SPECIFICATION NO.
PW22-0012F

TPU ADMIN COMPLEX
STREET IMPROVEMENTS

Project No. PWR-01132 & PWK-00438-40
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

REQUEST FOR BIDS, SPECIAL PROVISIONS, BID PROPOSAL AND CONTRACT

FOR

SPECIFICATION NO.
PW22-0012F

TPU ADMIN COMPLEX STREET IMPROVEMENTS

Project No. PWR-01132 & PWK-00438-40
Public Works Department

TPU ADMIN COMPLEX STREET IMPROVEMENTS
PW22-0012F

SPECIFICATIONS
Stamp and Signature Page

Division 1 and Front End

Division 2 through 9 (not including 8-20 and 9-29)

Division 8-20 and 9-29
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REQUEST FOR BIDS PW22-0012F
TPU ADMIN COMPLEX STREET IMPROVEMENTS

Submittal Deadline: 11:00 a.m., Pacific Time, Tuesday, April 5th, 2022
Submittals must be received by the City’s Procurement and Payables Division prior to 11:00 a.m. Pacific Time.
For electronic submittals, the City of Tacoma will designate the time of receipt recorded by our email, bids@cityoftacoma.org, as the official time of receipt. This clock will be used as the official time of receipt of all parts of electronic bid submittals.

Submittal Delivery: Sealed submittals will be received as follows:

<table>
<thead>
<tr>
<th>By Email:</th>
<th><a href="mailto:bids@cityoftacoma.org">bids@cityoftacoma.org</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum file size: 35 MB. Multiple emails may be sent for each submittal</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>By Carrier:</th>
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<tbody>
<tr>
<td>If possible, please include a flash drive of your full submittal.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>City of Tacoma Procurement &amp; Payables Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tacoma Public Utilities</td>
</tr>
<tr>
<td>3628 S 35th Street</td>
</tr>
<tr>
<td>Tacoma, WA 98409</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>In Person:</th>
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</thead>
<tbody>
<tr>
<td>If possible, please include a flash drive of your full submittal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City of Tacoma Procurement &amp; Payables Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tacoma Public Utilities Administration Building North</td>
</tr>
<tr>
<td>Guard House (east side of main building</td>
</tr>
<tr>
<td>3628 S 35th Street</td>
</tr>
<tr>
<td>Tacoma, WA 98409</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>By Mail:</th>
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<tbody>
<tr>
<td>If possible, please include a flash drive of your full submittal.</td>
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</table>

<table>
<thead>
<tr>
<th>City of Tacoma Procurement &amp; Payables Division</th>
</tr>
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<tbody>
<tr>
<td>Tacoma Public Utilities</td>
</tr>
<tr>
<td>PO Box 11007</td>
</tr>
<tr>
<td>Tacoma, WA 98411-0007</td>
</tr>
</tbody>
</table>

Bid Opening: Held virtually each Tuesday at 11AM. Attend via this link or call 1 (253) 215 8782.
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.

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: This Contract shall generally consist of the construction of new roadway sections, asphalt grind and overlay, curb ramp improvements, sidewalk replacement, curb/gutter construction, flashing beacon replacement, catch basin replacement, site restoration, and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications

Estimate: $1,059,200 not including sales tax

Paid Sick Leave: The City of Tacoma requires all employers to provide paid sick leave as set forth in Title 18 of the Tacoma Municipal Code. For more information, visit our Minimum Employment Standards Paid Sick Leave webpage.

Americans with Disabilities Act (ADA Information): The City of Tacoma, in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and activities. Specification materials can be made available in an alternate format by emailing Gail Himes at ghimes@cityoftacoma.org, or by calling her collect at 253-591-5785.

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

Additional Information: Requests for information regarding the specifications may be obtained by contacting Doreen Klaaskate, Senior Buyer by email to dklaaskate@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.

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. **SIGNATURE PAGE**: 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. **CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).

5. **STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).

6. **LIST OF SUBCONTRACTOR CATEGORIES OF WORK**: Bidder shall list all subcontractor(s) proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW and electrical as described in Chapter 19.28 RCW.

   **FAILURE TO LIST SUBCONTRACTORS WILL RESULT IN THE BID BEING NON-RESPONSIVE AND THEREFORE VOID.**

7. **EQUITY IN CONTRACTING (EIC) UTILIZATION FORM**

   Bidders shall complete the Equity in Contracting (EIC) Utilization Form in accordance with Chapter 1.07 of the City of Tacoma Municipal Code (TMC). This form shall be fully and accurately completed and returned with submission of the Bid and will be used to determine if the Bidder is in compliance with EIC regulations.
As part of the City of Tacoma’s ongoing work to address past disparities and to increase the City’s contracting with and utilization of historically underutilized businesses, the EIC Program places requirements on City contracts for utilization of businesses certified by the Washington State Office of Minority and Women’s Business Enterprise and approved by the EIC Program. The EIC Program also provides guidance and technical assistance to Certified Businesses who are interested in providing supplies, services and public works to the City. The EIC Program requirements are contained in TMC 1.07.

See Part III City of Tacoma – Equity in Contracting Program for additional information.

**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. LEAP UTILIZATION PLAN: Shall be submitted at the Pre-Construction Meeting.

F. 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.

**LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP):**

The Local Employment and Apprenticeship Training Program (LEAP) has been adopted to counteract economic and social ills, which accompany high rates of unemployment within the City of Tacoma. The Tacoma City Council established the mandatory LEAP program for public works contracts pursuant to Ordinance No. 28520. The primary goal is to provide an opportunity for City of Tacoma residents and Tacoma Public Utilities ratepayers to enter apprenticeship programs, acquire skills, and perform work that will provide living wages.

LEAP Goals:

1. Local Employment Utilization Goal – Prime contractor is required to ensure that 15 percent of the labor hours worked on the project are performed by residents of the City of Tacoma or economically distressed areas of the Tacoma Public Utilities service area.

2. Apprentice Utilization Goal - Prime contractor is required to ensure that 15 percent of the labor hours worked on the project are performed by apprentices who reside in the Tacoma Public Utilities service area.
NOTE: The two goals can be satisfied concurrently if the prime contractor utilizes individuals who simultaneously meet the requirements of both goals, such as an apprentice who resides in an economically distressed area of the Tacoma Public Utilities service area.
CITY OF TACOMA
FINANCE/PURCHASING DIVISION
SPECIAL NOTICE TO BIDDERS

Public works and improvement projects for the City of Tacoma are subject to Washington state law and Tacoma Municipal Code, including, but not limited to the following:

I.  STATE OF WASHINGTON

A. RESPONSIBILITY CRITERIA – STATE OF WASHINGTON

In order to be considered a responsible bidder the bidder must meet the following mandatory state responsibility criteria contained in RCW 39.04.350:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
2. Have a current Washington Unified Business Identifier (UBI) number;
3. If applicable:
   a. Have Industrial Insurance (workers’ compensation) coverage for the bidder’s employees working in Washington, as required in Title 51 RCW;
   b. Have a Washington Employment Security Department number, as required in Title 50 RCW;
   c. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW and;
4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 (unlicensed or unregistered contractors) or 39.12.065(3) (prevailing wage).
5. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW and must designate a person or persons to be trained on these requirements. The training must be provided by the department of labor and industries or by a training provider whose curriculum is approved by the department. Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this subsection.

B. RECIPROCAL PREFERENCE FOR RESIDENT CONTRACTORS:

Effective March 30, 2012, RCW 39.04.380 imposes a reciprocal preference for resident contractors. Any bid received from a non-resident contractor from a state that provides an in-state percentage bidding preference is subject application of a comparable percentage disadvantage.

A non-resident contractor from a state that provides an in-state percentage bidding preference means a contractor that:

1. Is from a state that provides a percentage bid preference to its resident contractors bidding on public works projects, and
2. Does not have a physical office located in Washington at the time of bidding on the City of Tacoma public works project.

The state of residence for a non-resident contractor is the state in which the contractor was incorporated, or if not a corporation, the state in which the contractor’s business entity was formed.
The City of Tacoma will evaluate all non-resident contractors for an out of state bidder preference. If the state of the non-resident contractor provides an in state contractor preference, a comparable percentage disadvantage will be applied to the non-resident contractor’s bid prior to contract award. The responsive and lowest and best responsible bidder after application of any non-resident disadvantage will be awarded the contract.

The reciprocal preference evaluation does not apply to public works procured pursuant to RCW 39.04.155, RCW 39.04.280, federally funded competitive solicitations where such agencies prohibit the application of bid preferences, or any other procurement exempt from competitive bidding.

Bidders must provide the City of Tacoma with their state of incorporation or the state in which the business entity was formed and include whether the bidder has a physical office located in Washington.

The bidder shall submit documentation demonstrating compliance with above criteria on the enclosed State Responsibility and Reciprocal Bidder Information form.

C. SUBCONTRACTOR RESPONSIBILITY

1. The Contractor shall include the language of this subcontractor responsibility section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. The requirements of this section apply to all subcontractors regardless of tier.

2. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria:

   a. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;

   b. Have a current Washington Unified Business Identifier (UBI) number;

   c. If applicable, have:

      a. Have Industrial Insurance (workers’ compensation) coverage for the bidder’s employees working in Washington, as required in Title 51 RCW;
      b. A Washington Employment Security Department number, as required in Title 50 RCW;
      c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
      d. An electrical contractor license, if required by Chapter 19.28 RCW;
      e. An elevator contractor license, if required by Chapter 70.87 RCW and;

3. Not be disqualified from bidding on any public works contract under RCW 39.06.010 (unlicensed or unregistered contractors) or 39.12.065(3) (prevailing wage).
II. CITY OF TACOMA

A. SUPPLEMENTAL RESPONSIBILITY CRITERIA – CITY OF TACOMA:

In order to be considered a responsible bidder, the prospective bidder shall have all of the following qualifications set forth in Tacoma Municipal Code 1.06.262:

1. Adequate financial resources or the ability to secure such resources;
2. The necessary experience, stability, organization and technical qualifications to perform the proposed contract;
3. The ability to comply with the required performance schedule, taking into consideration all existing business commitments;
4. A satisfactory record of performance, integrity, judgment and skills; and
5. Be otherwise qualified and eligible to receive an award under applicable laws and regulations.

In addition to the mandatory bidder responsibility criteria listed immediately above, the City may, in addition to price, consider any or all of the following criteria contained in Tacoma Municipal Code Chapter 1.06.262 in determining bidder responsibility:

1. The ability, capacity, experience, stability, technical qualifications and skill of the respondent to perform the contract;
2. Whether the respondent can perform the contract within the time specified, without delay or interference;
3. Integrity, reputation, character, judgment, experience, and efficiency of the respondents, including past compliance with the City’s Ethics Code;
4. Quality of performance of previous contracts;
5. Previous and existing compliance with laws and ordinances relating to contracts or services;
6. Sufficiency of the respondent’s financial resources;
7. Quality, availability, and adaptability of the supplies, purchased services or public works to the particular use required;
8. Ability of the respondent to provide future maintenance and service on a timely basis;
9. Payment terms and prompt pay discounts;
10. The number and scope of conditions attached to the submittal;
11. Compliance with all applicable City requirements, including but not limited to the City's Ethics Code and its Equity in Contracting and Local Employment and Apprenticeship Training programs;
12. Other qualification criteria set forth in the specification or advertisement that the appropriate department or division head determines to be in the best interests of the City.

The City may require bidders to furnish information, sworn or certified to be true, to demonstrate compliance with the City responsibility criteria set forth above. If the city manager or director of utilities is not satisfied with the sufficiency of the information provided, or if the prospective respondent does not substantially meet all responsibility requirements, any submittal from such respondent must be disregarded.
B. ADDITIONAL SUPPLEMENTAL CRITERIA – NOT APPLICABLE

C. MODIFICATIONS TO SUPPLEMENTAL CRITERIA

Potential bidders may request modifications to the City’s supplemental criteria by submitting a written request to the Purchasing Division via email to bids@cityoftacoma.org no later than 5:00 p.m. Pacific Time, three days prior to the submittal deadline. Please include the Specification No. and Title when submitting such requests. Requests must include justification for why certain criteria should be modified. Requests received after this date and time will not be considered.

The City will respond to a timely submitted request prior to the bid opening date. Changes to the supplemental criteria, if warranted, will be issued by addendum to the solicitation documents and posted to the City’s website for the attention of all prospective bidders.

D. DETERMINATION OF BIDDER RESPONSIBILITY

If the City determines the bidder does not meet the criteria above and is therefore not a responsible bidder, the City shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees, the bidder may appeal the determination in a manner consistent with the City’s Protest Policy. Appeals are coordinated by the Purchasing Division and heard by the Procurement and Payables Division manager for contracts less than or equal to $500,000 and by Contracts and Awards Board for contracts greater than $500,000.
PART I

BID PROPOSAL AND CONTRACT FORMS
BID PROPOSAL
SPECIFICATION NO. PW22-0012F
TPU ADMIN COMPLEX STREET IMPROVEMENTS

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. PWR-01132-01 (TPU) and PWK-00438-40 (Streets Initiative) 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.

3. The base bid will be determined by adding the total of Schedule A and Schedule B.

4. Item numbers denoted with a “***” shall be considered common line items between the schedules and the unit prices shall match the corresponding line items in each schedule. If the unit prices of common bid items denoted with a “***” do not match, the lesser of the two unit prices will be selected to correct the bid proposal. Corrections shall be made according to Section 1-03.1 of the Special Provisions.

All bid items are sorted in the following groups:

- **Schedule A: TPU Roadway, Bid Items A1 – A57**
- **Schedule B: Streets Initiative Roadway, Bid Items B1 – B25**
### Schedule A: TPU Roadway, Bid Items A1 – A57

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>SPEC. NO.</th>
<th>ITEM DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT PRICE</th>
<th>TOTAL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>1-07</td>
<td>SPCC Plan</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A2</td>
<td>1-09</td>
<td>Mobilization</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A3</td>
<td>1-10</td>
<td>Pedestrian Traffic Control</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A4</td>
<td>1-10</td>
<td>Project Temporary Traffic Control</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A5</td>
<td>2-01</td>
<td>Clearing and Grubbing</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A6</td>
<td>2-03</td>
<td>Roadway Excavation Incl. Haul</td>
<td>CY 160</td>
<td>$ ___________</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A7</td>
<td>2-03</td>
<td>Gravel Borrow Incl. Haul</td>
<td>CY 20</td>
<td>$ ___________</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A8</td>
<td>2-09</td>
<td>Structure Excavation Class B</td>
<td>CY 135</td>
<td>$ ___________</td>
<td>$ ___________</td>
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<tr>
<td>A9</td>
<td>2-14</td>
<td>Remove Existing Pavement, Type I, Class A2</td>
<td>SY 15</td>
<td>$ ___________</td>
<td>$ ___________</td>
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<tr>
<td>A10</td>
<td>2-14</td>
<td>Remove Existing Pavement, Type I, Class A4</td>
<td>SY 3,625</td>
<td>$ ___________</td>
<td>$ ___________</td>
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<tr>
<td>A11</td>
<td>2-15</td>
<td>Remove Existing Pavement, Type II, Class A4</td>
<td>SY 120</td>
<td>$ ___________</td>
<td>$ ___________</td>
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<tr>
<td>A12</td>
<td>2-14</td>
<td>Remove Existing Pavement, Type I, Class C6</td>
<td>SY 625</td>
<td>$ ___________</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A13</td>
<td>2-15</td>
<td>Remove Curb</td>
<td>LF 1,080</td>
<td>$ ___________</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A14</td>
<td>2-16</td>
<td>Remove Catch Basin</td>
<td>EA 5</td>
<td>$ ___________</td>
<td>$ ___________</td>
</tr>
<tr>
<td>A15</td>
<td>4-04</td>
<td>Crushed Surfacing Top Course</td>
<td>TN 245</td>
<td>$ ___________</td>
<td>$ ___________</td>
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<tr>
<td>ITEM NO.</td>
<td>SPEC. NO.</td>
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<td>ESTIMATED QUANTITY</td>
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<td>TOTAL AMOUNT</td>
</tr>
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<tr>
<td>A16</td>
<td>4-04</td>
<td>Crushed Surfacing Base Course</td>
<td>TN 25</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A17</td>
<td>5-04</td>
<td>Planing Bituminous Pavement</td>
<td>SY 590</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A18***</td>
<td>5-04</td>
<td>HMA CL 1/2&quot; PG 58H-22, per ton</td>
<td>TN 795</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A19</td>
<td>5-05</td>
<td>Cement Conc. Pavement, 8-Inch Section</td>
<td>SY 180</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A20***</td>
<td>7-05</td>
<td>Adjust to Grade</td>
<td>EA 6</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A21***</td>
<td>7-05</td>
<td>Adjust Existing Manhole, Furnish New Frame and Cover</td>
<td>EA 5</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A22***</td>
<td>7-05</td>
<td>Adjust Existing Valve Chamber to Grade</td>
<td>EA 3</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A23</td>
<td>7-05</td>
<td>Catch Basin Type 1</td>
<td>EA 6</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A24</td>
<td>7-05</td>
<td>Reconnect Existing Sewer Pipe, 6-In. Diam., to New Structure</td>
<td>EA 2</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A25</td>
<td>7-05</td>
<td>Reconnect Existing Sewer Pipe, 12-In. Diam., to New Structure</td>
<td>EA 1</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A26</td>
<td>7-05</td>
<td>Connect New Sewer Pipe, 12-In Diam., to Existing Structure</td>
<td>EA 5</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>A27</td>
<td>7-05</td>
<td>Connect New Sewer Pipe, 8-In Diam., to Existing Structure</td>
<td>EA 1</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>A28</td>
<td>7-17</td>
<td>Removal and Replacement of Unsuitable Material Incl. Haul</td>
<td>CY 55</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>A29</td>
<td>7-17</td>
<td>Ductile Iron Sewer Pipe 12 In. Diam.</td>
<td>LF 26</td>
<td>$_________</td>
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<td>A30</td>
<td>7-17</td>
<td>PVC Storm Sewer Pipe 8 In. Diam.</td>
<td>LF 30</td>
<td>$_________</td>
<td>$_________</td>
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<td>ITEM NO.</td>
<td>SPEC. NO.</td>
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<td>ESTIMATED QUANTITY</td>
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<td>A31</td>
<td>7-17</td>
<td>PVC Storm Sewer Pipe 12 In. Diam.</td>
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<td>A33</td>
<td>8-01</td>
<td>Stormwater Pollution Prevention Plan (SWPPP)</td>
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<tr>
<td>A34</td>
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<td>Site Restoration</td>
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<td>A35</td>
<td>8-03</td>
<td>2-inch PVC Irrigation Sleeve</td>
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<td>75</td>
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<td>A36</td>
<td>8-04</td>
<td>Cement Conc. Traffic Curb and Gutter</td>
<td>LF</td>
<td>865</td>
<td>$_________</td>
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<tr>
<td>A37</td>
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<td>Cement Conc. Traffic Curb</td>
<td>LF</td>
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<td>$_________</td>
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<td>A38</td>
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<td>Cement Conc. Valley Gutter</td>
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<td>A39</td>
<td>8-09</td>
<td>Raised Pavement Marker Type 1</td>
<td>HUN</td>
<td>1</td>
<td>$_________</td>
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<tr>
<td>A40***</td>
<td>8-09</td>
<td>Raised Pavement Marker Type 2</td>
<td>HUN</td>
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<td>$_________</td>
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<tr>
<td>A41***</td>
<td>8-13</td>
<td>Poured Monument</td>
<td>EA</td>
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<tr>
<td>A42</td>
<td>8-14</td>
<td>Cement Conc. Sidewalk</td>
<td>SY</td>
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<td>A43</td>
<td>8-14</td>
<td>Cement Conc. Curb Ramp</td>
<td>EA</td>
<td>11</td>
<td>$_________</td>
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<td>A44</td>
<td>8-20</td>
<td>Adjust Existing Junction Box, Furnish New Box</td>
<td>EA</td>
<td>3</td>
<td>$_________</td>
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<tr>
<td>A45</td>
<td>8-20</td>
<td>Signal Plan, West Leg @ S 35th St &amp; Washington St (SG-1)</td>
<td>LS</td>
<td>1</td>
<td>Lump Sum</td>
</tr>
<tr>
<td>A46</td>
<td>8-21</td>
<td>Permanent Signing</td>
<td>LS</td>
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<tr>
<td>ITEM NO.</td>
<td>SPEC. NO.</td>
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<td>ESTIMATED QUANTITY</td>
<td>UNIT PRICE</td>
<td>TOTAL AMOUNT</td>
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<td>A47***</td>
<td>8-22</td>
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<td>A48***</td>
<td>8-22</td>
<td>Plastic Wide Lane Line</td>
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<td>A49***</td>
<td>8-22</td>
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<td>A50***</td>
<td>8-22</td>
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<td>A53***</td>
<td>8-22</td>
<td>Plastic Bicycle Lane Symbol</td>
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<td>A54</td>
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<td>Plastic Access Parking Space Symbol with Background</td>
<td>EA</td>
<td>2</td>
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<td>A55</td>
<td>8-22</td>
<td>Plastic Crosshatch Marking</td>
<td>LF</td>
<td>60</td>
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<td>A56</td>
<td>8-22</td>
<td>Plastic Speed Bump Symbol</td>
<td>EA</td>
<td>2</td>
<td>$ __________</td>
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<tr>
<td>A57</td>
<td>8-22</td>
<td>Painted Curb</td>
<td>LF</td>
<td>38</td>
<td>$ __________</td>
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**TPU Roadway Base Bid Total**  
(Bid Items No. A1 – A57)  
$ ______________________   (1)
### Schedule B: Streets Initiative Roadway, Bid Items B1 – B25

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>SPEC. NO.</th>
<th>ITEM DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT PRICE</th>
<th>TOTAL AMOUNT</th>
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<tr>
<td>B1</td>
<td>1-07</td>
<td>SPCC Plan</td>
<td>LS 1</td>
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<tr>
<td>B2</td>
<td>1-09</td>
<td>Mobilization</td>
<td>LS 1</td>
<td>Lump Sum</td>
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<tr>
<td>B3</td>
<td>1-10</td>
<td>Pedestrian Traffic Control</td>
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<td>B4</td>
<td>1-10</td>
<td>Project Temporary Traffic Control</td>
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<td>$ __________</td>
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<td>B5</td>
<td>2-01</td>
<td>Clearing and Grubbing</td>
<td>LS 1</td>
<td>Lump Sum</td>
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<td>B6</td>
<td>5-04</td>
<td>Planing Bituminous Pavement</td>
<td>SY 9,025</td>
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<td>B7***</td>
<td>5-04</td>
<td>HMA CL 1/2&quot; PG 58H-22, per ton</td>
<td>TN 1,160</td>
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<td>B8***</td>
<td>7-05</td>
<td>Adjust to Grade</td>
<td>EA 1</td>
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<td>B9***</td>
<td>7-05</td>
<td>Adjust Existing Manhole, Furnish New Frame and Cover</td>
<td>EA 9</td>
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<td>$ __________</td>
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<td>B10***</td>
<td>7-05</td>
<td>Adjust Existing Valve Chamber to Grade</td>
<td>EA 3</td>
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<td>$ __________</td>
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<tr>
<td>B11</td>
<td>7-05</td>
<td>Replace Catch Basin Grate</td>
<td>EA 5</td>
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<td>$ __________</td>
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<td>B12</td>
<td>8-01</td>
<td>Erosion/Water Pollution Control</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ __________</td>
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<td>B13</td>
<td>8-01</td>
<td>Stormwater Pollution Prevention Plan (SWPPP)</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ __________</td>
</tr>
<tr>
<td>B14</td>
<td>8-02</td>
<td>Site Restoration</td>
<td>LS 1</td>
<td>Lump Sum</td>
<td>$ __________</td>
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<td>B15***</td>
<td>8-09</td>
<td>Raised Pavement Marker Type 2</td>
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<td>ITEM NO.</td>
<td>SPEC. NO.</td>
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<td>TOTAL AMOUNT</td>
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<td>Unit</td>
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<td>B16***</td>
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<td>Poured Monument</td>
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<td>2</td>
<td>$ ___________ $ ___________</td>
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<td>B17</td>
<td>8-21</td>
<td>Permanent Signing</td>
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<td>B18</td>
<td>8-22</td>
<td>Removing Plastic line</td>
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<td>Removing Plastic Traffic Marking</td>
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<td>$ ___________ $ ___________</td>
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<td>8-22</td>
<td>Plastic Traffic Letter</td>
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<td>B25</td>
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<td>Plastic Sharrow Symbol</td>
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<td>$ ___________ $ ___________</td>
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<td>Streets Initiative Roadway Base Bid Total (Bid Items No. B1 – B25)</td>
<td>$ _________________ (2)</td>
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<td></td>
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<td>TOTAL BASE BID</td>
<td>(1) + (2)</td>
<td>(Not Including Sales Tax)</td>
<td>$ _________________ (3)</td>
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</tbody>
</table>
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 1-03.1 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: ____________________________________________
SIGNATURE PAGE
CITY OF TACOMA
PUBLIC WORKS ENGINEERING

All submittals must be in ink or typewritten, executed by a duly authorized officer or representative of the bidding/proposing entity, and received and time stamped as directed in the Request for Bids page near the beginning of the specification. If the bidder/proposer is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.

REQUEST FOR BIDS SPECIFICATION NO. PW22-0012F
TPU ADMIN COMPLEX STREET IMPROVEMENTS

The undersigned bidder/proposer hereby agrees to execute the proposed contract and furnish all materials, labor, tools, equipment and all other facilities and services in accordance with these specifications.

The bidder/proposer agrees, by submitting a bid/proposal under these specifications, that in the event any litigation should arise concerning the submission of bids/proposals or the award of contract under this specification, Request for Bids, Request for Proposals or Request for Qualifications, 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.

Non-Collusion Declaration

The undersigned bidder/proposer hereby certifies under penalty of perjury that this bid/proposal is genuine and not a sham or collusive bid/proposal, or made in the interests or on behalf of any person or entity not herein named; and that said bidder/proposer has not directly or indirectly induced or solicited any contractor or supplier on the above work to put in a sham bid/proposal or any person or entity to refrain from submitting a bid/proposal; and that said bidder/proposer has not, in any manner, sought by collusion to secure to itself an advantage over any other contractor(s) or person(s).

Bidder/Proposer’s Registered Name

________________________________________

Signature of Person Authorized to Enter into Contracts for Bidder/Proposer

________________________________________

Date

Printed Name and Title

________________________________________

(Area Code) Telephone Number / Fax Number

________________________________________

State Business License Number
in WA, also known as UBI (Unified Business Identifier) Number

________________________________________

State Contractor’s License Number
(See Ch. 18.27, R.C.W.)

________________________________________

E-Mail Address for Communications

Addendum acknowledgement #1_____ #2_____ #3_____ #4_____ #5_____

THIS PAGE MUST BE SIGNED AND RETURNED WITH SUBMITTAL.
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: 

______________________________  

______________________________  

______________________________  

______________________________  

______________________________  

______________________________  

______________________________  

______________________________  

______________________________  

______________________________  

Received return of deposit in the sum of $ _______________________________________________
Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (March 22, 2022), 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.
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
List of Subcontractor Categories of Work

Subcontractor(s) that are proposed to perform the work of heating, ventilation and air conditioning, and/or plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW must be listed below. **This information must be submitted with the bid proposal or within one hour of the published bid submittal time via email to bids@cityoftacoma.org.**

Subcontractor(s) that are proposed to perform the work of structural steel installation and/or rebar installation must be listed below. **This information must be submitted with the bid proposal or within forty-eight hours of the published bid submittal time via email to bids@cityoftacoma.org.**

Failure to list subcontractors or naming more than one subcontractor to perform the same work will result in your bid being non-responsive. Contractors self-performing must list themselves below. The work to be performed is to be listed below the subcontractor(s) name.

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<thead>
<tr>
<th>Subcontractor Name</th>
<th>Work to be Performed</th>
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<th>Subcontractor Name</th>
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<th>Subcontractor Name</th>
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<tr>
<th>Subcontractor Name</th>
<th>Work to be Performed</th>
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EQUITY IN CONTRACTING UTILIZATION FORM

This form is to document only the contractors, subcontractors, material suppliers or other types of firms that are intended to be used to meet the stated EIC requirements for the contract awarded from this solicitation. This information will be used to determine contract award. Additional forms may be used if needed.

- You must include this form with your bid submittal in order for your bid to be responsive.
- Prime contractors are required to solicit bids from firms approved by the City of Tacoma Equity in Contracting Program as Certified Businesses.
- It is the prime contractor’s responsibility to check the certification status of the firms intended to be utilized prior to the submittal deadline.

Bidder’s Name: ________________________________
Address: ____________________________________ City/State/Zip: _______________________
Spec. No. _________________ Base Bid: $ _____________

Complete company names and phone numbers are required to verify your usage of qualifying firms.

<table>
<thead>
<tr>
<th>a. Company Name and Certification Number(s)</th>
<th>b. MBE, WBE, or SBE (Write all that apply)</th>
<th>c. NAICS code(s)</th>
<th>d. Contractor Bid Amount (100%)</th>
<th>e. Material Supplier Bid Amount (20%)</th>
<th>f. Estimated MBE Usage Dollar Amount</th>
<th>g. Estimated WBE Usage Dollar Amount</th>
<th>h. Estimated SBE Usage Dollar Amount</th>
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i. MBE Utilization %  
j. WBE Utilization %  
k. SBE Utilization %

By signing and submitting this form the bidder certifies that the EIC firms listed will be used on this project including all applicable change orders.

Type or Print Name of Responsible Officer / Title ________________________________ Signature of Responsible Officer ___________________________ Date ________________

CCD/SBE/FORMS revised April 2021
INSTRUCTIONS FOR COMPLETING EIC UTILIZATION FORM

The purpose of these instructions is to assist bidders in properly completing the EIC Utilization Form.

This form when submitted with your bid provides information to the City of Tacoma to accurately review and evaluate your proposed EIC usage.

1. * Base Bid is the prime contractor’s bid, plus any alternates, additives and deductive selected by the City. Also, please refer to Items #10-12 below.

2. Column “a” – List all EIC companies that you will be awarding a contract to if you are the successful bidder.

3. Column "b” – Identify if this firm is being utilized as an MBE, WBE, or SBE. (Firms may count towards multiple requirements)

4. Column "c” – List the appropriate NAICS code for the scope of work, services, or materials/supplies for each contractor.

5. Column “d” – The bid amount must be indicated for all listed EIC that you plan on doing business with. This quote is the price that you and the contractor have negotiated prior to bid opening.

6. Column “e” – The bid amount must be indicated for all listed EIC that you plan on doing business with. This quote is the price that you and the material supplier have negotiated prior to bid opening.

8. Column "f” – Estimated MBE Usage Dollar Amount: For all MBE firms used, multiply the amount in Column “d” by 1.0 plus the amount in Column “e” by 0.20. Insert the total amount in this column.

9. Column "g” – Estimated WBE Usage Dollar Amount: For all WBE firms used, multiply the amount in Column “d” by 1.0 plus the amount in Column “e” by 0.20. Insert the total amount in this column.

10. Column "h” – Estimated SBE Usage Dollar Amount: For all MBE, WBE, or SBE firms used, Multiplied the amount in Column “d” by 1.0 plus the amount in Column “e” by 0.20. Insert the total amount in this column.

11. Block “i” – The percent of actual MBE utilization calculated on the Base Bid only. (Divide the sum of Estimated MBE Usage Dollar Amount (Column “f”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “f” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

12. Block “j” – The percent of actual WBE utilization calculated on the Base Bid only. (Divide the sum of Estimated WBE Usage Dollar Amount (Column "g") by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “g” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)
13. Block “k” – The percent of actual SBE utilization calculated on the Base Bid only. (Divide the sum of Estimated SBE Usage Dollar Amount (Column “h”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “h” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

It is the prime contractor’s responsibility to check the status of EIC contractors prior to bid opening. Call the EIC Office at 253-591-5630 for additional information.
EIC REQUIREMENT FORM

EQUITY IN CONTRACTING REQUIREMENTS & PROCEDURES:

All bidders must complete and submit with their bid the following solicitation form contained in the bid submittal package:

City of Tacoma – EIC Utilization Form

IMPORTANT NOTE:

It is the bidder’s responsibility to ensure that the subcontractor(s) listed on the EIC Utilization Form are currently certified by the State of Washington’s Office of Minority and Women Business Enterprises (OMWBE) at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5630 between 8 AM and 5 PM, Monday through Friday or the OMWBE Office at (866) 208-1064. Please refer to the City of Tacoma EIC code.

<table>
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<tr>
<th>Equity in Contracting Requirements</th>
<th>Minority Business Enterprise Requirement</th>
<th>Women Business Enterprise Requirement</th>
<th>Small Business Enterprise Requirement</th>
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<td>11%</td>
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A list of EIC-eligible companies is available on the following web site addresses:

www.omwbe.diversitycompliance.com*

MATERIAL MISSTATEMENTS CONCERNING COMPLETED ACTIONS BY THE BIDDER IN ANY SWORN STATEMENT OR FAILURE TO MEET COMMITMENTS AS INDICATED ON THE EIC UTILIZATION FORM MAY RENDER THE BIDDER IN DEFAULT OF CITY ORDINANCE 1.07

CCD/SBE: PW22-0012F
Date of Record: 02/28/2022

*For the OMWBE list, be sure to look for businesses in Pierce, King, Lewis, Mason, Grays Harbor, Thurston, or any counties adjacent to the county in which the work is performed per 1.07.050(2)(b-c). Contact the EIC Office if you have any questions.
CONTRACT

This Contract is made and entered into effective this _____ day of ______________, (“Effective Date”) by and between the City of Tacoma, a Municipal Corporation of the State of Washington (“City”), and (“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. _____ and _____ together with all authorized addenda.
2. Contractor’s submittal (or specifically described portions thereof) dated _____ submitted in response to Specification No. _____ and _____.
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.

Remove this paragraph and #1 and #2 if there are no additional attachments to the contract (attachments would be things other than a specific, contract, or bonds).

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.

II. The total price to be paid by City for Contracts full and complete performance hereunder may not exceed: ______________, plus applicable sales tax.

III. 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.

IV. 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.

V. 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.

VI. 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: ________________________________

Enter title of dept or div staff w/auth to sign for this $ amt Signature

By: ________________________________

Choose an item. ________________________________

Printed Name

Form No. SPEC-120A Revised: 06/28/2018
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 waivers 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.
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: ________________________________
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

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<td>Contract No.</td>
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(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: _______________________

Form No. SPEC-100A 04/09/2020
GENERAL RELEASE TO THE CITY OF TACOMA

The undersigned, named as the contractor for Project / Spec. # 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

SPECIAL PROVISIONS
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INTRODUCTION
(******)

The following special provisions shall be used in conjunction with the “2021 Standard Specifications for Road, Bridge and Municipal Construction” and “Standard Plans for Road, Bridge, and Municipal Construction” as prepared by the Washington State Department of Transportation (WSDOT). State Standard Specifications are available through WSDOT, by calling (360) 705-7430, emailing engrpubs@wsdot.wa.gov, or may be downloaded, free of charge, from this location on the WSDOT home page:
http://www.wsdot.wa.gov/Publications/Manuals/M41-10.htm

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

The GSPs are labeled under the headers of each GSP, with the date of the GSP and its source, as follows:

(May 18, 2007  APWA GSP)
(August 7, 2006  WSDOT GSP)
(April 2, 2007  Tacoma GSP)

The project specific Special Provisions are labeled under the headers of each Special Provision as follows:
(******)

A pre-bid conference will not be held.

DESCRIPTION OF WORK
(******)

This Contract shall generally consist of the construction of new roadway sections, asphalt grind and overlay, curb ramp improvements, sidewalk replacement, curb/gutter construction, flashing beacon replacement, catch basin replacement, site restoration, and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

END OF SECTION
1-01 DEFINITIONS AND TERMS

1-01.3 Definitions
(January 4, 2016 APWA GSP)

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

Dates

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

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

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

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

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

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

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

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

Supplement this Section with the following:

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

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

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

**Additive**

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

**Alternate**

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

**Business Day**

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

**Contract Bond**

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

**Contract Documents**

See definition for “Contract”.

**Contract Time**

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

**Notice of Award**

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

**Notice to Proceed**

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

**Traffic**

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

*This section is supplemented with the following:*

(April 15, 2020 Tacoma GSP)

All references in the Standard Specifications to the term “Proposal Bond” shall be revised to read “Bid Bond.”
**Base Bid**
The summation of Bid Item amounts (extensions) in the Bid Forms, excluding Additives, Alternates, Deductives, Force Accounts, and taxes collected separately pursuant to Section 1-07.2.

**Calendar Day**
The time period of 24 hours measured from midnight to the next midnight, including weekends and holidays.

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

**Day**
Unless otherwise specified, a calendar day.

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

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

**Standard Specifications**
Divisions One through Nine of the specified edition of the WSDOT “Standard Specifications for Road, Bridge, and Municipal Construction.”

