:

0-25 feet Free
 26-300 feet \$1.00 per Foot

SATURATION DIVING:

The standby rate applies until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. the diver rate shall be paid for all saturation hours.

WORK IN COMBINATION OF CLASSIFICATIONS:

Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

HAZMAT PROJECTS:

Anyone working on a HAZMAT job (task), where HAZMAT certification is required, shall be compensated at a premium, in addition to the classification working in as follows:

LEVEL D + \$.25 per hour - This is the lowest level of protection. No respirator is used and skin protection is minimal.

LEVEL C + \$.50 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B + \$.75 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit".

LEVEL A +\$1.00 per hour - This level utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line.

CARP0770-003 06/01/2019

WEST OF 120TH MERIDIAN FOR THE FOLLOWING COUNTIES:
CHELAN, DOUGLAS, GRANT, KITTITAS, OKANOGAN, and YAKIMA

	Rates	Fringes
CARPENTER		
CARPENTERS ON CREOSOTE		
MATERIAL.....	\$ 46.02	16.52
CARPENTERS.....	\$ 45.92	16.52
DIVERS TENDER.....	\$ 50.79	16.52
DIVERS.....	\$ 99.68	16.52
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 47.42	16.52
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 46.17	16.52

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL
CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS

Hourly Zone Pay shall be paid on jobs located outside of the
free zone computed from the city center of the following
listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:	
0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

* ELEC0046-001 08/03/2020

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 59.91	3%+21.46
ELECTRICIAN.....	\$ 58.78	3%+22.51

* ELEC0048-003 01/01/2020

CLARK, KLICKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 47.85	24.41

HOURLY ZONE PAY:

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Portland, The Dalles, Hood River, Tillamook, Seaside and Astoria

Zone Pay:

Zone 1: 31-50 miles	\$1.50/hour
Zone 2: 51-70 miles	\$3.50/hour
Zone 3: 71-90 miles	\$5.50/hour
Zone 4: Beyond 90 miles	\$9.00/hour

*These are not miles driven. Zones are based on Delorme Street Atlas USA 2006 plus.

ELEC0048-029 01/01/2020

COWLITZ AND WAHAKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 47.85	24.41

 ELEC0073-001 01/01/2020

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN
 COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 34.10	16.68
ELECTRICIAN.....	\$ 36.05	19.23

ELEC0076-002 08/31/2018

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON
 COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 48.06	23.23
ELECTRICIAN.....	\$ 43.69	23.10

ELEC0112-005 06/01/2019

ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA
 WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 48.35	21.13
ELECTRICIAN.....	\$ 46.05	21.06

ELEC0191-003 06/01/2020

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.23	17.73
ELECTRICIAN.....	\$ 47.95	26.16

ELEC0191-004 06/01/2018

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 40.82	17.63
ELECTRICIAN.....	\$ 42.45	21.34

ENGI0302-003 06/01/2020

CHELAN (WEST OF THE 120TH MERIDIAN), CLALLAM, DOUGLAS (WEST OF THE 120TH MERIDIAN), GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, KITTITAS, MASON, OKANOGAN (WEST OF THE 120TH MERIDIAN), SAN JUNA, SKAGIT, SNOHOMISH, WHATCOM AND YAKIMA (WEST OF THE 120TH MERIDIAN) COUNTIES

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1A.....	\$ 48.41	22.47
Group 1AA.....	\$ 49.13	22.47
Group 1AAA.....	\$ 49.83	22.47
Group 1.....	\$ 47.70	22.47
Group 2.....	\$ 47.08	22.47
Group 3.....	\$ 46.55	22.47
Group 4.....	\$ 43.54	22.47

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) - \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent, Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton, Wenatchee, Yakima

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom (including jib with attachments); Tower crane over 175 ft in height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self propelled 45 yards and over; Slipform pavers; Transporters, all truck or track type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-overhead, bridge type-20 tons through 44 tons; Chipper; Concrete Pump-truck mount with boom attachment; Crusher; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel, backhoe-3yards and under; Finishing Machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders-overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor patrol graders-finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barber Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrade trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blaw knox-roadtec; Truck crane oiler/driver-100 tons and over; Truck Mount portable conveyor; Yo Yo Pay dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; A-frame crane over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrapers-concrete and carry-all; Service engineer-equipment; Trenching machines; Truck Crane Oiler/Driver under 100 tons; Tractors, backhoe 75 hp and under

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete finish machine-laser screed; Cranes-A frame-10 tons and under; Elevator and Manlift-permanent or shaft type; Gradechecker, Stakehop; Forklifts under 3000 lbs. with attachments; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger, mechanical; Power plant; Pumps, water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

HANDLING OF HAZARDOUS WASTE MATERIALS:

Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing

H-2 Class "C" Suit - Base wage rate plus \$.25 per hour.

H-3 Class "B" Suit - Base wage rate plus \$.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$.75 per hour.

 ENGI0370-002 07/01/2019

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN), COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 28.46	17.25
GROUP 2.....	\$ 28.78	17.25
GROUP 3.....	\$ 29.39	17.25
GROUP 4.....	\$ 29.55	17.25
GROUP 5.....	\$ 29.71	17.25
GROUP 6.....	\$ 29.99	17.25
GROUP 7.....	\$ 30.26	17.25
GROUP 8.....	\$ 31.36	17.25

ZONE DIFFERENTIAL (Add to Zone 1 rate): Zone 2 - \$2.00

Zone 1: Within 45 mile radius of Spokane, Pasco, Washington; Lewiston, Idaho

Zone 2: Outside 45 mile radius of Spokane, Pasco, Washington; Lewiston, Idaho

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors (under 2000 CFM, gas, diesel, or electric power); Deck Hand; Fireman & Heater Tender; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine; Crane Oiler-Driver (CLD required) & Cable Tender, Mucking Machine

GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom; Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad Tamper Jack Operator (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton); Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat (Skid Steer); Boring Machine (earth); Boring Machine (rock under 8 inch bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumora, Adams or similar); Generator Plant Engineers (diesel or electric); Gunnite Combination Mixer & Compressor; Locomotive Engineer; Mixermobile; Mucking Machine; Posthole Auger or Punch; Pump (grout or jet); Soil Stabilizer (P & H or similar); Spreader Machine; Dozer/Tractor (up to D-6 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pump-crete, Whitman & similar); Curb Extruder (asphalt or concrete); Drills (churn, core, calyx or diamond); Equipment Serviceman; Greaser & Oiler; Hoist (2 or more drums or Tower Hoist); Loaders (overhead & front-end, under 4 yds. R/T); Refrigeration Plant Engineer (under 1000 ton); Rubber-tired Skidders (R/T with or without attachments); Surface Heater & Plant Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead (with re-screening); Vacuum Drill (reverse circulation drill under 8 inch bit)

GROUP 5: Backhoe (under 45,000 gw); Backhoe & Hoe Ram (under 3/4 yd.); Carrydeck & Boom Truck (under 25 tons); Cranes (25 tons & under), all attachments including clamshell, dragline; Derricks & Stifflegs (under 65 tons); Drilling Equipment (8 inch bit & over) (Robbins, reverse circulation & similar); Hoe Ram; Piledriving Engineers; Paving (dual drum); Railroad Track Liner Operator (self-propelled); Refrigeration Plant Engineer (1000 tons & over); Signalman (Whirleys, Highline Hammerheads or similar); Grade Checker

GROUP 6: Asphalt Plant Operator; Automatic Subgrader (Ditches & Trimmers) (Autograde, ABC, R.A. Hansen & similar on grade wire); Backhoe (45,000 gw and over to 110,000 gw); Backhoes & Hoe Ram (3/4 yd. to 3 yd.); Batch Plant (over 4 units); Batch & Wet Mix Operator (multiple units, 2 & incl. 4); Blade Operator (motor patrol & attachments); Cable Controller (dispatcher); Compactor (self-propelled with blade); Concrete Pump Boom Truck; Concrete Slip Form Paver; Cranes (over 25 tons, to and including 45 tons), all attachments including clamshell, dragline; Crusher, Grizzle & Screening Plant Operator; Dozer, 834 R/T & similar; Drill Doctor; Loader Operator (front-end & overhead, 4 yds. incl. 8 yds.); Multiple Dozer Units with single blade; Paving Machine (asphalt and concrete); Quad-Track or similar equipment; Rollerman (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed Operator; Shovel (under 3 yds.); Trenching Machines (7 ft. depth & over); Tug Boat Operator Vactor guzzler, super sucker; Lime Batch Tank Operator (REcycle Train); Lime Brain Operator (Recycle Train); Mobile Crusher Operator (Recycle Train)

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yds & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragline; Derricks & Stiffleys (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yds. & over); Whirleys & Hammerheads, ALL; H.D. Mechanic; H.D. Welder; Hydraulic Platform Trailers (Goldhofer, Shaurerly and Similar); Ultra High Pressure Waterjet Cutting Tool System Operator (30,000 psi); Vacuum Blasting Machine Operator

GROUP 8: Cranes (85 tons and over, and all climbing, overhead, rail and tower), all attachments including clamshell, dragline; Loaders (overhead and front-end, 10 yards and over); Helicopter Pilot

BOOM PAY: (All Cranes, Including Tower)
 180 ft to 250 ft \$.50 over scale
 Over 250 ft \$.80 over scale

NOTE:

In computing the length of the boom on Tower Cranes, they shall be measured from the base of the Tower to the point of the boom.

HAZMAT:

Anyone working on HAZMAT jobs, working with supplied air shall receive \$1.00 an hour above classification.