END OF SECTION
1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders
Delete this section and replace it with the following:

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

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

1-02.2 Plans and Specifications
(June 27, 2011 APWA GSP)
Delete this section and replace it with the following:

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

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

<table>
<thead>
<tr>
<th>To Prime Contractor</th>
<th>No. of Sets</th>
<th>Basis of Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduced plans (11&quot; x 17&quot;)</td>
<td>6</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Contract Provisions</td>
<td>6</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Large plans (e.g., 22&quot; x 34&quot;)</td>
<td>2</td>
<td>Furnished only upon request.</td>
</tr>
</tbody>
</table>

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

1-02.4(1) General
(June 24, 2021 APWA GSP Option B)

The first sentence of the seventh paragraph, beginning with “Any prospective Bidder desiring…,” is revised to read:

Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business 6 business days preceding the bid opening to allow a written reply to reach all prospective Bidders before the submission of their Bids.
1-02.5 Proposal Forms
(July 31, 2017 APWA GSP)
Delete this section and replace it with the following:

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

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

1-02.6 Preparation of Proposal
(December 10, 2020 APWA GSP, Option B)
Supplement the second paragraph with the following:

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

5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

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

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

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

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

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

The fourth paragraph is revised to read:

(******)

The bidder shall submit the following completed forms:

City of Tacoma – Equity in Contracting Utilization Form

Add the following new section:

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

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

1-02.7 Bid Deposit
(March 1, 2021 Tacoma GSP)

Delete this section and replace it with the following:

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

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

If submitting your bid electronically, a scanned version of the original bid bond or cashier’s check shall accompany your electronic bid submittal. The original bid bond or cashier’s check shall be sent to the Contracting Agency and received by the Contracting Agency within 7 calendar days of the bid opening or the bidder may be deemed non-responsive.

Original bid bonds or cashier’s check will be delivered to:

City of Tacoma Procurement & Payables Division
Tacoma Public Utilities
P.O. Box 11007
Tacoma, WA 98411-0007

If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.
Delete this section and replace it with the following:

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

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:

- DBE Written Confirmation Document from each DBE firm listed on the Bidder’s completed DBE Utilization Certification (WSDOT 272-056);
- Good Faith Effort (GFE) Documentation
- DBE Bid Item Breakdown (WSDOT 272-054)
- DBE 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. The 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) shall be submitted as follows:

1. In a sealed envelope labeled the same as for the Proposal, with “Supplemental Information” added, or
2. By e-mail 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” (DBE 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 Tuesday on which the normal work processes of the Contracting Agency resume.
1-02.10 Withdrawing, Revising, or Supplementing Proposal
(March 1, 2021 Tacoma GSP)

Delete this section and replace it with the following:
After submitting a 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 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.

1-02.12 Public Opening of Proposals
(March 1, 2021 Tacoma GSP)

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.

This public bid opening will be held via webinar. Please use the link below or on the Request for Bids page to join the webinar:

https://us02web.zoom.us/j/83250498294

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

1-02.13 Irregular Proposals
(October 18, 2013 Tacoma 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 the EIC forms as required in Section 1-02.6;
1. The Bid Proposal does not constitute a definite and unqualified offer to meet
the material terms of the Bid invitation; or

j. 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 reject 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
(October 18, 2013 Tacoma GSP)
Delete this section and replace it with the following:

A Bidder will be deemed not responsible if:

1. the Bidder does not meet the mandatory bidder responsibility criteria in RCW
   39.04.350(1), as amended; or
2. evidence of collusion exists with any other Bidder or potential Bidder.
   Participants in collusion will be restricted from submitting further bids; or
3. the Bidder, in the opinion of the Contracting Agency, is not qualified for the
   work or to the full extent of the bid, or to the extent that the bid exceeds the
   authorized prequalification amount as may have been determined by a
   prequalification of the Bidder; or
4. an unsatisfactory performance record exists based on past or current
   Contracting Agency work or for work done for others, as judged from the
   standpoint of conduct of the work; workmanship; or progress; affirmative
   action; equal employment opportunity practices; termination for cause; or
   Disadvantaged Business Enterprise, Minority Business Enterprise, or
   Women's Business Enterprise utilization; or
5. there is uncompleted work (Contracting Agency or otherwise) which in the
   opinion of the Contracting Agency might hinder or prevent the prompt
   completion of the work bid upon; or
6. the Bidder failed to settle bills for labor or materials on past or current
   contracts, unless there are extenuating circumstances acceptable to the
   Contracting Agency; or
7. the Bidder has failed to complete a written public contract or has been
   convicted of a crime arising from a previous public contract, unless there are
   extenuating circumstances acceptable to the Contracting Agency; or
8. the Bidder is unable, financially or otherwise, to perform the work, in the
   opinion of the Contracting Agency; or
9. there are any other reasons deemed proper by the Contracting Agency; or
10. the Bidder fails to meet the Project-specific supplemental bidder responsibility
    criteria listed in the Notice to All Bidders, 1-02.1, or
11. The bidder fails to meet the EIC requirements as described in Section 1-02.6.
As evidence that the Bidder meets the bidder responsibility criteria above, the apparent
two lowest Bidders must submit to the Contracting Agency within 24 hours of the bid
submittal deadline, documentation (sufficient in the sole judgment of the Contracting
Agency) demonstrating compliance with all applicable responsibility criteria, including all
documentation specifically listed in the supplemental criteria. The Contracting Agency
reserves the right to request such documentation from other Bidders as well, and to
request further documentation as needed to assess bidder responsibility.

The basis for evaluation of Bidder compliance with these supplemental criteria shall be
any documents or facts obtained by Contracting Agency (whether from the Bidder or
third parties) which any reasonable owner would rely on for determining such
compliance, including but not limited to: (i) financial, historical, or operational data from
the Bidder; (ii) information obtained directly by the Contracting Agency from owners for
whom the Bidder has worked, or other public agencies or private enterprises; and (iii)
any additional information obtained by the Contracting Agency which is believed to be
relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility
criteria above and is therefore not a responsible Bidder, the Contracting Agency shall
notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees
with this determination, it may appeal the determination within 24 hours of receipt of the
Contracting Agency’s determination by presenting its appeal to the Contracting Agency.
The Contracting Agency will consider the appeal 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 final determination.

1-02.15 Pre Award Information
(August 14, 2013 APWA GSP)

Revise this section to read:

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

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

END OF SECTION
1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids
(January 23, 2006 APWA GSP)
Revise the first paragraph to read:

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

1-03.1(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.

1-03.2 Award of Contract
(March 27, 2003 Tacoma GSP)

All references to 45 calendar days shall be revised to read 60 calendar days.

1-03.3 Execution of Contract
(October 1, 2005 APWA GSP)
Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.
Within 10 calendar days after the award date, the successful bidder shall return the
signed Contracting Agency-prepared contract, an insurance certification as required by
Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before
execution of the contract by the Contracting Agency, the successful bidder shall provide
any pre-award information the Contracting Agency may require under Section 1-02.15.

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

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

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

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

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

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

Add the following new section:

1-03.5 Failure to Execute Contract
(April 15, 2020 Tacoma GSP)
The first sentence is revised to read:

Failure to return the insurance certification and bond with the signed contract as required
in Section 1-03.3, or failure to provide Equity In Contracting (EIC) information if required
in the contract, or failure or refusal to sign the Contract, or failure to register as a
contractor in the state of Washington shall result in forfeiture of the bid bond or deposit
of this Bidder

END OF SECTION
1-04 SCOPE OF THE WORK

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

Revise the second paragraph to read:

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

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

1-04.6 Variation in Estimated Quantities
(July 23, 2015 APWA GSP, Option B)

Revise the first paragraph to read:

Payment to the Contractor will be made only for the actual quantities of Work performed and accepted in conformance with the Contract. When the accepted quantity of Work performed under a unit item varies from the original Proposal quantity, payment will be at the unit Contract price for all Work unless the total accepted quantity of any Contract item, adjusted to exclude added or deleted amounts included in change orders accepted by both parties, increases or decreases by more than 25 percent from the original Proposal quantity, and if the total extended bid price for that item at time of award is equal to or greater than 10 percent of the total contract price at time of award. In that case, payment for contract work may be adjusted as described herein:

END OF SECTION
1-05  CONTROL OF WORK

1-05.3 Working Drawings
(January 13, 2011 Tacoma GSP)

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

1-05.3 Submittals

The Contractor shall not install materials or equipment, which require submittals, until reviewed by the Contracting Agency.

The Contractor shall submit four (4) copies to the Engineer of all submittals required by the Contract Documents, unless otherwise required in these Special Provisions. This includes, but is not limited to:

- Shop Drawings/Plans
- Product Data
- Samples
- Reports
- Material Submittals (Ref. 1-06)
- Progress Schedules (Ref. 1-08.3)
- Guarantees/Warranties (Ref. 1-05.10)

The Engineer will return one (1) copy to the Contractor.

1-05.3(1) Submittal Schedule

In conformance with section 1-08.3, the progress schedule shall be submitted and reviewed prior to commencing any work.

No claim will be allowed for damages or extension of time resulting from rejection of a submittal or the requirement of resubmittals as outlined by this section.

The Engineer’s review will be completed as quickly as possible, but may require up to ten (10) working days from the date the submittals or resubmittals are received until they are sent to the Contractor. If more than ten (10) working days are required for the Engineer’s review of any individual submittal or resubmittal, an extension of time will be considered in accordance with Section 1-08.8.

1-05.3(2) Submittal Procedures

Contractor submittals shall be in accordance with the following:

The Contractor shall thoroughly review each submittal for dimensions, quantities, and details of the material or item shown. The Contractor shall review each submittal and note any errors, omissions, or deviations with the Contract Documents. The Contractor shall accept full responsibility for the completeness of each submittal.

Each submittal shall have a unique number assigned to it, and the transmittals shall be sequentially numbered. The numbering of resubmittals shall meet the requirements of
Section 1-05.3(4). On each page, indicate the page number, and total number of pages in each submittal.

Each submittal shall indicate the intended use of the item in the work. When catalog pages are submitted, applicable items shall be clearly identified. The current revision, issue number, and data shall be indicated on all drawings and other descriptive data.

Each submittal should be transmitted with the “Submittal Transmittal Form” found at the end of this section. Upon request, an electronic copy of the Submittal Transmittal Form will be made available to the Contractor.

In lieu of utilizing the Submittal Transmittal Form, the Contractor may display the following information on each submittal, in a clear space on the front of the submittal:

- Project Name: TPU ADMIN COMPLEX STREET IMPROVEMENTS
- Project Specification Number: PW22-0012F
- Project No. PWR-01132 & PWK-00438-40
- Submittal Date
- Description of Submittal
- Sequential, unique submittal number.
- Related Specification Section and/or plan sheet
- The following statement: “This document has been detail-checked for accuracy of content and for compliance with the Contract documents. The information contained herein has been fully coordinated with all involved Subcontractors.”
- Printed or typed name and signature of Contractor.

When submitting product data, the Contractor shall modify drawings to delete any information not applicable to the project and add information that is applicable to the project. The Contractor shall mark copies of printed material to clearly identify the pertinent materials, products or models.

Samples submitted shall be of sufficient size and quantity to clearly illustrate functional characteristics of product or material and full range of colors available. Field samples and mock-ups, where required, shall be erected at the project site where directed by the Engineer.

The Contractor shall notify the Engineer, in writing at time of submission, of deviations in submittals from requirements of the Contract documents.

The City shall not be responsible for delays in reviewing submittals not submitted in accordance with these specifications.

1-05.3(3) Engineer’s Review of Submittals

The Engineer’s review of drawings and data submitted by the Contractor will cover only general conformity with the Contract drawings and specifications. The Engineer’s review of submittals shall not relieve the Contractor from responsibility for errors, omissions, deviations, or responsibility for compliance with the Contract documents. Review of a separate item does not constitute review of an assembly in which the item functions.
When the submittal or resubmittal is marked “REVIEWED”, or “REVIEWED WITH COMMENTS”, no additional copies need to be furnished. The Contractor shall comply with any comments on the return submittal.

1-05.3(4) Resubmittals

When a submittal is marked “AMEND AND RESUBMIT” or “REJECTED, SEE REMARKS,” the Contractor shall make the corrections as noted and instructed by the Engineer and resubmit four (4) copies. The Contractor shall not install material or equipment that has received a review status of “AMEND AND RESUBMIT” or “REJECTED, SEE REMARKS”.

When corrected copies are resubmitted, the Contractor shall in writing direct specific attention to all revisions and shall list separately any revision made other than those called for by the Engineer on previous submittals. Resubmittals shall bear the number of the original submittal followed by a letter (A, B, etc.) to indicate the sequence of the resubmittal.

The Contractor shall revise returned submittals as required and resubmit until final review is obtained.

The Contractor shall verify that all exceptions previously noted by the Engineer have been accounted for.

1-05.3(5) Submittal Requirements by Section

The following is a summary of submittal requirements. This summary is not inclusive of all submittal requirements. The Contractor shall review each individual section in the applicable provisions or specifications, as noted below, for specific requirements.
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1-05.4 Conformity With and Deviations from Plans and Stakes

Add the following two new sub-sections:

1-05.4(1) Roadway and Utility Surveys
(October 1, 2005 APWA GSP)

The Engineer shall furnish to the Contractor one time only all principal lines, grades, and measurements the Engineer deems necessary for completion of the work. These shall generally consist of one initial set of:
1. Slope stakes for establishing grading;
2. Curb grade stakes;
3. Centerline finish grade stakes for pavement sections wider than 25 feet; and
4. Offset points to establish line and grade for underground utilities such as water, sewers, and storm drains.

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

This section is supplemented with the following:

1-05.4(2) Bridge and Structure Surveys
(October 1, 2005 APWA GSP)

For all structural work such as bridges and retaining walls, the Contractor shall retain as a part of Contractor’s organization an experienced team of surveyors.
The Contractor shall provide all surveys required to complete the structure, except the following primary survey control which will be provided by the Engineer:

1. Centerline or offsets to centerline of the structure.
2. Stations of abutments and pier centerlines.
3. A sufficient number of bench marks for levels to enable the Contractor to set grades at reasonably short distances.
4. Monuments and control points as shown in the Plans.

The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the primary control points provided by the Engineer. Survey work shall be within the following tolerances:

- Stationing: +.01 foot
- Alignment: +.01 foot (between successive points)
- Superstructure Elevations: +.01 foot (from plan elevations)
- Substructure Elevations: +.05 foot (from plan elevations)

During the progress of the work, the Contractor shall make available to the Engineer all field books including survey information, footing elevations, cross sections and quantities.

The Contractor shall be fully responsible for the close coordination of field locations and measurements with appropriate dimensions of structural members being fabricated.

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

Supplement this section with the following:

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

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

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor’s unauthorized work.
No adjustment in Contract time or compensation will be allowed because of the delay in
the performance of the work attributable to the exercise of the Contracting Agency's
rights provided by this Section.

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

1-05.11 Final Inspection
Delete this section and replace it with the following:

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

1-05.11(1) Substantial Completion Date

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

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

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

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

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

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

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7. The Contractor will not be allowed an extension of Contract time because of a delay in the performance of the work attributable to the exercise of the Engineer’s right hereunder.

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

1-05.11(3) Operational Testing

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

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

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

Add the following new section:

1-05.12(1) One-Year Guarantee Period

(March 8, 2013 APWA GSP)

The Contractor shall return to the project and repair or replace all defects in workmanship and material discovered within one year after Final Acceptance of the Work. The Contractor shall start work to remedy any such defects within 7 calendar days of receiving Contracting Agency’s written notice of a defect, and shall complete
such work within the time stated in the Contracting Agency’s notice. In case of an emergency, where damage may result from delay or where loss of services may result, such corrections may be made by the Contracting Agency’s own forces or another Contractor, in which case the cost of corrections shall be paid by the Contractor. In the event the Contractor does not accomplish corrections within the time specified, the work will be otherwise accomplished and the cost of same shall be paid by the Contractor.

When corrections of defects are made, the Contractor shall then be responsible for correcting all defects in workmanship and materials in the corrected work for one year after acceptance of the corrections by Contracting Agency.

This guarantee is supplemental to and does not limit or affect the requirements that the Contractor’s work comply with the requirements of the Contract or any other legal rights or remedies of the Contracting Agency.

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

Delete the sixth and seventh paragraphs of this section.

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

Revise the second paragraph to read:

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

Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the Contract includes power and water as a pay item.
Project Name: TPU ADMIN COMPLEX STREET IMPROVEMENTS
Project Number PWR-01132 & PWK-00438-40
Specification No. PW22-0012F

ATTN: Construction Division

Submittal Number

Specification Number Bid Item No.

Submittal Description

We are sending you:

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Transmitted: ✗ Submittals (Product Data) for information only.

Remarks:

Certify Either A or B:

A. This document has been detail-checked for accuracy of content and for compliance with the Contract documents (no exceptions). The information contained herein has been fully coordinated with all involved Subcontractors.

B. This document has been detail-checked for accuracy of content and for compliance with the Contract documents except for the attached deviations. The information contained herein has been fully coordinated with all involved Subcontractors.

Certified By: __________________________

Signature

END OF SECTION
1-06 CONTROL OF MATERIAL

1-06.1 Approval of Materials Prior To Use
(September 15, 2010 Tacoma GSP)

The first sentence is revised to read:

All materials and equipment shall be submitted for review in accordance with section 1-05.3 of these special provisions.

For aggregates, the Contractor shall notify the Engineer of all proposed aggregates. The Contractor shall use the Aggregate Source Approval (ASA) Database.

All equipment, materials, and articles incorporated into the permanent Work:

1. Shall be new, unless the Special Provisions or Standard Specifications permit otherwise;
2. Shall meet the requirements of the Contract and be approved by the Engineer;
3. May be inspected or tested at any time during their preparation and use; and
4. Shall not be used in the Work if they become unfit after being previously approved.

1-06.1(1) Qualified Products List (QPL)

This section is revised in its entirety to read:

QPL’s are not accepted by the City.

1-06.1(2) Request for Approval of Material (RAM)

This section is deleted in its entirety.

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

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

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

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

The Contractor’s report shall be provided on DOT form 350-075 Recycled Materials Reporting.

END OF SECTION
1-07  LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws to be Observed
(October 1, 2005 APWA GSP)
Supplement this section with the following:

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

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

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

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

1-07.2 State Taxes
(January 6, 2015 Tacoma GSP)
Supplement this section with the following:

Washington State Department of Revenue Rules 170 and 171 shall apply as shown in the Proposal and per Section 1-07.2 of the WSDOT and APWA Standard Specifications for Road, Bridge, and Municipal Construction.

1-07.4 Sanitation

1-07.4(2) Health Hazards
Section 1-07.4(2) is supplemented with the following:

(May 13, 2020)
COVID-19 Health and Safety Plan (CHSP)

The Contractor shall prepare a project specific COVID-19 health and safety plan (CHSP). The CHSP shall be prepared and submitted as a Type 2 Working Drawing prior to beginning physical Work. The CHSP shall be based on the most current State and
Federal requirements. If the State or Federal requirements are revised, the CHSP shall be updated as necessary to conform to the current requirements.

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

The CHSP shall address the health and safety of all people associated with the project including State workers in the field, Contractor personnel, consultants, project staff, subcontractors, suppliers and anyone on the project site, staging areas, or yards.

COVID-19 Health and Safety Plan (CHSP) Inspection

The Contractor shall grant full and unrestricted access to the Engineer for CHSP Inspections. The Engineer (or designee) will conduct periodic compliance inspections on the project site, staging areas, or yards to verify that any ongoing work activity is following the CHSP plan. If the Engineer becomes aware of a noncompliance incident either through a site inspection or other means, the Contractor will be notified immediately (within 1 hour). The Contractor shall immediately remedy the noncompliance incident or suspend all or part of the associated work activity. The Contractor shall satisfy the Engineer that the noncompliance incident has been corrected before the suspension will end.

1-07.9 Wages

1-07.9(5) Required Documents
(March 1, 2004 Tacoma GSP)

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

Weekly certified payrolls shall be submitted for the Contractor and all lower tier subcontractors or agents.

This section is supplemented with the following:

Where fringe benefits are paid in cash, certified payrolls shall include the fringe benefit dollar amount paid to each employee for each employee classification.

Where fringe benefits are paid into approved plans, funds, or programs, the amount of the fringe benefits shall be identified in the “Benefit Distribution” section of the Certified Payroll Affirmation form.

1-07.15 Temporary Water Pollution/Erosion Control
(March 23, 2010 Tacoma GSP)

This section is supplemented with the following:

Stormwater or dewatering water that has come in contact with concrete rubble, concrete pours, or cement treated soils shall be maintained to pH 8.5 or less before it is allowed to enter waters of the State or the City stormwater system. If pH exceeds 8.5, the Contractor shall immediately discontinue work and initiate treatment according to the plan to lower the pH. Work may resume, with treatment, once the pH of the stormwater
is 8.5 or less or it can be demonstrated that the runoff will not reach surface waters or
the City stormwater system.

High pH process water shall not be discharged to waters of the State or the City
stormwater system. Unless specific measures are identified in the Special Provisions,
high pH water may be infiltrated, dispersed in vegetation or compost, or discharged to a
sanitary sewer system. Disposal shall be in accordance with the City of Tacoma Surface
Water Management Manual or to City wastewater system with proper approval. Water
being infiltrated or dispersed shall have no chance of discharging directly to waters of
the State or the City stormwater system, including wetlands or conveyances that
indirectly lead to waters of the State. High pH process water shall be treated to within a
range of 6.5 to 8.5 pH units prior to infiltration to ensure the discharge does not cause a
violation of groundwater quality standards. If water is discharged to the sanitary sewer,
the Contractor shall provide a copy of permits and requirements for placing the material
into a sanitary sewer system prior to beginning the work. Process water may be
collected and disposed of by the Contractor off the project site. The Contractor shall
provide a copy of the permit for an approved waste site for the disposal of the process
water prior to the start of work that generates the process water. A Special Approved
Discharge permit shall be required for all discharges to the sanitary sewer system.

1-07.15(1) Spill Prevention, Control and Countermeasures Plan
(Feb
uary 9, 2011 Tacoma GSP)

This section is revised to read:

The Contractor shall prepare a project-specific spill prevention, control, and
countermeasures plan (SPCC Plan) that will be used for the duration of the project. The
Contractor shall submit the plan to the Project Engineer no later than the date of the
preconstruction conference. No on-site construction activities may commence until the
Contracting Agency accepts an SPCC Plan for the project.

The SPCC Plan shall address all fuels, petroleum products, hazardous materials, and
other materials as defined in Chapter 447 of the WSDOT Environmental Procedures
Manual (M 31-11). Occupational safety and health requirements that may pertain to
SPCC Plan implementation are contained in, but not limited to, WAC 296-824 and WAC
296-843.

Implementation Requirements

The SPCC Plan shall be updated by the Contractor throughout project construction so
that the written plan reflects actual site conditions and practices. The Contractor shall
update the SPCC Plan at least annually and maintain a copy of the updated SPCC Plan
on the project site. All project employees shall be trained in spill prevention and
containment, and they shall know where the SPCC Plan and spill response kits are
located and have immediate access to them.

If hazardous materials are encountered or spilled during construction, the Contractor
shall do everything possible to control and contain the material until appropriate
measures can be taken. The Contractor shall supply and maintain spill response kits of
appropriate size within close proximity to hazardous materials and equipment.
The Contractor shall implement the spill prevention measures identified in the SPCC Plan before performing any of the following:

1. Placing materials or equipment in staging or storage areas.
2. Refueling, washing, or maintaining equipment.

**SPCC Plan Element Requirements**

The SPCC Plan shall set forth the following information in the following order:

1. **Responsible Personnel**
   Identify the name(s), title(s), and contact information, including a 24/7 emergency contact number, for the personnel responsible for implementing and updating the plan, including all spill responders.

2. **Spill Reporting**
   List the names and telephone numbers of the Federal, State, and local agencies the Contractor shall notify in the event of a spill. The City of Tacoma contact will be the Wastewater Treatment Plant Operations number at 253.591.5595 and the City Source Control Spill Response number at 253.502.2222.

3. **Project and Site Information**
   Describe the following items:
   - A. The project Work.
   - B. The site location and boundaries.
   - C. The drainage pathways from the site, including both stormwater and sanitary conveyance pathways.
   - D. Nearby waterways and sensitive areas and their distances from the site.

4. **Potential Spill Sources**
   Describe each of the following for all potentially hazardous materials brought or generated on-site (including materials used for equipment operation, refueling, maintenance, or cleaning):
   - A. Name of material and its intended use.
   - B. Estimated maximum amount on-site at any one time.
   - C. Location(s) (including any equipment used below the ordinary high water line) where the material will be staged, used, and stored and the distance(s) from nearby waterways and sensitive areas.
   - D. Decontamination location and procedure for equipment that comes into contact with the material.
   - E. Disposal procedures.
   - F. Include a Material Safety Data Sheet (MSDS) for each potentially hazardous material.

5. **Pre-Existing Contamination**
   Describe any pre-existing contamination and contaminant sources (such as buried pipes or tanks) in the project area that are described in the Contract documents. Identify equipment and work practices that will be used to prevent the release of contamination.
6. Spill Prevention and Response Training

Describe how and when all personnel (including refueling Contractors and Subcontractors) will be trained in spill prevention, containment, and response in accordance with the Plan. Describe how and when all spill responders will be trained in accordance with WAC 296-824.

7. Spill Prevention

Describe the following items:

A. Spill response kit contents and location(s).
B. Security measures for potential spill sources.
C. Secondary containment practices and structures for all containers to handle the maximum volume of potential spill of hazardous materials.
D. Methods used to prevent stormwater from contacting hazardous materials.
E. Site inspection procedures and frequency.
F. Equipment and structure maintenance practices.
G. Daily inspection and cleanup procedures that ensure all equipment used below the ordinary high water line is free of all external petroleum-based products.
H. Refueling procedures for equipment that cannot be moved from below the ordinary high water line.

8. Spill Response

Outline the response procedures the Contractor will follow for each scenario listed below. Include a description of the actions the Contractor shall take and the specific on-site spill response equipment that shall be used to assess the spill, secure the area, contain and eliminate the spill source, and clean up and dispose of spilled and contaminated material.

Response procedures shall be outlined in the Spill Response section and shall include notification to the City of Tacoma Wastewater Treatment Plant Operations number at 253.591.5595 and the City Source Control Spill Response number at 253.502.2222.

A. A spill of each type of hazardous material at each location identified in 4, above.
B. Stormwater that has come into contact with hazardous materials.
C. Drainage pathways from the site, including both stormwater and sanitary conveyance pathways.
D. A release or spill of any unknown pre-existing contamination and contaminant sources (such as buried pipes or tanks) encountered during project Work.
E. A spill occurring during Work with equipment used below the ordinary high water line.

If the Contractor will use a Subcontractor for spill response, provide contact information for the Subcontractor under item 1 (above), identify when the Subcontractor will be used, and describe actions the Contractor shall take while waiting for the Subcontractor to respond.
9. Project Site Map
   Provide a map showing the following items:
   
   A. Site location and boundaries.
   B. Site access roads.
   C. Drainage pathways from the site.
   D. Nearby waterways and sensitive areas.
   E. Hazardous materials, equipment, and decontamination areas identified in 4, above.
   F. Pre-existing contamination or contaminant sources described in 5, above.
   G. Spill prevention and response equipment described in 7 and 8, above.

10. Spill Report Forms
    Provide a copy of the spill report form(s) that the Contractor will use in the event of a release or spill.

Payment
Payment will be made in accordance with Section 1-04.1 for the following Bid item when it is included in the Proposal:

   “SPCC Plan,” lump sum.

When the written SPCC Plan is accepted by the Contracting Agency, the Contractor shall receive 50-percent of the lump sum Contract price for the plan.

The remaining 50-percent of the lump sum price will be paid after the materials and equipment called for in the plan are mobilized to the project.

The lump sum payment for “SPCC Plan” shall be full pay for:

1. All costs associated with creating the accepted SPCC Plan.
2. All costs associated with providing and maintaining the on-site spill prevention equipment described in the accepted SPCC Plan.
3. All costs associated with providing and maintaining the on-site standby spill response equipment and materials described in the accepted SPCC Plan.
4. All costs associated with implementing the spill prevention measures identified in the accepted SPCC Plan.
5. All costs associated with updating the SPCC Plan as required by this Specification.

As to other costs associated with releases or spills, the Contractor may request payment as provided for in the Contract. No payment shall be made if the release or spill was caused by or resulted from the Contractor’s operations, negligence, or omissions.
1-07.16 Protection and Restoration of Property

1-07.16(1) Private/Public Property
(January 13, 2011 Tacoma GSP)
This section is supplemented with the following:

Stockpiling in City of Tacoma right-of-way or on existing or new improvements shall not occur unless approved by the Engineer. All stockpile sites shall be restored to as good or better condition.

The Contractor shall contact all property owners and tenants in the vicinity of this project, via newsletter/mailing, a minimum of one (1) week prior to start of construction. The Contractor shall submit a draft of the property owner notification prior to posting/mailing.

The newsletter/mailing shall advise the owners and tenants of the construction schedule and indicate the Contractor’s name, contact person, and telephone numbers.

1-07.17 Utilities and Similar Facilities
(******)
The first paragraph is supplemented with the following:

Public and private utilities or their Contractors will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocations, replacement, or construction will be done within the time for performance of this project. The Contractor shall coordinate their work with such adjustment, relocation, or replacement of utility work. This may require the Contractor to phase their work in a manner that will allow for the utility work.

The Contractor shall coordinate their work with all utilities and other organizations, which have to adjust or revise their facilities within the project area. These may include, but are not limited to:

- 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
- Rainier Connect, Contact: Brian Munson, phone: (253) 312-2819; Brian.Munson@Rainierconnect.net
- 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
- T-Mobile, Contact: Steven Schauer, Phone: (360) 402-7725; steven.schauer@t-mobile.com
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 various days and the Contractor should check the following website and coordinate their work accordingly or call (253) 591-5543 for detailed schedules within the project limits: http://www.govme.com/Common/govME/MyTacoma/CollectionCalendar.aspx

1-07.18 Public Liability and Property Damage Insurance

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

1-07.18 Insurance
(December 17, 2019 Tacoma GSP)

During the course and performance of the services herein specified, the Contractor will maintain the insurance coverage in the amounts and in the manner specified in the City of Tacoma Insurance Requirements as is applicable to the services and deliverables provided under this Contract. The City of Tacoma Insurance Requirements document is fully incorporated herein by reference.

Failure by the Contracting Agency to identify a deficiency in the insurance documentation provided by the Contractor or failure of the Contracting Agency to demand verification of coverage or compliance by the Contractor with these insurance requirements shall not be construed as a waiver of the Contractor's obligation to maintain such insurance.

This section is supplemented with the following;

A copy of the City of Tacoma Insurance Requirements is included in Part V of these specifications.

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.
**1-07.23(1) Construction under Traffic**  
*(March 1, 2004 Tacoma GSP)*

*This section is supplemented with the following:*

The following special traffic requirements shall be adhered to during all phases of construction:

South 35th Street*, South 36th Street*, South Union Avenue*, South Tyler Street*, South Washington Street, South Madison Street, South Gunnison Street, and South Monroe Street, shall remain fully open to vehicular and pedestrian traffic at all times (arterial roadways are signified with an “*”).

**EXCEPTION:**

1. Non-arterial classified roadways are permitted to be closed to traffic for corresponding active construction work, in accordance with the following situations:
   - During potential construction working hours (i.e., weekdays 7 AM to 7 PM and/or weekends 9 AM to 9 PM and/or weeknights—with approved noise variance (see Appendix D) —7 PM to 7 AM) when arrangements for local/property/business access have been made in advance through coordination between the requestor (if specific), the contractor, and the City (which would represent the unspecific needs of the public); and
   - During potential construction working hours (i.e., weekdays 7 AM to 7 PM and/or weekends 9 AM to 9 PM and/or weeknights—with approved noise variance (see Appendix D) —7 PM to 7 AM) so long as special and/or emergency access can be provided when needed.

2. During non-construction hours, the project area shall be left in a state that permits walkability, mobility, and/or on-street parking (as was allowable prior to project start) so long as the permitted vehicular, pedestrian, and/or parking access does not hamper the flow of traffic, temporary traffic control, and/or safety. For work elements that require multi-day progression (e.g., concrete curing), the work zone provisions may remain in place during non-working hours but must still allow for two-way traffic in separate lanes for affected arterial roadways, and are permitted to maintain the approved temporary traffic control for affected non-arterial roadways.

3. Project work areas along, within, and/or adjacent to arterials (as identified above), or intersecting other arterial streets, shall not hinder the safety or traffic operations of any arterial street such that two-way vehicular traffic in separate lanes cannot be maintained at all times, which can include parking restrictions/shoulder use (if vertical and horizontal vehicle clearances are confirmed for moving traffic) to allow for the roadway space needed. If the work occurring (during active construction or during non-construction hours) on an arterial street cannot practicably be completed while maintaining two-way traffic, then a road closure plan that still allows an uninterrupted single direction of travel and provides an accompanying directional detour must be established using an alternate arterial-based route to be submitted for review and approval by the City. The temporary control of traffic in this manner shall only be considered for use during the weekday hours between 9 AM and 3 PM (or weekend hours between 9 AM and 9 PM or weeknight hours between 9 PM and 5 AM) and shall be
limited to the shortest extent possible and/or phased in a manner than minimizes
the impact to the arterial roadway and associated transportation network. An
intersection specific traffic control plan must be developed for work areas that
include arterial streets intersecting one another and that plan must be submitted
for City review and approval at least 10 working days in advance of the work
commencing.

4. Spotters to assist pedestrians through or around a given work zone must be
available when called for in the Traffic Control Plans, as noted below, and/or
when deemed necessary for safe traffic operations by the City.
   - Intersection of South 35th Street and South Washington Street
   - Intersection of South 35th Street and South Union Avenue

Any location that requires spotters during working hours must ensure that the
non-working hour conditions allow for pedestrian access/mobility without the
need for spotters.

5. 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) and shall only direct pedestrians to approved pedestrian routes
and legal locations for roadway crossings. Additionally, any work that hinders the
use of the existing enhanced crosswalk at the west side of the South 35th
Street/South Washington Street intersection will require a pedestrian detour to a
temporarily established alternate pedestrian crossing (providing a City approved
equivalent level of control/function) of South 35th Street in relative proximity to the
pre-existing crossing as approved by the City.

6. Any project work that hinders the pedestrian use of the north or south side
sidewalk of South 35th/36th Street must only impact one side at a given time and
without forcing excessive temporary pedestrian crossings of South 35th/36th
Street. Associated with the point of discontinuity in the sidewalk network, or at
appropriate legal crossing location upstream of the hindrance, will require a pre-
approved pedestrian bypass or alternate pedestrian crossing and treatment level
that meets MUTCD and City requirements. The intent of this condition and
associated related conditions is to ensure that Tacoma Public Utilities (TPU)
employees and visitors have access to/from the TPU building (and its public
entrances/exits near the South 35th Street/South Washington Street intersection
and the west side of the same building) and the multiple TPU-explicit parking lots
between Union Avenue and South Madison Street on both sides of South
35th/36th Street. Providing continual access to the TPU building during business
hours may require night and/or weekend work to meet the above conditions.

7. Vehicular and pedestrian access to TPU’s various parking lots, and the TPU
building’s public entrances/exits (at/near Washington Street and the west side of
the building) in/adjacent to the project area shall remain open and accessible at
all times unless otherwise coordinated by the Contractor with TPU and the City to
achieve an overall benefit to the project/public. TPU contacts are provided in
section 1-07.23(2). Providing continual access to the TPU parking lots/building
access points during business hours may require night and/or weekend work to
meet the above conditions.

8. Access to the TPU building during regular business hours will include
maintaining a pedestrian crossing of South 35th Street in proximity to the building
access point on South 35th Street and at least half of the set of stairs at that
location. At no time, shall the ADA-accessible access point (or its associated
route) on the west side of the building be rendered inaccessible.

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.

A safe pedestrian access shall be provided at all times through the project area. All lane
closures shall be coordinated with the adjacent businesses, 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 by the City and placed
by the Contractor. 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 seventy-two (72) hours in advance for all affected properties.

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.

If street closures or lane restrictions, not provided for in the Specifications, are allowed
subsequent to award of the contract, an equitable adjustment of the Contract amount
shall be negotiated.

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.

1-07.23(2) Construction and Maintenance of Detours

This section is supplemented with the following:

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 Tacoma Public Utility - Power and the Engineer seven (7)
calendar days in advance of implementation of any pre-approved street closures/detours
allowed under the Contract. Advance notice signing (including PCMS) shall be placed a
minimum of seven (7) calendar days prior to implementation of any street closure/detour.

A minimum of five (5) working days prior to any street closure, the Contractor shall notify
all entities below except for Pierce Transit; The Contractor shall notify Pierce Transit a
minimum of ten (10) working days prior to any street closure to allow rerouting of bus
lines accordingly:

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 (253-377-5027)
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)
Tacoma Public Utility – Power (Primary Contact) (253-666-0067) or (253-779-7744)
Tacoma Public Utility – Power (Secondary Contact) (253-389-5677) or (253-502-8310)
Delete this section and replace it with the following:

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

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

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

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

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

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.
1-08 PROSECUTION AND PROGRESS

Add the following new section:

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

1-08.0(1) Preconstruction Conference
(October 10, 2008 APWA GSP)

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

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

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

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

Add the following new section:

1-08.0(2) Hours of Work
(******)

Night and/or weekend work may be necessary to ensure maintenance of access to/from the TPU building access points along the west and north sides of the building at South 35th Street/Washington Street during regular business hours. TPU regular business hours are Monday to Friday between 8:30am and 5:30pm. An approved Noise Variance (see appendix D) has been acquired in advance to accommodate night and weekend work if deemed necessary and approved by the agency.

Except in the case of emergency or unless otherwise approved by the Contracting Agency, the normal straight time working hours for the contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday with a maximum 1-hour lunch break and a 5-day work week. The normal straight time 8-hour working period for the contract shall be established at the preconstruction conference or prior to the Contractor commencing the work.

If a Contractor desires to perform work on holidays, Saturdays, Sundays, or before 7:00 a.m. or after 6:00 p.m. on any day, the Contractor shall apply in writing to the Engineer for permission to work such times. Permission to work longer than an 8-hour period between 7:00 a.m. and 6:00 p.m. is not required. Such requests shall be submitted to the Engineer no later than noon on the working day prior to the day for which the Contractor is requesting permission to work.
Permission to work between the hours of 9:00 p.m. and 7:00 a.m. during weekdays and between the hours of 9:00 p.m. and 9:00 a.m. on weekends or holidays are also subject to noise control requirements contained within the Noise Variance provided in Appendix D. Approval to continue work during these hours may be revoked at any time the Contractor exceeds the Contracting Agency’s noise control regulations or complaints are received from the public or adjoining property owners regarding the noise from the Contractor’s operations. The Contractor shall have no claim for damages or delays should such permission be revoked for these reasons.

Permission to work Saturdays, Sundays, holidays or other than the agreed upon normal straight time working hours Monday through Friday may be given subject to certain other conditions set forth by the Contracting Agency or Engineer. These conditions may include but are not limited to: requiring the Engineer or such assistants as the Engineer may deem necessary to be present during the work; requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency employees who worked during such times, on non-Federal aid projects; considering the work performed on Saturdays and holidays as working days with regards to the contract time; and considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period. Assistants may include, but are not limited to, survey crews; personnel from the Contracting Agency’s material testing lab; inspectors; and other Contracting Agency employees when in the opinion of the Engineer, such work necessitates their presence.

Add the following new section:

1-08.0(3) Reimbursement for Overtime Work of Contracting Agency Employees
(September 29, 2009 Tacoma GSP)

Where the Contractor elects to work on a Saturday, Sunday, or holiday, or longer than an 8-hour work shift on a regular working day, as defined in the Standard Specifications, such work shall be considered as overtime work. On all such overtime work, City staff may be required at the discretion of the Engineer. In such case, the Contracting Agency may deduct from amounts due or to become due to the Contractor for the costs in excess of the straight-time costs for employees of the Contracting Agency required to work overtime hours.

The Contractor by these specifications does hereby authorize the Engineer to deduct such costs from the amount due or to become due to the Contractor.

1-08.1 Subcontracting - D/M/WBE Reporting
(September 29, 2009 Tacoma GSP)

The eighth paragraph is revised to read:

On all projects funded with Contracting Agency funds only, the Contractor shall certify to the actual amounts paid Disadvantaged, Minority, or Women’s Business Enterprise firms that were used as subcontractors, lower tier subcontractors, manufacturers, regular dealers, or service providers on the contract. This certification shall be submitted to the Engineer, on the form provided by the Engineer, 20 calendar days after physical completion of the contract.
1-08.1 Subcontracting
(May 30, 2019 APWA GSP, Option B)

Delete the ninth paragraph, beginning with “On all projects, the Contractor shall certify…”.

1-08.3(2)A Type A Progress Schedule
(March 13, 2012 APWA GSP)
Revise this section to read:

The Contractor shall submit 6 copies of a Type A Progress Schedule no later than at the preconstruction conference, or some other mutually agreed upon submittal time. The schedule may be a critical path method (CPM) schedule, bar chart, or other standard schedule format. Regardless of which format used, the schedule shall identify the critical path. The Engineer will evaluate the Type A Progress Schedule and approve or return the schedule for corrections within 15 calendar days of receiving the submittal.

1-08.4 Prosecution of Work
Delete this section and replace it with the following:

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

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

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

1-08.5 Time for Completion
(March 16, 2016 Tacoma GSP)
Revise the third and fourth paragraphs to read:

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

*Revise the sixth paragraph to read:*

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

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and
   required by law, to allow the Contracting Agency to process final acceptance of
   the contract. The following documents must be received by the Project Engineer
   prior to establishing a completion date:
   a. Certified Payrolls *(per Section 1-07.9(5)).*
   b. Material Acceptance Certification Documents
   c. Reports of Amounts Credited as EIC Participation, as required by the
   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 1, 2004 Tacoma GSP)*
This project shall be physically completed within **55** working days.

**1-08.9 Liquidated Damages**
*(August 14, 2013 APWA GSP)*

*Revise the fourth paragraph to read:*

When the Contract Work has progressed to Substantial Completion as defined in the
Contract, the Engineer may determine that the work is Substantially Complete. The
Engineer will notify the Contractor in writing of the Substantial Completion Date. For
overruns in Contract time occurring after the date so established, the formula for
liquidated damages shown above will not apply. For overruns in Contract time occurring
after the Substantial Completion Date, liquidated damages shall be assessed on the
basis of direct engineering and related costs assignable to the project until the actual
Physical Completion Date of all the Contract Work. The Contractor shall complete the
remaining Work as promptly as possible. Upon request by the Project Engineer, the
Contractor shall furnish a written schedule for completing the physical Work on the
Contract.

**END OF SECTION**
1-09 MEASUREMENT AND PAYMENT

1-09.2(1) General Requirements for Weighing Equipment
(July 23, 2015 APWA GSP, Option 2)

Revise item 4 of the fifth paragraph to read:

4. Test results and scale weight records for each day’s hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman’s Daily Report, unless the printed ticket contains the same information that is on the Scaleman’s Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

1-09.6 Force Account
(October 10, 2008 APWA GSP)

Supplement this Section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication, that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

(January 13, 2011 Tacoma GSP)

Item #3 of this Section is supplemented with the following:

The Contractor shall submit a comprehensive summary list of all equipment anticipated to be used on the project and their associated AGC/WSDOT Equipment Rental Rates. The list shall include the contractor’s equipment number, make, model, year, operation rate, standby rate, applicable attachments and any other applicable information necessary to determine the applicable rates in accordance with this section. In addition, the contractor shall submit an Equipment Watch rate sheet (www.equipmentwatch.com) for each piece of equipment in the summary list. Access to the Equipment Watch web site is available at the City’s Construction Management Office.

1-09.9 Payments
(March 13, 2012 APWA GSP)

Delete the first four paragraphs and replace them with the following:

The basis of payment will be the actual quantities of Work performed according to the Contract and as specified for payment.

The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A breakdown is not required for lump sum items that include a basis for incremental payments as part of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make a determination based on information available. The Project Engineer’s determination of the cost of work shall be final.
Progress payments for completed work and material on hand will be based upon progress estimates prepared by the Engineer. A progress estimate cutoff date will be established at the preconstruction conference.

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

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

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

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

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

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

This section is supplemented with the following:

(January 6, 2015 Tacoma GSP)

Breakdowns of all lump sum items shall be provided for all lump sum items and shall include all costs for labor, equipment, materials, and taxes (as applicable) associated with the lump sum item. Washington State Department of Revenue Rules 170 and 171 apply to lump sum items per Section 1-07.2 of the WSDOT State Amendments to the Standard Specifications.

Stockpiled Material - The point of acceptance of stockpiled material for payment and quality shall be at the time of incorporation into the contract.
1-09.9(1) Retainage
(May 10, 2006 Tacoma GSP)
The fourth paragraph is supplemented with the following:

6. A “General Release to the City of Tacoma” is on file with the Contracting Agency.
7. A release has been obtained from the City of Tacoma’s City Clerk’s Office.

1-09.13(3)A Administration of Arbitration
(October 1, 2005 APWA GSP)
Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency’s headquarters are located. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the contract as a basis for decisions.

END OF SECTION
1-10  TEMPORARY TRAFFIC CONTROL

1-10.1 General

This section is supplemented with the following:

Temporary Pedestrian Access

(*****)

All pedestrian access paths shall be maintained per Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG) and Specification Sections 1-07.23, and 1-10. 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.

Automated Flagger Assistance Devices

Automated Flagger Assistance Devices (AFADs) shall meet the requirements of the MUTCD.

1-10.1(2) Description

(July 22, 2019 Tacoma GSP)

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

The Contractor shall keep lanes, on-ramps, and off-ramps open to traffic at all times except when Work requires closure(s) that have been requested and approved in accordance with section 1-10.2(2).

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

Approved lane and ramp closures shall be for the minimum time required to complete the Work.

This section is supplemented with the following:

Only uniformed off-duty police officers shall be used to control traffic when it is necessary to override or provide traffic control at signalized intersections. Off-duty City of Tacoma Police Department officers are preferred within the jurisdiction of the Tacoma PD, and the Contractor shall grant the Tacoma PD the "first right of refusal" by contacting the Tacoma PD first as stated below.

The City will make all necessary temporary adjustments to existing traffic signals and traffic signal activators.

Existing signs shall not be removed until the Contractor has provided for temporary measures sufficient to safeguard and direct traffic after existing signs have been removed. Preservation of temporary traffic control and street name signs shall be the sole responsibility of the Contractor.
As the work progresses and permits, temporarily relocated and/or removed traffic signs shall be reset in their permanent location. Permanent signs and other traffic control devices damaged or lost by the Contractor shall be replaced or repaired at the Contractor’s expense.

1-10.2 Traffic Control Management

1-10.2(1) General

(September 7, 2021)

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

The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035
https://www.nwlett.edu

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

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637
Phone: (540) 368-1701
https://altssa.com/training

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

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

Section 1-10.3 is supplemented with the following:

1-10.3(1)A Flaggers and Spotters

Spotters
The Contractor shall provide a spotter where needed and when indicated on the plans and/or with these Specifications. The spotter’s sole duties are as follows: the spotter shall walk ahead of the construction vehicle in the direction of vehicle travel to insure no
pedestrians are in the path of vehicle travel, as well as exclusively assisting with the
navigation of pedestrians through, around, adjacent to, and/or through the work zone or
adjoining traffic control areas as indicated in the traffic control plans or as directed to do
so on-site. In the course of these responsibilities, the spotter shall signal the vehicle to
stop should pedestrian be in the immediate path of the vehicle. The vehicle shall remain
stopped under the direction of the spotter until all pedestrians are out of the immediate
path of the vehicle.

1-10.3(1)B Other Traffic Control Labor
This section is revised to read:

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

1-10.3(2)F Signalized Intersections
(******)

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. Use of uniformed off-duty police officers shall be used
only when approved by the City.

All off-duty officers shall be commissioned within the State of Washington.

Tacoma Police Department officers shall be the first choice for traffic control that
overrides any traffic signal within the jurisdiction of the City of Tacoma PD. The
Contractor shall first contact Tacoma Police Department, Special Events Sergeant
(contact information below), to schedule police officers for the specified traffic control
duty.

Tacoma Police Department
Special Events Sergeant
(253) 591-5932
TacomaPoliceEvents@ci.tacoma.wa.us

All costs associated with the use of uniformed off-duty police officers shall be included in
the lump sum price for, “Project Temporary Traffic Control”.

Only in the case that the Tacoma PD cannot supply officers, and only after the Engineer
notifies the Contractor in writing, shall the Contractor be authorized to contact other
jurisdictions for off-duty police officers. If the Contactor fails to comply with this special
provision, the City of Tacoma shall not owe the Contractor any compensation for off-duty
officers from other jurisdictions.
1-10.3(3)A Construction Signs  
(January 11, 2006 Tacoma GSP)  
The fifth paragraph is revised to read:  

Signs, posts, or supports that are lost, stolen, damaged, destroyed, or which the Engineer deems to be unacceptable while their use is required on the project shall be replaced by the Contractor at their expense.

1-10.3(3)C Portable Changeable Message Sign  
(August 4, 2010 Tacoma GSP)  
This section is supplemented with the following:  

Portable Changeable Message Signs shall be required on arterials streets where construction occurs for durations longer than seven (7) calendar days. Signs shall be solar charged and programmable. Signs shall be provided a minimum of seven (7) calendar days prior to construction and remain through the duration of the construction on the arterial street. Signs shall be provided on each end of the arterial street construction zone notifying oncoming traffic of the construction conditions. All costs associated with providing and maintain the signs for the required duration shall be included in the proposal item, “Project Temporary Traffic Control”, per lump sum.

(* *****)  
To prevent hackers 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.

1-10.4(2) Item Bids with Lump Sum for Incidentals  
(January 11, 2006 Tacoma GSP)  
This section is supplemented with the following:  

No unit of measure will apply to the position of traffic control manager and it will be considered included in other unit contract prices in the Bid Proposal.

1-10.5(2) Item Bids with Lump Sum for Incidentals  
(January 11, 2006 Tacoma GSP)  
This section is supplemented with the following:  

The Bid Item “Pedestrian Traffic Control” is supplemented with the following:  

All costs incurred for “Temporary Pedestrian Access” and “Spotter” shall be included in the price per lump sum for “Pedestrian Traffic Control”, according to Section 1-10.

END OF SECTION
2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description
The first sentence of the first paragraph is revised to read:
The Contractor shall clear, grub, and cleanup those areas within the project site that are necessary for completion of the contracted work. The Contractor shall limit impacts to planting areas designated to remain to minimum extent.

This section is supplemented with the following:
Trees, stumps, shrubs, and brush located outside the Clearing & Grubbing limits shall be considered as part of "Clearing and Grubbing" when identified for removal on the Plans.

2-01.2 Disposal of Usable Material and Debris
The second paragraph is revised to read:
The Contractor shall dispose of all debris in accordance with Section 2-01.2(2).

2-01.3(1) Clearing
This section is revised to read:

1. Fell trees only within the area to be cleared that are marked for removal.
2. Close-cut parallel to the slope of the ground all stumps to be left in the cleared area outside the slope stakes.
3. Close cut all stumps that will be buried by fills 5-feet or less in depth.
4. Follow these requirements for all stumps that will be buried by fills deeper than 5-feet from the top, side, or end surface of the embankment or any structure and are in a location that will not be terraced as described in Section 2-03.3(14):
   a. Close-cut stumps under 18-inches in diameter.
   b. Trim stumps that exceed 18-inches in diameter to no more than 12-inches above original ground level.
5. Leave standing any trees or native growth indicated by the Engineer.
6. Trim all trees to be left standing to the height specified by the Engineer, with a minimum height of eight (8) feet above sidewalk and fourteen (14) feet above the roadway surface. Neatly cut all limbs close to the tree trunk.
7. Thin clumps of native growth as the Engineer may direct.
8. Protect, by fencing if necessary, all trees or native growth from any damage caused by construction operations.
9. Salvage and move landscape boulders to storage area. The storage area is located at "Lot G" with the entry located on South 36th

2-01.3(2) Grubbing
Item e is revised to read:
Upon which embankments will be placed, except stumps may be close-cut or trimmed as allowed in Section 2-01.3(1) item 4.

END OF SECTION
2-03 ROADWAY EXCAVATION AND EMBANKMENT
(August 14, 2019 Tacoma GSP)

2-03.1 Description
The last sentence of the first paragraph is deleted.

2-03.3 Construction Requirements

2-03.3(5) Slope Treatment
This section is deleted.

2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters
This section is deleted.

END OF SECTION
2-07 WATERING  
(August 3, 2009 Tacoma GSP)  

2-07.3 Construction Requirements  
The last sentence of the first paragraph is revised to read:  

The Engineer may direct that the Contractor apply water during non-working hours such as evenings, weekends, or recognized holidays.  

Section 2-07.3 is supplemented with the following:  

2-07.3(1) Water Supplied from Hydrants  

There is no guarantee that all fire hydrants will be available for use for cleaning, lining, or any other construction activities associated with this project. Prior to construction activities, it shall be the Contractor’s responsibility to verify which hydrants will be available by contacting Tacoma Water. The Contractor shall use only those hydrants designated by Tacoma Water.  

Water supplied from hydrants governed by Tacoma Water shall be used in strict compliance with the “Operating Procedures for the use of Water Division Hydrants” available at the Tacoma Water Permit Counter.  

The Contractor shall obtain a Hydrant Permit prior to start of work by contacting the Water Permit Counter at (253) 502-8247, 2nd floor, Tacoma Public Utilities, Administrative Building, 3628 South 35th Street, Tacoma, WA 98409. A copy of the approved Hydrant Permit shall be submitted to the Engineer.  

Contractor personnel shall be in possession of a valid Tacoma Public Utilities Hydrant Certification Card prior to obtaining a permit. If necessary, contractor personnel shall undergo training to receive the required certification. Contact the Water Permit Counter to set up training as necessary.  

END OF SECTION
2-09  STRUCTURE EXCAVATION

(March 17, 2016 Tacoma GSP)

2-09.4 Measurement
This section is supplemented with the following:

Longitudinal Limits. For all storm and sanitary sewers, the longitudinal measurement will be from center of manhole to center of manhole or to the inside face of catch basins and similar type structures.

The fourth paragraph is revised to read:

There will be no specific unit of measure for the excavation required for manholes, catch basins, grate inlets, and drop inlets.

2-09.5 Payment
The pay item for “Structure Excavation Class B” is supplemented with the following:

“Structure Excavation Class B”, per cubic yard.

The unit Contract price for “Structure Excavation Class B” shall be full payment for all excavation, removal of water; storing, protecting and re-handling of suitable backfill material; backfilling of the trench, compaction of backfill, and all other work necessary for the construction of the sewer trench.

END OF SECTION
2-13  VEGETATION REMOVAL
(******)

2-13.1 Description

This Work shall consist of the removal and disposal of vegetation identified on the Plans.

2-13.2 Definition of Vegetation

A “tree” is defined as any self-supporting, woody perennial plant having a main stem
(trunk) and which normally attains a height of at least ten (10) feet at maturity, usually
with one (1) main stem or trunk and many branches.

A “shrub” is defined as any woody perennial plant which normally attains a height of less
than ten (10) feet at maturity and which can be construed to have some landscape
value.

“Brush” is defined as any perennial vegetation which normally attains a height of ten (10)
feet or less at maturity, which is not maintained as part of a landscape feature, which is
“volunteer” growth or which exists in a naturalized state. Examples include but are not
limited to stands of blackberries and scotch broom.

2-13.3 Construction Requirements

All stumps not identified for removal shall be close-cut parallel to the slope of the ground.

All stumps identified for stump grinding shall be ground to eight inches below final grade.

Disposal of all debris shall be in accordance with Section 2-01.2(2).

2-13.4 Measurement

Trees shall be classified by the measured circumference at a point four and one-half (4-1/2) feet above average ground level. Trees that have several stems at the four and one-half (4-1/2) foot height will be considered a tree clump. The largest diameter single stem will be measured and will dictate the class rating. Only the largest, single stem in the clump will be utilized for measurement and payment.

Stumps shall be classified by the measured circumference at the highest point of the stump above the average ground level or a point four and one-half (4-1/2) feet above the average ground level, which ever is less.

Trees and stumps will be classified as follows:

<table>
<thead>
<tr>
<th>Diameter Range</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 12 inches</td>
<td>Class 0</td>
</tr>
<tr>
<td>12 inches up to but not including 36 inches</td>
<td>Class I</td>
</tr>
<tr>
<td>36 inches up to but not including 72 inches</td>
<td>Class II</td>
</tr>
<tr>
<td>72 inches up to but not including 127 inches</td>
<td>Class III</td>
</tr>
<tr>
<td>127 inches or more (Tree height greater than 30 feet)</td>
<td>Class IV</td>
</tr>
<tr>
<td>127 inches or more (Tree height of 30 feet or less)</td>
<td>Class V</td>
</tr>
</tbody>
</table>
2-13.5 Payment

All costs shall be included in the lump sum bid item “Clearing and Grubbing” per section 2-01.

END OF SECTION
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 C6**  
Class C6 pavement removal shall apply to all non-reinforced cement concrete pavements or slabs having an average thickness of six 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 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
(March 17, 2003 Tacoma GSP)

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”, per linear foot

The unit contract price per linear foot for “Remove Curb” shall be inclusive of all classifications of curb or curb and gutter.

All costs associated with saw cutting necessary for the removal of curb and/or curb and gutter shall be included in the unit Contract price for removal.

END OF SECTION
2-16  REMOVAL OF CATCH BASINS, MANHOLES, CURB INLETS, ETC.
(March 17, 2003 Tacoma GSP)

2-16.1 Description

The Work described in this section includes the complete removal and disposal of catch basins, manholes, and curb inlets as identified on the Plans.

2-16.2 Vacant

2-16.3 Construction Requirements

Where the structures are removed, the excavation shall be backfilled with native material if deemed suitable by the Engineer or imported backfill material.

Material determined by the Engineer to be unsuitable at the time of excavation shall be removed and replaced with imported backfill material. Payment will be made at the unit contract price of the item in the proposal, or as extra work under Section 1-04.4 if not included as an item in the proposal.

All pipe openings shall be plugged in accordance with 7-08.3(4).

The removal of the structures 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.

2-16.4 Measurement

The removal of catch basins, manholes, and curb inlets will be measured per each.

2-16.5 Payment

Payment will be made in accordance with Section 1-04.1.

“Remove Catch Basin”, per each

“Remove Manhole”, per each

“Remove Curb Inlet”, per each

All costs associated with the placement and compaction of the backfill material shall be included in the unit Contract price for removal.

END OF SECTION
3-04  ACCEPTANCE OF AGGREGATE
(April 1, 2012 Tacoma GSP)

3-04.1 Description
The first and third paragraphs are deleted.
The fourth paragraph is revised to read:
Nonstatistical evaluation will be used for the acceptance of aggregate materials.

3-04.3(1) General
The first sentence is revised to read:
For the purpose of acceptance sampling and testing, all test results obtained for a material type will be evaluated collectively.

3-04.3(4) Testing Results
This section is replaced with the following:
The results of all acceptance testing will be provided by the City’s Project Engineer within 3 working day of testing.

3-04.3(6) Statistical Evaluation
This section is deleted:

END OF SECTION
5-04  HOT MIX ASPHALT
(April 1, 2018 Tacoma GSP)

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.

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.

5-04.3 Construction Requirements
5-04.3(2)  Paving Under Traffic
(April 1, 2018 Tacoma GSP)
The second paragraph is supplemented with the following:

No traffic shall be allowed on any newly placed pavement without the approval of the Engineer.

5-04.3(3)C  Pavers
(April 1, 2018 Tacoma GSP)
The second paragraph is deleted.

5-04.3(3)D  Material Transfer Device or Material Transfer Vehicle
(April 1, 2018 Tacoma GSP)
The first paragraph is revised to read:

A Material Transfer Device/Vehicle (MTD/V) shall not be used unless specific paving areas are specified below. A MTD/V shall only be used according to this special provision for the following paving areas:

None

5-04.3(4)C Pavement Repair
(April 1, 2018 Tacoma GSP)
This section is revised to read:

Pavement repair shall be in accordance with the City of Tacoma Right-of-Way Restoration Policy found at:


Pavement repair consists of asphalt concrete saw-cutting, removing asphalt concrete pavement, removing crushed surfacing and subgrade, and installing Construction Geotextile for Separation, placing crushed surfacing top course over the Construction Geotextile, and HMA in accordance with the Contract or as directed by the Engineer.

Pavement repair excavation may also be performed by the use of a milling machine of a type that has operated successfully on work comparable with that to be done under the Contract and shall be approved by the Engineer prior to use. If a milling machine is used for excavation, the excavation shall be as directed by the Engineer.

In all types of excavation, after the removal of the asphalt, the base material will be evaluated by the Engineer to determine if it is suitable. If the base is determined not to be suitable, the Contractor shall remove the base material and restore the sub-grade in accordance with Section 2-06 and the Plans, regardless of the method used for excavation.

Payment for pavement repair shall be by the unit Bid prices according to the Contract for all materials, labor, and equipment required to complete the pavement repair. Items not included in the Proposal shall be paid for according to Section 1-04.1(2).
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(8) Aggregate Acceptance prior to Incorporation in HMA
(Aug 1, 2020 Tacoma GSP)
This section is revised to read:
Sample aggregate in accordance with Section 3-04 prior to being incorporated into HMA. The Contracting Agency shall evaluate the aggregate according to Special Provision 3-04. Aggregate contributed from RAP or RAS shall not be evaluated under Section 3-04.
The combined aggregate bulk specific gravity (Gsb) blend as shown on the HMA Mix Design report or evaluation report per Special Provision 5-04.2(2) will be used for VMA calculations. The Contracting Agency shall not be required to perform a Gsb test.

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).
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

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

The second paragraph is revised to read:

No specific unit of measure will apply to roadway cores, which shall be included in the measurements for the HMA items that are included in the Proposal.

This section is supplemented with the following:

HMA for Approach Cl. ___ PG 58H-22 shall be measured per square yard of finished driveway and approach.

No specific unit of measure will apply to anti-stripping additive, which shall be included in the measurements for the HMA items that are included in the Proposal.

5-04.5 Payment  
(April 1, 2018 Tacoma GSP)  
Pay items for “Job Mix Compliance Price Adjustment” and “Compaction Price Adjustment” are deleted.

The following pay items for HMA are revised to read:

“HMA Cl. ___ PG __”, per ton.
“HMA for __ Cl. __ PG __”, per ton.

The unit Contract price per ton for “HMA Cl. ___ PG ___” and “HMA for __ Cl. __ PG ___” shall be full payment for all costs incurred to carry out the requirements of Section 5-04, including coring and testing, and shall include anti-stripping additive, asphalt wedge curbs, thickened edges, curb drains, and connection to existing drains in accordance with the Contract. Any costs that are already included in other Bid items in the Proposal shall not be included in the unit Contract prices per ton for these HMA Bid items.

The pay item “HMA for Approach Cl. ___ PG ___” is revised to read:

“HMA for Approach Cl. ___ PG 58H-22”, per square yard.

The unit Contract price per square yard for “HMA for Approach Cl. ___ PG 58H-22” shall be full payment for all costs incurred to carry out the requirements of Section 5-04, including anti-stripping additive; and shall include asphalt wedge curbs, thickened edges, curb drains, and connection to existing drains in accordance with the Contract. Any costs that are already included in other Bid items in the Proposal shall not be included in
the unit Contract price per square yard for this HMA Bid item. The Contractor shall also
include all costs associated with excavating for driveways and approach, including haul
and disposal in the unit Contract price per square yard for “HMA for Approach Cl. ___ PG
58H-22”, regardless of the depth.

This section is supplemented with the following:

“HMA Cl. ___ PG ___ for Pavement Patch”, per ton.

The unit Contract price for pavement patch shall be full pay for all labor, equipment, and
materials required to complete the patching of the street, including joints, where
required, and removal of temporary base.

“Cold Plant Mix for Temporary Pavement Patch”, per ton.

The unit Contract price for “Cold Plant Mix for Temporary Pavement Patch” shall be full
pay for all labor, equipment, and materials required to furnish and install; maintain; and
remove and dispose of the temporary patch.

Temporary pavement patches placed between October 1st and March 31st shall be HMA
Cl. ½” PG 58H-22.

END OF SECTION
5-05 CEMENT CONCRETE PAVEMENT

5-05.1 Description
This section is supplemented with the following:

All concrete pavement restoration shall be performed in accordance with the City of Tacoma’s Right-of-Way Restoration Policy found at www.govME.org.

5-05.3 Construction Requirements

5-05.3(1) Concrete Mix Design for Paving
The sixth paragraph is supplemented with the following:

The submittal for the concrete mix design shall provide the following: the date, the amount of materials (i.e. cement, sand, aggregates, water), the type and amount of each admixture, and the designated 28-day compressive strength specific to the mix design being submitted. The design compressive strength shall be a minimum of 4000 psi.

5-05.3(4)A Acceptance of Portland Cement Concrete Pavement
This section is supplemented with the following:

Acceptance of concrete will be on a non-statistical acceptance only.

The first, second, third and fourth paragraphs are deleted.

5-05.3(8) Joints
The second paragraph is revised to read:

The Contractor shall submit a concrete panel jointing plan in accordance with the Plans and these Specifications. When a concrete panel jointing plan is included in the Plans, the Contractor may adopt or submit a revised jointing plan in accordance with Standard Plans and the Specifications at the Contractor’s own expense. The Contractor’s jointing plan shall be approved in writing by the Engineer before the start of concrete paving.

When new pavement abuts existing pavement, the locations of the joints in the new pavement shall match with the joints in the existing pavement unless otherwise approved by the Engineer.

5-05.3(11) Finishing
The third paragraph is revised to read:

In advance of curing operations, the pavement shall receive an initial texturing followed by final finishing. Initial texturing shall be performed with a burlap drag or broom device, creating striations in the same orientation as the final finish. The concrete roadway surface shall be finished with a heavy broom finish. Where integral concrete curbs are constructed, the roadway surface finish shall end 12 inches from the flowline.
The fourth paragraph is revised to read:

Burlap drags, brooms and tine devices may be installed on self-propelled equipment having external alignment control. When texturing the pavement with burlap, the area of burlap in contact with the pavement shall be maintained constant at all times. Broom and tine devices shall be provided with positive elevation control. Downward pressure on pavement surface shall be maintained at all times during texturing so as to achieve uniform texturing without measurable variations in pavement profile. If self-propelled texturing machines are used, these shall be operated so that travel speed during texturing is maintained constant. Failure of the texturing equipment to perform according to this section shall constitute cause for stopping placement of concrete until the equipment deficiency or malfunction is corrected.

The fifth paragraph is revised to read:

The surface finish shall be as shown per Plans and in accordance with these Special Provisions. The Engineer may specify either transverse tining, or longitudinal tining, or a heavy broom finish for any part of the project. Transverse tining is the standard concrete finish.

The seventh paragraph is revised to read:

Test Panel:

At the start of concrete pavement construction, the Contractor shall first finish a textured concrete test panel and the Engineer shall give approval of the achieved finish according to this section prior to further concrete pavement construction. If the test panel is rejected by the Engineer, the Contractor shall remove and replace the test panel at no additional cost to the Contracting Agency. The Contractor can designate one of the project panels as a test panel or create a sacrificial test panel on site of at least four feet by eight feet.

Project panels not meeting the characteristics of the test panel shall be removed and replaced at no additional cost to the Contracting Agency.

The eighth through tenth paragraphs are deleted.

5-05.3(12) Surface Smoothness

The section is revised to read:

The Contractor shall measure surface smoothness with a 10-foot straightedge as directed by the Engineer. The finished grade surface shall not vary more than 1/8 inch from the bottom edge of a 10-foot straightedge placed on the surface parallel to the centerline. Perpendicular to the centerline, the finished grade surface shall not vary more than ¼ inch from the bottom edge of a 10-foot straightedge laid across any lane.

The completed surface shall be of uniform texture, smooth, shall conform to Plans as to crown and grade, and shall be free from defects of all kinds. Corrective work shall be as directed by the Engineer; and the Contractor shall complete corrective work at no additional expense, including traffic control, to the City of Tacoma.
5-05.3(14) Cold Weather Work

This section is supplemented with the following:

The following additional requirements for placing concrete shall be in effect from November 1 to April 1:

- 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 concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.

5-05.3(18) Vacant

This section is revised to read:

5-05.3(18) Colored Crosswalk Pavement

Where shown on the plans to construct a crosswalk area using colored cement concrete pavement the contractor shall install pavement with integral color. The integral color shall “Brick Red 160” per Davis Colors color chart or Engineer approved equal.

5-05.4 Measurement

This section is revised to read:

Measurement for cement concrete pavement and concrete base pavement shall be by the square yard for the pavement completed and accepted according to Section 5-05 and the Plans, including the area underneath curbs. No deduction will be made for castings in pavement.

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 color additive, furnishing and installing epoxy coated dowel bars and tie bars except as specified for “Dowell 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.

The unit Contract price for “Cement Conc. Pavement for Pavement Patch, ___-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.

END OF SECTION
This section is deleted. The requirements of Section 7-17 shall apply to storm sewers.
7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS
(******)

7-05.1 Description
This section is supplemented with the following:

All references to sanitary sewers shall be construed to also mean storm sewers.

7-05.3 Construction Requirements
The first sentence of the eleventh paragraph is revised to read:

A flexible pipe-to-manhole connector shall be used in all connections of rigid and thermoplastic pipes to new precast concrete manholes to provide a watertight joint between the pipe and the manhole, unless otherwise directed by the Engineer. The connector shall be “Kor-N-Seal” with “Wedge Korband” (Type I or II as required for pipe diameter), manufactured by NPC, Inc., Milford, New Hampshire, or Engineer approved equal. The connectors shall be installed in accordance with the manufacturer’s recommendations.

7-05.3(1) Adjusting Manholes and Catch Basins to Grade
This section is revised to read:

7-05.3(1) Adjusting Utility Structures to Grade

Where shown in the Plans or where directed by the Engineer, utility structures shall be adjusted to grade as staked or as otherwise designated by the Engineer.

The materials and methods of construction shall conform to the requirements specified in Section 7-05.3 and Standard Plan No. SU-25 or SU-37. The finished structure shall conform to the requirements of the standard plan for the specific structure.

Add this new section:
7-05.3(1)B Replace Catch Basin Grate

Where shown on the plans the Contractor shall remove the existing catch basin grate and install a new vaned grate. The existing grate, which is replaced with a new grate, shall become the property of the Contractor and shall be removed from the project site. New vaned grates for “Replace Catch Basin Grate” shall conform to WSDOT standard plan B-30.30 for mid-slope catch basins or B-30.40 for catch basins at low points in the road.

7-05.3(3) Connections to Existing Manholes
The first sentence is revised to read:

The Contractor shall inspect the existing manholes and catch basins in the field to verify invert elevations, pipe size and material, and the scope of work necessary to make the connection(s) prior to construction.
7-05.4 Measurement
The sixth paragraph is revised to read:

Connections to existing structures will be measured per each.

This section is supplemented with the following:

Reconnecting existing sewer pipes to new manhole structures will be measured per each.

Manholes with Cast-in-Place Base will be measured per each.

Catch Basin Type 2 in excess of 10 feet in height will be measured per linear foot for each additional foot of height over 10 feet. Measurement will be the distance from the flow line of the outlet pipe to the top of the manhole ring measured to the nearest foot.

Replace Catch Basin Grate will be measured per each.

Adjustment of utility structures will be measured per each.

7-05.5 Payment
The first paragraph is supplemented with the following:

The unit Contract price for “Manhole____” shall be full pay for all work required to furnish and install the new manhole to finished grade, including, but not limited to, excavating for, furnishing backfill, compaction of backfill, connection of new pipe(s), channeling, covers, frames, ladders, steps, and handholds, as applicable per Standard Plans.

The unit Contract price for “Catch Basin____” shall be full pay for all work required to furnish and install the new catch basin to finished grade, including, but not limited to, excavating for, furnishing backfill, compaction of backfill, connection of new pipe(s), frame, cover, as applicable per Standard Plans.

The pay item for “Drop Manhole Connection” is revised to read:

“Drop Manhole Connection, ____-Inch Diam.,” per each.

The pay item for “Connection to Drainage Structure” is revised to read:

“Connect New Sewer Pipe ____-In. Diam. to Existing Structure”, per each

This section is supplemented with the following:

“Reconnect Existing Sewer Pipe, ____-In. Diam., to New Structure”, per each.

The unit Contract price per each shall be full pay for all labor, equipment and materials necessary to reconnect the existing sewer pipe to the new structure as specified in Section 7-05.3.

“Adjust Existing Catch Basin, Furnish New Frame and Grate”, per each
The unit Contract price per each for “Adjust Existing Catch Basin, Furnish New Frame and Grate” shall be full pay for all costs associated with adjusting the frame and grate to finished grade, including but not limited to, excavating, furnish and place backfill, furnishing and installing the new frame and grate, compacting, surfacing, and restoration.

"Adjust Existing Manhole, Furnish New Frame and Cover", per each

The unit Contract price per each for “Adjust Existing Manhole, Furnish New Frame and Cover” shall be full pay for all costs associated with adjusting the frame and cover to finished grade, including but not limited to, excavating, furnish and place backfill, furnishing and installing the new frame and cover, compacting, surfacing, and restoration.

“Adjust Existing Valve Chamber to Grade”, per each

The unit Contract price per each for “Adjust Existing Valve Chamber to Grade” shall be full pay for all costs associated with the adjusting the valve chamber to finished grade, including but not limited to, excavating, furnish and place backfill, compacting, surfacing, and restoration.

“Manhole ___-In. Diam. Type ___, with Cast-in-Place Base”, per each.

The unit Contract price per each for “Manhole ___-In. Diam. Type ___, with Cast-in-Place Base” shall be full pay for all labor, equipment and materials required to furnish, excavate for, furnish and place backfill, compact, and install to finished grade the new manhole with a cast-in-place base, including, but not limited to, insuring proper support of existing main, channeling, connection of new pipe, covers, frames, ladders, steps, and handholds, as applicable per Standard Plans.

“Catch Basin Type 2 Additional Height, ___ In. Diam.”, per linear foot.

“Replace Catch Basin Grate”, per each.

The unit contract price per each for “Replace Catch Basin Grate” shall be full pay for all costs associated with replacing the grate of an existing catch basin, including but not limited to, furnishing and installing the new grate to the proper orientation, and removing the old grate from the project site.

“Adjust to Grade”, per each

The unit contract price per each for “Adjust to Grade” shall be full pay for all costs associated with the adjusting utilities to finished grade, including but not limited to, providing new junction boxes, removing, salvaging for reuse if required, excavating, furnish and place backfill, compacting, surfacing, and restoration.