 ENGI0612-001 09/28/2018

PIERCE County

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1A.....	\$ 44.44	19.97
GROUP 1AA.....	\$ 45.09	19.97
GROUP 1AAA.....	\$ 45.73	19.97
GROUP 1.....	\$ 43.79	19.97
GROUP 2.....	\$ 43.23	19.97
GROUP 3.....	\$ 42.74	19.97
GROUP 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in
height, base to boom)

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge
type, 100 tons and over; Tower crane up to 175 ft in height
base to boom; Loaders-overhead, 8 yards and over; Shovels,
excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft
of boom (including jib with attachments); Crane-overhead,
bridge type, 45 tons thru 99 tons; Derricks on building
work; Excavator, shovel, backhoes over 3 yards and under 6
yards; Hard tail end dump articulating off-road equipment
45 yards and over; Loader- overhead, 6 yards to, but not
including, 8 yards; Mucking machine, mole, tunnel, drill
and/or shield; Quad 9 HD 41, D-10; Remote control operator
on rubber tired earth moving equipment; Rollagon; Scrapers-
self-propelled 45 yards and over; Slipform pavers;
Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-
concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with
attachments; Crane-Overhead, bridge type, 20 tons through
44 tons; Chipper; Concrete pump-truck mount with boom
attachment; Crusher; Deck engineer/deck winches (power);
Drilling machine; Excavator, shovel, backhoe-3 yards and
under; Finishing machine, Bidwell, Gamaco and similar
equipment; Guardrail punch; Loaders, overhead under 6
yards; Loaders-plant feed; Locomotives-all; Mechanics- all;
Mixers, asphalt plant; Motor patrol graders, finishing;
Piledriver (other than crane mount); Roto-mill, roto-
grinder; Screedman, spreader, topside operator-Blaw Knox,
Cedar Rapids, Jaeger, Caterpillar, Barber Green;
Scraper-self- propelled, hard tail end dump, articulating
off-road equipment- under 45 yards; Subgrader trimmer;
Tractors, backhoe over 75 hp; Transfer material service
machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane
oiler/driver-100 tons and over; Truck Mount Portable
Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing, Class "D" Suit - Base wage rate plus \$.50 per hour.

H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0612-012 09/28/2018

LEWIS, PACIFIC (portion lying north of a parallel line extending west from the northern boundary of Wahkaikum County to the sea) AND THURSTON COUNTIES

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1A.....	\$ 44.44	19.97
GROUP 1AA.....	\$ 45.09	19.97
GROUP 1AAA.....	\$ 45.73	19.97
GROUP 1.....	\$ 43.79	19.97
GROUP 2.....	\$ 43.23	19.97
GROUP 3.....	\$ 42.74	19.97
GROUP 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in height, base to boom)

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead, 6 yards to, but not including, 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9 HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self-propelled 45 yards and over; Slipform pavers; Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-Overhead, bridge type, 20 tons through 44 tons; Chipper; Concrete pump-truck mount with boom attachment; Crusher; Deck engineer/deck winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Loaders, overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics- all; Mixers, asphalt plant; Motor patrol graders, finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self- propelled, hard tail end dump, articulating off-road equipment- under 45 yards; Subgrader trimmer; Tractors, backhoe over 75 hp; Transfer material service machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane oiler/driver-100 tons and over; Truck Mount Portable Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

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H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0701-002 01/01/2018

CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHIAKUM COUNTIES

POWER EQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 41.65	14.35
GROUP 1A.....	\$ 43.73	14.35
GROUP 1B.....	\$ 45.82	14.35
GROUP 2.....	\$ 39.74	14.35
GROUP 3.....	\$ 38.59	14.35
GROUP 4.....	\$ 37.51	14.35
GROUP 5.....	\$ 36.27	14.35
GROUP 6.....	\$ 33.05	14.35

Zone Differential (add to Zone 1 rates):

Zone 2 - \$3.00

Zone 3 - \$6.00

For the following metropolitan counties: MULTNOMAH; CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA; CLARK; AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion Counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 on Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs or projects located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark & Cowlitz County, Washington except that portion of Cowlitz County in the Mt. St. Helens "Blast Zone" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE; GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1

Concrete Batch Plant and or Wet mix three (3) units or more; Crane, Floating one hundred and fifty (150) ton but less than two hundred and fifty (250) ton; Crane, two hundred (200) ton through two hundred ninety nine (299) ton with two hundred foot (200') boom or less (including jib, inserts and/or attachments); Crane, ninety (90) ton through one hundred ninety nine (199) ton with over two hundred (200') boom Including jib, inserts and/or attachments); Crane, Tower Crane with one hundred seventy five foot (175') tower or less and with less than two hundred foot (200') jib; Crane, Whirley ninety (90) ton and over; Helicopter when used in erecting work

Group 1A

Crane, floating two hundred fifty (250) ton and over; Crane, two hundred (200) ton through two hundred ninety nine (299) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Crane, three hundred (300) ton through three hundred ninety nine (399) ton; Crane, Tower Crane with over one hundred seventy five foot (175') tower or over two hundred foot (200') jib; Crane, tower Crane on rail system or 2nd tower or more in work radius

Group 1B

Crane, three hundred (300) ton through three hundred ninety nine (399) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Floating crane, three hundred fifty (350) ton and over; Crane, four hundred (400) ton and over

Group 2

Asphalt Plant (any type); Asphalt Roto-Mill, pavement profiler eight foot (8') lateral cut and over; Auto Grader or "Trimmer"; Blade, Robotic; Bulldozer, Robotic Equipment (any type); Bulldozer, over one hundred twenty thousand (120,000) lbs. and above; Concrete Batch Plant and/or Wet Mix one (1) and two (2) drum; Concrete Diamond Head Profiler; Canal Trimmer; Concrete, Automatic Slip Form Paver (Assistant to the Operator required); Crane, Boom Truck fifty (50) ton and with over one hundred fifty foot (150') boom and over; Crane, Floating (derrick barge) thirty (30) ton but less than one hundred fifty (150) ton; Crane, Cableway twenty-five (25) ton and over; Crane, Floating Clamshell three (3) cu. Yds. And over; Crane, ninety (90) ton through one hundred ninety nine (199) ton up to and including two hundred foot (200') of boom (including jib inserts and/or attachments); Crane, fifty (50) ton through eighty nine (89) ton with over one hundred fifty foot (150') boom (including jib inserts and/or attachments); Crane, Whirley under ninety (90) ton; Crusher Plant; Excavator over one hundred thirty thousand (130,000) lbs.; Loader one hundred twenty thousand (120,000) lbs. and above; Remote Controlled Earth Moving Equipment; Shovel, Dragline, Clamshell, five (5) cu. Yds. And over; Underwater Equipment remote or otherwise, when used in construction work; Wheel Excavator any size

Group 3

Bulldozer, over seventy thousand (70,000) lbs. up to and including one hundred twenty thousand (120,000) lbs.; Crane, Boom Truck fifty (50) ton and over with less than one hundred fifty foot (150') boom; Crane, fifty (50) ton through eighty nine (89) ton with one hundred fifty foot (150') boom or less (including jib inserts and/or attachments); Crane, Shovel, Dragline or Clamshell three (3) cu. yds. but less than five (5) cu. Yds.; Excavator over eighty thousand (80,000) lbs. through one hundred thirty thousand (130,000) lbs.; Loader sixty thousand (60,000) lbs. and less than one hundred twenty thousand (120,000) lbs.

Group 4

Asphalt, Screed; Asphalt Paver; Asphalt Roto-Mill, pavement profiler, under eight foot (8') lateral cut; Asphalt, Material Transfer Vehicle Operator; Back Filling Machine; Backhoe, Robotic, track and wheel type up to and including twenty thousand (20,000) lbs. with any attachments; Blade (any type); Boatman; Boring Machine; Bulldozer over twenty thousand (20,000) lbs. and more than one hundred (100) horse up to seventy thousand (70,000) lbs.; Cable-Plow (any type); Cableway up to twenty five (25) ton; Cat Drill (John Henry); Chippers; Compactor, multi-engine; Compactor, Robotic; Compactor with blade self-propelled; Concrete, Breaker; Concrete, Grout Plant; Concrete, Mixer Mobile; Concrete, Paving Road Mixer; Concrete, Reinforced Tank Banding Machine; Crane, Boom Truck twenty (20) ton and under fifty (50) ton; Crane, Bridge Locomotive, Gantry and Overhead; Crane, Carry Deck; Crane, Chicago Boom and similar types; Crane, Derrick Operator, under one hundred (100) ton; Crane, Floating Clamshell, Dragline, etc. Operator, under three (3) cu. yds. Or less than thirty (30) ton; Crane, under fifty (50) ton; Crane, Quick Tower under one hundred foot (100') in height and less than one hundred fifty foot (150') jib (on rail included); Diesel-Electric Engineer (Plant or Floating); Directional Drill over twenty thousand (20,000) lbs. pullback; Drill Cat Operator; Drill Doctor and/or Bit Grinder; Driller, Percussion, Diamond, Core, Cable, Rotary and similar type; Excavator Operator over twenty thousand (20,000) lbs. through eighty thousand (80,000) lbs.; Generator Operator; Grade-all; Guardrail Machines, i.e. punch, auger, etc.; Hammer Operator (Piledriver); Hoist, stiff leg, guy derrick or similar type, fifty (50) ton and over; Hoist, two (2) drums or more; Hydro Axe (loader mounted or similar type); Jack Operator, Elevating Barges, Barge Operator, self-unloading; Loader Operator, front end and overhead, twenty five thousand (25,000) lbs. and less than sixty thousand (60,000) lbs.; Log Skidders; Piledriver Operator (not crane type); Pipe, Bending, Cleaning, Doping and Wrapping Machines; Rail, Ballast Tamper Multi-Purpose; Rubber-tired Dozers and Pushers; Scraper, all types; Side-Boom; Skip Loader, Drag Box; Strump Grinder (loader mounted or similar type); Surface Heater and Planer; Tractor, rubber-tired, over fifty (50) HP Flywheel; Trenching Machine three foot (3') depth and deeper; Tub Grinder (used for wood debris); Tunnel Boring Machine Mechanic; Tunnel, Mucking Machine; Ultra High Pressure Water Jet Cutting Tool System Operator; Vacuum Blasting Machine Operator; Water pulls, Water wagons

Group 5

Asphalt, Extrusion Machine; Asphalt, Roller (any asphalt mix); Asphalt, Roto-Mill pavement profiler ground man; Bulldozer, twenty thousand (20,000) lbs. or less, or one hundred (100) horse or less; Cement Pump; Chip Spreading Machine; Churn Drill and Earth Boring Machine; Compactor, self-propelled without blade; Compressor, (any power) one thousand two hundred fifty (1,250) cu. ft. and over, total capacity; Concrete, Batch Plant Quality control; Concrete, Combination Mixer and compressor operator, gunite work; Concrete, Curb Machine, Mechanical Berm, Curb and/or Curb and Gutter; Concrete, Finishing Machine; Concrete, Grouting Machine; Concrete, Internal Full Slab Vibrator Operator; Concrete, Joint Machine; Concrete, Mixer single drum, any capacity; Concrete, Paving Machine eight foot (8') or less; Concrete, Planer; Concrete, Pump; Concrete, Pump Truck; Concrete, Pumpcrete Operator (any type); Concrete, Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Conveyored Material Hauler; Crane, Boom Truck under twenty (20) tons; Crane, Boom Type lifting device, five (5) ton capacity or less; Drill, Directional type less than twenty thousand (20,000) lbs. pullback; Fork Lift, over ten (10) ton or Robotic; Helicopter Hoist; Hoist Operator, single drum; Hydraulic Backhoe track type up to and including twenty thousand (20,000) lbs.; Hydraulic Backhoe wheel type (any make); Laser Screed; Loaders, rubber-tired type, less than twenty five thousand (25,000) lbs.; Pavement Grinder and/or Grooving Machine (riding type); Pipe, cast in place Pipe Laying Machine; Pulva-Mixer or similar types; Pump Operator, more than five (5) pumps (any size); Rail, Ballast Compactor, Regulator, or Tamper machines; Service Oiler (Greaser); Sweeper Self-Propelled; Tractor, Rubber-Tired, fifty (50) HP flywheel and under; Trenching Machine Operator, maximum digging capacity three foot (3') depth; Tunnel, Locomotive, Dinkey; Tunnel, Power Jumbo setting slip forms, etc.

Group 6

Asphalt, Pugmill (any type); Asphalt, Raker; Asphalt, Truck Mounted Asphalt Spreader, with Screed; Auger Oiler; Boatman; Bobcat, skid steer (less than one (1) yard); Broom, self-propelled; Compressor Operator (any power) under 1,250 cu. ft. total capacity; Concrete Curing Machine (riding type); Concrete Saw; Conveyor Operator or Assistant; Crane, Tugger; Crusher Feeder; Crusher Oiler; Deckhand; Drill, Directional Locator; Fork Lift; Grade Checker; Guardrail Punch Oiler; Hydrographic Seeder Machine, straw, pulp or seed; Hydrostatic Pump Operator; Mixer Box (CTB, dry batch, etc.); Oiler; Plant Oiler; Pump (any power); Rail, Brakeman, Switchman, Motorman; Rail, Tamping Machine, mechanical, self-propelled; Rigger; Roller grading (not asphalt); Truck, Crane Oiler-Driver

IRON0014-005 07/01/2019

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,
GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,
STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.59	29.26

IRON0029-002 05/01/2018

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHKAUKUM
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.00	27.87

IRON0086-002 07/01/2019

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.59	29.26

IRON0086-004 07/01/2019

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 42.35	29.56

LABO0238-004 06/01/2020

PASCO AREA: ADAMS, BENTON, COLUMBIA, DOUGLAS (East of 120th Meridian), FERRY, FRANKLIN, GRANT, OKANOGAN, WALLA WALLA

SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS & WHITMAN COUNTIES

	Rates	Fringes
LABORER (PASCO)		
GROUP 1.....	\$ 26.69	13.65
GROUP 2.....	\$ 28.79	13.65
GROUP 3.....	\$ 29.06	13.65
GROUP 4.....	\$ 29.33	13.65
GROUP 5.....	\$ 29.61	13.65
LABORER (SPOKANE)		
GROUP 1.....	\$ 26.69	13.65
GROUP 2.....	\$ 28.79	13.65
GROUP 3.....	\$ 29.06	13.65
GROUP 4.....	\$ 29.33	13.65
GROUP 5.....	\$ 29.61	13.65

Zone Differential (Add to Zone 1 rate): \$2.00

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office.

LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezecrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder; Stacker; General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include

all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast Tailhoseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhoseman (water nozzle); Timber Bucker and Faller (by hand); Track Laborer (RR); Truck Loader; Well-Point Man; All Other Work Classifications Not Specially Listed Shall Be Classified As General Laborer

GROUP 3: Asphalt Roller, walking; Cement Finisher Tender; Concrete Saw, walking; Demolition Torch; Dope Pot Firemen, non-mechanical; Driller Tender (when required to move and position machine); Form Setter, Paving; Grade Checker using level; Hazardous Waste Worker, Level C (uses a chemical "splash suit" and air purifying respirator); Jackhammer Operator; Miner, Class "B" (to include brakeman, finisher, vibrator, form setter); Nozzleman (to include squeeze and flo-crete nozzle); Nozzleman, water, air or steam; Pavement Breaker (under 90 lbs.); Pipelayer, corrugated metal culvert; Pipelayer, multi-plate; Pot Tender; Power Buggy Operator; Power Tool Operator, gas, electric, pneumatic; Railroad Equipment, power driven, except dual mobile power spiker or puller; Railroad Power Spiker or Puller, dual mobile; Rodder and Spreader; Tamper (to include operation of Barco, Essex and similar tampers); Trencher, Shawnee; Tugger Operator; Wagon Drills; Water Pipe Liner; Wheelbarrow (power driven)

GROUP 4: Air and Hydraulic Track Drill; Asphalt Raker; Brush Machine (to include horizontal construction joint cleanup brush machine, power propelled); Caisson Worker, free air; Chain Saw Operator and Faller; Concrete Stack (to include laborers when laborers working on free standing concrete stacks for smoke or fume control above 40 feet high); Guniting (to include operation of machine and nozzle); Hazardous Waste Worker, Level B (uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Laser Beam Operator (to include grade checker and elevation control); Miner, Class C (to include miner, nozzleman for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzleman, over 1,200 lbs., jet blast machine power propelled, sandblast nozzle); Pavement Breaker (90 lbs. and over); Pipelayer (to include working topman, caulker, collarman, jointer, mortarman, rigger, jacker, shorer, valve or meter installer); Pipewrapper; Plasterer Tender; Vibrators (all)

GROUP 5 - Drills with Dual Masts; Hazardous Waste Worker, Level A (utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line); Miner Class "D", (to include raise and shaft miner, laser beam operator on raises and shafts)

LABO0238-006 06/01/2019

COUNTIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON,
CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT,
LINCOLN, OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA,
WHITMAN

	Rates	Fringes
Hod Carrier.....	\$ 27.95	12.90

LABO0242-003 06/01/2020

KING COUNTY

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.78	12.35
GROUP 2A.....	\$ 31.82	12.35
GROUP 3.....	\$ 39.81	12.35
GROUP 4.....	\$ 40.77	12.35
GROUP 5.....	\$ 41.43	12.35
Group 6.....	\$ 41.43	12.35

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2A: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

Group 6: Miner

LABO0252-010 06/01/2020

CLALLAM, GRAYS HARBOR, JEFFERSON, KITSAP, LEWIS, MASON, PACIFIC
(EXCLUDING SOUTHWEST), PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.78	12.44
GROUP 2.....	\$ 31.82	12.44
GROUP 3.....	\$ 39.81	12.44
GROUP 4.....	\$ 40.77	12.44
GROUP 5.....	\$ 41.43	12.44

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Grade Checker and Transit Person; High Scaler; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

LABO0292-008 06/01/2020

ISLAND, SAN JUAN, SKAGIT, SNOHOMISH, AND WHATCOM COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.78	12.44
GROUP 2.....	\$ 31.82	12.44
GROUP 3.....	\$ 39.81	12.44
GROUP 4.....	\$ 40.77	12.44
GROUP 5.....	\$ 41.43	12.44

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall
ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall
ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall
ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

LABO0335-001 06/01/2020

CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHIAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHIAKUM COUNTIES

	Rates	Fringes
Laborers:		
ZONE 1:		
GROUP 1.....	\$ 34.93	12.44
GROUP 2.....	\$ 35.65	12.44
GROUP 3.....	\$ 36.20	12.44
GROUP 4.....	\$ 36.66	12.44
GROUP 5.....	\$ 31.93	12.44
GROUP 6.....	\$ 29.01	12.44
GROUP 7.....	\$ 25.14	12.44

Zone Differential (Add to Zone 1 rates):

Zone 2 \$ 0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city all.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Plant Laborers; Asphalt Spreaders; Batch Weighman; Broomers; Brush Burners and Cutters; Car and Truck Loaders; Carpenter Tender; Change-House Man or Dry Shack Man; Choker Setter; Clean-up Laborers; Curing, Concrete; Demolition, Wrecking and Moving Laborers; Dumpers, road oiling crew; Dumpmen (for grading crew); Elevator Feeders; Median Rail Reference Post, Guide Post, Right of Way Marker; Fine Graders; Fire Watch; Form Strippers (not swinging stages); General Laborers; Hazardous Waste Worker; Leverman or Aggregate Spreader (Flaherty and similar types); Loading Spotters; Material Yard Man (including electrical); Pittsburgh Chipper Operator or Similar Types; Railroad Track Laborers; Ribbon Setters (including steel forms); Rip Rap Man (hand placed); Road Pump Tender; Sewer Labor; Signalman; Skipman; Slopers; Spraymen; Stake Chaser; Stockpiler; Tie Back Shoring; Timber Faller and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bullgang (above ground); Weight-Man- Crusher (aggregate when used)