END OF SECTION

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7-07 CLEANING EXISTING DRAINAGE STRUCTURES
(March 23, 2010 Tacoma GSP)

7-07.3 Construction Requirements

Item three of paragraph two is revised to read:

3. If sediment and water from structures does not meet the conditions described in 1 or 2 above, the Contractor shall collect and dispose of all water used and all debris generated in cleaning operations. No cleaning water or debris shall be flushed downstream beyond the limits of the work.

END OF SECTION
7-08.3 Construction Requirements

7-08.3(1)A Trenches

The tenth paragraph of this section is deleted. All dewatering requirements are found in section 8-01.3(1)C.

7-08.3(1)C Bedding the Pipe

This section is supplemented with the following:

Pipe bedding for sanitary and storm sewers shall be in accordance with City of Tacoma Standard Plan No. SU-16.

7-08.3(2)F Plugs and Connections

This section is supplemented with the following:

Rigid Couplings, manufactured by Romac Industries, Inc., or Engineer approved equal, shall be used at any pipe joint in which bell and spigot or fused joints are not used. Flexible couplings are not permitted, except for side sewer installation.

7-08.3(2)G Jointing of Dissimilar Pipe

This section is revised to read:

Dissimilar pipe shall be joined by use of rigid couplings manufactured by Romac Industries, Inc., or Engineer approved equal, except for side sewer installation.

7-08.3(3) Backfilling

The second paragraph is revised to read:

Pipe zone bedding and trench backfill shall be in accordance with City of Tacoma Standard Plan No. SU-16. (Pipe zone backfill shall meet the requirements of Section 9-03.9(3) for Crushed Surfacing Top Course. Backfill above pipe zone and extra excavation area backfill material shall meet the requirements of Section 9-03.12(2), Gravel Backfill for Walls.) Recycled concrete shall not be used for pipe zone bedding, pipe zone backfill, backfill above pipe zone, and extra excavation area backfill.

The fourth paragraph is revised to read:

Backfill above the pipe zone shall be accomplished in such a manner that the pipe will not be shifted out of position nor damaged by impact or overloading. If pipe is being placed in a new embankment, backfill above the pipe zone shall be placed in accordance with Section 2-03.3(14)C. If pipe is being placed under existing paved areas, or roadways, backfill above the pipe zone shall be placed in horizontal layers no more than 12-inches thick and compacted to 95-percent maximum density. If pipe is being placed in non-traffic areas, backfill above the pipe zone shall be placed in horizontal layers no more than 12-inches thick and compacted to 85-percent maximum density. All compaction shall be in accordance with the Compaction Control Test of Section 2-03.3(14)D. Material excavated from the trench shall be used for backfill above the pipe zone, except that organic material, frozen lumps, wood, rocks, or pavement
chunks larger than 6-inches in maximum dimension shall not be used. Material
determined by the Engineer to be unsuitable for backfill at the time of excavation shall be
removed and replaced with imported backfill material meeting the requirements of
Section 9-03.12(2). Material determined to be suitable for backfill at the time of
excavation shall be stockpiled and used for backfill material. If the stockpiled material
becomes unsuitable, the Contractor shall furnish suitable material in an amount equal to
that, which became unsuitable, at no expense to the Contracting Agency.

Section 7-08.3 is supplemented with the following:
7-08.3(5) Temporary Bypass Pumping

It shall be the Contractor’s responsibility to maintain operation of the existing storm
and/or sanitary sewer systems throughout the duration of the project without any
interruption of sewer service. The Contractor shall divert all flows around each segment
of the pipe designated for replacement. This diversion shall consist of redirecting flow
from an upstream manhole and pumping it to a manhole downstream of the replacement
operation. After the pipe replacement work is completed and accepted by the City, flow
shall be returned to the reconstructed storm or sanitary sewer. The area affected by the
bypass operation shall be fully restored.

Bypass pumping shall be scheduled for continuous operation with back-up equipment
available at all times for periods of maintenance and refueling or failure of the primary
bypass pump(s) or diversion system. If the Contractor’s operation requires bypass
pumping at night, he/she must provide monitoring personnel at all times to ensure the
system remains functional.

Bypass pumping shall be done in such a manner as not to damage private or public
property, or create a nuisance or public menace. The pumped sewage or stormwater
shall be in enclosed hoses or pipes that are adequately protected from traffic, and shall
be redirected into the appropriate sewer system. The discharge of storm water to
private property, city streets, sidewalks, sanitary sewer, or any location other than an
approved storm sewer is prohibited. The discharge of sewage to private property, city
streets, sidewalks, storm sewer, or any location other than an approved sanitary sewer
is prohibited. The Contractor shall be liable for all cleanup, damages, and resultant fines
should the Contractor’s operation cause any backups, overflows, or property damage.
The Contractor’s bypass operation shall be sized to handle, at a minimum, the full pipe
capacity in each subject line removed from service. If flow conditions are greater than
full pipe, the Contractor may elect to wait for flow conditions to subside prior to removing
the subject line from service. Working days may be adjusted per Specification 1-08.5.
Once the Contractor removes a section of line from service he/she is responsible to
bypass any and all flow in the system during construction, even in the event the system
surcharges and exceeds the full pipe capacity, until the line is returned to service.

The Contractor shall submit a Bypass Pumping Plan in accordance with Section 1-05.
The Contractor’s plan for bypass pumping shall be reviewed by the City before the
Contractor will be allowed to commence bypass pumping. The review of the bypassing
system and equipment by the Engineer shall in no way relieve the Contractor of his
responsibility and public liability.
The Contractor shall use hard pipe to bypass sewers 12-inches in diameter or greater. The Contractor shall not block any driveways or intersections, but shall bury the pipe to allow continuous access through intersections and driveways.

The Contractor may use lay-flat hose to bypass storm and sanitary sewers that are less than 12 inches in diameter. The Contractor shall ensure that sewage spills do not occur with the use of lay flat hoses. If sewage spills occur, the Contractor will be required to use hard pipe for all sanitary sewers.

7-08.3(6) Abandon Existing Pipe
If construction of the new sewer pipe does not result in the removal of the existing pipe due to differing alignments, then the existing pipe shall be abandoned in place as shown in the Plans. The Contractor shall plug all pipe branches, stubs, or other open ends of the pipe to be abandoned and fill with CDF. The Contractor shall submit a Pipe Abandonment Plan in accordance with Section 1-05.3 describing the proposed methods for filling the pipes with CDF, specifically addressing how the pipes will be filled in a manner that will prevent air pockets from being left in the abandoned pipe. The CDF mix design shall meet the requirements of Section 2-09.3(1)E.

If the pipes to be abandoned are removed and disposed of during construction of the new sewers, all costs for the removal and disposal shall be included in the unit contract price for “Structure Excavation, Class B,” at per cubic yard.

7-08.4 Measurement
This section is supplemented with the following:

No specific measurement shall apply to the lump sum item “Temporary ___ Sewer Bypass”.

No specific measurement shall apply to the lump sum item “Temporary ___ Sewer Bypass Plan”.

Abandonment of existing sewer pipes will be measured by the cubic yard of CDF necessary to fill the existing pipes.

7-08.5 Payment
This section is supplemented with the following:

“Temporary ___ Sewer Bypass”, per lump sum.

The lump sum Contract prices for “Temporary ___ Sewer Bypass” shall be full payment for labor, equipment, and materials, including but not limited to, personnel, fuel, monitoring, power, pumps, piping, barricades, emergency stand-by equipment, trenching, surface restoration costs, and all other work necessary to maintain uninterrupted storm and sanitary sewer services by bypassing the applicable sewer system flows.

“Temporary ___ Sewer Bypass Plan”, per lump sum
The lump sum Contract price for “Temporary ___ Sewer Bypass Plan” shall be full pay for all costs, including but not limited to, preparing, submitting, revising, and resubmitting revisions for the Temporary Bypass Plan.

“CDF for Pipe Abandonment”, per cubic yard.

The unit Contract price for “CDF for Pipe Abandonment” shall be full payment for all labor, materials, and equipment necessary to abandon the sewer pipes.

END OF SECTION
7-17 SANITARY SEWERS
(March 4, 2014 Tacoma GSP)

7-17.1 Description
This section is supplemented with the following:

All references to sanitary sewer shall also mean storm sewers.

7-17.2 Materials
The first paragraph is revised to read:

Pipe materials used for storm and sanitary sewers shall be as shown on plans. All
references to PVC shall mean Solid Wall PVC Sewer Pipe. Profile Wall PVC will not be
permitted.

This section is supplemented with the following:

Polyvinyl Chloride (PVC) Pressure Pipe (4-inches and over) 9-30.1(5)A

7-17.3 Construction Requirements

7-17.3(2)A General
The first paragraph is revised to read:

Sewers and appurtenances shall be cleaned and tested after backfilling by either
exfiltration or low-pressure air method at the option of the Contractor, except where the
ground water table is such that the Engineer may require the infiltration test.

7-17.3(2)H Television Inspection
The first paragraph is revised to read:

The Contractor shall video inspect all sanitary and storm sewers prior to paving where
paving occurs over sewers, or prior to final acceptance. All costs incurred in making the
inspection shall be included in the cost for sewer pipe.

7-17.4 Measurement
This section is supplemented with the following:

Removal and replacement of unsuitable, contaminated and non-contaminated, backfill
material will be determined by the cubic yard in place, based on a neat line
measurement per this Section and Section 2-09. Any removal and replacement of
unsuitable material outside neat line measurement shall be incidental to the Bid item.

Horizontal Limits: The horizontal limits shall be as defined in Section 2-09.4.

Longitudinal Limits: The longitudinal limits shall be as defined in Section 2-09.4.

Lower Limits: The lower limits shall be the top of the pipe zone as shown on Standard
Plan No. SU-16.
**Upper Limits:** The upper limits shall be the subgrade elevation of the proposed roadway section or pavement patch section.

All costs associated with the disposal of material located above the upper limits shall be included in the unit contract price for other items of work, unless a proposal item is included for this specific item of work.

Pipe zone limits are as defined in Standard Plan SU-16.

**7-17.5 Payment**

*The first paragraph is supplemented with the following:*

“PVC Storm Sewer Pipe ___In. Diam.”, per linear foot.

*The second paragraph is revised to read:*

The unit Contract price per linear foot for sewer pipe of the kind and size specified shall be full pay for the furnishing, hauling, assembling in place, and video inspecting the complete installation, including but not limited to, disposal of material excavated within the pipe zone, furnishing and installing pipe bedding and backfill material within the pipe zone, and all wyes, tees, special fitting, joint materials, and other appurtenances necessary for the completion of the installation to the required line and grade, unless proposal items are included for these specific items of work.

*The pay item “Removal and Replacement of Unsuitable Material” is revised to read:*

“Removal and Replacement of Unsuitable Material Incl. Haul”, per cubic yard.

The unit Contract price per cubic yard for “Removal and Replacement of Unsuitable Material” shall be full pay for all work required to haul and dispose of the unsuitable material as specified in Section 7-08.3(1)A and the furnishing of suitable backfill material as specified in Section 7-08.3(3).

For the purpose of providing a common proposal for bidders, the proposal quantity for “Removal and Replacement of Unsuitable Material” is based on removal and replacement of all backfill material.

**END OF SECTION**
8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.1 Description

This section is supplemented with the following:

The City of Tacoma Stormwater Management Manual is available on the City’s website at www.cityoftacoma.org/stormwatermanual.

8-01.3(1) General

8-01.3(1)A Submittals

This section is revised to read:

The Contractor shall prepare and implement a project-specific Construction Stormwater Pollution Prevention Plan (SWPPP) in accordance with the City of Tacoma Stormwater Management Manual (SWMM), Volume 2. The SWPPP is a document that describes the potential for pollution problems on a construction site and explains and illustrates the measures to be taken on the construction site to control those problems.

The Construction SWPPP shall be prepared as a stand-alone document consisting of two sections: Section 1) Construction SWPPP Narrative and Section 2) Temporary Erosion and Sediment Control (TESC) Plans.

The Contracting Agency has prepared the Construction Stormwater Pollution Prevention Plan Checklist to aid the Contractor in development of the SWPPP. This checklist provides the Contractor with a tool to determine if all the major items are included in the Construction SWPPP and on the TESC Plans and can be found in Volume 2, Chapter 2 of the SWMM. Contractors are encouraged to complete and submit this checklist with the Construction SWPPP.

The Department of Ecology has prepared a SWPPP template that can be used for projects in the City of Tacoma. The template can be found on Ecology’s website at: http://www.ecy.wa.gov/programs/wq/stormwater/construction/resourcesguidance.html.

The Contractor developing the SWPPP must ensure that all references are appropriate for the City of Tacoma.

The SWPPP is considered a “living” document that shall be revised to account for additional erosion control/pollution prevention BMPs as they become necessary and are implemented in the field during project construction. A copy of the most current SWPPP and TESC Plan shall remain on-site at all times and an additional copy shall be forwarded to the Engineer. At the Contractor's preference, revisions to the SWPPP and TESC Plan may be forwarded to the Engineer rather than submitting a complete document. Revisions to the SWPPP and TESC Plan may be kept on-site in a file along with the original SWPPP document.

The Contractor shall provide Stormwater Pollution Prevention Plan inspection reports or forms per 8-01.3(1) B to the Project Engineer no later than the end of the next working day following the inspection.
This section is revised to read:

The Contractor shall identify the ESC Lead at the Preconstruction Meeting and the contact information for the ESC Lead shall be added to the Stormwater Pollution Prevention Plan (SWPPP) Report and the Temporary Erosion and Sediment Control (TESC) Plan Sheet. The ESC Lead shall maintain, for the life of the contract, a current Certified Erosion and Sediment Control Lead (CESCL) certificate or maintain a current Certified Professional in Erosion and Sediment Control (CPESC) certificate from a course approved by the Washington State Department of Ecology. The CESCL or CPESC shall be listed on the Emergency Contact List required under Section 1-05.13(1).

The CESCL or CPESC shall direct implementation of the measures identified in the SWPPP and as shown on the TESC plan. Implementation shall include, but is not limited to the following:

1. Installing and maintaining all temporary erosion and sediment control Best Management Practices (BMPs) included in the SWPPP and as shown on the TESC plan. Damaged or inadequate BMPs shall be corrected as needed to assure continued performance of their intended function in accordance with BMP specifications and Permit requirements.

2. Performing monitoring as required by the NPDES Construction Stormwater General Permit.

3. Inspecting all on-site erosion and sediment control BMPs at least once every calendar week and within 24 hours of any discharge from the site. A SWPPP Inspection report or form shall be prepared for each inspection and shall be included in the SWPPP file. A copy of each SWPPP Inspection report or form shall be submitted to the Engineer no later than the end of the next working day following the inspection. The report or form shall include, but not be limited to the following:

   a. When, where, and how BMPs were installed, maintained, modified, and removed.

   b. Observations of BMP effectiveness and proper placement.

   c. Recommendations for improving future BMP performance with upgraded or replacement BMPs when inspections reveal SWPPP inadequacies.

   d. Approximate amount of precipitation since last inspection and when last inspection was performed.

4. Updating and maintaining a SWPPP file on site that includes, but is not limited to the following:

   a. SWPPP Inspection Reports or Forms.

   b. SWPPP narrative.

   c. National Pollutant Discharge Elimination System Construction Stormwater General Permit (Notice of Intent).

   d. All documentation and correspondence related to the NPDES Construction Stormwater General Permit.

   e. Other applicable permits.

Upon request, the file shall be provided to the Engineer for review.
8-01.3(2) Seeding, Fertilizing, and Mulching

8-01.3(2)A1 Seeding
The first paragraph is supplemented with the following:

The depth of cultivation shall be 3 inches.

8-01.3(2)B Seeding and Fertilizing
The first paragraph is supplemented with the following:

All seeding areas shall be seeded with the following mix:

<table>
<thead>
<tr>
<th>Type of Seed</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Rye</td>
<td>70</td>
</tr>
<tr>
<td>Chewings and Red Fescue</td>
<td>30</td>
</tr>
</tbody>
</table>

The rate of application shall be 120 lbs. per acre.

Seeding fertilizer shall be per the supplier’s recommendations.

The fourth paragraph is supplemented with the following:

Seed shall be distributed uniformly over the designated area. Half of the seed shall be sown with the sower moving in one direction, and the remainder with the sower moving at right angles to the first sowing. Hand seeding will be allowed for small areas.

8-01.3(2)D Mulching
The first paragraph is supplemented with the following:

Hydro-mulch shall be applied at a rate of 1500 lbs. per acre to areas that are hydro-seeded.

Compost shall be applied at a rate of 75 tons per acre to areas that are hand seeded.

8-01.3(2)E Tackifiers
This section is supplemented with the following:

Tackifier shall be applied at a rate of 50 lbs. per acre to areas that are hydro-seeded.

8-01.3(7) Stabilized Construction Entrance
The third paragraph is revised to read:

When the contract requires a wheel wash in conjunction with the stabilized entrance, the details for the wheel wash and the method for containing and treating the sediment-laden runoff shall be included as part of the SWPPP and TESC Plan.

8-01.3(8) Street Cleaning
The third paragraph is revised to read:

Street washing with water shall not be permitted.
8-01.3(9)D Inlet Protection
Replace the third paragraph of this section with the following:

When the depth of accumulated sediment and debris reaches approximately 1/3 the height of an internal device or 1/3 the height of the external device (or less when so specified by the manufacturer), or as designated by the Engineer, the sediment and debris shall be removed and disposed of per SWMM BMP C220 or as specified on the Plans or within the SWPPP.

The section is supplemented with the following:

Replace the fifth and sixth sentences of this section with the following:

On gradually sloped or clay-type soils trenches shall be 3 to 5 inches deep. On loose soils in high rainfall areas, or on steep slopes, trenches shall be 3 to 5 inches deep, or 1/2 to 2/3 the thickness of the wattle.

8-01.4 Measurement
The third paragraph of this section is revised to read:

Check dams will be measured by the linear foot along the ground line of the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.

This section is supplemented with the following:

No specific unit of measurement shall apply to the lump sum item “Stormwater Pollution Prevention Plan (SWPPP)”.

No specific unit of measurement shall apply to the lump sum item “Dewatering Plan”.

Add the following new sections:

8-01.4(1) Lump Sum Bid for Project (No Unit Items)

When the bid Proposal contains the item “Erosion/Water Pollution Control”, there will be 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

This section is supplemented with the following:

Maintenance and removal of erosion control BMPs according to 8-01.3(15), 8-01.3(16), or according to these Specifications and the Plans, or as directed by the Engineer shall be included in the lump sum or unit cost for these respective BMPs.

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 pay for all cost for labor, equipment, and materials to perform all Work associated with erosion control, except for costs compensated by Bid Proposal items inserted through Contract Provisions as described in Section 8-01.5(2). The Work shall include, but shall not be limited to, furnishing, purchase and delivery of required materials, installation, maintenance, and removal 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 Tacoma Municipal Code 12.08 for the entire duration of the Project.

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:

“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.

The lump sum contract price for "NPDES Construction Stormwater General Permit" shall be full pay for all costs, including but not limited to, transfer of coverage, sampling, monitoring, reporting, coordinating, inspecting, materials and labor, and all fees and any other expenses necessary to fully comply with the requirements of the permit up to and including termination of the permit and completion of the Work. The lump sum price shall also include all costs necessary to supply the City of Tacoma with all information as necessary to ensure compliance with the permit.

END OF SECTION
8-02 ROADSIDE RESTORATION

8-02.3 Construction Requirements

8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation
This section is supplemented with the following:

All grades shall be maintained in the areas to be planted in a true and even condition. The contractor shall be careful not to disturb any of the existing or cut slopes. Where final grades have not been established, the areas shall be finish graded and all surfaces left in an even and compacted condition. The finished grade shall be such that after planting, the grade shall be flush with adjoining surfaces; positive drainage shall also be maintained.

The boundary vegetation planting area indicated on the proposed planting plan is approximate. Confirm boundaries in field with Engineer.

8-02.3(5)B Lawn Area Preparation
Item 4. of this section is revised to read:

1. Topsoil shall be cultivated to a depth of 4 inches. Rake to a smooth even grade without low areas that trap water and compact with a 5-pound roller. The finished grade of the soil shall be 1 inch below the top of all curbs, junction and valve boxes, walks, driveways and other structures.

8-02.3(6) Soil Amendments
This section is supplemented with the following:

Recycled/compost material in accordance with Section 9-14.4(8) shall be blended with the specified topsoil at a ratio of 1/1 by volume.

8-02.3(6)B Fertilizers
This section is supplemented with the following:

Fertilizer shall be supplied and applied per supplier’s recommendations.

8-02.3(8)C Pruning, Staking, Guying and Wrapping
This section is supplemented with the following:

Crossed or rubbing branches shall be removed providing the natural shape of the tree is preserved. Under no circumstances shall pruning be done prior to inspection and approval of plants by the Engineer. All cuts shall be made flush with the parent stem leaving no stubs. Pruning cuts shall be made in a manner to favor the earliest possible covering of the wound by callus growth. Cuts that produce large wounds and weaken the tree will not be acceptable.

Top growth removal to compensate for root loss shall not exceed one-third (1/3) of the top growth unless otherwise specified or directed by the Engineer. Cuts created 3/4 inch in diameter shall be treated with an approved tree wound dressing. All pruning shall
produce a clean cut without bruising or tearing the bark and shall be in living wood
where the wood can properly heal over.

Evergreens shall not be pruned, except to remove injured branches. The use of pole
shears and/or hedge shears for pruning deciduous and evergreen trees will not be
permitted. All trimmings and other debris left over from the planting operations shall be
collected and disposed of off the site.

All evergreen trees and deciduous trees over 15 feet in height shall be guyed with three
wires or cables.

All deciduous and evergreen trees shall be staked the same day of planting.

8-02.3(10) Lawn Installation

8-02.3(10)A Dates and Conditions for Lawn Installation) (per 2019-04-01 Amendment,
typ.)

The first paragraph is revised to read:

Where no irrigation system is to be installed, hydroyseed lawn shall be installed
during the following periods only:

- March 1st – June 30th
- September 1st - October 25

8-02.3(10)B Lawn Seeding and Sodding

This section is supplemented with the following:

Hydroyseeding will be an allowed method for lawn installation. All permanent
seeding areas shall be seeded with Landscaping Seed Mix:

<table>
<thead>
<tr>
<th>Type of Seed</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Rye</td>
<td>70</td>
</tr>
<tr>
<td>Chewings and Red Fescue</td>
<td>30</td>
</tr>
</tbody>
</table>

The rate of application shall be per manufacturer’s recommendation.

Seeding fertilizer shall be per manufacturer’s recommendation.

For Sodded Lawns: On sloped areas, the sod strips shall be laid perpendicular to
the flow of water.

8-02.3(10)C Lawn Establishment

This section is supplemented with the following:

Lawn that is replaced shall be of the same mixture and grade as the surviving lawn.

8-02.3(11) Bark or Wood Chip Mulch
8-02.3(11)B Bark or Wood Chip Mulch

The third paragraph is revised to read:

Bark or wood chip mulch in accordance with Section 9-14.4(3) shall be applied to a depth of 3 inches at the locations indicated on the Plans or as directed by the Engineer. Mulch shall be feathered to plant material trunks, stems, canes, or root collars, and level with the top of junction and valve boxes, curbs and pavement edges.

8-02.3(13) Plant Establishment

This section is revised to read:

A one-year plant establishment period is required by this Contract. The plant establishment period shall begin immediately upon written notification from the Engineer of the completion of initial planting for the project. The Contractor shall maintain the planting areas and all plants and planting areas within the project limits to ensure the resumption and continued growth of the planted material until physical completion of the contract.

When the Proposal includes the bid item PSIPE (Plant Selection Including Plant Establishment), that bid item includes one year of plant establishment Work.

Maintenance shall include, but not be limited to, labor and materials necessary for removal of foreign, dead, or rejected plant material, maintaining a weed-free condition, and the replacement of all unsatisfactory plant material planted under the contract.

Planting dates for replacement plant material will be approved by the Engineer.

The Contractor shall meet with the Engineer for the purpose of joint inspection of the project once installation has been completed and thereafter on a periodic “as needed” basis as determined by the Engineer, until the physical completion date of the contract.

All conditions unsatisfactory to the Engineer shall be corrected by the Contractor within a ten-day period immediately following the inspection. Failure to comply with corrective steps as outlined by the Engineer shall constitute justification of the Contracting Agency to take corrective steps and to deduct all costs thereof from any monies due the Contractor.

The Contractor shall replace all plants stolen or damaged by the acts of others until the physical completion date of the contract. At the end of the plant establishment period, plants that do not show normal growth shall be replaced and all staking and guying that remains on the project shall be removed unless otherwise allowed by the Engineer.

8-02.3(14) Plant Replacement

This section is supplemented with the following:

The Contractor shall provide the Contracting Agency a one (1) year non pro-rated, full labor and materials warranty for all planted material. The warranty shall cause the Contractor to remove and replace all rejected plant material during the warranty period. The warranty period shall begin at the date of physical completion of the contract and end one calendar year from that date. Thus, plant establishment shall be included in the Contract price per each for the duration of the warranty and the Contract, whichever is the longer duration.
The Contractor shall be responsible for growing or providing enough plants for replacement of all plant material rejected during the warranty period. All rejected plant material shall be replaced at dates approved by the Engineer.

All replacement plants shall be of the same species and quality as the plants they replace. Plants may vary in size reflecting one season of growth should the Contractor elect to hold plant material under nursery conditions for an additional year to serve as replacement plants.

Replacement plants will be subject to the original warranty provision as stated above.

*Add the following new section:*

**8-02.3(17) Site Restoration**

During the construction of the roadway or HMA overlay, curb ramp construction, curb and gutter construction, and sidewalk construction; the Contractor shall temporarily move and reset or replace in kind, including but not limited to: any lawn, topsoil, plants, wood chip mulch, garden walls, rockery or landscape affected by the work. Each location of work shall be graded to a smooth and even surface, matching existing grades. Grading shall be accomplished to blend the new work with the existing ground lines and to maintain natural drainage courses. In areas abutting the roadway, or where it is common for pedestrians to walk, lawn restoration shall either be protected from any kind of traffic until the end of the establishment period or left in a manner that is firm when subjected to foot traffic. Restoration of grass areas by placement of seed shall be done through hydro-seeding. Hand seeding will not be allowed, except in small areas as allowed by the Engineer. In addition landscaping items not included in the Proposal shall be included under “Site Restoration”, lump sum.

All excess materials shall be removed from the site.

**8-02.4 Measurement**

*The first paragraph is revised to read:*

Topsoil, mulch and soil amendments will be measured by the cubic yard in the haul conveyance at the point of delivery.

*The third paragraph is revised to read:*

Compost will be measured by the cubic yard in the haul conveyance at the point of delivery.

*This section is supplemented with the following:*

Irrigation water used to establish vegetation will be considered included in the cost of plants.

*This section is supplemented with the following:*

No specific unit of measure will be applied to the lump sum bid item Site Restoration.

**8-02.5 Payment**

*The pay item for “PSIPE___” is revised to read*

“PSIPE __”, per each.
Payment for “PSIPE ___” shall be full pay for all materials, labor, tools, equipment and
supplies necessary for weed control within planting areas, planting area preparation, fine
grading, planting, cultivating, watering, and clean-up for the particular items called for in
the Plans and Specifications for the duration of the Contract. A one (1) year plant
warranty shall be included in the unit contract price. Thus, plant establishment shall be
included in the Contract price per each for the duration of the warranty and the Contract,
whichever is the longer duration.

Paragraphs 7 through 18, pertaining to partial payment, are deleted.

The pay unit of square yards will be used in lieu of acres.

The following pay items are revised to read:

“Topsoil Type __”, per cubic yard

The unit contract price per cubic yard for “Topsoil Type ___” shall be full pay for providing
the source of material for Topsoil, for pre-excavation weed control, excavating, loading,
hauling, intermediate windrowing, stockpiling, weed control on stockpiles or windrows,
and removal, placing, spreading, processing, cultivating, and compacting topsoil.

“Fine Compost”, per cubic yard

“Medium Compost”, per cubic yard

“Coarse Compost”, per cubic yard

The unit contract price per cubic yard for “__ Compost” shall be full pay for furnishing
and spreading the compost onto the existing soil.

“Soil Amendment”, per cubic yard

The unit contract price per cubic yard for “Soil Amendment” shall be full pay for
furnishing and incorporating the soil amendment into the top soil.

“Wood Chip Mulch”, per cubic yard

The unit contract price per cubic yard for “Wood Chip Mulch” shall be full pay for
furnishing and spreading the mulch onto the existing soil.

“Site Restoration”, per lump sum.

The lump sum payment for “Site Restoration” shall be full pay for all materials, labor,
tools, equipment, and supplies necessary for restoration of the job site and any
landscape items according to the Plans and Specifications, including but not limited to
replacement of grass sod/seed, planting area preparation, soil amendment, grading,
cultivating, planting, mulching, cleanup, and water necessary to complete the site
restoration, as specified.

END OF SECTION
8-03 IRRIGATION SYSTEMS

8-03.4 Measurement
This section is supplemented with the following:

PVC conduit sleeves will be measured by the linear foot.

8-03.5 Payment
This section is supplemented with the following:

“___-inch PVC Irrigation Sleeve”, per linear foot.

The unit contract price per linear foot for “___-inch PVC Irrigation Sleeve” shall be full pay for labor, materials, and equipment to complete the work.

END OF SECTION
CURBS, GUTTERS, AND SPILLWAYS
(******)

8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways
The first paragraph is revised to read:
Cement concrete curb, curb and gutters, gutters, and spillways shall be constructed with air entrained concrete Class 3000 conforming to the requirements of Section 6-02.

Section 8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways is supplemented with the following:

8-04.3(1)C Integral Cement Concrete Curb
When integral curb is being constructed with the pavement, fresh concrete for the integral curb shall be placed at such time as will enable the top section of the curb to be consolidated, finished, and bonded to the pavement slab while the concrete is plastic.
Where curb is not being placed integral with the pavement slab, reinforcing steel dowels shall be placed in the base section for the curb in accordance with the standard drawing.

Section 8-04.3 Construction Requirements is supplemented with the following:

8-04.3(6) Cold Weather Work
The following additional requirements for placing concrete shall be in effect from November 1 to April 1:

• 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 concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.

8-04.5 Payment
This section is supplemented with the following:

“Integral Cement Conc. Traffic Curb”, per linear foot
“Extruded Curb Type _______”, per linear foot.
“Cement Conc. Valley Gutter”, per linear foot.

END OF SECTION
8-13 MONUMENT CASES
(******)

This section is revised to read:

8-13 MONUMENTS

8-13.1 Description

This Work shall consist of constructing monuments in accordance with the Standard Plan and these Specifications, in conformity with the lines and locations shown in the Plans or as staked by the Engineer.

8-13.2 Materials

Concrete shall be Class 3000 in accordance with the requirements of Section 6-02. ‘Ready Mix’ bag concrete shall not be used.

Bronze markers will be supplied by the Contractor.

8-13.3 Construction Requirements

The Contractor shall construct the poured monument in accordance with the City of Tacoma Standard Plan SU-01.

8-13.4 Measurement

Measurement of the poured monument will be per each.

8-13.5 Payment

Payment will be made in accordance with Section 1-04.1. “Poured Monument”, per each.

The unit Contract price per each for “Poured Monument” shall be full pay for all labor, equipment, and materials required to furnish and install the monument, including the removal of existing monuments and necessary pavement removal to accommodate the installation in accordance with the standard plan and specifications.

END OF SECTION
8-14  CEMENT CONCRETE SIDEWALKS
(******)

8-14.3 Construction Requirements

8-14.3(3) Placing and Finishing Concrete
The fourth paragraph is revised to read:

Curb ramps shall be of the type specified in the Plans. The detectable warning pattern shall have the truncated dome shape shown in the Standard Plans.

8-14.3(4) Curing
The second sentence is revised to read:

Curing shall be in accordance with Section 5-05.3(13).

Section 8-14 is supplemented with the following:

8-14.3(20) Cold Weather Work

The following additional requirements for placing concrete shall be in effect from November 1 to April 1:

- 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 concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.

8-14.3(21) Thickened Edge for Sidewalk

Thickened edge shall be constructed in accordance with the standard plan.

8-14.5 Payment
The pay item “Cement Conc. Sidewalk” is supplemented with the following:

All additional costs related to the construction of thickened edges shall be included in the unit contract cost for “Cement Conc. Sidewalk”.

The pay item “Cement Conc. Curb Ramp Type ___” is revised to read:

“Cement Conc. Curb Ramp”, per each.

The unit contract price per each for “Cement Conc. Curb Ramp” shall be full pay for construction of the curb ramp as specified, including the cast-in-place detectable warning surfaces and associated cement conc. pedestrian curb.
The sixth paragraph is revised to read:

The Contractor shall include all costs associated with excavating, including haul and disposal, regardless of the depth in the unit contract price for “Cement Conc. Sidewalk” and/or “Cement Conc. Curb Ramp Type __”.

END OF SECTION
8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL

(*****)

8-20.1 Description

This section is supplemented with the following:

Work shall include furnishing the required materials not supplied by the City and installing all materials, equipment, and conductors necessary to complete a fully functional rapid flashing pedestrian beacon system and replacement luminaire in accordance with approved methods, the Plans, the Special Provisions, and the Specifications.

8-20.1(3) Permitting and Inspections

The third paragraph is revised to read:

All new services require a Tacoma Public Utilities Permit and inspection by Tacoma Power. All work on the load side of the service will be inspected by the Signal and Streetlight Shop Inspector.

Add the following new section:

8-20.1(4) City Furnished Materials

The Contractor will be responsible for coordinating a minimum of 48 hours in advance with the City of Tacoma Traffic Signal/Streetlight Shop at (253)591-5287 for picking up City provided materials.

The City of Tacoma Traffic Signal/Streetlighting Shop will provide the following materials for the Contractor to pick up from 3401A South Orchard Street, Tacoma, WA 98466:

- Type FB Pole (quantity 3)
- Anchor bolts (j-bolts) (quantity 3 sets)
- Rapid Flashing Beacon assembly, AC powered, dual sided, includes required signs, APS pushbutton, rectangular rapid flashing beacon, control cabinet (quantity 2 assemblies)
- Advance Pedestrian Beacon assembly, AC powered, includes required signs, circular flashing 12-inch yellow beacon (quantity 1 assembly)
- Luminaire, 134W, LED, 480V (quantity 1)

8-20.2 Materials

This section is supplemented with the following:

The Contractor shall warranty all electrical and mechanical equipment described in this section for satisfactory in-service operation for one year following project acceptance. Warranty shall include troubleshooting, labor, materials and all other costs to bring the equipment to a satisfactory level of service. Normal maintenance is not included in the warranty.
8-20.2(1) Equipment List and Drawings

This section is revised to read:

Within 20 days following execution of the Contract, the Contractor shall submit to the Engineer a completed “Request for Approval of Material” that describes the material proposed for use to fulfill the Plans and Specifications.

The Contractor shall submit Type 2 Working Drawings consisting of supplemental data, sample articles, or both, of the material proposed for use. Supplemental data includes such items as catalog cuts, product Specifications, shop drawings, wiring diagrams, etc.

The Contractor shall submit Type 2 Working Drawings consisting of the following information for each different type of luminaire required on the Contract:

1. Isocandela diagrams showing vertical light distribution, vertical control limits, and lateral light distribution classification.
2. Details showing the lamp socket positions with respect to lamp and refractor for each light distribution type. This requires that the Contracting Agency know what the light pattern available are and the light distribution.

Additional submittals for proposed alternate LED Roadway Luminaires shall be in conformance with section 9-29.10.

The Contractor shall submit for approval Type 3E Working Drawings in accordance with Section 1-05.3 for each type of light standard and each type of signal standard called for on this project.

The Engineer’s acceptance of any submitted documentation shall in no way relieve the Contractor from compliance with the safety and performance requirements as specified 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 9-29.3(2)A4 and Pull Tape, in conformance with 9-29.1(10), shall be installed in all empty conduits. At least three (3) feet of the location wire and pull tape 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 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.

When setting a new junction box on an existing streetlight circuit where no equipment
ground is present, a non-conductive junction box and lid shall be utilized.

All junction box lids for illumination systems shall be welded in place using two one and
one-half inch long welds on opposite corners of the junction box lid and frame. Welding
shall occur after inspection and testing of the illumination system and confirmation from
the Engineer. An Illumination System may consist of a separate illumination service or
circuit.

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.
Induction loop splices and magnetometer splices shall be heat shrink type with moisture blocking material, sized for the conductors. Magnetometer and induction loop splices shall be soldered. The end of the sheathing shall be sealed with a heat shrink insulator.

1. Push button conductors shall circle the base of the cabinet, counterclockwise from front right, to front left. Cable outer jacket sheathing shall be removed from the point that the conductor reaches the front left of the cabinet to the 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 fourth paragraph is revised to read:

Signal wiring shall be in conformance with the following:

1. All termination for traffic signal control systems shall be in accordance with City of Tacoma Standard Plan TS-15.
2. All signal wiring shall be 14 gauge 5-conductor or 12 gauge 2-conductor stranded copper wire unless otherwise shown in the plans.
3. For 5-section heads, 2-5c-14 gauge conductors shall be utilized.
4. 5c wire shall not be split between high voltage and low voltage. Where a pedestrian head and a pedestrian push button share a common pole, a separate 2c shall be pulled in for the push button.
5. A single 5c may be split between two pedestrian heads on a common pole with a jumper across the neutral.
6. Opticom and detection wiring shall be per manufacturer's recommendations.