GROUP 2: Applicator (including pot power tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Brush Cutters (power saw); Burners; Choker Splicer; Clary Power Spreader and similar types; Clean- up Nozzleman-Green Cutter (concrete, rock, etc.); Concrete Power Buggyman; Concrete Laborer; Crusher Feeder; Demolition and Wrecking Charred Materials; Gunitite Nozzleman Tender; Gunitite or Sand Blasting Pot Tender; Handlers or Mixers of all Materials of an irritating nature (including cement and lime); Tool Operators (includes but not limited to: Dry Pack Machine; Jackhammer; Chipping Guns; Paving Breakers); Pipe Doping and Wrapping; Post Hole Digger, air, gas or electric; Vibrating Screed; Tampers; Sand Blasting (Wet); Stake-Setter; Tunnel-Muckers, Brakemen, Concrete Crew, Bullgang (underground)

GROUP 3: Asbestos Removal; Bit Grinder; Drill Doctor; Drill Operators, air tracks, cat drills, wagon drills, rubber-mounted drills, and other similar types including at crusher plants; Gunitite Nozzleman; High Scalars, Strippers and Drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping); Manhole Builder; Powdermen; Concrete Saw Operator; Powdermen; Power Saw Operators (Bucking and Falling); Pumpcrete Nozzlemen; Sand Blasting (Dry); Sewer Timberman; Track Liners, Anchor Machines, Ballast Regulators, Multiple Tampers, Power Jacks, Tugger Operator; Tunnel-Chuck Tenders, Nippers and Timbermen; Vibrator; Water Blaster

GROUP 4: Asphalt Raker; Concrete Saw Operator (walls); Concrete Nozzelman; Grade Checker; Pipelayer; Laser Beam (pipelaying)-applicable when employee assigned to move, set up, align; Laser Beam; Tunnel Miners; Motorman-Dinky Locomotive-Tunnel; Powderman-Tunnel; Shield Operator-Tunnel

GROUP 5: Traffic Flaggers

GROUP 6: Fence Builders

GROUP 7: Landscaping or Planting Laborers

LAB00335-019 06/01/2020

	Rates	Fringes
Hod Carrier.....	\$ 34.93	12.44

LABO0348-003 06/01/2020

CHELAN, DOUGLAS (W OF 12TH MERIDIAN), KITTITAS, AND YAKIMA
COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 23.68	12.44
GROUP 2.....	\$ 27.17	12.44
GROUP 3.....	\$ 29.74	12.44
GROUP 4.....	\$ 30.46	12.44
GROUP 5.....	\$ 30.99	12.44

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

PAIN0005-002 07/01/2020

STATEWIDE EXCEPT CLARK, COWLITZ, KLINKITAT, PACIFIC (SOUTH),
SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS.....	\$ 31.90	17.23

PAIN0005-004 03/01/2009

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND
WHATCOM COUNTIES

	Rates	Fringes
PAINTER.....	\$ 20.82	7.44

* PAIN0005-006 07/01/2018

ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE);
CHELAN, COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS,
LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA,
WHITMAN AND YAKIMA COUNTIES

	Rates	Fringes
PAINTER		
Application of Cold Tar		
Products, Epoxies, Polyure		
thanes, Acids, Radiation		
Resistant Material, Water		
and Sandblasting.....	\$ 30.19	11.71
Over 30'/Swing Stage Work..	\$ 22.20	7.98
Brush, Roller, Striping,		
Steam-cleaning and Spray....	\$ 22.94	11.61
Lead Abatement, Asbestos		
Abatement.....	\$ 21.50	7.98

*\$.70 shall be paid over and above the basic wage rates
listed for work on swing stages and high work of over 30
feet.

PAIN0055-003 07/01/2019

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHIAKUM
COUNTIES

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 25.14	12.90
Spray and Sandblasting.....	\$ 25.14	12.90

All high work over 60 ft. = base rate + \$0.75

PAIN0055-006 03/01/2020

CLARK, COWLITZ, KLINKITAT, SKAMANIA and WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT		
STRIPER.....	\$ 35.87	13.40

PLAS0072-004 06/01/2020

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,
FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, AND YAKIMA
COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 31.30	15.53

Zone Differential (Add to Zone 1 rate): Zone 2 - \$2.00

BASE POINTS: Spokane, Pasco, Lewiston; Wenatchee

Zone 1: 0 - 45 radius miles from the main post office

Zone 2: Over 45 radius miles from the main post office

PLAS0528-001 06/01/2020

CLALLAM, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON, KING,
KITSAP, LEWIS, MASON, PACIFIC, PIERCE, SAN JUAN, SKAGIT,
SNOHOMISH, THURSTON, WAHKIAKUM AND WHATCOM COUNTIES

	Rates	Fringes
CEMENT MASON		
CEMENT MASON.....	\$ 45.80	18.54
COMPOSITION, TROWEL MACHINE, GRINDER, POWER TOOLS, GUNNITE NOZZLE.....	\$ 46.30	18.54
TROWELING MACHINE OPERATOR ON COMPOSITION.....	\$ 46.30	18.54

PLAS0555-002 07/01/2019

CLARK, KICKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
CEMENT MASON		
CEMENT MASONS DOING BOTH COMPOSITION/POWER MACHINERY AND SUSPENDED/HANGING SCAFFOLD..	\$ 37.32	18.77
CEMENT MASONS ON SUSPENDED, SWINGING AND/OR HANGING SCAFFOLD.....	\$ 36.58	18.77
CEMENT MASONS.....	\$ 35.85	18.77
COMPOSITION WORKERS AND POWER MACHINERY OPERATORS...	\$ 36.58	18.77

Zone Differential (Add To Zone 1 Rates):

Zone 2 - \$0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 3.00

BASE POINTS: BEND, CORVALLIS, EUGENE, MEDFORD, PORTLAND,
SALEM, THE DALLES, VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall

ZONE 2: More than 30 miles but less than 40 miles from the
respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the
respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the
respective city hall.

ZONE 5: More than 80 miles from the respective city hall

TEAM0037-002 06/01/2019

CLARK, COWLITZ, KLUCKITAT, PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	\$ 29.08	15.27
GROUP 2.....	\$ 29.20	15.27
GROUP 3.....	\$ 29.34	15.27
GROUP 4.....	\$ 29.62	15.27
GROUP 5.....	\$ 29.85	15.27
GROUP 6.....	\$ 30.03	15.27
GROUP 7.....	\$ 30.24	15.27

Zone Differential (Add to Zone 1 Rates):

Zone 2 - \$0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated Dump Truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete Pump Truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations there of: up to and including 10 cu. yds.; Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Pickup Truck; Solo Flat Bed and misc. Body Trucks, 0-10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix - 5 cu. yds. and under; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Boom Truck/Hydra-lift or Retracting Crane; Challenger; Dumpsters or similar equipment all sizes; Dump Trucks/Articulated Dumps 6 cu to 10 cu.; Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer or doubles transporting equipment or wet or dry materials; Lumber Carrier, Driver-Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Transit mix and wet or dry mix trucks: over 5 cu. yds. and including 7 cu. yds.; Vacuum Trucks; Water truck/Wagons (rated capacity) over 3,000 to 5,000 gallons

GROUP 3: Ammonia Nitrate Distributor Driver; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds. includes Articulated Dump Trucks; Self-Propelled Street Sweeper; Transit mix and wet or dry mix truck: over 7 cu yds. and including 11 cu yds.; Truck Mechanic-Welder-Body Repairman; Utility and Clean-up Truck; Water Wagons (rated capacity) over 5,000 to 10,000 gallons

GROUP 4: Asphalt Burner; Dump Trucks, side, end and bottom dumps, including Semi-Trucks and Trains or combinations thereof: over 30 cu. yds. and including 50 cu. yds. includes Articulated Dump Trucks; Fire Guard; Transit Mix and Wet or Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.; Water Wagon (rated capacity) over 10,000 gallons to 15,000 gallons

GROUP 5: Composite Crewman; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 50 cu. yds. and including 60 cu. yds. includes Articulated Dump Trucks

GROUP 6: Bulk Cement Spreader w/o Auger; Dry Pre-Batch concrete Mix Trucks; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains of combinations thereof: over 60 cu. yds. and including 80 cu. yds., and includes Articulated Dump Trucks; Skid Truck

GROUP 7: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 80 cu. yds. and including 100 cu. yds., includes Articulated Dump Trucks; Industrial Lift Truck (mechanical tailgate)

* TEAM0174-001 06/01/2019

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE A:		
GROUP 1:.....	\$ 40.38	20.46
GROUP 2:.....	\$ 39.54	20.46
GROUP 3:.....	\$ 36.73	20.46
GROUP 4:.....	\$ 31.76	20.46
GROUP 5:.....	\$ 39.93	20.46

ZONE B (25-45 miles from center of listed cities*): Add \$.70 per hour to Zone A rates.

ZONE C (over 45 miles from centr of listed cities*): Add \$1.00 per hour to Zone A rates.