Field wiring of the cabinet shall be done by City of Tacoma Signal Electricians after all wiring has been pulled into the cabinet and properly labeled with a temporary label consisting of white electrician's tape with permanent marker. The Contractor shall provide a detailed description/key of all temporary labeling. The cabinet and labeling shall be inspected by the Signal/Streetlight inspector prior to cabinet wiring. The Contractor shall allow five working days for City Electricians to field wire the cabinet after the inspection is complete. Improper or incorrect labeling requiring additional effort by the City may result in additional time required by City forces to wire the cabinet.

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(13) Illumination Systems

8-20.3(13)A Light Standards

This section is supplemented with the following:

Conventional Base installation shall conform to the following:

The light standards shall be assembled and mounted complete on foundations perfectly straight and in good alignment. Proper leveling of the standards shall be accomplished by means of four leveling nuts that are to be employed with the anchor bolts. Standards shall be plumb within 1/50-inch per foot.

Luminaires shall be securely attached to the mast arm in a straight and level position. The luminaires shall be installed at a specified number of degrees from level if directed by the Engineer. After the poles are plumbed, grout shall be neatly placed between the pole base and the concrete. The Contractor shall form a 1/2-inch diameter weep hole in the grout. The nuts and bolts required for this foundation shall be furnished by the Contractor.

All above grade signal and streetlight infrastructure, including streetlight standards, traffic signal poles, push-button poles, cabinets, and enclosures, shall not be installed closer than three (3) feet from face of curb to the nearest part of the pole or structure and no closer than five (5) feet from fire hydrants and utility poles.
8-20.3(13)B Vacant
This vacant section is renamed and replaced with the following:

8-20.3(13)C Luminaires
This section is supplemented with the following:

All luminaires supplied by the project shall be identified with a green “H-1” label on the bottom of the luminaire. H-1 labels can be obtained at the Signal and Streetlight shop or through the Signal and Streetlight Inspector.

8-20.3(14)C Induction Loop Vehicle Detectors
Subsections 2, 4, 9, and 10 are deleted.

Section 8-20.3(14) is supplemented with the following new section:

8-20.3(14)F Thermal, Microwave, Fish-Eye, and LED Optical Vehicle Detection

A representative from the City of Tacoma Signal and Streetlight operations shop shall be on site during all work within the signal cabinet. The Contractor shall notify the Engineer two working days in advance of work within the cabinet.

The Contractor shall install and test the detection system in accordance with the manufacturer’s recommendations and these special provisions. Detection units shall be mounted and all cabling shall be in accordance with the manufacturer’s recommendations. The installation shall include all field equipment as well as all equipment required in the controller cabinet.

Detection unit locations as shown on the plans are approximate. Detection units shall be mounted at a sufficient height to prevent occlusion from cross traffic. Detection units shall be field adjusted as directed by the Engineer and equipment manufacturer for maximum coverage. A factory-certified representative of the equipment manufacturer shall inspect and provide a written verification that the installation has been performed in accordance with the manufacturer’s requirements.

The factory-certified representative of the equipment manufacturer shall supervise all testing of the equipment and shall provide written documentation showing acceptance of the testing and verification that the system is a complete, fully functional system.

All equipment shall be warranted against manufacturing defects in materials and workmanship for a period of 3 years from the date of signal turn-on.

8-20.3(17)B “As Built” Plans
This section is supplemented with the following:

These drawings shall show the routing of all underground conduits. The locations of the conduit shall be dimensioned with a precision and accuracy of 1 foot.

8-20.4 Measurement
This section is revised to read:

The bid item shown as “Signal Plan, _____” lump sum in the proposal, no specific unit or measurement will apply but the measurement will be for the sum total of all the items for
a complete system to be furnished and installed in accordance with approved methods, the Plans, the Special Provisions, and these Specifications.

Saw cutting and replacement of the existing pavement required shall be incidental to the lump sum items and no separate measurement will be made.

Removal, relocation, and the salvage of existing traffic signal equipment and signs where required shall be incidental to the lump sum items and not separate measurement will be made.

Temporary surface restoration items required for resuming pedestrian and vehicular traffic prior to final surfacing, including steel sheeting, crushed rock, and cold mix asphalt, shall be incidental to the lumpsum items and no separate measurement will be made. All pavement removal, replacement, and restoration shall be in accordance with the City’s Standard Plans and City of Tacoma Right-of-Way Restoration Policy. All costs for this work shall be incidental to the lump sum item.

8-20.5 Payment
This section is supplemented with the following:

“Signal Plan, West Leg @ S 35th St & Washington St (SG-1)”, lump sum

The lump sum Contact price for the “Signal Plan, West Leg @ S 35th St & Washington St (SG-1)”, shall be full pay for the construction of the complete beacon system, modifying the existing systems, or both, including lighting systems, as shown in the Plans, and herein specified, including excavation, backfilling, concrete foundations, conduit, wiring, pole hole plugging, restoring facilities destroyed or damaged during construction, salvaging existing materials, and for making all required tests. All additional materials and labor, not shown in the Plans or called for herein and which are required to complete the beacon and electrical system, shall be included in the lump sum Contract Price.

END OF SECTION
8-22  PAVEMENT MARKING
(April 1, 2018 Tacoma GSP)

8-22.1 Description
This section is supplemented with the following:

Chevrons
A “Chevron” shall be provided on speed humps for each approach. For a street width less than 28 feet, the “Chevron” shall start at the edge of roadway (gutter line). For a street width greater than 28 feet, the “Chevron” shall start at the center of the roadway. Refer to details specified within the plans. Chevrons shall be provided along bike lane buffers at locations specified on the plans or as directed by the Engineer.

Sharrow Pavement Marking
Sharrow pavement marking shall be provided at locations identified in the plans. Refer to City of Tacoma Standard Plan CH-11 and/or other details specified within these plans and specifications. The product shall be a durable, color stable, non-slip surface.

8-22.2 Materials
This section is supplemented with the following:

All legends and arrows including “Plastic Arrow”, “Plastic Sharrow Symbol”, and “Plastic Letter” markings shall be a Preformed retro-reflective thermoplastic pavement marking material incorporating a pre-applied bead coating that can be adhered to asphalt, concrete and Portland Cement Concrete pavements by means of heat fusion. All “Plastic Chevron”, “Plastic Crosswalk Line”, and “Plastic Stop Line” shall be hot applied thermoplastic. The applied markings shall be very durable, oil and grease impervious, and provide immediate and continuing retro-reflectivity meeting the requirements of Section 9-34.3(2).

Materials used for curb paint shall be the same as for pavement marking paint per Section 9-34.2.

8-22.3 Construction Requirements

8-22.3(3)E Installation
This section is supplemented with the following for applying Type B material:

Effective Performance Life: When properly applied, in accordance with manufacturer’s instructions, the preformed marking materials shall be neat and durable. The markings shall remain skid resistant and show no lifting, shrinkage, tearing, roll back, or other signs of poor adhesion.

Packaging: The flexible preformed marking material, for use as transverse or bike symbols as well as legends, shall be available in flat form material up to a maximum of 2 foot width by 4 foot length. The material shall be packed in suitable cartons clearly labeled for ease of identifying the contents. Packaging shall not use plastic liners within to separate material from itself. Product packaging shall identify part number and mil 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:*

**Green Durable Product:** Approximately 4.2 Gallon mixture of Green colored MMA, hardwearing aggregate, and catalyst should cover 70-75 SF at 90 mils thickness.

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.

8-22.4 Measurement

*The last sentence of the sixth paragraph is revised to read:*

Crosswalk lines will be measured by the linear foot of marking installed.

*This section is supplemented with the following:*

Painted curb will be measured by the linear foot of curb line as “Painted Curb.” Plastic Sharrow Symbols will be measured by each typical sharrow symbol installed.

8-22.5 Payment

*This section is supplemented with the following:*

“Painted Crosswalk Line”, per linear foot.

“Plastic Crosswalk Line”, per linear foot.

“Painted Curb”, per linear foot.
“Plastic Sharrow Symbol”, per each.

“Remove Paint Line”, per linear foot.

“Remove Traffic Marking,” per each.

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:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>100</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>56-100</td>
</tr>
<tr>
<td>No. 4</td>
<td>32-72</td>
</tr>
<tr>
<td>No. 10</td>
<td>22-57</td>
</tr>
<tr>
<td>No. 40</td>
<td>8-32</td>
</tr>
<tr>
<td>No. 200</td>
<td>2.0-9.0</td>
</tr>
</tbody>
</table>

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@
- 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:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing*</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾” square</td>
<td>100</td>
</tr>
<tr>
<td>½” square</td>
<td>90 - 100</td>
</tr>
<tr>
<td>3/8” square</td>
<td>55 - 90</td>
</tr>
<tr>
<td>U.S. No. 4</td>
<td>10 - 40</td>
</tr>
<tr>
<td>U.S. No. 8</td>
<td>0 - 20</td>
</tr>
<tr>
<td>U.S. No. 40</td>
<td>0 - 13</td>
</tr>
<tr>
<td>U.S. No. 200</td>
<td>0 - 5</td>
</tr>
</tbody>
</table>

* 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)

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing*</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾” square</td>
<td>100</td>
</tr>
<tr>
<td>3/8” square</td>
<td>95-100</td>
</tr>
<tr>
<td>U.S. No. 8</td>
<td>0 - 10</td>
</tr>
<tr>
<td>U.S. No. 200</td>
<td>0 - 3</td>
</tr>
</tbody>
</table>

Sand Equivalent 35 Minimum

* All percentages are by weight
9-03.21 Recycled Material

9-03.21(1) General Requirements
(Jun 16, 2016 Tacoma GSP)
This section is supplemented with the following:

Recycled materials will only be permitted upon approval of the Engineer. Recycled concrete shall not be permitted for use as pipe zone backfill, backfill above pipe zone, and extra excavation area backfill material.

END OF SECTION
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/inside 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
9-28  SIGNING MATERIALS AND FABRICATION
(April 1, 2012 Tacoma GSP)

9-28.1 General
The second sentence of the first paragraph is hereby revised to read:

Permanent signs which measure 36 inches or less on a side and are to be mounted on a single post shall be constructed of single 0.080-inch aluminum panels.

The third sentence of the first paragraph is hereby revised to read:

Sign overlay panels shall be 0.050-inch aluminum panels.

9-28.9 Fiberglass Reinforced Plastic Signs
This section is deleted in its entirety.

END OF SECTION
9-29  ILLUMINATION, SIGNALS, ELECTRICAL

9-29.1(6) Detectable Underground Warning Tape
This section is supplemented with the following:

For electrical circuits detectable underground warning tape shall be high visibility red, with continuous legend of “Caution Electric Line Buried Below” or equal. The warning tape shall be polyethylene with a metallic backing. The polyethylene shall be a minimum 3 inches wide, 4 mils thick.

9-29.2 Junction Boxes, Cable Vaults and Pull Boxes

Unless otherwise specified, all junction boxes containing illumination and signal control cable shall be Type 1, Standard Duty with alternate 2 locking lid per state standard plan J-40.10-02.

Unless otherwise specified, all junction boxes containing interconnect cabling shall be Type 2, Standard Duty with alternate 2 locking lid per state standard plan J-40.10-02.

9-29.2(4) Cover Markings
The second paragraph of this section is revised to read:

Covers shall be marked or embossed with “LT” for boxes containing illumination circuits. Covers shall be marked or embossed with “TS” for boxes containing traffic signal circuits.

9-29.3(2)A  Single Conductor

9-29.3(2)A1  Single Conductor Current Carrying
This section is supplementing with the following:

Service connections shall be stranded copper size AWG #6 USE unless otherwise shown in the plans. Black conductor insulation shall be used for the service and the neutral conductor shall be white. Color tape marking shall not be acceptable for the neutral conductor.

9-29.3(2)A2  Grounding Electrode Conductor
This section is supplemented with the following:

Grounding electrode conductor shall be minimum #8 AWG unless otherwise shown in the plans. When the ground is pulled through a conduit, the wire shall be insulated. Color tape marking shall not be acceptable for marking the ground.

9-29.3(2)A3  Equipment Grounding and Bonding Conductors
This section is supplemented with the following:

Equipment grounding shall be minimum #8 AWG unless otherwise shown in the plans. When the ground is pulled through a conduit, the wire shall be insulated. Color tape marking shall not be acceptable for marking the ground.
9-29.3(2)B Multi-Conductor Cable

This section is supplemented with the following:

Two-conductor through 10-conductor unshielded signal control cable, shall have stranded copper conductors, size AWG 14, and shall conform to International Municipal Signal Association (IMSA) signal cable 20-1.

9-29.3(2)F Detector Loop Wire

This section is revised to read:

The loop wire shall be IMSA 51-7, #14 AWG, encased in an orange colored HDPE jacket. Shielded loop lead-in wire shall be #18 stranded tinned-copper, twisted pair, 2 conductor cable with polyethylene insulation, conductors cabled, and shall have aluminum-polyester foil-shield furnished in 100% coverage, stranded tinned-copper drain wire and an overall chrome-vinyl jacket.

9-29.3(2)I Twisted Pair Communication Cable

This section is revised to read:

The cable for interconnect for underground installation shall be IMSA 40-2 #19 AWG 6 twisted pair, shielded, PE outer jacket or IMSA 40-4 #19 AWG 6 twisted pair, figure 8, shielded, PE outer jacket for overhead installation.

9-29.4 Messenger Cable, Fittings

This section is supplemented with the following:

Messenger cable shall be 5/16-inch, seven-wire strand messenger cables conforming to ASTM A 475, extra-high strength grade, 11,200 lbs. min. breaking strength, Class B galvanized.

All guy eye anchor rods shall be double-hub type.

Weatherheads shall be clamp-on type PVC. Where used for signal or flashing beacon conductors, the center of the wire entrance shall be cut or machined out to a large diameter to accommodate entry of multi-conductors. All edges shall be smoothed to avoid chaffing.

All miscellaneous nuts, bolts, washers and fittings shall be stainless steel or brass unless otherwise noted.

All metal line hardware shall be hot-dipped galvanized in conformance with the requirements of ASTM Designation A-153. All eyebolts shall be thimble eye design cast or welded to form a solid eye.

5-strand, class B galvanized steel, pretwisted guy strand dead ends, high strength cable conforming to ASTM Designation A-475, shall be utilized at all span wire terminations. 1/2" rope wire thimbles shall be required where span wire connects to all poles or bull rings, except where thimble eye bolts are used. Span wire shall normally be installed directly pole to pole, unless otherwise directed or specified.
Strain insulators shall be installed where connecting to wood poles. Where span wire is
connected to a steel or concrete pole, insulators shall not be installed. Strain insulators
shall be wet process, porcelain, conforming to EEI-NEMA Class 54-2 standards for
12,000-pound ultimate strength and shall be installed 9 feet from the pole.

9-29.6 Light and Signal Standards
This section is supplemented with the following:

All light and signal standards shall be fixed base.

The head of the handhold security bolt shall be flush with the face of plate. The face
plate of the handhole shall be flush with pole.

9-29.6(5) Foundation Hardware
This section is supplemented with the following:
All pedestrian pushbutton poles (Type PPB) shall be installed utilizing a Breakaway
Base Connection system in conformance with WSDOT standard plan J-20.15-03.
Bracket shall be sized to accommodate a standard push button pole with an outside
diameter of 3.5-inches. Anchor bolt receivers shall be installed at 2-3/4-inch by 7-
15/16 inch on center.

Section 9-29.6 is supplemented with the following new section:

9-29.6(6) City of Tacoma Universal Pole

Unless otherwise specified, light standards and strain poles shall be in conformance with
the following City of Tacoma standard design.

Strength
Each pole and mast arm shall have adequate strength for the designated luminaire
with 1.8 safety factor for maximum combined stresses using 90 mph isotach (117
mph gusts) per AASHTO specifications for structure supports for highway luminaires.
Design shall be based on total loading of 50 pounds and EPA of 2.0 square feet.

Standard Bolt Spacing
30 Foot poles -- Baseplate shall accommodate 1 inch anchor bolts. The bolt circle
shall be between 11 inches and 13 inches.
40 Foot Poles -- Baseplate shall accommodate 1 inch anchor bolts. The bolt circle
shall be between 12.5 inches and 14.5 inches.

9-29.6(6)A Steel Strain Poles

Each pole shall be of tapered round or octagonal construction.

CLASS 1 POLE: Design for dead load tensions up to 1500 pounds
CLASS 2 POLE: Design for dead load tensions up to 2600 pounds

Class 1 poles shall have a minimum base diameter of 12-inches for octagonal poles and
12-1/4-inches for round poles. Poles shall have a minimum wall thickness of 0.3125-
inches. Anchor bolts shall be 1-1/2-inch by 60-inches and shall have a spacing of 11-
5/16-inches on center, on the square. It is the responsibility of the pole manufacturer to
maintain proper clearance between the pole shaft and nuts for the anchor bolts.

Class 2 poles shall have a minimum base diameter of 13-1/2-inches for octagonal poles
and 14-inches for round poles. Poles shall have a minimum wall thickness of 0.375-
inches. Anchor bolts shall be 2-inch by 66-inches and shall have a spacing of 12-3/4-
inches on center, on the square. It is the responsibility of the pole manufacturer to
maintain proper clearance between the pole shaft and nuts for the anchor bolts.

Poles shall be of single-ply construction. Multiple-ply poles shall not be allowed.

Each pole shall be of tapered round or octagonal construction. Pole taper shall be in the
range of 0.13 to 0.14 in/ft.

A base plate and top casting shall be securely attached to each pole. The attachment of
the base plate to the pole shall be a welded connection sufficient to develop the full
strength of the pole. The base plate shall have four (4) holes which will sufficiently
accommodate the specified anchor bolts for the pole class.

Pole shall be of sufficient strength to allow for the span wire to be installed to sag an
amount equal to 5% of the span length.

The maximum acceptable deflection, at 30 feet above the base, is 5 inches. The
specified deflection shall be at a loading condition of 1,500 pounds horizontal pull at 30
feet above the base for Class 1 Poles. For Class 2 Poles, the loading condition shall be
2,600 pounds horizontal pull at 30 feet above the base.

Structural material shall be zinc-coated by a “hot-dip” process in accordance with ASTM
A123 and the final coating shall measure 0.0039 inch or more in thickness as
determined by a magnetic thickness gauge. All tapped holes shall be chased after
galvanizing. Hardware shall be coated in accordance with ASTM A307.

The finished pole shall be reasonably straight and free from injurious defects. If
galvanizing is damaged, the maximum area to be repaired is defined in accordance with
ASTM A123 Section 4.6. The maximum area to be repaired in the field shall be
determined in advance by the Engineer. Repair areas damaged during construction,
handling, transport or installation by one of the approved methods in accordance with
ASTM A780 whenever damage exceeds 3/16 inches in width. Minimum thickness for
repair shall measure 0.0039 inches.

The company shall furnish the purchaser with template prints showing spacing and size
of holes in base for the anchor rods.

The material shall carry the manufacturer's standard guarantee against any defect in
material or workmanship for a minimum period of one year following the date of
installation. The Contractor shall submit mil test reports for all steel used in the
manufacturing of strain poles and pedestals.
The Contractor shall submit a Certificate of Compliance with ASTM Standards and Specifications for galvanizing. The certificate, signed by the galvanizer, shall detail the galvanizing process and testing procedure to determine that galvanizing meets minimum thickness specified.

The contractor shall submit welder certification. Welders must be certified to AWS standards.

Each pole shall include the following:

1. One (1) rain-tight pole cap.
2. One (1) 4-inch by 6-1/2-inch handhole at base end with cover plate opposite to mast arm.
3. Anchor bolts shall be hot dipped galvanized steel with two (2) galvanized nuts and two (2) washers for each bolt. Only 12-inches of threaded end of the bolts must be galvanized. 1-1/2-inch diameter bolts shall have 8-inches of top thread and 2-inch diameter bolts shall have 10-inches of top thread.
4. Anchor bolts shall have threaded bottom ends to receive an anchor plate and nut. The nut shall be tack-welded to the anchor plate. Anchor plates for 1-1/2-inch diameter anchor bolts shall be 4-inch square by 1-inch thick. Anchor plates for 2-inch diameter anchor bolts shall be 6-inch square by 1-inch thick.
5. One (1) adjustable strain clamp to be mountable between 26 to 28 feet above the base. Clamp shall provide facility to attach span wire at four-quarter points.
6. Provisions for mounting a mast arm of specified length. All poles shall be supplied with one mast arm mounting flange. The centerline of the flange shall be approximately 6 inches below the top of 38-foot poles and 24 inches below the top of 30-foot poles. The flanges shall conform with the detail drawing included in the Special Provisions. Poles ordered without mast arms but with provisions for a later addition of a mast arm shall be provided with a metal cover and gasket to protect the opening being provided. The cover shall be bolted to the pole using the holes provided for fastening the mast arm.
7. One (1) two-inch coupling to receive clamp-on type aluminum weatherhead positioned at 27 feet, and no more than 45° from the location of the mast arm, unless otherwise specified.
8. One (1) 1-1/4-inch coupling for wire inlet located directly opposite the mast arm.
9. One (1) grounding lug-hole in lip of handhole for 1/2-NC brass bolt.

9-29.6(6)B Luminaire Mast Arms

Each mast arm shall have sufficient strength with a 1.8 safety factor to support a 70-pound luminaire on an 18-foot mast arm per the latest AASHTO Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

Material and workmanship shall conform to the best commercial standards of the industry.

The mast arm and its fastening shall be constructed of steel conforming to Section 9-29.6.
Each mast arm shall support a ballast-in-head luminaire and shall provide a luminaire mounting height of approximately two (2) feet above the strain pole mounting flange.

The mast arm shall provide a horizontal extension from the center of the pole to the center of the luminaire as shown in the Plans.

The mast arm shall be of tapered construction. The luminaire end of the mast arm shall not exceed 2.375 inches O.D. for a minimum distance of 8 inches. The outside arm diameter at the pole flange shall not exceed 5.88 inches.

The mast arm shall be capable of being fastened to the mast arm mounting flange dimensioned in the detail drawing. All mounting bolt heads shall clear the weld.

9-29.10 Luminaires
This section is supplemented with the following:

Unless otherwise shown in the plans all new luminaires shall be Light Emitting Diode (LED) fixtures conforming to these specifications.

Cobra-head style luminaires and other overhead fixtures, such as shoebox style fixtures, shall be provided with utility labels. Ornamental post top fixtures shall not have utility labels. Utility labels for LED fixtures shall be green and show actual total system wattage.

9-29.10(1) Conventional Roadway Luminaires
This section is replaced in its entirety with the following:

All Conventional Roadway Luminaires shall be LED meeting the following requirements:

1. Applicable Standards:
   a. American National Standards Institute (ANSI) C78 and C136
   b. Electrical and Electronics Engineers (IEEE) C62
   c. Illuminating Engineering Society of North America (IESNA or IES)
   d. Underwriters Laboratories (UL)

2. General:
   a. Luminaire shall be UL Listed
   b. Luminaire shall be listed as a Qualified Product on one of the following lists:
      i. Energy Star
      ii. Design Lights Consortium
      iii. Lighting Design Lab
   c. LED light source and driver shall be compliant with the requirements of the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive.
   d. Luminaire shall have an external label per ANSI C136.15.
   e. Luminaire shall have an internal label per ANSI C136.22.

3. Luminaire Performance:
   a. Operating Temperature Range: -4 F to +122 F
   b. Correlated Color Temperature: (CCT)
      i. Residential- 3000K Nominal
      ii. Arterials - 4000K Nominal
c. Calculated Lumen Maintenance Factor (LMF): 100,000 hours or more 
(L70 at 25°C/77°F) in accordance with IESNA TM-21 and IESNA LM-
80

d. Color Rendering Index (CRI) : >70

e. Light Distribution per IES Handbook: Best fit to meet design criteria

f. Minimum Efficacy: 80 Lumens/Watt

4. Power Supply and Driver Performance:

a. Input Voltage: Auto-sensing 120 to 277 VAC 50/60HZ

b. Power factor: >0.90

c. Drive current maximum of 1.0A

d. Total harmonics distortion at full power at specified voltage: <20%

e. Surge Suppression Protection 10kV Minimum (IEEE/ANSI C62.41.2)

f. Replaceable surge module

g. Interference FCC 47 CFR part 15/18, Class A

h. Driver life >100,000 hours

i. Dimming: 0-10V DC

5. Lighting and Dimming Controls:

a. The luminaire shall be provided with a 7-pin terminal locking type

   photoelectric control mounting receptacle in accordance with ANSI

   C136.10 and ANSI C136.41.

b. Photocell receptacle dimming contacts shall be factory connected to

   driver dimming leads (violet and gray) per ANSI C136.41.

6. Luminaire Housing and Door:

a. The luminaire housing shall be cast or extruded aluminum. All

   hardware shall be stainless steel.

b. Cast housing components shall have a light gray polyester powder

   coat finish. Extruded components shall be anodized. Finish shall

   meet the requirements of ANSI C57.31, latest revision.

c. The power-door shall be fabricated from either aluminum or a UV

   resistant polymer.

d. The door shall be easily removable and shall allow for tool-less entry.

7. Slipfitter and Vibration Resistance:

a. Slipfitter shall be capable of accepting a 1-1/4" through 2" IP pipe

   tenon (1-5/8" to 2-3/8" OD) with maximum allowable insertion lengths

   of 7-1/2" and 10" respectively in accordance with Table 2 of ANSI

   C136.3, latest revision.

b. The Slipfitter shall have provisions for clamping the luminaire securely

   to the tenon and for leveling ± 5° with respect to horizontal.

c. Luminaire shall be certified to ANSI C136.31 3G bridge and overpass

   vibration standards with 4-bolt configurations.

8. Ingress Protection:

a. The luminaire components shall have minimum moisture rating as

   specified in IEC 60529, with the ability to shed water from inside the

   housing(weep holes), and designed to minimize water collection and

   icing.

b. Internal Components: IP66

c. Enclosure: IP65

9. Terminal and Grounding Block:

a. Components shall be pre-wired to the terminal board requiring only

   supply power connections to clearly identified terminals.
b. The terminal board shall be located so that there is adequate tool-less access to accommodate user wearing electrical gloves to connect the supply leads.

10. Manufacturer Warranty:
   a. 10 Year Minimum including power driver and LED chips.

9-29.10(1)A Luminaire Classifications
The City of Tacoma has established five (5) classes of LED Conventional Roadway with specific design criteria to ensure long-term lighting continuity. Luminaires are divided into classes based on function, typical use and historical High Intensity Discharge (HID) equivalents. Current classes are 100WEQ, 200WEQ, 250WEQ, 400WEQ, and RES-45. Each conventional luminaire installed shall meet the design criteria of one of these five luminaires.

Design assumptions and criteria listed for each luminaire classification may not reflect the actual conditions on the project. The design assumptions and criteria identified are only to be utilized to determine luminaire equivalency, such that another luminaire meeting the same criteria can be used to replace a failed unit without a complete redesign of the entire system.

Equivalence will be determined as follows:
1. The City of Tacoma will use Lighting Analysts AGi32 lighting software program for determination of equivalence using the design assumptions and criteria identified for each class of luminaire.
2. The roadway optimizer will be used to evaluate the performance criteria in all cases, except for the Res-45 class luminaire, where model view will be utilized to calculate the photometrics.
3. Proposed fixtures may not be tilted, rolled, or spun to meet the criteria.
4. All calculations shall be to the 100th. Rounding will not be permitted.
5. A copy of the published IES photometric file and BUG (Backlight, Uplight, and Glare) Rating shall be provided as a part of product submittal.
6. It is recognized that there are an infinite number of design variables and it is not practical to create a published IES photometric file and BUG rating for each combination. In those cases where the wattage is reduced to meet the design criteria, the base IES photometric file for the higher wattage configuration shall be used as follows:
   a. Where no IES photometric file exists for the specific configuration, all information required to allow the City to duplicate the results and assure that the fixture meets the criteria must be provided.
   b. When reducing the system wattage, the BUG rating of the base IES photometric file must be utilized, but may be scaled based on IES LM-79.
   c. For modified fixtures, the City may require that a representative fixture be provided prior to acceptance. The City reserves the right to have an independent NVLAP approved lab perform an IES LM-79 report for verification of the output for the submitted fixture. A 10 percent margin of error will be allowed in the analysis and comparison of the actual test results. Failure to meet the photometrics within the allowance may be cause for rejection.
Full design assumptions and design criteria for each of the five luminaire classes can be found at the end of this section. Excessive glare or light trespass onto private property is not acceptable. Typical usage for luminaire classes:

- **100WEQ Luminaires** are typically installed along residential roadways at a height of 25 to 30 feet. 100WEQ Luminaires have a long and narrow light distribution to fit a typical residential road.

- **200WEQ Luminaires** are typically installed along local classified arterial roadways and along arterials with lower pedestrian conflicts. 200WEQ Luminaires are typically installed at a height of 30 feet and will have a slightly wider distribution to cover the additional width.

- **250WEQ Luminaires** are typically installed along collector to minor classified arterial roadways. 250WEQ Luminaires can be installed at a height of 30 feet or 40 feet depending on pedestrian conflict level, road width, and lighting levels required.

- **400WEQ Luminaires** are typically installed along principal classified arterial roadways or areas where a higher pedestrian conflict exists. 400WEQ Luminaires are typically installed at a height of 40 feet, often installed on both sides of the roadway, in a staggered pattern to adequately light the full roadway width.

- **RES-45 Luminaires** are typically installed at residential street intersections or for cul-de-sacs. For residential intersections, these lights are typically installed on one corner of the intersection at a 45 degree angle to the traveled ways. The light distribution is designed to provide illumination for the intersection, but not create unacceptable light trespass on adjacent properties.

### 9-29.11 Control Equipment

**9-29.11(2) Photoelectric Controls**

*This section is revised to read:*

The photoelectric control shall be the twistlock type and the light sensitive element shall be a solid state photo diode. The control shall be designed to turn on at 2.6 foot-candles (± 20%) and turn off at 2.6 foot-candles (± 20%). The lighting control shall not drift by more than 1 per cent over a 10-year period.

The output control relay shall be electro-mechanical. The time delay for both turn on and turn off shall be a minimum of one second and maximum of 5 seconds. The output relay shall be rated 1000 watts incandescent or 15 amps inductive load. The contacts shall be normally closed.

The lighting control shall have a built in metal oxide varistor (MOV) rated a minimum of 160 joules for lightning and transient protection. The control shall also have secondary zener diode and transient filter. The relay shall be suitable for operation on 240 volt, 60 hertz electrical circuits.

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, alkalies, 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.

9-29.15 Flashing Beacon Control
This section is renamed and replaced with the following:

9-29.15 Pedestrian-Activated Crosswalk Beacons
Pedestrian-activated crosswalk beacons shall be Rectangular Flashing Beacon (RFB) assemblies as shown in the project plans. Unless otherwise specified by the Engineer, all RFB shall be manufactured by Carmanah Technologies Inc.
The RFB shall be available in both an AC powered configuration and a fully self-contained solar powered configuration. Both the AC powered and solar power options shall be fully compatible. The RFB shall be provided with a 5-year limited warranty. For solar applications, the warranty shall include the battery. The RFB shall be manufactured in the United States of America and shall be Buy American compliant. Each RFB shall include from one to four light bars. The RFB shall conform to all provisions of the MUTCD, Interim Approval IA-21 including flash pattern.

All flashing beacon devices will be activated by an accessible pedestrian push button which includes voice messaging. Push buttons shall wirelessly transmit the activation to other beacons that are part of that pedestrian crossing location. The beacon device interoperability will incorporate inter-beacon radio communication via a spread spectrum radio using ISM 2.4 GHZ with a minimum range of 1,000 feet. The inter-beacon radio will include a minimum of 14 unique addresses for multiple units.

The voice messaging pedestrian push button shall be wired to the flashing beacon per Manufacturer’s recommendation. The pedestrian push buttons shall have an LED indicator with audible tone with Piezo control and shall be ADA compliant. The pedestrian push button with voice message shall have three LED indicators, locate tone, and voice message with the MUTCD IA-21 approved message “Yellow lights are flashing”. The message shall be spoken twice. The push button shall be ADA compliant with directional arrow.

9-29.15(1) Pedestrian Crossing Beacon Assembly
Each pedestrian crossing beacon assembly shall consist of a dual-sided rectangular flashing beacon (RFB) unit mounted between the W11-2 signs and the W16-7P plaques at MUTCD-compliant mounting heights on both sides on a plan specified pole. Separate signs and plaques shall be provided on each side of the pole. Signs shall conform to section 9-28.8 for sheet signs and reflective sheeting shall be Type IV micro prismatic per section 9-28.12. The signs and RFB unit shall be installed on a FB pole as noted in WSDOT Standard Drawing IS-22, utilizing a fixed base foundation. The light bar shall be NEMA 3R rated.

The RFB housing shall be constructed of aluminum and have the approximate dimensions of 24” L x 1.5” D X 4.5” H. The RFB unit will have two horizontally-oriented LED modules each approximately 3” by 7” in size. The modules shall consist of 8 amber LEDs and shall be purpose built by the manufacturer of the RFB including the optics. The light bars shall be current-drive LED strings without active electronics. The LEDs shall be driven by pulse-width modulated fixed current. The RFB unit will have a powder coated green housing and shall have a tell-tale amber LED indicator, approximately 1” by 2”, on each secondary side to inform those without a direct view of the primary LED modules that the unit is in operation.

The RFB unit’s look and function (ie flash rate) will comply with FHWA’s MUTCD - Interim Approval for Optional Use of Pedestrian-Actuated Rectangular Rapid-Flashing Beacons at Uncontrolled Marked Crosswalks (IA-21) including all FHWA Official Interpretations pertaining to RFBs. The flash duration shall be adjustable in-the-field from 5 to 60 seconds in one second increments, 60 to 1,200 seconds in 60-second steps, and 3,600 seconds. Default flash duration shall be 20 seconds.
The installation of the signs, RFBs, MUTCD-compliant push button, all control circuitry and communications hardware will be installed or mounted as shown on plans within ADA-compliant reach of level pedestrian landing. Contractor is responsible for coordinating the mounting interface between the pole and pedestrian crossing beacon assembly. The MUTCD-compliant push button will include a 9” by 12” “PUSH BUTTON TO TURN ON WARNING LIGHTS” sign (R10-25) mounted on the same side as the face of the push button, which is mounted parallel to the crossing direction.

9-29.15(2) Pedestrian Crossing Beacon Control Cabinet

The control cabinet shall be constructed from aluminum with a lockable 6 pin green construction core per section 9-29.25 lock and tamper-proof hinged door. No other external control cabinet shall be required. The control cabinet shall be vented to provide air circulation and cooling of the electronic system. The vents shall be screened to prevent ingress by insects and debris.

The overall weight of the control cabinet shall not exceed 90lbs (41 kg) and shall have the approximate dimensions: 24” H x 16” W x 8” D (61cm H x 41cm W x 21 cm D).

Fasteners shall be stainless steel.

9-29.15(3) AC Powered Installations

The cabinet for AC installations shall house the AC/DC power supply, circuit breaker, charge controller, flash controller, on-board user interface, and wireless communications. The RFB shall be pre-wired to the maximum extent possible.

The RRFB shall include a universal AC/DC power supply that accepts conventional AC power input and outputs 15 volts DC. It shall be rated for at least 50 watts. AC wiring input shall terminate on a DIN-rail circuit breaker rated for 4 amps.

9-29.15(4) Advance Pedestrian Beacon

The advance pedestrian beacon (AC Powered) shall consist of 12-inch circular yellow signal head with tunnel visor and backplate (no reflective tape) (pole top mounted), “Pedestrian Crossing” symbol and “AHEAD” signs per detail on Plan sheet. Advance pedestrian beacon shall operate in conjunction with pedestrian crossing beacon system.

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 shall not be used.
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. Composite Fiber Connection Cable for power and communications.

5. PoE Media Converters.

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. The Composite Fiber cable shall connect the Fisheye Sensor and/or other Option sensors using PoE media converters.

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).

Push buttons stations shall be Polara - iN2 series with the following options:

1. 9x12 Front Plate Adapter
2. 9x12 Faceplate compliant with MUTCD R10-3b
3. No braille on Face Plate
4. Custom Messages
5. Black Button Cover

Extenders may be required for locations where the APS buttons are not within an acceptable reach. Extenders or adapters may be required to accommodate the size of the faceplates for locations where two pushbuttons are mounted to the same pole.

9-29.20 Pedestrian Signals

This section is supplemented with the following:

All pedestrian signals housings shall be die-cast aluminum.

9-29.24 Service Cabinets

This section is supplemented with the following:

Service cabinets shall be pole mounted, exterior NEMA 3R Rated with a bolt on HUB for top entry. Cabinet shall be a maximum 10 inches wide, 14 inches high, and 5 inches deep.
Load Center shall have between 100 and 150 Amps, with capacity for 6 spaces and 12 circuits, or 8 spaces and 16 circuits as required by Code.

Service panels shall be Square D – QO Series

**9-29.24(2) Electrical Circuit Breakers and Contactors**

The first paragraph is supplemented with the following:

Mercury relays shall not be accepted. Contactors shall be one of the following brands:

1. Square D
2. Siemens
3. Eaton/Cutler Hammer
4. Engineer Approved Equal

The second paragraph is deleted.