*Zone pay will be calculated from the city center of the following listed cities:

BELLINGHAM	CENTRALIA	RAYMOND	OLYMPIA
EVERETT	SHELTON	ANACORTES	BELLEVUE
SEATTLE	PORT ANGELES	MT. VERNON	KENT
TACOMA	PORT TOWNSEND	ABERDEEN	BREMERTON

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - "A-frame or Hydralift" trucks and Boom trucks or similar equipment when "A" frame or "Hydralift" and Boom truck or similar equipment is used; Buggymobile; Bulk Cement Tanker; Dumpsters and similar equipment, Tournorockers, Tournowagon, Tournotrailer, Cat DW series, Terra Cobra, Le Tourneau, Westinghouse, Athye Wagon, Euclid Two and Four-Wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump Trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with 16 yards to 30 yards capacity: Over 30 yards \$.15 per hour additional for each 10 yard increment; Explosive Truck (field mix) and similar equipment; Hyster Operators (handling bulk loose aggregates); Lowbed and Heavy Duty Trailer; Road Oil Distributor Driver; Spreader, Flaherty Transit mix used exclusively in heavy construction; Water Wagon and Tank Truck-3,000 gallons and over capacity

GROUP 2 - Bulllifts, or similar equipment used in loading or unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailer, Cat. D.W. Series, Terra Cobra, Le Tourneau, Westinghouse, Athye wagon, Euclid two and four-wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with less than 16 yards capacity; Flatbed (Dual Rear Axle); Grease Truck, Fuel Truck, Greaser, Battery Service Man and/or Tire Service Man; Leverman and loader at bunkers and batch plants; Oil tank transport; Scissor truck; Slurry Truck; Sno-Go and similar equipment; Swampers; Straddler Carrier (Ross, Hyster) and similar equipment; Team Driver; Tractor (small, rubber-tired) (when used within Teamster jurisdiction); Vacuum truck; Water Wagon and Tank trucks-less than 3,000 gallons capacity; Winch Truck; Wrecker, Tow truck and similar equipment

GROUP 3 - Flatbed (single rear axle); Pickup Sweeper; Pickup Truck. (Adjust Group 3 upward by \$2.00 per hour for onsite work only)

GROUP 4 - Escort or Pilot Car

GROUP 5 - Mechanic

HAZMAT PROJECTS

Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C: +\$.25 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B: +\$.50 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit."

LEVEL A: +\$.75 per hour - This level utilizes a fully-encapsulated suit with a self-contained breathing apparatus or a supplied air line.

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ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,
FRANKLIN, GARFIELD, GRANT KITTITAS, LINCOLN, OKANOGAN, PEND
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA
COUNTIES

	Rates	Fringes
Truck drivers: (AREA 1: SPOKANE ZONE CENTER: Adams, Chelan, Douglas, Ferry, Grant, Kittitas, Lincoln, Okanogan, Pen Oreille, Spokane, Stevens, and Whitman Counties		
AREA 1: LEWISTON ZONE CENTER: Asotin, Columbia, and Garfield Counties		
AREA 2: PASCO ZONE CENTER: Benton, Franklin, Walla Walla and Yakima Counties)		
AREA 1:		
GROUP 1.....	\$ 23.91	17.40
GROUP 2.....	\$ 26.18	17.40
GROUP 3.....	\$ 26.68	17.40
GROUP 4.....	\$ 27.01	17.40
GROUP 5.....	\$ 27.12	17.40
GROUP 6.....	\$ 27.29	17.40
GROUP 7.....	\$ 27.82	17.40
GROUP 8.....	\$ 28.18	17.40
AREA 2:		
GROUP 1.....	\$ 26.05	17.40
GROUP 2.....	\$ 28.69	17.40
GROUP 3.....	\$ 28.80	17.40
GROUP 4.....	\$ 29.13	17.40
GROUP 5.....	\$ 29.24	17.40
GROUP 6.....	\$ 29.24	17.40
GROUP 7.....	\$ 29.78	17.40
GROUP 8.....	\$ 30.10	17.40

Zone Differential (Add to Zone 1 rate: Zone 1 + \$2.00)

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: Outside 45 radius miles from the main post office

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and under); Leverperson (loading trucks at bunkers); Trailer Mounted Hydro Seeder and Mulcher; Seeder & Mulcher; Stationary Fuel Operator; Tractor (small, rubber-tired, pulling trailer or similar equipment)

GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile & Similar; Bulk Cement Tanks & Spreader; Dumptor (6 yds. & under); Flat Bed Truck with Hydraulic System; Fork Lift (3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner & Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Truck Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser; Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: Dumptor (over 6 yds.); Lowboy (50 tons & under); Self-loading Roll Off; Semi-Truck & Trailer; Tractor with Steer Trailer; Transit Mixers and Trucks Hauling Concrete (over 6 yds. to and including 10 yds.); Trucks, side, end, bottom and end dump (over 12 yds. to & including 20 yds.); Truck-Mounted Crane (with load bearing surface either mounted or pulled, up to 14 ton); Vacuum Truck (super sucker, guzzler, etc.)

GROUP 6: Flaherty Spreader Box Driver; Flowboys; Fork Lift (over 16,000 lbs.); Dumps (Semi-end); Mechanic (Field); Semi-end Dumps; Transfer Truck & Trailer; Transit Mixers & Trucks Hauling Concrete (over 10 yds. to & including 20 yds.); Trucks, side, end, bottom and articulated end dump (over 20 yds. to & including 40 yds.); Truck and Pup; Tournarocker, DWs & similar with 2 or more 4 wheel-power tractor with trailer, gallonage or yardage scale, whichever is greater Water Tank Truck (8,001- 14,000 gallons); Lowboy(over 50 tons)

GROUP 7: Oil Distributor Driver; Stringer Truck (cable operated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end,

bottom and articulated end dump (over 100 yds.); Helicopter
Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT
certification is required, shall be compensated as a
premium, in addition to the classification working in as
follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of
protection. This level may use an air purifying respirator
or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air in conjunction
with a chemical splash suit or fully encapsulated suit with
a self-contained breathing apparatus.

Employees shall be paid Hazmat pay in increments of four(4)
and eight(8) hours.

NOTE:

Trucks Pulling Equipment Trailers: shall receive \$.15/hour
over applicable truck rate

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
own illness, injury or other health-related needs, including
preventive care; to assist a family member (or person who is
like family to the employee) who is ill, injured, or has other
health-related needs, including preventive care; or for reasons
resulting from, or to assist a family member (or person who is
like family to the employee) who is a victim of, domestic
violence, sexual assault, or stalking. Additional information
on contractor requirements and worker protections under the EO
is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

PART V

STATE PREVAILING

WAGE RATES

AND

GENERAL REQUIREMENTS

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: 9/28/2020

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Pierce	Asbestos Abatement Workers	Journey Level	\$52.39	<u>5D</u>	<u>1H</u>		View
Pierce	Boilermakers	Journey Level	\$69.29	<u>5N</u>	<u>1C</u>		View
Pierce	Brick Mason	Journey Level	\$60.57	<u>7E</u>	<u>1N</u>		View
Pierce	Brick Mason	Pointer-Caulker-Cleaner	\$60.57	<u>7E</u>	<u>1N</u>		View
Pierce	Building Service Employees	Janitor	\$20.29	<u>5S</u>	<u>2F</u>		View
Pierce	Building Service Employees	Traveling Waxer / Shampooer	\$20.39	<u>5S</u>	<u>2F</u>		View
Pierce	Building Service Employees	Window Cleaner (High Time)	\$27.29	<u>5S</u>	<u>2F</u>		View
Pierce	Building Service Employees	Window Cleaner (Non-High Time)	\$26.29	<u>5S</u>	<u>2F</u>		View
Pierce	Cabinet Makers (In Shop)	Journey Level	\$28.36		<u>1</u>		View
Pierce	Carpenters	Acoustical Worker	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Carpenter	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Carpenters on Stationary Tools	\$65.07	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Creosoted Material	\$65.07	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Floor Finisher	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Floor Layer	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Scaffold Erector	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Cement Masons	Application of all Composition Mastic	\$64.84	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of all Epoxy Material	\$64.34	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of all Plastic Material	\$64.84	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of Sealing Compound	\$64.34	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of Underlayment	\$64.84	<u>7A</u>	<u>4U</u>		View

Pierce	Cement Masons	Building General	\$64.34	7A	4U		View
Pierce	Cement Masons	Composition or Kalman Floors	\$64.84	7A	4U		View
Pierce	Cement Masons	Concrete Paving	\$64.34	7A	4U		View
Pierce	Cement Masons	Curb & Gutter Machine	\$64.84	7A	4U		View
Pierce	Cement Masons	Curb & Gutter, Sidewalks	\$64.34	7A	4U		View
Pierce	Cement Masons	Curing Concrete	\$64.34	7A	4U		View
Pierce	Cement Masons	Finish Colored Concrete	\$64.84	7A	4U		View
Pierce	Cement Masons	Floor Grinding	\$64.84	7A	4U		View
Pierce	Cement Masons	Floor Grinding/Polisher	\$64.34	7A	4U		View
Pierce	Cement Masons	Green Concrete Saw, self-powered	\$64.84	7A	4U		View
Pierce	Cement Masons	Grouting of all Plates	\$64.34	7A	4U		View
Pierce	Cement Masons	Grouting of all Tilt-up Panels	\$64.34	7A	4U		View
Pierce	Cement Masons	Guniting Nozzleman	\$64.84	7A	4U		View
Pierce	Cement Masons	Hand Powered Grinder	\$64.84	7A	4U		View
Pierce	Cement Masons	Journey Level	\$64.34	7A	4U		View
Pierce	Cement Masons	Patching Concrete	\$64.34	7A	4U		View
Pierce	Cement Masons	Pneumatic Power Tools	\$64.84	7A	4U		View
Pierce	Cement Masons	Power Chipping & Brushing	\$64.84	7A	4U		View
Pierce	Cement Masons	Sand Blasting Architectural Finish	\$64.84	7A	4U		View
Pierce	Cement Masons	Screed & Rodding Machine	\$64.84	7A	4U		View
Pierce	Cement Masons	Spackling or Skim Coat Concrete	\$64.34	7A	4U		View
Pierce	Cement Masons	Troweling Machine Operator	\$64.84	7A	4U		View
Pierce	Cement Masons	Troweling Machine Operator on Colored Slabs	\$64.84	7A	4U		View
Pierce	Cement Masons	Tunnel Workers	\$64.84	7A	4U		View
Pierce	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$116.80	7A	4C		View
Pierce	Divers & Tenders	Dive Supervisor/Master	\$81.98	7A	4C		View
Pierce	Divers & Tenders	Diver	\$118.80	7A	4C	8V	View
Pierce	Divers & Tenders	Diver On Standby	\$76.98	7A	4C		View
Pierce	Divers & Tenders	Diver Tender	\$69.91	7A	4C		View
Pierce	Divers & Tenders	Manifold Operator	\$69.91	7A	4C		View
Pierce	Divers & Tenders	Manifold Operator Mixed Gas	\$74.91	7A	4C		View
Pierce	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$69.91	7A	4C		View
Pierce	Divers & Tenders	Remote Operated Vehicle Tender	\$65.19	7A	4C		View
Pierce	Dredge Workers	Assistant Engineer	\$70.62	5D	3F		View
Pierce	Dredge Workers	Assistant Mate (Deckhand)	\$70.07	5D	3F		View