The third sentence of the third paragraph is deleted.

The third paragraph is supplemented with the following:

All service panel breakers shall be one of the following brands/series

1. Square D – QO Series
2. Siemens – Type BL
3. Eaton/Cutler Hammer – Quick Lag Type BA
4. Engineer approved Equal

All surface mount breakers shall be one of the following Brands/Series:

1. Square D (Type QOU)
2. Siemens
3. Eaton/Cutler Hammer
4. General Electric
5. Engineer approved Equal

**9-29.25 Amplifier, Transformer, and Terminal Cabinets**

This section is supplemented with the following:

Terminal compartments may be incorporated into the signal standard as an alternative to providing a separate terminal cabinet attached to the pole. Terminal compartment should offer similar physical and electrical capacity as specified. Contractor shall provide submittals in accordance with the contract documents and obtain approval from the engineer for the alternate design prior to proceeding. Signal standards and terminal compartments shall meet all other structural, mechanical, electrical, and finish requirements as specified, and be suitable for the intended purpose.

**END OF SECTION**

**END OF SPECIAL PROVISIONS**
APPENDIX A

CITY OF TACOMA

and

WSDOT STANDARD PLANS

*** Note Standard plans and websites provided below are for contractor convenience. Additional standard plans may be required to construct the project. ***

COT Standard Plans Website:
https://www.cityoftacoma.org/government/city_departments/public_works/engineering/standard_plans_and_g_i_s_typical_details

WSDOT Standard Plans Website:
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  

PRECAST CONCRETE MONUMENT  

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NOTEs:  
1. This detail shall be used in unpaved areas only.  
2. 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.
NOTES:

A. When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The height of the curb shall be 6", unless otherwise shown on plans.

B. Flush with gutter pan at curb ramp entrance or 3/8" 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 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 3/8" crushed surfacing top course.

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TACOMA POWER

GMS
ENVIRONMENTAL SERVICES
NA
TACOMA WATER

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CITY ENGINEER 8/11/11

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.

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NOTE:

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.
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 3/8" premolded joint filler.
7. All joints shall be cleaned and edged. External edges shall be 3/8" radius. Internal joints shall be 3/8" 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 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.

TOP SURFACE SHALL BE BROomed IN THE SAME DIRECTION AS THE EXPANSION JOINT

4" SHINER AROUND 15' PANEL 3/8 EXPANSION JOINT

3/8 EXPANSION JOINT TO MATCH CURB JOINTS NOT TO EXCEED 15'

2" X 3/4 DEEP WESTERN GROOVER CONTRACTION JOINT (TYP.)

4" SHINER AROUND 15'

HEAVY BROOM FINISH, (TYP.)

CEMENT CONCRETE TRAFFIC CURB & GUTTER SEE STANDARD PLAN NO. SU-03 OR AS SPECIFIED IN PLANS

SECTION DETAIL A-A

SECTION DETAIL B-B
NOTES:
1. Sidewalks shall be designed and constructed in accordance with ADA standards for accessible design, 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 per Right-of-Way Restoration Policy.
3. Staking is required where no curb is present. 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.
4. All expansion joints shall be full depth with 3/8" premolded joint filler.
5. All joints shall be cleaned and edged. Internal joints shall be 1/4" radius.
6. Subgrade preparation shall meet APWA GSP 2-06.3(3) Subgrade for Permeable Pavements.
7. Permeable ballast shall meet APWA GSP 4-04.2 Gravel Base and 9-03.9(2).Opt1 Pavement Ballast.
8. All soft and yielding foundation material shall be removed and replaced with ballast per APWA GSP 4-04.2 Gravel Base and 9-03.9(2).Opt1 Permeable Ballast.
9. Geotextile fabric may be required between native soils or amended soils and permeable ballast per recommendation of the geotechnical professional. Geotextile shall be per WSDOT 9.33.2(1), Tables 1 and 2, nonwoven, moderate survivability.
10. For sidewalks within the North Slope Historic District area use Standard Plan NO-NS03. See Standard Plan HD-NS01 for North Slope Historic District site map.
12. Sidewalk with planter strip may slope in either direction.
13. Planting strip soils shall be per BMP L613 (see Std. Plan GSI-01), if applicable; or scarify or till subgrade to 3 inch depth. Place 3-inches of topsoil on surface and till into 5-inches of site soil. Install 3-inches of arborist wood chip mulch or as specified on plans. Topsoil layer with a minimum organic matter content of 10% dry weight in planting beds, and 5% in turf areas, and a pH from 6.0 to 8.0 or matching the pH of the original undisturbed soil.
14. All disturbed areas not covered with hard surfaces shall be stabilized by planting or mulching.
15. Where needed, adjust ballast in planting strip to accommodate plants. Keep permeable ballast a minimum 2 feet from trunk of trees.
16. Where ballasted sidewalk is installed adjacent to permeable roadway, the permeable ballast may extend from the sidewalk to the roadway section. See Std. Plan SU-31b.
17. Refer to Std. Plan SU-32 for subgrade terracing, as applicable.
NOTES:
1. See SU-04b(2) for Notes.
NOTES:

1. Sidewalks shall be designed and constructed in accordance with ADA standards for accessible design, 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 per Right-of-Way Restoration Policy.

3. Staking is required where no curb is present.

4. 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.

5. All isolation joints shall be full depth with 3/8" premolded joint filler.

6. All joints shall be clean and edged. Joint edges shall be 1/2" radius.

7. Subgrade preparation shall meet APWA GSP 2-06.3(3) Subgrade for Permeable Pavements.

8. All soft and yielding foundation material shall be removed and replaced with ballast per APWA GSP 4-04.2 Gravel Base and 9-03.9(2).Opt1 Permeable Ballast.

9. Permeable ballast shall meet APWA GSP 4-04.2 Gravel Base and 9-03.9(2).Opt1 Permeable Ballast.

10. All pervious surfaces shall be vacuumed immediately after completion of sawcutting to prevent clogging per Std. Detail SU-14F.

11. Geotextile fabric may be required between native soils and permeable ballast per the recommendation of the geotechnical professional. Geotextile shall be per WSDOT 9.33.2(1) Tables 1 and 2, nonwoven, moderate survivability.

12. Planting strip soils shall be per BMP L613 (see Std. Plan GSI-01), if applicable; or scarify or till subgrade to 3 inch depth. Place 3 inches of topsoil on surface and till into 5-inches of site soil. Install 3-inches of arborist wood chip mulch or as specified on plans. Topsoil layer with a minimum organic matter content of 10% dry weight in planting beds, and 5% in turf areas, and a pH from 6.0 to 8.0 or matching the pH of the original undisturbed soil.

13. Where needed, adjust ballast in planting strip to accommodate plants. Keep permeable ballast a minimum 2 feet from trunk of trees.

14. For ballast deeper than curb, provide a geomembrane barrier per Std. Plan GSI-18 between permeable ballast and road section unless adjacent road is permeable.

15. All disturbed areas not covered with hard surfaces shall be stabilized by planting or mulching.

16. For sidewalks within the North Slope Historic District area, use Std. Plan HD-NS03. See Std. Plan HD-NS01 for North Slope Historic District site map.

17. Refer to Std. Plan SU-32 for subgrade terracing, as applicable.
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.


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 Plan, 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 curing 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.

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NA
TACOMA POWER

GMS
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NA
TACOMA WATER

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CITY OF TACOMA
CURB RAMP DETAILS
GENERAL INFORMATION

STANDARD PLAN NO. SU-05
CURB RAMP/TURNING SPACE WIDTH 5'-0" MIN.
- SEE CONTRACT PLANS

CEMENT CONCRETE SIDEWALK,
SEE STANDARD PLAN SU-04

CEMENT CONCRETE PEDESTRIAN CURB
PERMITTED ADJACENT TO LANDSCAPING,
TAPER CURB, SEE NOTE 4. IF PEDESTRIAN
CURB IS NEEDED AT OTHER LOCATIONS,
RAILING MAY BE REQUIRED TO PREVENT
CROSS TRAVEL.

PLAN VIEW
(SHOWN WITH PLANTER STRIP/LANDSCAPING)

CROSSWALK

PLAN VIEW
(SHOWN WITH PLANTER STRIP/LANDSCAPING)

CROSSWALK

SECTION DETAIL A-A

NOTES:
See Standard Plan SU-05 for
referenced notes

LEGEND
- SLOPE IN EITHER
DIRECTION

DCS
PUBLIC WORKS
NA
TACOMA POWER

GMS
ENVIRONMENTAL SERVICES
NA
TACOMA WATER

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CITY OF TACOMA

PERPENDICULAR CURB RAMP
TYPE 'B'

STANDARD PLAN NO. SU-05B
CURB RAMP/TURNING SPACE WIDTH 5'-0" MIN.
- SEE CONTRACT PLANS

TURNING SPACE

A

B

2.0% MAX.

GRADE BREAK

CEMENT CONCRETE CURB AND GUTTER,
SEE NOTE 4

CEMENT CONCRETE PEDESTRIAN CURB
PERMITTED ADJACENT TO LANDSCAPING,
TAPER CURB, SEE NOTE 4

CROSSWALK

PLAN VIEW
(WITH PLANTER STRIP/LANDSCAPING)

3/8" EXPANSION JOINT (TYP.)

AS NEEDED, CEMENT CONCRETE PEDESTRIAN CURB
CONSTRUCTED BEHIND WALK, HEIGHT VARIES, SEE NOTE 4

RAMP

FOR SIDEWALK WIDTHS, SEE STANDARD PLAN SU-04 AND CONTRACT PLANS, OR
MATCH EXISTING (TYP.)

PLANTER STRIP, SEE CONTRACT PLANS

DETECTABLE WARNING SURFACE,
SEE STANDARD PLANS SU-05G
RAMP FLUSH WITH GUTTER

ISOMETRIC VIEW

SECTION DETAIL A-A

CEMENT CONCRETE PEDESTRIAN CURB,
SEE NOTE 4

5'-0" MIN.
SEE CONTRACT PLANS
OR MATCH NEAREST JOINT

15'-0" MAX., SEE NOTE 7

GRADE BREAK

COUNTER SLOPE 5.0% MAX.
GRADE BREAK

TOP OF ROADWAY

CURB & GUTTER,
SEE NOTE 4

18" THICKENED EDGE,
SEE NOTE 5

3/8" EXPANSION JOINT (TYP.)

SECTION DETAIL B-B

15'-0" MAX., SEE NOTE 7

GRADE BREAK

8.3% MAX.

2.0% MAX.

GRADE BREAK

RAMP

TURNING SPACE

4" (TYP.)

RAMP SIDEWALK

NOTES:
See Standard Plan SU-05 for
referenced notes

LEGEND
SLOPE IN EITHER DIRECTION

DCS REVIEWED BY
PUBLIC WORKS
TACOMA POWER

GMS
ENVIRONMENTAL SERVICES
TACOMA WATER

APPROVED FOR PUBLICATION
CITY OF TACOMA
COMBINATION CURB RAMP

STANDARD PLAN NO. SU-05C
NOTES:
See Standard Plan SU-05 for referenced notes

LEGEND
- SLOPE IN EITHER DIRECTION

PLAN VIEW
- CEMENT CONCRETE PEDESTRIAN CURB, HEIGHT VARIES, SEE NOTE 4
- 3/8" EXPANSION JOINT (TYP.) TURNING SPACE
- SIDEWALK, SEE NOTE 5
- FOR SIDEWALK WIDTHS, SEE STANDARD PLAN SU-04 AND CONTRACT PLANS, OR MATCH EXISTING, (TYP.)
- PLANTER STRIP, SEE ISOMETRIC VIEWS FOR LANDSCAPE VERSUS PAVED AREA
- "CROSSING CLOSED" SIGN, AS NEEDED
- DISTANCE TO GRADE BREAK FROM BACK OF CURB, SEE SU-05H
- CURB AND GUTTER, SEE NOTE 4
- FACE OF CURB

SECTION DETAIL A-A
- RAMP/TURNING SPACE WIDTH 5'-0" MIN. - SEE CONTRACT PLANS
- DISTANCE TO GRADE BREAK FROM BACK OF CURB, SEE SU-05H
- GRADE BREAK COUNTER SLOPE 5.0% MAX.
- GRADE BREAK TOP OF ROADWAY
- CURB & GUTTER, SEE NOTE 4
- 18" THICKENED EDGE, SEE NOTE 5
- TAPER CURB
- RAILING AS NEEDED, USE IF NO OBSTRUCTION TO CROSS TRAVEL EXISTS.
- DISTANCE TO GRADE BREAK FROM BACK OF CURB, SEE SU-05H
- POSSIBLE DETECTABLE WARNING SURFACE LOCATIONS, SEE STANDARD PLAN SU-05H

ISOMETRIC VIEW
- (SHOWN WITH PLANTER STRIP/LANDSCAPING)
- POSSIBLE DETECTABLE WARNING SURFACE LOCATIONS, SEE STANDARD PLAN SU-05H
- GRADE BREAK

ISOMETRIC VIEW
- (SHOWN WITH PAVED STRIP)
- HARDSCAPED BUFFER SI-ALL 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.

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NA
TACOMA WATER

APPROVED FOR PUBLICATION
CITY OF TACOMA
SINGLE DIRECTION CURB RAMP

CITY ENGINEER
DATE
8/10/116

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.
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.

![Diagram of Detectable Warning Surface Details]

**SECTION DETAIL A-A**
TRUNCATED DOME

**MIN MAX**
A 1.80-2.40
B 0.65-
C 0.45-0.90
D 0.90-1.40
E 0.20-0.20

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GMS
PUBLIC WORKS
ENVIRONMENTAL SERVICES

**APPROVED FOR PUBLICATION**

**CITY OF TACOMA**
DETECTABLE WARNING SURFACE DETAILS
STANDARD PLAN NO. SU-05G
NOTES:
1. The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of fæs) 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.
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.
1. All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. See Standard Plan SU-15B for any streets exempt from this policy.

2. Temporary Surface Restoration:
   - Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
   - Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.

3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.

4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.

5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. 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. Final compaction of HMA shall be 91% of maximum density.
   - Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.
   - Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.

   Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.

7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

8. Longitudinal construction joints shall only be located at the center or edge of affected lanes.

   Streets and courts 20 feet or less in width and all alleys are considered one-lane streets. Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.

   Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three lane streets upon prior approval from the City Engineer.

9. Transverse construction joints terminate at the edge of the 2’ cut back.

10. HMA pavement shall not be placed over CDF until approved by the City.

### TABLE 1

<table>
<thead>
<tr>
<th>PAVEMENT REPLACEMENT DEPTH IN CUT BACK ZONE</th>
<th>MIN.</th>
<th>MAX.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTERIALS, INDUSTRIAL AREAS &amp; ROADS WITH BUS TRAFFIC</td>
<td>MATCH EXISTING +1”, OR 4”, WHICHEVER IS GREATER</td>
<td>6”</td>
</tr>
<tr>
<td>RESIDENTIALS AND ALLEYS</td>
<td>MATCH EXISTING +1”, OR 3”, WHICHEVER IS GREATER</td>
<td>4”</td>
</tr>
</tbody>
</table>

**CUT BACK ZONE**

**CONSTRUCTION JOINT, SEE NOTES 8 & 9**

**EXISTING ASPHALT OR OIL MAT PAVEMENT**

**CRUSHED SURFACING TOP COURSE (CSTC), MATCH EXISTING THICKNESS, 8” MIN**

**HMA PAVEMENT CL. 1/2” PG 64-22, SEE TABLE 1**

**2’ MIN. CUT BACK OVER UNDISTURBED SOIL**

---

**CITY OF TACOMA**
**DEPARTMENT OF PUBLIC WORKS**

**APPROVED FOR PUBLICATION**

**CITY ENGINEER**

**DATE**

**TYPICAL PAVEMENT RESTORATION FOR ASPHALT CONCRETE/OIL MAT PAVEMENT**

**STANDARD PLAN NO.**

SU-15A
NOTES:
1. Provide uniform support under barrel and provide pockets in bedding for pipe bells.
2. Hand tamp under haunches.
3. Trench width shall be as specified in Section 2-09.4 of the WSDOT Standard Specifications.
4. Pipe zone backfill and backfill above pipe zone shall meet the material requirements of WSDOT Standard Specification Section 9-03.12(2) for gravel backfill for walls.
5. All trenches shall be compacted in accordance with SU-28.
6. Pipe zone bedding shall meet the material requirements of WSDOT Standard Specification Section 9-03.9(3) for crushed surfacing top course.

CITY OF TACOMA
PIPE ZONE BEDDING AND BACKFILL FOR SANITARY AND STORM SEWERS

STANDARD PLAN NO.  SU-16
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.
EXISTING SURFACES SHALL BE PREPARED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 5-04.3(5)A PRIOR TO PLACING ANY NEW PAVEMENT SURFACES

8" MAX

EXIST. ASPHALT CONCRETE

EXIST. CEMENT CONCRETE

CORE DRILL EXISTING PAVEMENT

BACKFILL REQUIREMENT PER NOTE 2

EXISTING UTILITY

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 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.
# Compaction Testing Requirements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Testing Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface (below HMA)</td>
<td>Vertical: N/A 1 test every 150 linear feet of trench or minimum 2 per trench</td>
</tr>
<tr>
<td>1 to 4 feet (or min 18 in. above pipe)</td>
<td>Vertical: 1 test for 150 square feet for isolated patches®</td>
</tr>
<tr>
<td>&gt; 4 feet to bottom of trench</td>
<td>Vertical: No specific requirement - may be required by COT inspector for verification of compaction</td>
</tr>
</tbody>
</table>

A. Testing shall be performed by a certified independent testing laboratory or a certified tester as approved by the City's Construction Division. The cost of testing is the responsibility of the permittee. Tests shall be completed and reports identifying the project number submitted to the Construction Division within 48 hours of tests.

B. Only one compaction test will be required for multiple trenches within a 150 sf area provided compaction procedures are the same.

C. Each lift shall be compacted to 95% modified proctor density, as verified by compaction testing, before proceeding to the next lift. COT inspector may require excavation and removal of soil where compaction is in question.

## Notes:

1. Compact backfill material in max. 12 in. lifts. Compact backfill material to 95% max. modified proctor density (ASTM 1557) except directly over pipe. hand tamp only.

2. Native backfill will require laboratory testing to determine max. modified proctor density. Imported backfill will require submittal of proctor test results from supplier.

3. See WSDOT Standard Specification Section 2-09.3(1)E for material requirements on "Controlled Density Fill" (CDF). CDF may be used for trenches less than 24 in. wide or as approved by the City Engineer. CDF shall be vibrated/compacted.
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)
TOTAL MARKING AREA = 10 SQ. FT.
WHITE = 1 SQ. FT.
BLUE = 9 SQ. FT.

DISABILITY PARKING SPACE SYMBOL WITH OPTIONAL BLUE BACKGROUND

PARALLEL PARKING/LOADING SPACE
ACCESS AISLE STRIPING

NO PARKING
PASSenger
LOADING ONLY
30 MIN LIMIT
8 AM - 6 PM

PARKING

$450 FINE

(BEGIN/END TIMES MAY VARY DEPENDING ON LOCATION)
PASSENGER LOADING ZONE SIGN
(RED ON WHITE)

DISABILITY PARKING STALL SIGNS
(WHITE ON BLUE)

CITY OF TACOMA
DISABILITY PARKING & PASSENGER LOAD ZONE
STRIPING & SIGNING DETAILS

STANDARD PLAN NO. SU-36E
NOTES:
Class 3000 cement concrete shall be placed, 1 3/8" min, below the finished pavement surface.

24-hours after placing the cement collar, HMA Class 3/4" 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 253-562-8742 for final inspection.

GROUND/PAVEMENT LINE

36" DIA CEMENT CONCRETE COLLAR, 6" THICK.
(REQUIRED IN ASPHALT PAVING ONLY)

1 3/8" MIN

VALVE CHAMBER

VALVE
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.
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.
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.
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.
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.
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 11 1/2".
3. Typical letter spacing is 8".
4. Letter stroke is 3/8".
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.
NOTES
1. Contractor will provide necessary control points to assist in preliminary spotting for pavement markings and associated signs.
2. When included in contract documents, Sh arrows should be placed immediately after an intersection and spaced typically at intervals not greater than 250 feet thereafter.
3. When conditions support bicyclists occupying the full travel lane, the preferred placement of the Sharrow is within the center of the travel lane to minimize wheelpath wear.

TYPICAL SHARROW
SYMBOL PLACEMENT
WITH PARKING LANE

TYPICAL SHARROW
SYMBOL PLACEMENT
WITHOUT PARKING LANE

TYPICAL SHARROW
SYMBOL DETAIL

1. Grid is 6"x6" squares.
2. All rounded corners have a 1" radius.
KEY NOTES

① Bid Item “Bicycle Lane Symbol” includes Bike Lane Arrow and Bike Rider Symbol.

② 2’ (ft) x 6’ (ft) White Bike Lane Arrow.

③ Bike Rider Symbol.

GENERAL NOTE

See Contract for location and material requirements.
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.

MULCH TREE PIT MIN 5'-0" LENGTH AND FULL PLANTING STRIP WIDTH BETWEEN CURB AND SIDEWALK, FOR PLANTING STRIPS LESS THAN 6'-0" WIDE; OR PROVIDE 5'-0"DIA MULCH RING, FOR PLANTING STRIPS WIDER THAN 6'-0".

"CHAINLOCK" OR EQUAL TREE TIE MATERIAL (1" SEID) NAIL OR STAPLE TREE TIE MATERIAL TO STAKE TO HOLD VERTICALLY. LOOP EACH TIE AROUND HALF TREE LOWLY TO PROVIDE 1" SLACK FOR TRUNK GROWTH

3'-4" (SETTLED) ARBORIST WOODCHIP MULCH DEPTH, TAPERED AT TRUNK

TOP OF ROOT BARRIER 1" ABOVE FINISH GRADE

18" DEEP LINEAR ROOT BARRIER PLACE PRIOR TO PLACEMENT OF NEW PAVEMENT TO PREVENT UNDERMINING

ROUGHEN SIDES OF PLANTING PIT TO MAXIMIZE EXCAVATED AREA WITHOUT UNDERMINING ADJACENT PAVING/CURB

REMOVE ALL WIRE, STRINGS AND BURLAP MATERIAL FROM ROOTBALL

UNDISTURBED SUBGRADE (PROVIDES FIRM BASE SO ROOTBALL WILL NOT SINK)

MIN WIDTH OF TREE PIT = 2 TIMES ROOTBALL DIAMETER

MULCH AREA TO BE CLEAR OF GRASS, WEEDS ETC.

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DEPARTMENT OF PUBLIC WORKS

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STREET TREE PLANTING

STANDARD PLAN NO. LS-01
NOTES:

1. Street trees shall have a trunk free of branches up to the height listed below when planted:
   A. Small trees, whose mature height is 15 to 25 feet, shall have a trunk free of branches up to a minimum of 4 feet.
   B. Conifer evergreen trees shall have a trunk free of branches up to a minimum of 2 feet.
   C. Trees with ascending branches (examples - Ulmus American and Zelkova Serrata) may be pruned 1 foot or more below the standard height and still provide proper clearance when planted.
   D. All other trees shall have a trunk free of branches up to a minimum of 6 feet.

2. Street trees shall not be less than 1.5 inches in caliper for broadleaf trees or 6 feet in height for evergreen/conifers.

3. For minimum unpaved planting area dimensions refer to tree well dimension detail, STANDARD PLAN NO. LS-03.

4. 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 shut off 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

CITY ENGINEER
DATE

STANDARD PLAN NO. LS-02
TREE SIZE:
Trees are categorized as small, medium or large based on the canopy factor, which takes into account the tree's 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
SHRUB PLANTING

MIN WIDTH OF PIT = 2 TIMES ROOTBALL DIAMETER

REUSED AND AMENDED SITE SOIL. SEE STD PLAN NO. LS-12 SOIL AMENDMENT AND DEPTH

UNDISTURBED SUBGRADE (PROVIDES FIRM BASE SO ROOTBALL WILL NOT SINK)

REMOVE ALL WIRE, STRINGS, CONTAINERS AND BURLAP MATERIAL FROM ROOT BALL

3"-4" (SETTLED) ARBORIST WOOD CHIP MULCH DEPTH, TAPERED AT TRUNK

SET ALL PLANTS AT NURSERY LEVEL

B&B OR CONTAINERIZED SHRUB (TYP)

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

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CITY ENGINEER

DATE

STANDARD PLAN NO. LS-05
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 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"

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 may be required
   - Minimize trench width to the extent possible
   - Maintain 2/3 or more of ZONE C in an undisturbed condition

**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
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 project’s 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 acut 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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DEPARTMENT OF PUBLIC WORKS

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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.

---

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

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TREE PROTECTION FENCING FOR TREES IN PAVED AREAS
STANDARD PLAN NO. LS-10

[Signatures and dates]
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.

<table>
<thead>
<tr>
<th>A. Planting Beds</th>
<th>B. Turf (Lawn) Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Rake beds to smooth and remove surface rocks larger than 2 inches diameter. Mulch planting beds with 3&quot; - 4&quot; of organic mulch or stockpiled duff.</td>
<td>Water or roll to compact to 85% of maximum dry density. Rake to level and remove surface rocks larger than 1 inch diameter.</td>
</tr>
</tbody>
</table>

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. Plan L6-08 and L8-09.

See SWMM BMP L613 for additional information.
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.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

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TRAFFIC SIGNAL PHASE ORIENTATION

STANDARD PLAN NO.  TS-15
1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications) or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.

2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with the Standard Specification Section 9-04.3.

3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).

4. The frame and grate may be installed with the flange down, or integrally cast into the section with flange up.

5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.

6. The opening shall be measured at the top of the Precast Base Section.

7. All pickup holes shall be grouted full after the basin has been placed.
NOTES

1. This inlet requires the precast catch basin unit to be rotated 90 degrees so that the narrow side is parallel to the curb line. When calculating offsets from curb to centerline (CL) of the precast catch basin, please note that the CL of the grate is not the CL of the precast catch basin. See Section A.

2. The dimensions of the frame and hood may vary slightly among different manufacturers. The frame may have cast features intended to support a debris guard. Hood units may be mounted inside or outside of the frame. The methods for fastening the safety bar/debris guard rod to the hood may vary. The hood may include casting lugs. The top of the hood may be cast with a pattern.

3. Attach the hood to the frame with two 3/4" (in) x 2" (in) hex head bolts, nuts, and oversize washers. The washers shall have diameters adequate to ensure full bearing across the slots.

4. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide two holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped or other approved mechanism. Location of bolt-down holes varies by manufacturer. See BOLT-DOWN DETAIL, Standard Plan B-30.10.

5. Only cuticle iron Vanned Grates shall be used. See Standard Plans B-30.30 and B-30.40 for grate details. Refer to Standard Specification Section 9-05.15(2) for additional requirements.

6. This plan is intended to show the installation details of a manufactured product. This plan is not intended to show the specific details necessary to fabricate the castings depicted in this drawing.
NOTES

1. ALIGN THE FRONT FACE OF THE APS ASSEMBLY PARALLEL WITH THE CROSSWALK.

2. ACCESSIBLE PEDESTRIAN PUSHBUTTON ASSEMBLIES SHALL HAVE BOTH AUDIBLE AND VIBROTACTILE WALK INDICATORS, WITH THE VIBROTACTILE WALK INDICATION PROVIDED BY A TACTILE ARROW ON THE PUSHBUTTON THAT VIBRATES DURING THE WALK INTERVAL.

3. THE TACTILE ARROW SHALL HAVE A HIGH VISUAL CONTRAST (LIGHT ON DARK OR DARK ON LIGHT) AND BE ALIGNED PARALLEL TO THE DIRECTION OF TRAVEL ON THE ASSOCIATED CROSSWALK.

4. WHEN ACCESSIBLE PEDESTRIAN PUSHBUTTONS ON A CORNER ARE SEPARATED BY 10' (FT) OR MORE, THE AUDIBLE WALK INDICATION SHALL BE A PERCUSSION TONE WITH EIGHT TO TEN TICKS PER SECOND. IF TWO ACCESSIBLE PEDESTRIAN PUSH BUTTONS ON A CORNER ARE INSTALLED LESS THAN 10' (FT) APART (I.E. ON THE SAME POLE) EACH ACCESSIBLE PEDESTRIAN PUSHBUTTON SHALL HAVE A PUSHBUTTON LOCATOR TONE, TACTILE ARROW, SPEECH WALK MESSAGE FOR THE WALKING PERSON (SYMBOLIZING WALK) INDICATION, AND SPEECH PUSHBUTTON INFORMATION MESSAGE. SEE THE MUTCD FOR SPEECH MESSAGE STANDARDS.

5. WHEN AN EXTENDED PUSHBUTTON PRESS IS USED TO PROVIDE ANY ADDITIONAL FEATURES (SUCH AS ADDITIONAL CROSSING TIME), THEN THE TACTILE ARROW SHALL BE MARKED AT ITS CENTER WITH THREE BRAILLE DOTS FORMING AN EQUILATERAL TRIANGLE.

6. WHEN ADDITIONAL CROSSING TIME IS PROVIDED BY AN EXTENDED PUSHBUTTON PRESS, A "PUSH BUTTON FOR 2 SECONDS FOR EXTRA CROSSING TIME" SIGN (R10.32P) SHALL BE INSTALLED ADJACENT TO OR INTEGRAL WITH THE ACCESSIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY. PROVIDE 2" (IN) SPACING BETWEEN EDGES OF SIGNS.

7. CONTACT THE H.Q. TRAFFIC OFFICE FOR SIDEWALKS WIDER THAN 10' (FT).

8. PLACE PEDESTRIAN PUSHBUTTONS WITHIN 10' (FT) FROM CENTER OF CURB RAMP (MEASURED FROM THE FRONT OF THE CURB) OR SHOULDER PER MUTCD SECTION 4E.08. DOCUMENTATION IS REQUIRED IF 10' (FT) CANNOT BE ACHIEVED.
**LEGEND**

- a. VEHICLE DISPLAY
- b. MAST ARM MTD SIGN
- c. PEDESTRIAN DISPLAY
- d. STREET NAME SIGN
- e. PREEMPT DETECTOR
- f. POST MTD SIGN
- g. HANDHOLE

**STATE**

- MIN. FROM CONC. BARRIER
- MIN. FROM FACE OF GUARDRAIL;

**DATE:**

- FILE
- ENTERED BY
- DESIGNED
- PLOTTED
- CHECKED BY
- NAME

**NOTE:**

- TYPE E
- A 45 DEGREE SINGLE PEDESTRIAN DISPLAY.

**SIGNAL STANDARDS IDENTIFICATION TAG DETAIL**

<table>
<thead>
<tr>
<th>STD. NO.</th>
<th>SIGNAL STANDARDS NO.</th>
<th>STD. NO.</th>
<th>SIGNAL STANDARDS NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X X</td>
<td>X X X X X X X X X X</td>
<td>X X X X X X X X X X</td>
<td>X X X X X X X X X X</td>
</tr>
</tbody>
</table>

**TAG NOTES:**


**EXAMPLE:**

- TEXT SHALL BE A MINIMUM OF 3/4" HIGH STAMPED OR EMBOSSED.

**LUMINARIA MAST ARM X, Y, Z (ft²) (deg.)**

<table>
<thead>
<tr>
<th>MAST LENGTH</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>9'</td>
<td>19.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8'</td>
<td>20.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10'</td>
<td>31.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12'</td>
<td>39.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14'</td>
<td>46.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16'</td>
<td>52.8</td>
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<td></td>
</tr>
</tbody>
</table>

- **POLE ORIENTATION LINE (E1 ATTACHMENT POINT)**

**POLE ORIENTATION AND ATTACHMENT POINT DETAIL**

- **NOTE:**
  - TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE E, II, III, & IV SIGNAL STANDARDS. WITH THE FOLLOWING EXCEPTION, PEDESTRIAN DISPLAYS ON TYPE II MOUNTS ONLY. THE INCLINATION OF SIGNS MOUNTED ON SIGNAL STANDARDS AT AN ANGLE OTHER THAN A 45 DEGREE INCORPORATION SHALL USE A TYPE B MOUNT FOR TWO PEDESTRIAN DISPLAYS OR A TYPE E MOUNT FOR A SINGLE PEDESTRIAN DISPLAY.

**SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY**

<table>
<thead>
<tr>
<th>HORIZONTAL DISTANCE</th>
<th>MIN.</th>
<th>MAX.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM STOP LINE</td>
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<td></td>
</tr>
<tr>
<td>1.5'</td>
<td>15.0'</td>
<td>19.0'</td>
</tr>
<tr>
<td>4'</td>
<td>15.0'</td>
<td>19.0'</td>
</tr>
<tr>
<td>6'</td>
<td>15.0'</td>
<td>19.0'</td>
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<tr>
<td>8'</td>
<td>15.0'</td>
<td>19.0'</td>
</tr>
<tr>
<td>10'</td>
<td>15.0'</td>
<td>19.0'</td>
</tr>
</tbody>
</table>

**LUMINARIA MAST ARM TYPE E- II- III- IV- SD**

<table>
<thead>
<tr>
<th>MAST ARM TYPE</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
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<td>E</td>
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<tr>
<td>IV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **ELEVATION IS TO TOP OF FOUNDATION**

**SIGNAL STANDARD DETAIL CHART**

<table>
<thead>
<tr>
<th>STN.</th>
<th>BR No.</th>
<th>BR MTD. POST</th>
<th>FIELD LOCATION</th>
<th>POLE TYPE</th>
<th>MOUNTING POINT</th>
<th>OFFSET (ft)</th>
<th>(DEGREE)</th>
<th>DIST. TO ATTACHMENT POINT</th>
<th>BIEX CLUSTER</th>
<th>WHEELING AREAS (ft²)</th>
<th>LUMINARIA ARM</th>
<th>COIL ATTACHMENT POINT</th>
<th>ANGLES (deg)</th>
<th>FOUNDATION DEPTH (ft)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**LEGEND**

- A: VEHICLE DISPLAY
- B: MAST ARM MTD SIGN
- P: PEDESTRIAN DISPLAY
- S: STREET NAME SIGN
- D: PREEMPT DETECTOR
- P: POST MTD SIGN
- H: HANDHOLE

**NOTE:**

- MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART.

- FOR TYPE E MOUNTS ONLY, DRILL 1" DIAM HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.

- FIELD INSTALLED, SIGN SIZES SHALL NOT EXCEED THE MAXIMUM VALUES LISTED HERE.

**EXAMPLE:**

- MEASURE FROM BOTTOM OF SIGNAL HEAD TO ROADWAY.

**LIMITS OF VERTICAL CLEARANCE**

- PLACEMENT SHALL BE 2'-0" MIN FROM FACE OF CURB OR EDGE OF SHOULD.
- 3'-0" MIN FROM FACE OF GUARDRAIL.
- 4'-0" MIN FROM CONC. BARRIER, TYPE 2 (MEASURED FROM A POINT WHERE THE BARRIER BASE MEETS THE SHOULDER SURFACE. TOE MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER TO FACE OF CURB).

**NOTE:**

- DMS & VMS IS NOT ALLOWED ON THESE POLES.

**FILE NAME:**

- Dix-15.pdf

**DATE:**

- 09/16/2021

**TIME:**

- 10:35:47 AM

**LOCATION:**

- Sheet Library/DX-PS, Work in Progress

**DATE:**

- 09/16/2021

**REVISION:**

- 09/16/2021

**DATE:**

- 09/16/2021
REPAIR PROCEDURE - BOLT HOLE SIZE 1/2" (IN) DIAMETER OR LESS -
PIPE TRADE SIZE 1/2" (IN) OR LESS

FOR UNC OR UNF THREADS:
- Apply silicone caulk to threads of SS bolt with shank.
- Tighten SS bolt until shank is tight against standard.
- CUT OFF SS BOLT EVEN WITH STANDARD.
- File SS bolt to match contour of standard.
- Treat SS bolt and surrounding pole with galvanizing repair paint meeting the requirement of Standard Specification 9-08.1(2).
- Apply two coats. Paint shall be dry before applying second coat.

FOR NATIONAL PIPE THREADS:
- Apply silicone caulk to threads of hot-dipped galvanized hex socket pipe plug.
- Tighten plug until flush with standard.
- File plug to match contour of standard.
- Fill hex socket with paintable silicone caulk.
- Treat plug and surrounding pole with galvanizing repair paint meeting the requirement of Standard Specification 9-08.1(2).
- Apply two coats. Paint shall be dry before applying second coat.

REPAIR PROCEDURE - MAXIMUM HOLE SIZE 3" (IN) DIAMETER OR LESS

- Submit per Standard Specification 6-03.3(25).
- Maximum hole size 3" (IN) or less in diameter.
- 1/8" (IN) steel plate - TYPE ASTM A - 35 electrode type XX-70.
- The plate shall be 1/2" larger than the diameter of the hole to be repaired (1/4" (IN) overlap all sides).
- Tack weld plate to pole.
- Shape plate to match taper and curve of pole.
- 1/8" (IN) fillet weld all around.
- Chamfer (grind) edge of plate smooth. Remove all burrs and sharp edges.
- Treat patch plate and surrounding pole with galvanizing repair paint meeting the requirement of Standard Specification 9-08.1(2).
- Apply two coats. Paint shall be dry prior to applying second coat.

HOLE REPAIR DETAIL

EXAMPLE OF REPAIR FROM PPB LOCATION - 1/2" (IN) DIAMETER AND 3/8" (IN) DIAMETER HOLES SHOWN

EXAMPLE WITH 2" (IN) DIAMETER HOLE SHOWN

EXAMPLE OF REPAIR FROM PPB LOCATION - SEE DETAIL @ LEFT

EXAMPLE WITH 2" (IN) DIAMETER HOLE SHOWN
FLASHING BEACON
TYPE 1 SIGNAL
STANDARD DETAILS
STANDARD PLAN J-21.16-01

SERRATED OR FLANGED ELBOW
SERRATED RING WITH PINS
PLACE BEAD OF SILICONE ON TOP OF SERRATED AREA
FLASHING WARNING BEACON
NEOPRENE GASKET
STEEL WASHER
HEX LOCKNUT = 1 1/2" DIA.
CONDUIT LOCKNUT = 1 1/2" DIA.

NEOPRENE GASKET AND LOCKNUT
TAPERED STEEL SHAFT
NO HINGE DOOR FOR CLARITY

NOTES
2. All poles shall be hot dip galvanized per AASHTO M111.
3. Welding of structures shall be in accordance with the latest edition of the AWS U1.1 Structural Welding Code - Steel. All butt welds shall be ground flush with base metal.
4. Visor shall be 8" Polycarbonate, fully enclosed circle at bottom to reduce glare on sign. Display shall be of appropriate color needed.
6. Junction Box serving the Standard shall preferably be located 5'-0" (15'-0" Max) from the Standard.
NOTES
1. See Standard Specification 9-29.3 for Cable Conductor requirements.
3. Supplemental Grounding Conductor shall be non-insulated #4 AWG stranded copper, provide 3’ 0” min. slack. Clamp to vertical steel reinforcing bar with listed connector suitable for use embedded in concrete.
5. Provide Cable Tie at wiring entering the Junction Box (for Slip Base installations only) – See Detail A, Standard Plan J-28.70.
**LOCKING LID STANDARD DUTY JUNCTION BOX**

**TYPES 1 & 2**

**STANDARD PLAN J-40.10-04**

**SECTION A**

1. All box dimensions are approximate. Exact configurations vary among manufacturers.

2. Minimum lid thickness shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate, and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/16" (0.0625 mm) thick formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.

3. Lid support members shall be 3/16" (4.76 mm) minimum thick steel C, L, T shape, welded to the frame. A 1/4-20 NC x 3/4" (19.05 mm) stainless steel ground stud shall be welded to the bottom of the lid; include (2) stainless steel nuts and (2) stainless steel flat washers.

4. Bolts and nuts shall be liberally coated with anti-seize compound.

5. Equipment Bonding Jumper shall be #8 AWG Min. x 4" (102.0 mm) (tinned) stranded copper.

6. The System Identification letters shall be 1/8" (0.0394 mm) thick formed with a mild steel weld bead. See Cover Marking detail. Grind off diamond pattern before forming letters. For System Identification details, see Standard Specification 9.29(4).

7. When required in the Contract, provide a 10" (254 mm) x 27 1/2" (699.9 mm), 10 gauge divider plate, complete, with fasteners, in each Type 2 Junction Box where specified.

8. When required in Contract, provide a 12" (304.8 mm) deep extension for each Type 2 Junction Box where specified.

9. See the Standard Specifications for alternative reinforcement and class of concrete.

10. Headed Anchor Shear Studs must be welded to the Steel Cover Lip Plate and wire tied in two places to the vertical Welded Wire Fabric when in contact with each other. Wire tie all other Headed Anchor Shear Studs to the horizontal Welded Wire Fabric.

11. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangements, actual configurations of assembly will vary among manufacturers. See approved manufacturers’ shop drawings for specifics.

12. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults, and Pull Boxes shall not be placed within the sidewalks, walkways, shared use paths, traveled ways or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty.

13. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (152.4 mm) min. to 8" (203.2 mm) max. for final grade of new construction only. See Standard Specification 8.20(3)(6). Where adjustments are to be made in existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (152.4 mm) min. to 10" (254.0 mm) max. See Standard Specification 8.20(3)(6).
1. Mounting brackets with steel straps shall be a stainless steel band and buckle system product or an approved equal. Mounting brackets shall be universal channel clamps; steel straps shall be 3/4" (in) wide and 0.030" (in) thick.

2. All signs installed on mast arms or standards (poles) require windbeams. All signs shall be installed with horizontal edges level. A skewed windbeam is required only when the sign is mounted within 12" (in) of the mast arm base (see Detail "A").

3. The street name sign shall be a maximum of 36 square feet and the sign height is a maximum of 3' (ft); signs larger than 36 square feet require a special design mast arm and signal pole.
SIGN INSTALLATION ON SIGNAL OR LIGHT STANDARD

NOTE:
Any Lane Use Sign greater than 7.5 sq ft. requires a Special Design Mast Arm and Signal Pole.

DIMENSIONS

<table>
<thead>
<tr>
<th>X</th>
<th>Y</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>3' - 0&quot;</td>
<td>2' - 6&quot;</td>
<td>1'- 0&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>3' - 0&quot;</td>
<td>3' - 0&quot;</td>
<td>1'- 0&quot;</td>
<td>6&quot;</td>
</tr>
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<td>3' - 0&quot;</td>
<td>4'- 0&quot;</td>
<td>1'- 3&quot;</td>
<td>8&quot;</td>
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<tr>
<td>4'- 0&quot;</td>
<td>2'- 6&quot;</td>
<td>1'- 3&quot;</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>

MOUNTING BRACKET AND STEEL STRAP (SEE NOTE 1)

SIGN INSTALLATION ON SIGNAL AND LIGHT STANDARDS
STANDARD PLAN G-30.10-04

MAST ARM-MOUNTED LANE USE SIGNS
NOTES
1. See Standard Specification 9-06.16 for Breakaway Base Connection details. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented manufactured products that are in compliance with INCHRP 250 crash test criteria. The Breakaway Base Connection details are only shown on this plan to illustrate how parts are assembled.
4. Where shown in the plans, install plaque (R10.32") "PUSH BUTTON FOR 2 SECONDS FOR EXTRA CROSSING TIME" above the Accessible Pedestrian Signal (APS) assembly. Add 14" (in) to post height to accommodate plaque and leave a 2" (in) space between signs.
5. Mounting distances vary between manufacturers. See manufacturer’s recommendations for mounting information.
6. Junction Box serving the Standard shall preferably be located 5'-0" (10'-0" Max.) from the Standard.
1. Each wire shall be physically separated by at least 1/4" (in) so that sealing material can fill in between the wires; where heat shrink tubing is used for the outer splice enclosure, it shall meet one of the following requirements:
   a. Have separate ports for each conductor ("WYE" or "X" shaped tubing), – or –
   b. Have rubber electrical mastic tape wrapped around each conductor to ensure a weatherproof seal. See Rubber Electrical Mastic Tape Installation Detail, Standard Plan J-60.05.

2. Heat shrink tubing shall extend a minimum of one inch onto the original wire insulation of each wire in the splice. Rigid splice enclosures shall be centered over the crimped connection.

3. Electrical tape used in splicing applications shall be 3/4" (in) wide, be UL listed under UL 510, and be CSA Certified under C22.2 No. 197-M1983.

4. Crimp splices shall be installed with an approved crimping tool for the type and size of crimp splice used. Pliers and similar multi-purpose tools may not be used.
APPENDIX B

TRAFFIC CONTROL HANDBOOK
TRAFFIC CONTROL

HANDBOOK

MUST MAINTAIN PEDESTRIAN AND DISABILITY ACCESS AT ALL TIMES

City of Tacoma
Department of Public Works
Last updated: 10/21/09
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Special Traffic Requirements

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Shoulder Work with Minor Encroachment
Two Lane Road with Center Closure
Two-Way Lane Shift with Parking
Right Lane Closure
Right Lane Closure at Intersection
Left Lane Closure At Intersection
One Way Street Multi-Lane Closure
Four Lane Road – Two Lane Closure
Five Lane Road Multi-Lane Closure
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Roundabout Traffic Control with Flaggers

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Mid-Block Lane Closure
Center Lane Closure at Intersection
Inside Lane Closure at Intersection

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Traffic Control for Moving Van
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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
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.
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.

<table>
<thead>
<tr>
<th>Department</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Traffic Engineering</td>
<td>591-5500</td>
<td>591-5533</td>
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<tr>
<td>Tacoma Fire Department</td>
<td>591-5733</td>
<td>591-5034</td>
<td><a href="mailto:kmueller@cityoftacoma.org">kmueller@cityoftacoma.org</a></td>
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<tr>
<td>Tacoma Police –Ops</td>
<td>591-5932</td>
<td>594-7842</td>
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<tr>
<td>LESA</td>
<td>798-4721 Opt #3</td>
<td>798-2708</td>
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<td>Sound Transit Link</td>
<td>206-370-5674</td>
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<tr>
<td>Pierce Transit</td>
<td>581-8109</td>
<td>589-6364 or 589-6367</td>
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<tr>
<td>Pierce Transit Events Coordinator</td>
<td>581-8001</td>
<td>984-8161</td>
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<tr>
<td>Public Works/Street Ops</td>
<td>591-5495</td>
<td>591-5302</td>
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<tr>
<td>School Trans Office</td>
<td>571-1853</td>
<td>571-1932</td>
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<tr>
<td>Durham School Services</td>
<td>475-0422</td>
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<td>First Students</td>
<td>272-7799</td>
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<tr>
<td>UWT Facilities Services</td>
<td></td>
<td>692-5705</td>
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<tr>
<td>Off-Duty Police Officer</td>
<td>591-5932</td>
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<td><a href="mailto:TacomaPoliceEvents@cityoftacoma.org">TacomaPoliceEvents@cityoftacoma.org</a></td>
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<tr>
<td>Tacoma Refuse</td>
<td>591-5544</td>
<td>591-5547</td>
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</table>

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

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.asp
http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf
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: ____________________________ DATE: ____________

☐ 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)

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<td>427</td>
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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 trapped 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 Indian Business Districts from Thanksgiving Day through New Years 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 150' apart.
SINGLE LANE NON-ARTERIAL WITH FLAGGER

☐ APPROVED BY: ____________________________ DATE: ____________
☐ APPROVED WITH CONDITIONS BY: ____________________________

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: ____________________________

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(All minimums)

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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 30–40 mph signs must be placed 50’ apart.
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<td>427</td>
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</table>

**MERGING TAPER LENGTHS FOR CONE PATTERN**

(All minimums)

<table>
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<tr>
<th>LANE WIDTH</th>
<th>NUMBER OF CHANNELIZATION DEVICES (CONES)</th>
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<tbody>
<tr>
<td>Offset cones 1 foot maximum</td>
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</tbody>
</table>

**CBD RIGHT LANE CLOSURE**

☐ APPROVED BY: __________________________ DATE: __________________________

☑ 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 barriers, 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 [City Name] 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.
TWO LANE CENTER CLOSURE

MERGING TAPER LENGTHS FOR CONE PATTERN
(All minimums)

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<th>MPH</th>
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<td>107</td>
<td>167</td>
<td>240</td>
<td>327</td>
<td>427</td>
</tr>
</tbody>
</table>

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 300' apart.
TWO WAY LANE SHIFT WITH PARKING

APPROVED BY: __________________________ DATE: __________

APPROVED WITH CONDITIONS BY: ____________________

START TRAFFIC CONTROL SET UP DATE: __________

MUST BE OUT OF THE ROAD BY DATE: __________

START TRAFFIC CONTROL SET UP DATE & TIME:

MUST BE OUT OF THE ROAD BY DATE & TIME:

NOTE 1: Maintain legal 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 30-40 mph signs must be placed 100' apart.

WORK ZONE

MERGING TAPER LENGTHS FOR CONE PATTERN
(All minimums)

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<th>MPH</th>
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Offset cones 1 foot maximum.
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)

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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 Inglewood business districts from Thanksgiving Day through New Year's Day.

Note 3: Sign spacing: Urban low speed 25-30 MPH signs must be placed 120' apart. Urban high speed 35-40 MPH signs must be placed 360' apart.
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)

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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 (insert city name) 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 300' apart.
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)

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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 Indiana business districts from Thanksgiving Day through New Year's Day.

NOTE 3: Sign Spacing: Urban low speed 23-30 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

☐ 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)

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NUMBER OF CHANNELIZATION DEVICES (CONES)

OFFSET CONES 1 FOOT MAXIMUM.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRIERS, 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: ALL 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 300' APART.
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 miniums)

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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 Tucson 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 150' apart.
LEGEN
1. Night work requires additional roadway lighting at flagging stations.
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 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 signage as appropriate.

TYPICAL ROUNDBOUD WITH FLAGGERS

MERGING TAPER LENGTHS FOR CONE PATTERN

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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.

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:

Approved by: ____________________________
Approved with conditions by: ____________________________
Date: ____________________________
Workers must be protected by vehicle equipped with auxiliary beacons/strobes and a high visibility illuminated arrow device.

**MERGING TAPER LENGTHS**

**FOR CONE PATTERN**

(All minimums)

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**NOTE 1:** Maintain local access and protected walkways at all times. Provide and maintain barricades, signs, lights, etc. as per Manual of 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 Denver 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 300' apart.
Nose cones for truck optional.

Workers must be protected by vehicle equipped with auxiliary beacons/strobes and a high visibility illuminated arrow device.

**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**

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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 being dropped or traveled 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 Vancouver Business District. 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 300' apart.
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)

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OFFSET CONES 1 FOOT MAXIMUM

NUMBER OF CHANNELIZATION DEVICES (CONES)

NOTES:
1. MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRIERS, 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 TRASHED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

2. NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF INDIAN BUSINESS DISTRICTS DURING THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

3. SIGN SPACING: URBAN LOW SPEED 35-50 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 300' APART.

Workers must be protected by vehicle equipped with auxiliary beacons/strobes and a high visibility illuminated arrow device.
Workers must be protected by vehicle equipped with auxiliary beacons/strobes and a high visibility illuminated arrow device.

MID-BLOCK LANE CLOSURE UNDER 60 MINUTES

[Table]

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MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

LANE WIDTH

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 BARRIERS, 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 TRASHED 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 INDIAN 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.
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)

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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 300' apart.
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)

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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.

### 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

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**Number of Channelization Devices (Cones):**

| Offset cones 1 foot maximum |

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**Note 1:** Maintain local access and protected walkways at all times. Provide and maintain barriers, 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:** All 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.
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: __________________________ Date: ____________
- 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: __________________________ Date: ____________

Must be out of the road by date & time: __________________________ Date: ____________

### Merging Taper Lengths

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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 charge work order and/or citation.

Note 2: No work shall be scheduled on streets or walkways within the city of Indiana business district from Thanksgiving Day through New Year's Day.

Note 3: Sign spacing. Urban low speed 35-30 MPH signs must be placed 100' apart. Urban high speed 35-40 MPH signs must be placed 250' apart.
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 IMPAacted TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
2. ADA ACCOMMODATIONS 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)

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NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRIERS, 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 TRAPPED 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 JACKSON BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING. URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 120 FEET APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 300 FEET APART.
NOTES:
1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. MAINTAIN A MINIMUM OF 48" FOR A PEDESTRIAN PATH.
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET TC-S2 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

FILE NAME: TC16-PES-PandP-Standards-Pan Sheet Library/10-Work Zone Traffic Control (TC/STC/16070-16.dgn)
TIME: 8:10:39 AM
DATE: 11/10/2012
PLOTTED BY: CyndyL.
DESIGNED BY: JEB
ENTERED BY: RICH-D.
CHECKED BY: PEGG-D.
REGIONAL ADMIN.: REVISION

WASHINGTON STATE
Department of Transportation
PEDESTRIAN CONTROL AND PROTECTION

TC16


**SAMPLE SETUP**

**SIDEWALK CLOSURE**

☐ APPROVED BY: ____________________________ Date: ____________________________

☐ 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**

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**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 300' apart.
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FOR CONE PATTERN

(All minimums)

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LENGTH:

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 TRAVELLED 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 ROCHESTER 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.
A flagger must be with the surveyor to direct turning traffic with the signal indications.

SURVEY
TWO LANE ARTERIAL INTERSECTION

☐ APPROVED BY: ___________________________ DATE: _____________

☐ APPROVED WITH CONDITIONS: ___________________________ 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: ___________________________

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NUMBER OF CHANNELIZATION DEVICES (Cones)

Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRIERS, 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 TRAPPED 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 INDIANAPOLIS BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACINGS: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 300' APART.
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)

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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 MIAMI BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACINGS: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 120' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.
Flagger or vehicle with arrow board to protect survey equipment operator in nonpeak traffic.

**Survey Multi-Lane Arterial**

- **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**

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**Number of Channelization Devices (Cones):**

- Offset cones 1 foot maximum.

**Notes:**
1. Maintain legal 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.
2. All work shall be scheduled on streets or walkways within the city of Tacoma business districts from Thanksgiving Day through New Year's Day.
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 300' apart.
TRAFFIC CONTROL
RECOMMENDATIONS

☐ 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)

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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 balance 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 300’ apart.
### Traffic Control Recommendations

- **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

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| **Offset Cones:** | 1 foot maximum |

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**Note 2:** No work shall be scheduled on streets or walkways within the City of Indiana Business Districts from Thanksgiving Day through New Year's Day.

**Note 3:** Sign Spacing: Urban Low Speed 25-30 MPH Signs Must Be Placed 1/20 Apart. Urban High Speed 35-40 MPH Signs Must Be Placed 3/50 Apart.
TRAFFIC CONTROL RECOMMENDATIONS

☐ 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
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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 300' APART.

MERGING TAPER LENGTHS FOR CONE PATTERN
(All minimums)

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NUMBER OF CHANNELIZATION DEVICES (CONES)
Offset cones 1 foot maximum.
TRAFFIC CONTROL RECOMMENDATIONS

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START TRAFFIC CONTROL SET UP DATE: _______ OFF PEAK 9:00 AM WEEKDAYS

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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 300' apart.
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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 150' APART.

MERGING TAPER LENGTHS FOR CONE PATTERN
(All minimums)

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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.

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### Traffic Control Recommendations

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**Note: 2.** No work shall be scheduled on streets or walkways within the City of [City Name] Business Districts from Thanksgiving Day through New Year's Day.

**Note: 3.** Sign spacings: Urban low speed 25-30 MPH signs must be placed 100' apart. Urban high speed 35-40 MPH signs must be placed 300' apart.
APPENDIX C

INADVERTENT DISCOVERY PLAN
PLAN AND PROCEDURES FOR THE UNANTICIPATED DISCOVERY OF CULTURAL RESOURCES AND HUMAN SKELETAL REMAINS

PROJECT TITLE: TPU Admin Complex Street Improvements

COUNTY WASHINGTON: Pierce County

Township: 20N Range: 2 E Section: SE 12 and NE 13

1. INTRODUCTION
The following Inadvertent Discovery Plan (IDP) outlines procedures to perform in the event of discovering archaeological materials or human remains, in accordance with state and federal laws.

2. RECOGNIZING CULTURAL RESOURCES
A cultural resource discovery could be prehistoric or historic. Examples include:
   a. An accumulation of shell, burned rocks, or other food related materials.
   b. Bones or small pieces of bone.
   c. An area of charcoal or very dark stained soil with artifacts.
   d. Stone tools or waste flakes (i.e. an arrowhead. or stone chips).
   e. Clusters of tin cans or bottles, logging or agricultural equipment that appears to be older than 50 years.
   f. Buried railroad tracks, decking, or other industrial materials.

When in doubt, assume the material is a cultural resource.

3. ON-SITE RESPONSIBILITIES
STEP 1: Stop Work. If any employee, contractor or subcontractor believes that he or she has uncovered a cultural resource at any point in the project, all work must stop immediately. Notify the appropriate party(s). Leave the surrounding area untouched, and provide a demarcation adequate to provide the total security, protection, and integrity of the discovery. The discovery location must be secured at all times by a temporary fence or other onsite security.

STEP 2: Notify Archaeological Monitor or Licensed Archaeologist. If there is an Archaeological Monitor for the project, notify that person. If there is a monitoring plan in place, the monitor will follow the outlined procedure.

STEP 3: Notify the UW Project Manager of this project or other applicable contacts:
The Project Manager or applicable staff will make all calls and necessary notifications. **If human remains are encountered**, treat them with dignity and respect at all times. Cover the remains with a tarp or other materials (not soil or rocks) for temporary protection and to shield them from being photographed. **Do not call 911 or speak with the media. Do not take pictures unless directed to do so by DAHP. See Section 5.**

4. FURTHER CONTACTS AND CONSULTATION

A. **Project Manager’s Responsibilities:**

   - *Protect Find:* The Project Manager is responsible for taking appropriate steps to protect the discovery site. All work will stop immediately in a surrounding area adequate to provide for the complete security of location, protection, and integrity of the resource. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site. Work in the immediate area will not resume until treatment of the discovery has been completed following provisions for treating archaeological/cultural material as set forth in this document.

   - *Direct Construction Elsewhere on-Site:* The Project Manager may direct construction away from cultural resources to work in other areas prior to contacting the concerned parties.

   - *Contact Senior Staff:* If the Senior Staff person has not yet been contacted, the Project Manager must do so.

B. **Senior Staff Responsibilities:**

   - *Identify Find:* The Senior Staff (or a delegated Cultural Resource Specialist), will ensure that a qualified professional archaeologist examines the area to determine if there is an archaeological find.

     o If it is determined not to be of archaeological, historical, or human remains, work may proceed with no further delay.

     o If it is determined to be an archaeological find, the Senior Staff or Cultural Resource Specialist will continue with all notifications.
If the find may be human remains or funerary objects, the Senior Staff or Cultural Resource Specialist will ensure that a qualified physical anthropologist examines the find. **If it is determined to be human remains, the procedure described in Section 5 will be followed.**

- **Notify DAHP:** The Senior Staff (or a delegated Cultural Resource Specialist) will contact the involved federal agencies (if any) and the Washington Department of Archaeology and Historic Preservation (DAHP).

- **Notify Tribes:** If the discovery may be of interest to Native American Tribes, the DAHP and Ecology Supervisor or Coordinator will coordinate with the interested and/or affected tribes.

**Department of Archaeology and Physical Anthropologist Contacts:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rob Whitlam, Ph.D.</td>
<td>Archaeologist</td>
<td>360-586-3088</td>
<td><a href="mailto:rob.whitlam@dahp.wa.gov">rob.whitlam@dahp.wa.gov</a></td>
</tr>
<tr>
<td>Dr. Guy Tasa</td>
<td>State Physical Anthropologist</td>
<td>360-586-3534</td>
<td><a href="mailto:guy.tasa@dahp.wa.gov">guy.tasa@dahp.wa.gov</a></td>
</tr>
</tbody>
</table>

The DAHP will contact the interested and affected Tribes for a specific project.

**Tribes consulted on this project are:**

<table>
<thead>
<tr>
<th>Tribe: Puyallup Tribe of Indians</th>
<th>Tribe: Nisqually Indian Tribe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: Brandon Reynon</td>
<td>Name: Brad Beach</td>
</tr>
<tr>
<td>Title: Cultural Resources</td>
<td>Title: THPO</td>
</tr>
<tr>
<td>Phone: 253-573-7986</td>
<td>Phone: 360-528-0680</td>
</tr>
<tr>
<td>Email: <a href="mailto:brandon.reynon@puyalluptribe-nsn.gov">brandon.reynon@puyalluptribe-nsn.gov</a></td>
<td>Email: <a href="mailto:beach.brad@nisqually-nsn.gov">beach.brad@nisqually-nsn.gov</a></td>
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**Further Activities**

- Archaeological discoveries will be documented as described in Section 6.
- Construction in the discovery area may resume as described in Section 7.
5. SPECIAL PROCEDURES FOR THE DISCOVERY OF HUMAN SKELETAL MATERIAL

Any human skeletal remains, regardless of antiquity or ethnic origin, will at all times be treated with dignity and respect. Do not take photographs by any means, unless you are pre-approved to do so.

If the project occurs on federal lands or receives federal funding the provisions of the Native American Graves Protection and Repatriation Act of 1990 apply, and the responsible federal agency will follow its provisions. Note that state highways that cross federal lands are on an easement and are not owned by the state.

If the project occurs on non-federal lands, the Project Manager will comply with applicable state and federal laws, and the following procedure:

A. **In all cases you must notify a law enforcement agency or Medical Examiner/Coroner’s Office:**

   In addition to the actions described in Sections 3 and 4, the Project Manager will immediately notify the local law enforcement agency or medical examiner/coroner’s office.

   The Medical Examiner/Coroner (with assistance of law enforcement personnel) will determine if the remains are human, whether the discovery site constitutes a crime scene, and will then notify DAHP.

   Enter contact information below:

   Pierce County Medical Examiner  Tacoma Police Department
   Karen Cline-Parhamovich, Chief Non-emergency:
   Medical Examiner
   253.798.6494

B. **Participate in Consultation:**

   Per RCW 27.44.055, RCW 68.50, and RCW 68.60, DAHP will have jurisdiction over non-forensic human remains.

C. **Further Activities:**

   - Documentation of human skeletal remains and funerary objects will be agreed upon through the consultation process described in RCW 27.44.055, RCW 68.50, and RCW 68.60.

   - When consultation and documentation activities are complete, construction in the discovery area may resume as described in Section 7.
6. DOCUMENTATION OF ARCHAEOLOGICAL MATERIALS
Archaeological deposits discovered during construction will be assumed eligible for inclusion in the National Register of Historic Places under Criterion D until a formal Determination of Eligibility is made.

Project staff will ensure the proper documentation and field assessment will be made of any discovered cultural resources in cooperation with all parties: the federal agencies (if any), DAHP, Ecology, affected tribes, and a contracted consultant (if any).

All prehistoric and historic cultural material discovered during project construction will be recorded by a professional archaeologist on a cultural resource site or isolate form using standard and approved techniques. Site overviews, features, and artifacts will be photographed; stratigraphic profiles and soil/sediment descriptions will be prepared for minimal subsurface exposures. Discovery locations will be documented on scaled site plans and site location maps.

Cultural features, horizons and artifacts detected in buried sediments may require further evaluation using hand-dug test units. Units may be dug in controlled fashion to expose features, collect samples from undisturbed contexts, or to interpret complex stratigraphy. A test excavation unit or small trench might also be used to determine if an intact occupation surface is present. Test units will be used only when necessary to gather information on the nature, extent, and integrity of subsurface cultural deposits to evaluate the site’s significance. Excavations will be conducted using state-of-the-art techniques for controlling provenience, and the chronology of ownership, custody and location recorded with precision.

Spatial information, depth of excavation levels, natural and cultural stratigraphy, presence or absence of cultural material, and depth to sterile soil, regolith, or bedrock will be recorded for each probe on a standard form. Test excavation units will be recorded on unit-level forms, which include plan maps for each excavated level, and material type, number, and vertical provenience (depth below surface and stratum association where applicable) for all artifacts recovered from the level. A stratigraphic profile will be drawn for at least one wall of each test excavation unit.

Sediments excavated for purposes of cultural resources investigation will be screened through 1/8-inch mesh, unless soil conditions warrant ¼-inch mesh.

All prehistoric and historic artifacts collected from the surface and from probes and excavation units will be analyzed, catalogued, and temporarily curated. Ultimate disposition of cultural materials will be determined in consultation with the federal agencies (if any), DAHP and the affected tribes.

Within 90 days of concluding fieldwork, a technical report describing any and all monitoring and resultant archaeological excavations will be provided to the Project Manager, who will forward the report for review and delivery to DAHP, the federal agencies (if any), and the affected tribe(s).
If assessment activity exposes human remains (burials, isolated teeth, or bones), the process described in Section 5 will be followed.

7. PROCEEDING WITH WORK

Work outside the discovery location may continue while documentation and assessment of the cultural resources proceed. A professional archaeologist must determine the boundaries of the discovery location. In consultation with DAHP and any affected tribes, the Project Manager will determine the appropriate level of documentation and treatment of the resource. If there is a federal nexus, Section 106 consultation and associated federal laws will make the final determinations about treatment and documentation.

Work may continue at the discovery location only after the process outlined in this plan is followed and the Project Manager, DAHP, any affected tribes (and the federal agencies, if any) determine that compliance with state and federal law is complete.

8. RECIPIENT/PROJECT PARTNER RESPONSIBILITY

The IDP must be immediately available onsite, be implemented to address any discovery, and be available by request by any party. The Project Manager and Project Team will review the IDP during a project kickoff or pre-construction meeting.

We recommend that you print images in color for accuracy.
Implement the IDP / UDP if ... 

You see chipped stone artifacts.

- Glass-like material
- Angular
- “Unusual” material for area
- “Unusual” shape
- Regularity of flaking
- Variability of size
Implement the IDP / UDP if …

You see ground or pecked stone artifacts.

- Striations or scratching
- Unusual or unnatural shapes
- Unusual stone
- Etching
- Perforations
- Pecking
- Regularity in modifications
- Variability of size, function, and complexity
Implement the IDP / UDP if …

You see bone or shell artifacts.

• Often smooth
• Unusual shape
• Carved
• Often pointed if used as a tool
• Often wedge shaped like a “shoehorn”
Implement the IDP / UDP if …

You see bone or shell artifacts.

- Often smooth
- Unusual shape
- Perforated
- Variability of size
Implement the IDP / UDP if …

You see fiber or wood artifacts.

• Wet environments needed for preservation
• Variability of size, function, and complexity
• Rare
Implement the IDP / UDP if …

You see historic period artifacts.
Implement the IDP / UDP if …

You see strange, different or interesting looking dirt, rocks, or

- Human activities leave traces in the ground that may or may not have artifacts associated with them
- “Unusual” accumulations of rock (especially fire-cracked rock)
- “Unusual” shaped accumulations of rock (e.g., similar to a fire ring)
- Charcoal or charcoal-stained soils
- Oxidized or burnt-looking soils
- Accumulations of shell
- Accumulations of bones or artifacts
- Look for the “unusual” or out of place (e.g., rock piles or accumulations in areas with few rock)
Implement the IDP / UDP if …

You see strange, different or interesting looking dirt, rocks, or

- “Unusual” accumulations of rock (especially fire-cracked rock)
- “Unusual” shaped accumulations of rock (e.g., similar to a fire ring)
- Look for the “unusual” or out of place (e.g., rock piles or accumulations in areas with few rock)
Implement the IDP / UDP if …

You see strange, different or interesting looking dirt, rocks, or

- Often have a layered or “layer cake” appearance
- Often associated with black or blackish soil
- Often have very crushed and compacted shells

Layers of shell midden

Historic Debris
Implement the IDP / UDP if ...

You see historic foundations or buried structures.
APPENDIX D

NOISE VARIANCE
Noise Variance Review

The noise variance NVAR22-0006 request dated February 24, 2022 was evaluated based on the information provided in the variance submitted and any additional information communicated during review. The request is for paving and sidewalk work at night and weekend if the contractor cannot keep pedestrian access to Tacoma Power Utility building and parking lots abutting 3628 South 35th Street. The work will likely exceed noise limits in Tacoma Municipal Code 8.122.

The information was reviewed based on the criteria provided in TMC 8.122.090 section D and as noted in the evaluation section below.

**Evaluation:**

Per the submittal, the project is proposed from May 15th through December 31st, 2022. The work is requested to occur during nights and weekends to keep pedestrian access to Tacoma Power Utilities during working hours.

The site plan provided has adequate location information and site descriptions. Staff evaluated the site per City of Tacoma Dart Map to determine proximity of nearby residents. See the Site Evaluation Map attached. Nearest residents appear over west and up the hill along South 35th Street.

The applicant has indicated that the proposed equipment consists of grinding and paving equipment for grind and overlay work; backhoes; concrete sawing. Common equipment not listed for this work include concrete mixing trucks, dump trucks, concrete finishing equipment, utility trucks, and other hand tools. Equipment sound levels were compared with the Federal Highway Administration for Construction Noise Handbook Table 9.1 and 9.9 for maximum sound levels at 50 feet. Concrete trucks are referenced to create 85 dBA, paving equipment to 85 dBA, asphalt grinder/scarifier to 85 dBA, backhoe to 80dBA, concrete saw to 90 dBA, trucks and utility trucks between 55 to 84 dBA, and hand tools to less than 85 dBA. Back-up alarms are understood to be broadband and are not anticipated to exceed the 85 dBA proposed by other equipment.

Construction activity noise is allowed from 7am to 9pm weekdays and 9am to 9pm on weekends and holidays. Outside of the construction hours identified, work must not exceed 5dBA above ambient between 10pm and 7am and between 9pm and 10pm work is limited to 10 dBA above ambient. The work would not be allowed to exceed 5 dBA above ambient after 10pm. The ambient noise in this area is estimated near 60 dBA or higher closer toward the north, near Freeway traffic. The difference between noise levels allowed and proposed by the listed equipment will require a noise variance in the immediate vicinity and extending out about 500' from the work area. Evaluation is based on the understanding that a reduction of 6 dBA in sound level occurs with every doubling of distance.

**Decision:**

Based on the evaluation above, the noise variance is APPROVED WITH CONDITIONS, as noted below.

1. Use best management practices to shield noise from nearby residents and residential structures.
2. Jack hammering and other pavement saw cutting shall occur during normal construction hours.
3. Back-fill compaction activities shall occur during daytime hours if the vibrations can be detected at the residential properties near the work site.
4. Notification shall be provided by the applicant to all properties within 500 feet as determined in the evaluation section and shown in the Site Evaluation Maps. Notification to be provided 5 days prior to the start of work and indicate the date, times, and applicant contact for questions relating to the work.
5. If the dates of the activity change, including future right-of-way restoration, then additional notification will be required per #4 above.

This determination was the result of staff review. If the accuracy of the information submitted and/or approval conditions are not complied with, then the noise variance may be voided. Additional submittal, review, and fee may be required for reinstatement.

<table>
<thead>
<tr>
<th>Director or Authorized Representative (print):</th>
<th>Craig Kuntz</th>
<th>Phone Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(signature):</td>
<td>[signature]</td>
<td>253-594-7820</td>
</tr>
</tbody>
</table>

Date: 2-28-2022
Site Evaluation Map:

Paving and sidewalk work at night and weekend if the contractor cannot keep pedestrian access to Tacoma Power Utility building and parking lots abutting 3628 South 35th Street.

This site plan aerial photo was obtained from the City of Tacoma Dart Map website to assist with evaluation of this noise variance. Work site location was determined by the applicant and from the application information submitted. If the location is incorrect, then the applicant shall adjust the notification area to meet the impact radius.
PART III

CITY OF TACOMA

EQUITY IN CONTRACTING PROGRAM
PART III

CITY OF TACOMA
EQUITY IN CONTRACTING PROGRAM
CITY OF TACOMA EQUITY IN CONTRACTING (EIC) AND LEAP PROGRAMS

Bidders Special Instructions

As part of the City of Tacoma's ongoing work to address past disparities and to increase the City’s contracting with and utilization of historically underutilized businesses, the Equity in Contracting (EIC) Program places requirements on City contracts for utilization of businesses certified by the Washington State Office of Minority and Women’s Business Enterprise (OMWBE) and approved by the Equity in Contracting Program (“Certified Businesses”). The EIC Program also provides guidance and technical assistance to Certified Businesses who are interested in providing supplies, services and public works to the City of Tacoma.

The EIC Program requirements are contained in Tacoma Municipal Code Chapter 1.07.

Contractors bidding on City of Tacoma projects are required to meet the stated EIC requirements. Bids will be evaluated on an individual basis to determine EIC compliance. A contractor who fails to meet the stated EIC requirements will be considered non-responsible. Bidders are also subject to the City’s Equal Employment Opportunity policies prohibiting discrimination.

All EIC requirements are met by using certified companies from the OMWBE Directory.

- To fulfill SBEs requirements, bidders can use SBEs and/or DBEs from the OMWBE directory*.
- To fulfill WBE requirements, bidders can use WBEs from the OMWBE directory*.
- To fulfill MBE requirements, bidders will use MBEs from the OMWBE directory*.

*To consult the OMWBE Directory, click here: OMWBE website.

It is the bidder’s responsibility to ensure that their firm or identified subcontractors are certified by OMWBE and approved by the City of Tacoma EIC Program at the time of bid submittal. Business certification may be verified by contacting the EIC Office*.

For the OMWBE list, be sure to look for businesses in Pierce, King, Lewis, Mason, Grays Harbor, Thurston, or any counties adjacent to the county in which the work is performed per 1.07.050(2)(b-c). Contact the EIC Office* if you have any questions.

The Equity in Contracting (EIC) forms included in these bid documents must be fully completed (including attachments) and included with bid submittals. Failure to include the required forms will result in the submittal being rejected as non-responsive.
Post-Award Important Information

For all contracts that have requirements related to the EIC and LEAP policies, the City of Tacoma is utilizing two cloud-based software systems:

- **B2Gnow** - Contractors and subcontractors must report payment information in the B2Gnow System on a monthly basis. The EIC Staff will monitor/audit that retainage is paid by the prime contractor to the subcontractor(s) within 10 [working] days after the subcontractors’ work is satisfactorily completed. This will be monitored/audited using the B2Gnow System.

- **LCP Tracker** - This system must be used for submitting certified payroll(s) for both EIC and LEAP compliance.