Pierce	Dredge Workers	Boatmen	\$70.62	5D	3F		View
Pierce	Dredge Workers	Engineer Welder	\$71.97	5D	3F		View
Pierce	Dredge Workers	Leverman, Hydraulic	\$73.41	5D	3F		View
Pierce	Dredge Workers	Mates	\$70.62	5D	3F		View
Pierce	Dredge Workers	Oiler	\$70.07	5D	3F		View
Pierce	Drywall Applicator	Journey Level	\$64.94	5D	1H		View
Pierce	Drywall Tapers	Journey Level	\$65.31	5P	1E		View
Pierce	Electrical Fixture Maintenance Workers	Journey Level	\$17.76		1		View
Pierce	Electricians - Inside	Cable Splicer	\$77.53	5C	1G		View
Pierce	Electricians - Inside	Journey Level	\$72.56	5C	1G		View
Pierce	Electricians - Inside	Lead Covered Cable Splicer	\$82.51	5C	1G		View
Pierce	Electricians - Inside	Welder	\$77.53	5C	1G		View
Pierce	Electricians - Motor Shop	Craftsman	\$15.37		1		View
Pierce	Electricians - Motor Shop	Journey Level	\$14.69		1		View
Pierce	Electricians - Powerline Construction	Cable Splicer	\$82.39	5A	4D		View
Pierce	Electricians - Powerline Construction	Certified Line Welder	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Groundperson	\$49.17	5A	4D		View
Pierce	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Journey Level Lineperson	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Line Equipment Operator	\$64.54	5A	4D		View
Pierce	Electricians - Powerline Construction	Meter Installer	\$49.17	5A	4D	8W	View
Pierce	Electricians - Powerline Construction	Pole Sprayer	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Powderperson	\$56.49	5A	4D		View
Pierce	Electronic Technicians	Journey Level	\$46.47	6Z	1B		View
Pierce	Elevator Constructors	Mechanic	\$97.31	7D	4A		View
Pierce	Elevator Constructors	Mechanic In Charge	\$105.06	7D	4A		View
Pierce	Fabricated Precast Concrete Products	Journey Level	\$15.00		1		View
Pierce	Fence Erectors	Fence Erector	\$44.40	7A	4V	8Y	View
Pierce	Fence Erectors	Fence Laborer	\$44.40	7A	4V	8Y	View
Pierce	Flaggers	Journey Level	\$44.40	7A	4V	8Y	View
Pierce	Glaziers	Journey Level	\$69.26	7L	1Y		View
Pierce	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$79.43	5J	4H		View
Pierce	Heating Equipment Mechanics	Journey Level	\$89.61	7F	1E		View
Pierce	Hod Carriers & Mason Tenders	Journey Level	\$54.01	7A	4V	8Y	View

Pierce	Industrial Power Vacuum Cleaner	Journey Level	\$13.50		<u>1</u>		View
Pierce	Inland Boatmen	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$13.50		<u>1</u>		View
Pierce	Insulation Applicators	Journey Level	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Ironworkers	Journeyman	\$75.23	<u>7N</u>	<u>10</u>		View
Pierce	Laborers	Air, Gas Or Electric Vibrating Screed	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Airtrac Drill Operator	\$54.01	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Ballast Regular Machine	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Batch Weighman	\$44.40	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Brick Pavers	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Brush Cutter	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Brush Hog Feeder	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Burner	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Caisson Worker	\$54.01	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Carpenter Tender	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Cement Dumper-paving	\$53.35	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Cement Finisher Tender	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Change House Or Dry Shack	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Chipping Gun (30 Lbs. And Over)	\$53.35	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Chipping Gun (Under 30 Lbs.)	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Choker Setter	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Chuck Tender	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Clary Power Spreader	\$53.35	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Clean-up Laborer	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View

Pierce	Laborers	Concrete Dumper/Chute Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Concrete Form Stripper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Concrete Placement Crew	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Concrete Saw Operator/Core Driller	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Crusher Feeder	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Curing Laborer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Ditch Digger	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Diver	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Drill Operator (Hydraulic, Diamond)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Dry Stack Walls	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Dump Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Epoxy Technician	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Erosion Control Worker	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Faller & Bucker Chain Saw	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Fine Graders	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Firewatch	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Form Setter	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Gabian Basket Builders	\$52.39	7A	4V	8Y	View
Pierce	Laborers	General Laborer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Grade Checker & Transit Person	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Grinders	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Grout Machine Tender	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Groutmen (Pressure) Including Post Tension Beams	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Guardrail Erector	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level A)	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level B)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level C)	\$52.39	7A	4V	8Y	View
Pierce	Laborers	High Scaler	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Jackhammer	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Laserbeam Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Maintenance Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Manhole Builder-Mudman	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Material Yard Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Motorman-Dinky Locomotive	\$53.35	7A	4V	8Y	View
Pierce	Laborers		\$53.35	7A	4V	8Y	View

		Nozzleman (Concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Guniting, Shotcrete, Water Blaster, Vacuum Blaster)					
Pierce	Laborers	Pavement Breaker	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pilot Car	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Pipe Layer Lead	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Pipe Layer/Tailor	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pipe Pot Tender	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pipe Reliner	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pipe Wrapper	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pot Tender	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Powderman	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Powderman's Helper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Power Jacks	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Railroad Spike Puller - Power	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Raker - Asphalt	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Re-timberman	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Remote Equipment Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Rigger/Signal Person	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Rip Rap Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Rivet Buster	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Rodder	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Scaffold Erector	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Scale Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Sloper (Over 20")	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Sloper Sprayer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Spreader (Concrete)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Stake Hopper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Stock Piler	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Swinging Stage/Boatswain Chair	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Tamper (Multiple & Self-propelled)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Toolroom Person (at Jobsite)	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Topper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Track Laborer	\$52.39	7A	4V	8Y	View

Pierce	Laborers	Track Liner (Power)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Traffic Control Laborer	\$47.48	7A	4V	9C	View
Pierce	Laborers	Traffic Control Supervisor	\$50.31	7A	4V	9C	View
Pierce	Laborers	Truck Spotter	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Tugger Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$129.67	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$134.70	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$138.38	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$144.08	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$146.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$151.30	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$153.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$155.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$157.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Guage and Lock Tender	\$54.11	7A	4V	8Y	View
Pierce	Laborers	Tunnel Work-Miner	\$54.11	7A	4V	8Y	View
Pierce	Laborers	Vibrator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Vinyl Seamer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Watchman	\$40.36	7A	4V	8Y	View
Pierce	Laborers	Welder	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Well Point Laborer	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Window Washer/Cleaner	\$40.36	7A	4V	8Y	View
Pierce	Laborers - Underground Sewer & Water	General Laborer & Topman	\$52.39	7A	4V	8Y	View
Pierce	Laborers - Underground Sewer & Water	Pipe Layer	\$53.35	7A	4V	8Y	View
Pierce	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	\$40.36	7A	4V	8Y	View
Pierce	Landscape Construction	Landscape Operator	\$70.07	7A	3K	8X	View
Pierce	Landscape Maintenance	Groundskeeper	\$17.07		1		View
Pierce	Lathers	Journey Level	\$64.94	5D	1H		View
Pierce	Marble Setters	Journey Level	\$60.57	7E	1N		View
Pierce	Metal Fabrication (In Shop)	Journey Level	\$36.54		1		View
Pierce	Millwright	Journey Level	\$66.44	7A	4C		View
Pierce	Modular Buildings	Journey Level	\$13.50		1		View
Pierce	Painters	Journey Level	\$43.40	6Z	2B		View
Pierce	Pile Driver	Crew Tender	\$69.91	7A	4C		View

Pierce	Pile Driver	Crew Tender/Technician	\$69.91	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$80.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$85.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$89.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$94.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$97.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$102.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$104.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$106.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$108.26	7A	4C		View
Pierce	Pile Driver	Journey Level	\$65.19	7A	4C		View
Pierce	Plasterers	Journey Level	\$61.67	7Q	1R		View
Pierce	Playground & Park Equipment Installers	Journey Level	\$13.50		1		View
Pierce	Plumbers & Pipefitters	Journey Level	\$77.97	5A	1G		View
Pierce	Power Equipment Operators	Asphalt Plant Operator	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Assistant Engineer	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Barrier Machine (zipper)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Batch Plant Operator: Concrete	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Bobcat	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Brooms	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Bump Cutter	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Cableways	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Chipper	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Compressor	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$67.02	7A	3K	8X	View

Pierce	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Conveyors	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Cranes Friction: 200 tons and over	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes, A-frame: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Crusher	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Deck Engineer/deck Winches (power)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Derricks: on building work	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Dozers D-9 & Under	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Drilling Machine	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators	Elevator and man-lift: permanent and shaft type	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Forklift: 3000 lbs and over with attachments	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators		\$69.12	7A	3K	8P	View