Both systems are monitored/audited by EIC and LEAP staff to ensure contract compliance, proactively identify potential issues and track contract progress.

*EIC & LEAP STAFF Contact Information*

- For questions regarding Certifications, EIC Compliance and B2GNow support, contact EIC Staff:
  - Malika Godo at (253) 591-5630, or via email at mgodo@cityoftacoma.org
  - Gary Lizama at (253) 591-5826, or via email at glizama@cityoftacoma.org

- For questions in regards to LEAP compliance and LCP Tracker support, contact LEAP Staff:
  - Deborah Trevorrow at (253) 591-5590, or via email at dtrevorrow@cityoftacoma.org
EIC REQUIREMENT FORM

EQUITY IN CONTRACTING REQUIREMENTS & PROCEDURES:

All bidders must complete and submit with their bid the following solicitation form contained in the bid submittal package:

City of Tacoma – EIC Utilization Form

IMPORTANT NOTE:

It is the bidder’s responsibility to ensure that the subcontractor(s) listed on the EIC Utilization Form are currently certified by the State of Washington’s Office of Minority and Women Business Enterprises (OMWBE) at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5630 between 8 AM and 5 PM, Monday through Friday or the OMWBE Office at (866) 208-1064. Please refer to the City of Tacoma EIC code.

<table>
<thead>
<tr>
<th>Equity in Contracting Requirements</th>
<th>Minority Business Enterprise Requirement</th>
<th>Women Business Enterprise Requirement</th>
<th>Small Business Enterprise Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>11%</td>
<td>8%</td>
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A list of EIC-eligible companies is available on the following web site addresses:

[www.omwbe.diversitycompliance.com]*

MATERIAL MISSTATEMENTS CONCERNING COMPLETED ACTIONS BY THE BIDDER IN ANY SWORN STATEMENT OR FAILURE TO MEET COMMITMENTS AS INDICATED ON THE EIC UTILIZATION FORM MAY RENDER THE BIDDER IN DEFAULT OF CITY ORDINANCE 1.07

CCD/SBE: PW22-0012F
Date of Record: 02/28/2022

*For the OMWBE list, be sure to look for businesses in Pierce, King, Lewis, Mason, Grays Harbor, Thurston, or any counties adjacent to the county in which the work is performed per 1.07.050(2)(b-c). Contact the EIC Office if you have any questions.
EQUITY IN CONTRACTING UTILIZATION FORM

This form is to document only the contractors, subcontractors, which are intended to be used to meet the stated EIC requirements for the contract awarded from this solicitation. This information will be used to determine contract award. Additional forms may be used if needed.

- You must include this form with your bid submittal in order for your bid to be responsive.
- Prime contractors are required to solicit bids from Certified Businesses approved by the Washington State Office of Minority & Women’s Business Enterprises (OMWBE).
- It is the prime contractor’s responsibility to check the certification status of the firms intended to be utilized prior to the submittal deadline.

Bidder’s Name: ____________________________
Address: ____________________________ City/State/Zip: ____________________________

Spec. No. _________________ Base Bid * $ ________________

Complete company names and phone numbers are required to verify your usage of qualifying firms.

<table>
<thead>
<tr>
<th>a. Company Name and Certification Number(s)</th>
<th>b. MBE, WBE, or SBE (Write all that apply)</th>
<th>c. NAICS code(s)</th>
<th>d. Contractor Bid Amount (100%)</th>
<th>e. Material Supplier Bid Amount (20%)</th>
<th>f. Estimated MBE Usage Dollar Amount</th>
<th>g. Estimated WBE Usage Dollar Amount</th>
<th>h. Estimated SBE Usage Dollar Amount</th>
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</table>

i. MBE Utilization %  j. WBE Utilization %  k. SBE Utilization %

By signing and submitting this form the bidder certifies that the Certified Businesses listed will be used on this project including all applicable change orders.

Type or Print Name of Responsible Officer / Title ____________________________

Signature of Responsible Officer ____________________________ Date ____________________________

CCD/SBE/FORMS revised March 2022
INSTRUCTIONS FOR COMPLETING
EIC UTILIZATION FORM

The purpose of these instructions is to assist bidders in properly completing the EIC Utilization Form.

This form when submitted with your bid provides information to the City of Tacoma to accurately review and evaluate your proposed EIC usage.

1. * Base Bid is the prime contractor’s bid, plus any alternates, additives and deductive selected by the City. Also, please refer to Items #10-12 below.

2. Column “a” – List all Certified Businesses that you will be awarding a contract to if you are the successful bidder.

3. Column "b" – Identify if this firm is being utilized as an MBE, WBE, or SBE. (Firms may count towards multiple requirements)

4. Column "c" – List the appropriate NAICS code for the scope of work, services, or materials/supplies for each contractor.

5. Column “d” – The bid amount must be indicated for Certified Businesses listed EIC that you plan on doing business with. This quote is the price that you and the contractor have negotiated prior to bid opening.

6. Column “e” – The bid amount must be indicated for Certified Businesses listed EIC that you plan on doing business with. This quote is the price that you and the material supplier have negotiated prior to bid opening.

8. Column "f" – Estimated MBE Usage Dollar Amount: For all MBE firms used, multiply the amount in Column “d” by 1.0 plus the amount in Column “e” by 0.20. Insert the total amount in this column.

9. Column “g” – Estimated WBE Usage Dollar Amount: For all WBE firms used, multiply the amount in Column “d” by 1.0 plus the amount in Column “e” by 0.20. Insert the total amount in this column.

10. Column “h” – Estimated SBE Usage Dollar Amount: For all MBE, WBE, or SBE firms used, Multiply the amount in Column “d” by 1.0 plus the amount in Column “e” by 0.20. Insert the total amount in this column.

11. Block “i” – The percent of actual MBE utilization calculated on the Base Bid only. (Divide the sum of Estimated MBE Usage Dollar Amount (Column “f”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “f” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

12. Block “j” – The percent of actual WBE utilization calculated on the Base Bid only. (Divide the sum of Estimated WBE Usage Dollar Amount (Column “g”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “g” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)
13. Block “k” – The percent of actual SBE utilization calculated on the Base Bid only. (Divide the sum of Estimated SBE Usage Dollar Amount (Column “h”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “h” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

It is the prime contractor’s responsibility to check the status of Certified Businesses prior to bid opening. Call the EIC Office at 253-591-5630 for additional information.
PART IV

LOCAL EMPLOYMENT

AND

APPRENTICESHIP

TRAINING PROGRAM (LEAP)

REGULATIONS

FOR

PUBLIC WORKS CONTRACTS
LEAP
LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM
ABBREVIATED PROGRAM REQUIREMENTS

LEAP is a mandatory City of Tacoma program adopted to provide employment opportunities for City of Tacoma residents and residents of Economically Distressed Areas of the Tacoma Public Utilities Service Area. It requires Contractors performing qualifying public works projects or service contracts to ensure that 15 percent of the total labor hours worked on the project are performed by LEAP-Qualified Pierce County apprentices approved by the Washington State Apprenticeship Council (SAC), youth, veterans and/or residents of Tacoma. Compliance may be met through any combination LEAP-Qualified employees. The Prime Contractor shall be solely responsible for meeting the LEAP Utilization Goal requirements.

Prime Contractors may obtain further information by contacting the City of Tacoma’s LEAP Coordinator, Deborah Trevorrow, at (253) 591-5590, or e-mail leap@cityoftacoma.org. The LEAP Coordinator can assist contractors in the recruitment of qualified entry-level workers to work on City of Tacoma Public Works projects. The LEAP Office is in the Tacoma Municipal Building, 747 Market Street, Rm 808.

LEAP PROGRAM REQUIREMENTS:

1. LOCAL EMPLOYMENT GOAL: The Contractor is required to ensure that 15 percent of the total Labor Hours worked on the project are performed by residents of the City of Tacoma or Economically Distressed ZIP Codes for the following projects:
   a) Civil Projects over $250,000
   b) Building Projects over $750,000

2. APPRENTICE GOAL: The Contractor is required to ensure that 15 percent of the total Labor Hours worked on any project over $1,000,000 are performed by Apprentices who are residents of the Tacoma Public Utilities Service Area.

3. SUBCONTRACTOR NOTIFICATION: Prime Contractors shall notify all Subcontractors of the LEAP Program requirement. Subcontractor labor hours may be utilized towards achievement of the LUG. Owner/Operator hours may be used for the Local Employment Goal.

4. FAILURE TO MEET LEAP UTILIZATION GOAL: Contractors shall be assessed an amount for each hour that is not achieved. The amount per hour shall be based on the extent the Contractor met its goal. The amount per hour that shall be assessed shall be as follows:
   - 100% achievement $0.00 penalty
   - 99% to 90% achievement $2.00 penalty
   - 89% to 75% achievement $3.50 penalty
   - 74% to 50% achievement $5.00 penalty
   - 49% to 1% achievement $7.50 penalty
   - 0% achievement $10.00 penalty

*Penalty may be waived in the best interests of the City of Tacoma.

LEAP DOCUMENT SUBMITTALS**:

1. PRIME CONTRACTOR LEAP UTILIZATION PLAN (PCLUP): The Contractor is required to provide the PCLUP at the Pre-Construction meeting showing the goals to be achieved for the project. The Contractor must identify in the PCLUP the estimated labor hours to be worked on the project by trade/craft persons.
2. **LEAP EMPLOYEE VERIFICATION FORM**: The Contractor must provide the LEAP Office with a form for every person whom the contractor will claim credit towards meeting the LUG with at least one piece of verifying documentation.

3. **LEAP WEEKLY PAYROLL REPORT**: The Prime and Subcontractors must complete and attach this form to the front of each weekly certified payroll when submitting to the LEAP Office for review.

4. **WEEKLY CERTIFIED PAYROLL**: The Prime and Subcontractors must submit weekly Certified Payrolls that include, employee name, address, social security number, craft/trade, class, hours worked on this job, rate of pay, and gross wages paid including benefits for this job.

5. **L&I STATEMENT OF INTENT TO PAY PREVAILING WAGE FORM**: The LEAP Office shall be provided with a copy for every contractor on the project.

6. **L&I AFFIDAVIT OF WAGES PAID FORM**: The LEAP Office shall be provided with a copy for every contractor on the project.

**WITHHOLDING PROGRESS PAYMENTS**: The LEAP Coordinator may withhold progress payments for failure to submit required forms.
Chapter 1.90
LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM

Sections:
1.90.010 Purpose.
1.90.020 Scope.
1.90.030 Definitions.
1.90.040 LEAP goals.
1.90.050 Repealed.
1.90.060 Effect of program on prime contractor/subcontractor relationship.
1.90.070 Apprentice utilization requirements – Bidding and contractual documents.
1.90.080 Enforcement.
1.90.090 Compliance with applicable law.
1.90.100 Review and reporting.
1.90.105 Authority
1.90.110 Interpretation.

1.90.010 Purpose.
The purpose of this Chapter is to establish a means of providing for the development of a trained and capable workforce possessing the skills necessary to fully participate in the construction trades.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.020 Scope.
The provisions of this Chapter shall apply to all Public Works or Improvements funded in whole or in part with City funds or funds which the City expends or administers in accordance with the terms of a grant.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.030 Definitions.
As used in this chapter, the following terms shall have the following meanings:

A. “Apprentice” shall mean a person enrolled in a course of training specific to a particular construction trade or craft, which training shall be approved by the Washington State Apprenticeship and Training Council established pursuant to RCW 49.04.010.

B. “Building Projects” shall mean all Public Works or Improvements having an Estimated Cost greater than $750,000.00, and for which a building permit must be issued pursuant to Chapter 1 of the current edition of the state building code (Uniform Building Code).

C. “City” shall mean all divisions and departments of the City of Tacoma, and all affiliated agencies, provided, however, that the Tacoma Community Redevelopment Authority shall not be included within this definition.

D. “Civil Projects” shall mean all Public Works or Improvements that are not defined as a “Building Project,” provided that those projects having an Estimated Cost of less than $250,000.00 shall not be included in this definition.

E. “Contractor or Service Provider” means a person, corporation, partnership, or joint venture entering into a contract with the City to construct a Public Work or Improvement.

F. “Director” shall mean the Director of Community and Economic Development, or the Director’s Designee.

G. “Economically Distressed ZIP Codes” shall mean ZIP codes in the Tacoma Public Utilities Service Area that meet two out of three (2/3) of the thresholds of:

1. High concentrations of residents living under 200% of the federal poverty line in terms of persons per acre (69th percentile)
2. High concentrations of unemployed people in terms of persons per acre (45th percentile)
3. High concentrations of people 25 years or older without a college degree in terms of persons per acre (75th percentile)

Said thresholds shall be updated within 30 days following any Prevailing Wage updates issued by the Washington State Labor and Industry. All updates are to be published on the first business day in August and in February of each calendar year.

H. “Electrical Utility” and “Water Utility” shall mean, respectively, the Light Division of the Department of Public Utilities of the City of Tacoma, and shall include the electrical and telecommunications services of that Division, and the Water Division of the Department of Public Utilities of the City of Tacoma.

I. “Estimated Cost” shall mean the anticipated cost of a Public Work or Improvement, as determined by the City, based upon the expected costs of materials, supplies, equipment, and labor, but excluding taxes and contingency funds.

J. “Estimated Labor Hours” shall mean the anticipated number of Labor Hours determined by the City to be necessary to construct a Public Work or Improvement and set forth in the specifications for the project, or as may be subsequently revised due to contract or project adjustment, or pursuant to an agreed upon change order.

K. “Existing Employee” shall mean an employee whom the Contractor or Service Provider can demonstrate was actively employed by the Contractor or Service Provider for at least 1000 hours in the calendar year prior to bid opening plus one month following bid opening, and who was performing work in the construction trades.

L. “Labor Hours” shall mean the actual number of hours worked by workers receiving an hourly wage who are employed on the site of a Public Work or Improvement, and who are subject to state or federal prevailing wage requirements. The term “Labor Hours” shall include hours performed by workers employed by the Contractor or Service Provider and all Subcontractors, and shall include additional hours worked as a result of a contract or project adjustment or pursuant to an agreed upon change order. The term “Labor Hours” shall not include hours worked by workers who are not subject to the prevailing wage requirements set forth in either RCW 39.12 or the Davis-Bacon Act - 40 U.S.C. 276 (a).

M. “LEAP Coordinator” shall mean the City of Tacoma staff member who administers LEAP.

N. “LEAP Program” or “Program” shall mean the City of Tacoma’s Local Employment and Apprenticeship Training Program, as described in this chapter.

O. “LEAP Regulations” or “Regulations” shall mean the rules and practices established in this document.

P. “LEAP Utilization Plan” shall mean the document submitted by the Contractor to the LEAP Coordinator which outlines how the associated goals will be met on the project.

Q. “Priority Hire Resident” shall mean any resident within the Economically Distressed ZIP Codes.

R. “Project Engineer” shall mean the City employee who directly supervises the engineering or administration of a particular construction project subject to this chapter.

S. “Public Work or Improvement” shall have the same meaning as provided in Section 39.04.010 RCW, as that Section may now exist or hereafter be amended.

T. “Resident of Tacoma” shall mean any person, not defined as a Resident of the Economically Distressed ZIP Codes within the Tacoma Public Utilities Service Area, who continues to occupy a dwelling within the boundaries of the City of Tacoma, has a present intent to continue residency within the boundaries of the City, and who demonstrates the genuineness of that intent by producing evidence that the person’s presence is more than merely transitory in nature.

U. “Service Area - Electrical” or “Electrical Service Area” shall mean that area served with retail sales by the Electrical Utility of the City of Tacoma at the time a bid is published by the Electrical Utility for a Public Work or Improvement to be performed primarily for the Electrical Utility.

V. “Service Area - Water” or “Water Service Area” shall mean that area served with retail sales by the Water Utility of the City of Tacoma at the time a bid is published by the water utility for a Public Work or Improvement to be performed primarily for the Water Utility.
W. “Service Contract” shall mean all City contracts relating to a Public Work or Improvement which utilize labor at a City site and which are not within the exceptions to nor defined as “Building Projects” or “Civil Projects.”

X. “Subcontractor” means a person, corporation, partnership, or joint venture that has contracted with the Contractor or Service Provider to perform all or part of the work to construct a Public Work or Improvement by a Contractor.

Y. “Tacoma Public Utilities Service Area” shall mean every ZIP code listed by Tacoma Public Utilities as an area that either receives services or maintains infrastructure to provide services.

Z. Washington State Labor and Industry Prevailing Wage shall mean the hourly wage, usual benefits and overtime, paid in the largest city in each county, to the majority of workers, laborers, and mechanics. Prevailing wages are established, by the Department of Labor & Industries, for each trade and occupation employed in the performance of public work. They are established separately for each county, and are reflective of local wage conditions.

AA. “Tacoma Public Utilities” means the City of Tacoma, Department of Public Utilities.


1.90.040 LEAP goals.

A. Utilization Goals.

1. All Contractors constructing Civil Projects or Building Projects, and all Service Providers involved with the construction of a Public Work or Improvement, shall ensure that at least 15 percent of the total Labor Hours actually worked on the Project are performed by persons having their residence within the boundaries of the City of Tacoma or Economically Distressed ZIP Codes, whether or not any such person is an Apprentice.

a. The thresholds for this section shall be $250,000.00 for Civil Projects and $750,000.00 for Building Projects.

2. Fifteen percent (15%) of the Total Labor Hours on contracts above one-million dollars ($1,000,000.00) shall have work performed by Apprentices who are residents of the Tacoma Public Utilities Service Area consistent with RCW 39.04.320(1)(a), subject to waiver based on exceptions as specified in RCW 39.04.320(2)(a), (b), and (c).

3. Labor Hours performed by non-residents of the State of Washington will be deducted from a project’s total Labor Hours for purposes of determining compliance with the requirements of this chapter.

4. All Contractors and Service Providers shall submit a LEAP Utilization Plan as provided for in the regulations adopted under this chapter, and shall meet with the LEAP Coordinator to review said Plan prior to being issued a Notice to Proceed. Failure to submit a LEAP Utilization Plan may be grounds for the City to withhold remittance of a progress payment until such Plan is received from the responsible Contractor or Provider. A meeting with the LEAP Coordinator prior to issuance of a Notice to Proceed shall be excused only when the LEAP Coordinator is unavailable to meet prior to the scheduled date for issuance of the Notice to Proceed and the Contractor and the LEAP Coordinator have otherwise scheduled a meeting for the coordinator to review the Contractor’s or Provider’s plan.

The Contractor or Service Provider shall be responsible for meeting the LEAP utilization goal requirements of the contract, including all amendments and change orders thereto, and shall be responsible for overall compliance for all hours worked by Subcontractors. To the extent possible, the Contractor or Service Provider shall recruit Apprentices from multiple trades or crafts.

B. Failure to Meet Utilization Goal.

1. Contracts for the construction of Building projects or Civil Projects and Service Contracts shall provide that Contractors or Service Providers failing to meet the LEAP utilization goals shall be assessed an amount for each hour that is not achieved. The amount per hour shall be based on the extent the Contractor or Service Provider met its goal. The amount per hour shall be assessed shall be as follows:
Percent of Goal Met | Assessment per unmet hour
--- | ---
100% | $ 0.00
90% - 99% | $ 2.00
75% to 89% | $ 3.50
50% to 74% | $ 5.00
1% to 49% | $ 7.50
0% | $10.00

When determining the percent of goal that is met, all rounding shall be down to the nearest whole percent. No penalty shall be waived by the City unless it is determined by the Director to be in the best interests of the City, which determination shall be made after consultation with the LEAP Coordinator.

2. Deposit of Assessments. All assessments imposed pursuant to this section shall be deposited into a separate account and utilized to support the City’s pre-apprenticeship and training program. The policies and regulations adopted by the City Manager and Director of Utilities pursuant to this chapter shall address issues pertaining to a Contractor’s existing workforce. Contributions need not be made for Labor Hours that have been adjusted in accordance with Section 1.90.040(E).

C. LEAP Reports. Notwithstanding the provisions of TMC 1.90.100, the Director shall, not less than annually, publish a LEAP report setting forth Contractor compliance with this chapter. Said report shall include information on all contracts and all Contractors to which this chapter applies, and shall detail the level and nature of LEAP participation by contract and by Contractor, The Director’s LEAP report may include such other information as may be helpful to assuring fair and accurate representation of the contracts, Contractors or projects covered in the report. The Director’s LEAP reports may be considered by the Board of Contracts and Awards in its determinations as to bidder responsibility.

D. LEAP Goal Adjustments.

1. LEAP utilization goals may be adjusted prior to bid opening and/or as a result of a contract amendment or change order on a Building Project, Civil Project, or Service Contract.

   a. If LEAP utilization goals are adjusted prior to bid opening, they shall be set forth in the bid or Request For Proposal advertisement and specification documents or in an addendum timely provided to prospective bidders, provided that such adjustment shall be based upon a finding by the Project Engineer that the reasonable and necessary requirements of the contract render LEAP utilization unfeasible at the required levels. The Director shall concur with the Project Engineer’s finding, provided that should the Project Engineer and the Director fail to reach agreement on the Project Engineer’s finding, then in that circumstance the matter shall be referred to the City Manager or the Director of Utilities, as appropriate, for ultimate resolution. Notwithstanding any other provision of this chapter to the contrary, the decision of the City Manager or the Director of Utilities with regard to LEAP goal adjustment may not be appealed.

   b. If LEAP utilization goals are adjusted due to contract amendment or change order, the amount of adjustment shall be consistent with the utilization goals set forth in this chapter and shall be determined pursuant to regulations adopted pursuant to this chapter for administration of LEAP utilization goal adjustments.

2. The methodology of determining the appropriate adjustments to LEAP utilization goals shall be determined in consultation with the LEAP Advisory Committee, established pursuant to this ordinance for so long as the LEAP Advisory Committee remains in existence.

3. LEAP utilization goals shall not apply to those portions of a project that are funded by sources other than (a) City funds, or (b) funds which the City expends or administers in accordance with the terms of a grant to the City, provided that the Project Engineer shall notify the Director of such non-application prior to bid advertisement. For the purposes of this paragraph, credits extended by another entity for the purpose of providing project funding shall not be considered to be City funds.

E. Utilization - Electrical Projects Outside Electrical Service Area. Civil Projects or Building Projects that are constructed primarily for the benefit or use by the City’s Electrical Utility, which are wholly situated outside the
Electrical Service Area, and for which the estimated cost is less than $1,000,000.00, are exempt from the requirements of this chapter.

F. Utilization - Water Projects Outside Water Service Area. Civil Projects or Building Projects that are constructed primarily for the benefit or use by the City’s Water Utility, which are wholly situated outside the Water Service Area, and for which the estimated cost is less than $1,000,000.00 are exempt from the requirements of this chapter.

G. Utilization – Projects Outside Tacoma Public Utilities Service Area. Civil Projects or Building Projects that are constructed primarily for the benefit or use by Tacoma Public Utilities, which are wholly situated outside the retail service area of the Tacoma Public Utilities Service Area, and for which the estimated cost is less than $1,000,000.00, shall be exempt from 15% utilization goal specified in subsection A1. of this section. Projects wholly situated outside the Tacoma Public Utilities Service Area, and for which the estimated cost is more than $1,000,000.00, shall be exempt from 15% utilization goal specified in subsection A2. of this section may be met if project work is performed by Apprentices who are enrolled in a course of training specific to a particular construction trade or craft, provided such training has been approved by the Washington State Apprenticeship and Training Council in accordance with Chapter 49.04, RCW.

H. Emergency. This chapter shall not apply in the event of an Emergency. For the purposes of this section, an "Emergency" means unforeseen circumstances beyond the control of the City that either: (a) present a real, immediate threat to the proper performance of essential functions; or (b) will likely result in material loss or damage to property, bodily injury, or loss of life if immediate action is not taken.

I. Conflict with State or Federal Requirements. If any part of this chapter is found to be in conflict with federal or state requirements which are a prescribed condition to the allocation of federal or state funds to the City, then the conflicting part of this chapter is inoperative solely to the extent of the conflict and with respect to the City departments directly affected. This provision does not affect the operation of the remainder of this chapter. Administrative rules or regulations adopted under this chapter shall meet federal and state requirements which are a necessary condition to the receipt of federal or state funds by the City.


1.90.050 Good faith efforts. Repealed by Ord. 27368.

1.90.060 Effect of program on prime contractor/service provider - subcontractor relationship. The LEAP Program shall not be construed so as to modify or interfere with any relationship between any Contractor or Service Provider and Subcontractor. The LEAP Program shall not grant the City any authority to control the manner or method of accomplishing any construction work that is additional to any authority retained by the City in a Public Works or Improvement contract.

1.90.070 Apprentice utilization requirements – Bidding and contractual documents. All packages of bid documents for every Building Project and every Civil Project shall incorporate provisions satisfactory to the City Attorney so as to allow enforcement of the provisions contained in this Chapter. Such contractual provisions may include liquidated damages, calculated to reimburse the City for the Contractor’s breach of these performance requirements, which shall be published with the City’s call for bids.

1.90.080 Enforcement. A. The Director shall review the Contractor’s or Service Provider’s and all Subcontractor’s employment practices during the performance of the work for compliance with LEAP Program requirements. On-site visits may be conducted as necessary to verify compliance with the requirements of the LEAP Program. The Contractor, Service Provider, or Subcontractors shall not deny to the City the right to interview its employees, provided that the Director shall make reasonable efforts to coordinate employee interviews with employers.
B. Any knowing failure or refusal to cooperate in compliance monitoring may disqualify the defaulting Contractor, Service Provider, or Subcontractor from eligibility for other City contracts.

C. The making of any material misrepresentation may disqualify the defaulting Contractor, Service Provider, or Subcontractor from eligibility for other City contracts.

D. Any action by the City, its officers and employees, under the provisions of this Chapter may be reviewed by the Board of Contracts and Awards, upon written application of the party so affected. Application shall be made within twenty (20) days of the date of the action upon which the appeal is based, and provided to the City by certified mail or by personal service. Any action taken by the Board of Contracts and Awards may be appealed to the City Council or Public Utility Board, as appropriate, and thereafter if desired, to the Superior Court of Pierce County, Washington, within fifteen (15) days of the previous decision.

(Ord. 26698 § 5; passed Sept. 12, 2000; Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.090 Compliance with applicable law.
Nothing in this Chapter shall excuse a Prime Contractor, Service Provider, or Subcontractor from complying with all relevant federal, state, and local laws.

(Ord. 26698 § 6; passed Sept. 12, 2000; Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.100 Review and reporting.
The City Manager and Director of Utilities shall review the Program on or before January 1, 2000, and every two (2) years thereafter, and shall report to the City Council and Public Utility Board the Manager’s and Director’s findings, conclusions, and recommendations as to the continued need for the Program, and any revisions thereto that should be considered by the Council and Board.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.105 Authority.
The City Manager and the Director of Utilities shall have authority to jointly adopt policies and regulations consistent with this chapter to implement the LEAP program.

(Ord. 26698 § 7; passed Sept. 12, 2000; Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.110 Interpretation.
This Chapter shall not be interpreted or construed so as to conflict with any state or federal law, nor shall this Chapter be enforced such that enforcement results in the violation of any applicable judicial order.

(Ord. 26301 § 1; passed Oct. 6, 1998)
LOCAL EMPLOYMENT AND APPRENTICESHIP
TRAINING PROGRAM (LEAP)

LEAP REQUIREMENTS & PROCEDURES:

The LEAP office enforces post-award mandatory requirements. Bidders do not have to submit any information in the bid submittal package to be in compliance with LEAP.

Post-award Submittals:

- *Prime Contractor LEAP Utilization Plan.* This form is to be completed and presented at the Pre-Construction Meeting.
- *LEAP Employee Verification Form.* This form is to be completed for every qualifying LEAP employee.
- *LEAP Weekly Payroll Report.* This form is to be completed and submitted with each certified payroll.

The City of Tacoma’s LEAP office enforces two mandatory requirements on City projects based on certain monetary thresholds.

Local Employment Utilization Goal - the Prime Contractor performing a qualifying public works project must ensure that 15 percent of the total labor hours worked on the project are performed by residents of the City of Tacoma or Economically Distressed Zip Codes whether or not any such person is an apprentice.

Apprenticeship Utilization Goal – for contracts above one-million dollars, the Prime Contractor performing a qualifying public works project must ensure that 15 percent of the total labor hours worked on the project are performed by Apprentices who are residents of the City of Tacoma or Tacoma Public Utilities Service Area. The accompanying LEAP Regulations, forms, and maps are included in these specifications.

*Exceptions: If the project is located outside of the retail service area of the Tacoma Public Utilities Service Area, then Apprentices may come from the county in which the work is performed.

This project is above $1 million and is thusly subject to the:

1. 15% Local Employment Utilization Goal
2. 15% Apprentice Utilization Goal

LEAP staff can assist contractors in the recruitment, screening and selection of qualified City of Tacoma residents, Economically Distressed Area residents, and Apprentices. Contractors may obtain further information by contacting the City’s LEAP Office at (253) 316-3057 or (253) 591-5590. The LEAP Office is located in the Tacoma Municipal Building, 747 Market Street, Room 900, Tacoma, WA 98402. www.cityoftacoma.org/leap

Revised 02-2022 DT
# PRIME CONTRACTOR
## LEAP UTILIZATION PLAN

Failure to submit this plan at the Pre-Construction Meeting may result in Progress Payments being withheld.

### Part A

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<td>Specification Number:</td>
<td>Contract/Work Order Number(s):</td>
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### Part B

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<th>Tacoma Public Utilities Service Area Apprentice Resident</th>
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**Rejected**

**Date**

**Totals**

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<th>TOTAL hrs.</th>
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### Part C

Provide a description of how the Contractor plans to ensure that the LEAP Utilization Requirements on the project will be met. *(Use additional sheets if necessary)*

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Revised 01/2011 DT
General Instructions for completing Prime Contractor LEAP Utilization Plan

Part A
Contractor/Contract Information Section: The Prime Contractor is responsible for completing this section. Failure to submit this plan at the Pre-Construction Meeting may result in Progress Payments being withheld.

Part B
Planned LEAP Hours Section: This section should be completed by the Prime Contractor. The information required in Part B is described below.

Trade or Craft: Indicate the Trade or Craft being used.

LEAP Employee Categories: Indicate the number of hours that will be utilized by the Prime Contractor and all Sub Contractors for each craft and broken down by City of Tacoma Resident, City of Tacoma Apprentice, Youth, or Veteran, Pierce County Apprentice, Youth, or Veteran.

For Watershed Projects: King County Apprentice – Approved by Washington State and/or Seattle Renewal Community (CEZ) Resident.

For Hydro Projects: Area Residents (residing in either Pierce County or the County where the work is performed: Lewis, Mason, Grays Harbor or Thurston County), Tacoma Community Empowerment Zone Resident, City of Tacoma Residents.

Totals: Total the number of hours in each of the six (6) columns.

Total Planned LEAP Utilization Hours: This is the total number of hours planned on this project to satisfy the LEAP Utilization Requirement.

Part C
Description of how the Contractor plans to ensure fulfillment of the LEAP Utilization Requirement: This section is to be completed by the Prime Contractor. Please describe how you plan to satisfy the LEAP Utilization Requirement on this project. Provide a summary of your outreach and recruitment procedures to hire LEAP Qualified Employees to work on this project.
LEAP

Document Submittal Schedule

In the attached packet, you will find the LEAP forms that are required to be submitted by the Prime and Sub Contractors.

- **LEAP Abbreviated Program Requirements**: brief overview of LEAP Program requirements
- **Prime Contractor LEAP Utilization Plan**: to be submitted at the Pre-Construction Meeting *(Required by Prime Contractor Only)*
- **LEAP Employee Verification Form**: to be submitted on an ongoing basis for each qualified LEAP employee
- **LEAP Weekly Payroll Report**: must be attached and filled out to the front of each certified payroll
- **Tacoma Public Utilities Service Area Map, Economically Distressed ZIP Codes Map**: for your reference on LEAP-qualified zoning areas

In addition, the City of Tacoma will also require from the Prime Contractor and all its Subcontractors:

- **Weekly Certified Payrolls**: to be submitted via LCP Tracker weekly, biweekly or monthly with the LEAP Payroll Report attached as scheduled by the Prime
- **Statement of Intent to Pay Prevailing Wages**: to be submitted prior to commencing work
- **Affidavit of Wages Paid**: to be submitted upon completion of each contractor’s work
- **Local Resident/Pierce County Apprentice (State – Approved) Employee Verification Form**: to be submitted on an ongoing basis for each qualified LEAP employee
- **Document Verification**: provide required information when requested from LEAP Office

Please submit above documents as instructed by the LEAP Coordinator.

If you have any questions or request further information, please feel free to contact the City of Tacoma’s LEAP Program at (253) 591-5590 or email dtrevorrow@cityoftacoma.org
No Work Performed (NWP) Report

Prime/Sub Contractor: ___________________________________________________________

Specification Number: ___________________________________________________________

Project Description: _____________________________________________________________

Payroll Week Ending Date: __________________________           Payroll Number: __________

NO WORK PERFORMED

I, the undersigned, do hereby certify under penalty of perjury, that the information contained herein is true and correct.

_________________________         ______________________       __________
Signature of Responsible Officer     Title              Date
LEAP EMPLOYEE VERIFICATION FORM

Contractor/Sub: ___________________________  Specification Number: ___________________________

Project Description: ______________________________________________________________________

Employee Name: ___________________________  Craft: ___________________________

Ethnic Group (optional):  ☐ Asian/Pac Isl.  ☐ Black  ☐ Hispanic  ☐ Native American  ☐ White  ☐ Other

Gender (optional):  ☐ MALE      ☐ FEMALE

Complete Physical Address (No PO Boxes): ______________________________________________________

City: ___________  State: _______  Zip: _______  Telephone: ___________  Date of Hire: ___________

Apprenticeship County: ___________  Apprentice Registration I.D. (if applicable): __________________

Youth 18 – 24?  Age: _______  Veteran?  Copy of DD-214: _______

*******Please fill out entire form for tracking LEAP performance*******

LEAP qualified employee categories: (check all that apply and provide evidence for each check)

_____ a. Resident within the geographic boundaries of the City of Tacoma

_____ b. Resident within Economically Distressed ZIP Codes of the Tacoma Public Utilities Service Area

_____ c. WA State Approved Apprentice living in Tacoma Public Utilities Service Area

_____ d. WA State Approved Apprentice *(Only valid for contracts where 100% of work is performed outside of Pierce County)

Signature of Employee: ___________________________  Date: __________________________

Contractor Representative: ___________________________  Date: __________________________
LEAP EMPLOYEE VERIFICATION FORM

To be Completed by Contractor or Subcontractor

Please attach a legible copy of the following document(s) showing the address of residence as proof of local (Tacoma) and/or Pierce County residency and apprentice status, youth status, or veteran status.

For Youth - Copy of Birth Certificate or WA State ID or WA Driver’s License (projects advertised after 05-20-13)
For Veterans – Copy of DD-214
Driver’s License with current address
Utility Bill/Phone Bill/Cell Bill/Cable Bill with current address
Copy of current tax form W-4
Rental Agreement/Lease (residential)
Computer Printout from Other Government Agencies
Property Tax Records
Apprentice Registration I.D.
Food Stamp Award Letter
Housing Authority Verification
Insurance Policy (Residence/Auto)

*Any of the above must have a complete physical address verified by the www.govme.org website.
No PO Boxes

Contractor Representative: _______________________________ Date: __________________

Title: ____________________________________________________________
Appendix C: Economically Distressed ZIP Codes Map
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Updated 11/2020: CA
Economically Distressed ZIP Codes
(Journeyman AND Apprentice)

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Updated 11/2020: CA
PART V

STATE PREVAILING WAGE RATES AND GENERAL REQUIREMENTS
PREVAILING WAGE RATES

This project requires prevailing wages under 39.12 RCW. Any worker, laborer, or mechanic employed in the performance of any part of the work shall be paid not less than the applicable prevailing rate of wage.

The project site is located in Pierce County.

The effective date for prevailing wages on this project will be the submittal deadline with these exceptions:
   a. If the project is not awarded within six months of the submittal deadline, the award date is the effective date.
   b. If the project is not awarded pursuant to a competitive solicitation, the date the contract is executed is the effective date.
   c. Janitorial contracts follow WAC 296-127-023.

Except for janitorial contracts, these rates shall apply for the duration of the contract unless otherwise noted in the solicitation.

Look up prevailing rates of pay, benefits, and overtime codes from this link:  
https://secure.lni.wa.gov/wagelookup/

REQUIRED FILINGS

The contractor and all subcontractors covered under 39.12 RCW shall submit to the Department of Labor and Industries (L&I) for work provided under this contract:

1. A Statement of Intent to Pay Prevailing Wages must be filed with and approved by L&I upon award of contract.

2. An Affidavit of Wages Paid must be filed with and approved by L&I upon job completion.

Payments cannot be released by the City until verification of these filings are received by the engineer. Additional information regarding these filings can be obtained by calling the Department of Labor & Industries, Prevailing Wage at 360-902-5335, https://www.lni.wa.gov/ or by visiting their MY L&I account.
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
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.
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 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 Insurance**
Contractor shall provide Excess or Umbrella Liability Insurance with limits not less than Three Million Dollars ($3,000,000) per occurrence and in the aggregate. This coverage shall apply, at a minimum, in excess of primary underlying Commercial General Liability, Employer’s Liability, Pollution 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.