		Forklifts: under 3000 lbs. with attachments					
Pierce	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets, etc.	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Gradechecker/stakeman	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Guardrail punch/Auger	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Horizontal/directional Drill Locator	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Horizontal/directional Drill Operator	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Hydralifts/boom trucks: over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Loaders, Plant Feed	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Loaders: Elevating Type Belt	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Locomotives, All	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Material Transfer Device	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Motor patrol graders	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators		\$70.62	7A	3K	8X	View

		Overhead, Bridge Type Crane: 20 Tons Through 44 Tons					
Pierce	Power Equipment Operators	Overhead, bridge type: 100 tons and over	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Pavement Breaker	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Posthole Digger, Mechanical	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Power Plant	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Pumps - Water	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Quad 9, HD 41, D10 And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Quick Tower: no cab, under 100 feet in height based to boom	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Rigger and Bellman	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Rollagon	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Roller, Other Than Plant Mix	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Roto-mill, Roto-grinder	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Saws - Concrete	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Scrapers - Concrete & Carry All	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Service Engineers: equipment	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Shotcrete/gunite Equipment	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators		\$70.62	7A	3K	8X	View

		Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons					
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$72.69	7A	3K	8X	View
Pierce	Power Equipment Operators	Slipform Pavers	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Spreader, Topsider & Screedman	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Subgrader Trimmer	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Tower Bucket Elevators	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators	Tower crane: up to 175' in height base to boom	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom.	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators	Transporters, All Track Or Truck Type	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Trenching Machines	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators	Truck crane oiler/driver: under 100 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Truck Mount Portable Conveyor	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Welder	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Wheel Tractors, Farmall Type	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Yo Yo Pay Dozer	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operator	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator: Concrete	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Bobcat	\$67.02	7A	3K	8X	View
Pierce		Brokk - Remote Demolition Equipment	\$67.02	7A	3K	8X	View

	Power Equipment Operators- Underground Sewer & Water						
Pierce	Power Equipment Operators- Underground Sewer & Water	Brooms	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Bump Cutter	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cableways	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Chipper	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Compressor	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Conveyors	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes Friction: 200 tons and over	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes, A-frame: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$75.72	7A	3K	8P	View

Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Crusher	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Derricks: on building work	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Drilling Machine	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets,etc.	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Gradechecker/stakeman	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Guardrail punch/Auger	\$70.62	7A	3K	8X	View
Pierce			\$71.24	7A	3K	8X	View

	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over					
Pierce	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Locator	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Operator	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Locomotives, All	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Motor patrol graders	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$67.02	7A	3K	8X	View
Pierce			\$72.28	7A	3K	8P	View

	Power Equipment Operators- Underground Sewer & Water	Outside Hoists (elevators and manlifts), Air Tuggers, Strato					
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 100 tons and over	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Power Plant	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Pumps - Water	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Quad 9, HD 41, D10 And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Quick Tower: no cab, under 100 feet in height based to boom	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Rigger and Bellman	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Rollagon	\$71.24	7A	3K	8X	View
Pierce		Roller, Other Than Plant Mix	\$67.02	7A	3K	8X	View

	Power Equipment Operators- Underground Sewer & Water						
Pierce	Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Service Engineers: equipment	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shotcrete/gunite Equipment	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	\$70.07	7A	3K	8X	View
Pierce			\$74.99	7A	3K	8P	View

	Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom					
Pierce	Power Equipment Operators- Underground Sewer & Water	Tower crane: up to 175' in height base to boom	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom.	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Trenching Machines	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Welder	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	\$70.62	7A	3K	8X	View
Pierce	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$53.10	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Spray Person	\$50.40	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$53.10	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer	\$47.48	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$36.10	5A	4A		View
Pierce	Refrigeration & Air Conditioning Mechanics	Journey Level	\$77.96	5A	1G		View
Pierce	Residential Brick Mason	Journey Level	\$27.02		1		View
Pierce	Residential Carpenters	Journey Level	\$48.17	7A	4C		View
Pierce	Residential Cement Masons	Journey Level	\$64.34	7A	4U		View
Pierce	Residential Drywall Applicators	Journey Level	\$48.17	7A	4C		View
Pierce	Residential Drywall Tapers	Journey Level	\$47.73	5P	1E		View
Pierce	Residential Electricians	Journey Level	\$34.65		1		View

Pierce	Residential Glaziers	Journey Level	\$45.90	<u>7L</u>	<u>1H</u>	View
Pierce	Residential Insulation Applicators	Journey Level	\$24.16		<u>1</u>	View
Pierce	Residential Laborers	Journey Level	\$23.86		<u>1</u>	View
Pierce	Residential Marble Setters	Journey Level	\$29.29		<u>1</u>	View
Pierce	Residential Painters	Journey Level	\$29.70		<u>1</u>	View
Pierce	Residential Plumbers & Pipefitters	Journey Level	\$55.87	<u>5A</u>	<u>1G</u>	View
Pierce	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$45.22	<u>5A</u>	<u>1G</u>	View
Pierce	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$54.01	<u>7F</u>	<u>1R</u>	View
Pierce	Residential Soft Floor Layers	Journey Level	\$51.07	<u>5A</u>	<u>3J</u>	View
Pierce	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$50.89	<u>5C</u>	<u>2R</u>	View
Pierce	Residential Stone Masons	Journey Level	\$29.29		<u>1</u>	View
Pierce	Residential Terrazzo Workers	Journey Level	\$14.86		<u>1</u>	View
Pierce	Residential Terrazzo/Tile Finishers	Journey Level	\$21.96		<u>1</u>	View
Pierce	Residential Tile Setters	Journey Level	\$25.98		<u>1</u>	View
Pierce	Roofers	Journey Level	\$54.62	<u>5A</u>	<u>2Q</u>	View
Pierce	Roofers	Using Irritable Bituminous Materials	\$57.62	<u>5A</u>	<u>2Q</u>	View
Pierce	Sheet Metal Workers	Journey Level (Field or Shop)	\$89.61	<u>7F</u>	<u>1E</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Boilermaker	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Carpenter	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Crane Operator	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Electrician	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$79.43	<u>5J</u>	<u>4H</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Laborer	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Machinist	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Painter	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Pipefitter	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Rigger	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Sheet Metal	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Shipfitter	\$36.36	<u>7V</u>	<u>1</u>	View

Pierce	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$36.36	7V	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$36.36	7V	1	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Carpenter	\$44.95	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Crane Operator	\$45.06	7Y	4K	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Electrician	\$47.42	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$79.43	5J	4H	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Laborer	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Machinist	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	\$45.06	7Y	4K	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Painter	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Pipefitter	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Rigger	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$44.95	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$45.06	7Y	4K	View
Pierce	Sign Makers & Installers (Electrical)	Sign Installer	\$26.17		1	View
Pierce	Sign Makers & Installers (Electrical)	Sign Maker	\$20.33		1	View
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Installer	\$33.43		1	View
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Maker	\$22.79		1	View
Pierce	Soft Floor Layers	Journey Level	\$51.07	5A	3J	View
Pierce	Solar Controls For Windows	Journey Level	\$13.50		1	View
Pierce	Sprinkler Fitters (Fire Protection)	Journey Level	\$84.39	5C	1X	View
Pierce	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.50		1	View
Pierce	Stone Masons	Journey Level	\$60.57	7E	1N	View
Pierce	Street And Parking Lot Sweeper Workers	Journey Level	\$21.69		1	View
Pierce	Surveyors	Chain Person	\$68.39	7A	3K	View
Pierce	Surveyors	Instrument Person	\$69.02	7A	3K	View
Pierce	Surveyors	Party Chief	\$70.17	7A	3K	View
Pierce	Telecommunication Technicians	Journey Level	\$46.47	6Z	1B	View
Pierce	Telephone Line Construction - Outside	Cable Splicer	\$41.81	5A	2B	View
Pierce	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$23.53	5A	2B	View
Pierce		Installer (Repairer)	\$40.09	5A	2B	View

	Telephone Line Construction - Outside					
Pierce	Telephone Line Construction - Outside	Special Aparatus Installer I	\$41.81	5A	2B	View
Pierce	Telephone Line Construction - Outside	Special Apparatus Installer II	\$40.99	5A	2B	View
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$41.81	5A	2B	View
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$38.92	5A	2B	View
Pierce	Telephone Line Construction - Outside	Telephone Lineperson	\$38.92	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television Groundperson	\$22.32	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television Lineperson/Installer	\$29.60	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television System Technician	\$35.20	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television Technician	\$31.67	5A	2B	View
Pierce	Telephone Line Construction - Outside	Tree Trimmer	\$38.92	5A	2B	View
Pierce	Terrazzo Workers	Journey Level	\$55.71	7E	1N	View
Pierce	Tile Setters	Journey Level	\$55.71	7E	1N	View
Pierce	Tile, Marble & Terrazzo Finishers	Finisher	\$46.54	7E	1N	View
Pierce	Traffic Control Stripers	Journey Level	\$49.13	7A	1K	View
Pierce	Truck Drivers	Asphalt Mix Over 16 Yards	\$63.85	5D	4Y	8L View
Pierce	Truck Drivers	Asphalt Mix To 16 Yards	\$63.71	5D	4Y	8L View
Pierce	Truck Drivers	Dump Truck	\$63.71	5D	4Y	8L View
Pierce	Truck Drivers	Dump Truck & Trailer	\$63.85	5D	4Y	8L View
Pierce	Truck Drivers	Other Trucks	\$63.85	5D	4Y	8L View
Pierce	Truck Drivers - Ready Mix	Transit Mix	\$63.85	5D	4Y	8L View
Pierce	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$16.09		1	View
Pierce	Well Drillers & Irrigation Pump Installers	Oiler	\$15.39		1	View
Pierce	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.30		1	View

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
 - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
 - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

3. E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
- F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
- H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
- 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.

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
- B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
- C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- 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.
- 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.

Overtime Codes Continued

4. 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.
- M. All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.
- N. 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, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.
- O. All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.
- P. All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.
- Q. The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- R. All hours worked on Saturdays 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 on Sundays and holidays shall be paid at double the hourly rate of wage.
- S. 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.
- T. The first two (2) hours of overtime for hours worked Monday-Friday 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 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. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.
- 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. V. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

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.

- W. 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.

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.

- 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

4. Y. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. All work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay.

Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift.

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.

ZOvertime 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. 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. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. Work performed on Sundays may be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).

Holiday Codes Continued

5. P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
- H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
- I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

Holiday Codes Continued

7. B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- 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.

Holiday Codes Continued

7. M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- 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.
- 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.

Holiday Codes Continued

7. Z. Holidays: New Year's Day, President's Day, Independence Day, Memorial 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.
15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the 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.
- B. Holidays: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (9)
- C. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8)
- D. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and the day after Christmas.
- E. Holidays: the day before New Years's Day, New Year's Day, Martin Luther King, Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day. (12)

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- 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.

Note Codes Continued

8. 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.
- 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.

Note Codes Continued

8. 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.)

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.

Note Codes Continued

- 9. 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.
- 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.

Washington State Department of Labor and Industries
Policy Statement
(Regarding the Production of "Standard" or "Non-standard" Items)

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.
2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.
3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.
4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.
5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.
6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

**WSDOT's
Predetermined List for
Suppliers - Manufactures - Fabricator**

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

ITEM DESCRIPTION	YES	NO
1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		X
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		X
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		X
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		X
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		X
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		X
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		X

ITEM DESCRIPTION	YES	NO
8. Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		X
9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	X	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	X	
11. Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contact Plans for item description and shop drawings.	X	
12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		X
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	X	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		X
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		X
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		X
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		X
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		X
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		X
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		X
22. Vault Risers - For use with Valve Vaults and Utilities X Vaults.		X
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		X
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		X
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	X	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	X	

ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33. Monument Case and Cover See Std. Plan.		X

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	X	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. NOTE: *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		X
44. Guardrail components	X	X
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		X
48. Electrical wiring/components		X
49. treated or untreated timber pile		X
50. Girder pads (elastomeric bearing)	X	
51. Standard Dimension lumber		X
52. Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.,) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

The Contractor (Contractor) shall maintain at least the minimum insurance set forth below. By requiring such minimum insurance, the City of Tacoma shall not be deemed or construed to have assessed the risk that may be applicable to Contractor under this Contract. Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

1. GENERAL REQUIREMENTS

The following General Requirements apply to Contractor and to Subcontractor(s) of every tier performing services and/or activities pursuant to the terms of this Contract. Contractor acknowledges and agrees to the following insurance requirements applicable to Contractor and Contractor's Subcontractor(s):

- 1.1. City of Tacoma reserves the right to approve or reject the insurance provided based upon the insurer, terms and coverage, the Certificate of Insurance, and/or endorsements.
- 1.2. Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by City of Tacoma.
- 1.3. Contractor shall keep this insurance in force during the entire term of the Contract and for Thirty (30) calendar days after completion of all work required by the Contract, unless otherwise provided herein.
- 1.4. Insurance policies required under this Contract that name "City of Tacoma" as Additional Insured shall:
 - 1.4.1. Be considered primary and non-contributory for all claims.
 - 1.4.2. Contain a "Separation of Insured provision and a "Waiver of Subrogation" clause in favor of City of Tacoma.
- 1.5. Section 1.4 above does not apply to contracts for purchasing supplies only.
- 1.6. Verification of coverage shall include:
 - 1.6.1. An ACORD certificate or equivalent.
 - 1.6.2. Copies of all endorsements naming the City of Tacoma as additional insured and showing the policy number.
 - 1.6.3. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.
- 1.7. Liability insurance policies, with the exception of Professional Liability and Workers' Compensation, shall name the City of Tacoma and its officers, elected officials, employees, agents, and authorized volunteers as additional insured.
 - 1.7.1. No specific person or department should be identified as the additional insured.
 - 1.7.2. All references on certificates of insurance and endorsements shall be listed as "City of Tacoma".
 - 1.7.3. The City of Tacoma shall be additional insured for both ongoing and completed operations using Insurance Services Office (ISO) form CG 20 10 04 13 and CG 20



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

37 04 13 or the equivalent 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 describes limits lower than those maintained by the Contractor.

- 1.8. Contractor shall provide a Certificate of Insurance for each policy of insurance meeting the requirements set forth herein when Contractor provides the signed Contract for the work to City of Tacoma. Contractor shall provide copies of any applicable Additional Insured, Waiver of Subrogation, and Primary and Non-contributory endorsements. Contract or Permit number and the City Department must be shown on the Certificate of Insurance.
- 1.9. Insurance limits shown below may be written with an excess policy that follows the form of an underlying primary liability policy or an excess policy providing the required limit.
- 1.10. Liability insurance policies shall be written on an "occurrence" form, except for Professional Liability/Errors and Omissions, Pollution Liability, and Cyber/Privacy and Security
- 1.11. If coverage is approved and purchased on a "Claims-Made" basis, Contractor warrants continuation of coverage, either through policy renewals or by the purchase of an extended reporting period endorsement as set forth below.
- 1.12. The insurance must be written by companies licensed or authorized in the State of Washington pursuant to RCW 48 with an (A-) VII or higher in the A.M. Best's Key Rating Guide www.ambest.com.
- 1.13. Contractor shall provide City of Tacoma notice of any cancellation or non-renewal of this required insurance within Thirty (30) calendar days.
- 1.14. Contractor shall not allow any insurance to be cancelled or lapse during any term of this Contract, otherwise it shall constitute a material breach of the Contract, upon which City of Tacoma may, after giving Five (5) business day notice to 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 City of Tacoma by Contractor upon demand, or at the sole discretion of City of Tacoma, offset against funds due Contractor from City of Tacoma.
- 1.15. Contractor shall be responsible for the payment of all premiums, deductibles and self-insured retentions, and shall indemnify and hold the City of Tacoma harmless to the extent such a deductible or self-insured retained limit may apply to the City of Tacoma as an additional insured. Any deductible or self-insured retained limits in excess of Twenty Five Thousand Dollars (\$25,000) must be disclosed and approved by City of Tacoma Risk Manager and shown on the Certificate of Insurance.
- 1.16. City of Tacoma reserves the right to review insurance requirements during any term of the Contract and to require that Contractor make reasonable adjustments when the scope of services has changed.



CITY OF TACOMA INSURANCE REQUIREMENTS FOR CONTRACTS

- 1.17. 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 by City of Tacoma to Contractor.
- 1.18. Insurance coverages specified in this Contract are not intended and will not be interpreted to limit the responsibility or liability of Contractor or Subcontractor(s).
- 1.19. Failure by City of Tacoma to identify a deficiency in the insurance documentation provided by Contractor or failure of City of Tacoma to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- 1.20. If Contractor is a State of Washington or local government and is self-insured for any of the above insurance requirements, a certification of self-insurance shall be attached hereto and be incorporated by reference and shall constitute compliance with this Section.

2. CONTRACTOR

As used herein, "Contractor" shall be the Supplier(s) entering a Contract with City of Tacoma, whether designated as a Supplier, Contractor, Vendor, Proposer, Bidder, Respondent, Seller, Merchant, Service Provider, or otherwise.

3. SUBCONTRACTORS

It is Contractor's responsibility to ensure that each subcontractor obtain and maintain adequate liability insurance coverage. Contractor shall provide evidence of such insurance upon City of Tacoma's request.

4. REQUIRED INSURANCE AND LIMITS

The insurance policies shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve Contractor from liability in excess of such limits.

4.1 Commercial General Liability Insurance

Contractor shall maintain Commercial General Liability Insurance policy with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) annual aggregate. The Commercial General Liability Insurance policy shall be written on an Insurance Services Office form CG 00 01 04 13 or its equivalent. Products and Completed Operations shall be maintained for a period of three years following Substantial Completion of the Work related to performing construction services.

This policy shall include product liability especially when a Contract solely is for purchasing supplies. The Commercial General Liability policy shall be endorsed to include:

- 4.1.1 A per project aggregate policy limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

4.2 Commercial (Business) Automobile Liability Insurance

Contractor shall maintain Commercial Automobile Liability policy with limits not less than One Million Dollars (\$1,000,000) each accident for bodily injury and property damage and bodily injury and property damage coverage for owned (if any), non-owned, hired, or leased vehicles. Commercial Automobile Liability Insurance shall be written using ISO form CA 00 01 or



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

equivalent. Contractor must also maintain an MCS 90 endorsement or equivalent and a CA 99 48 endorsement or equivalent if "Pollutants" are to be transported.

4.3 Workers' Compensation

4.3.1 Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington, as well as any other similar coverage required for this work by applicable federal laws of other states. The Contractor must comply with their domicile State Industrial Insurance laws if it is outside the State of Washington.

4.4 Employers' Liability Insurance

Contractor shall maintain Employers' Liability coverage with limits not less than One Million Dollars (\$1,000,000) each employee, One Million Dollars (\$1,000,000) each accident, and One Million Dollars (\$1,000,000) policy limit.

4.5 Excess or Umbrella Liability (UL) Insurance

Contractor shall provide Excess or UL coverage at limits of not less than Two Million Dollars (\$2,000,000) per occurrence and in the aggregate. This coverage shall apply, at a minimum, in excess of primary underlying Commercial General Liability, Employer's Liability, Marine General Liability, Protection and Indemnity, and Automobile Liability if required herein.

4.6 Other Insurance

Other insurance may be deemed appropriate to cover risks and exposures related to the scope of work or changes to the scope of work required by City of Tacoma. The costs of such necessary and appropriate Insurance coverage shall be borne by Contractor.