BID DOCUMENTS

City of Yelm
EST. 1924
WASHINGTON

Contract Provisions and Plans

For Construction of:

Downtown Parking Lot

City of Yelm
Public Works Department

March 2024

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PROJECT ENGINEER CERTIFICATION

For Construction of:

Downtown Parking Lot

As the Engineer in direct responsible charge of developing these contract provisions, I certify these provisions have been developed or incorporated into this project under my supervision or as a result of certified specifications provided by other licensed professionals.

_____

Aaron Knight, PE
Project Manager

Date: 3/22/2024

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TABLE OF CONTENTS

APPENDICES

CONTRACT DOCUMENTS

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ADVERTISEMENT FOR BIDS

City of Yelm
Downtown Parking Lot

Sealed bids for the "Downtown Parking Lot" will be received at the City Hall Purchasing Office or by US Mail at City of Yelm, Purchasing Office located at Yelm City Hall, 106 Second St SE, Yelm, WA 98597 until **10:00 am** on **April 11, 2024**. Bid proposals received after 10:00 a.m. on said date will not be considered.

All bids will be tabulated and bid results will be E-mailed to every bidder and posted on Builder's Exchange for this RFB. **There will not be a public bid opening**.

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

The City of Yelm reserves the right to reject any or all bids and to waiver any informalities in the bidding.

This project consists of the Downtown Parking Lot construction and includes grading, paving, and electrical work, for a parking lot bordered by Washington Ave., 3rd Street, and an alley way. Work will also include the construction of stormwater facilities to handle the runoff produced on the proposed parking lot and all other work all in accordance with the Contract Plans, Special Provisions, and the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction and the City of Yelm Standard Drawings and Specifications.

Time for completion of this project is 25 Working Days**.**

The Engineer's estimate is approximately $450,000 to $500,000.

All bid proposals shall be in accordance with the Instructions to Bidders and all other contract documents. All questions must be directed in written form only to Brad Chatwood, PM, by email at BradC@yelmwa.gov by 3:00 pm on Friday, April 5, 2024.

Contract Documents for bidding including Project Presentation, Project Manual, and Addendums may be viewed free of charge, through the Builders Exchange of Washington, www.bxwa.com, and clicking posted projects, public works, and city of Yelm.

Dates of Publication:

Nisqually Valley News:	March 28, 2024, April 4, 2024
Daily Journal of Commerce:	March 28, 2024, April 4, 2024

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BIDDER'S CHECKLIST

Bidder must execute and return with submittal:

1. PROPOSAL FORM - The lump sum bid price must be shown in the space provided. The proposal shall be filled in and signed by the bidder. All addenda must be acknowledged.
2. BID PROPOSAL BOND
3. STATEMENT OF BIDDERS QUALIFICATIONS
4. NON-COLLUSION DECLARATION
5. SUBCONTRACTOR LIST

After the Contract is awarded, execute:

1. CITY OF YELM – PUBLIC SERVICES CONTRACT – A template of the Public Services Contract is included by appendix. A completed, project specific version of the contract will be provided to the Contractor.
2. PERFORMANCE BOND
3. PAYMENT BOND
4. STATEMENT OF INTENT TO PAY PREVAILING WAGES

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PROPOSAL FORM

Bidder: _____

Address: _____

Date: _____

TO: CITY OF YELM
ADDRESS: 106 2nd St SE
Yelm, WA 98597

PROJECT: Downtown Parking Lot

The undersigned hereby certify(ies) that he/they have personally examined the location and construction details of work as outlined on the plans and specifications for **Downtown Parking Lot** and have read and thoroughly understand the plans and specifications and contract governing the work embraced in this improvement and the method by which payment will be made for said work and hereby propose to undertake and complete the work embraced in this improvement in accordance with said plans, specifications, and contract at the attached schedule of rates and unit prices.

ADDENDA

Receipt of Addenda numbers _____ through _____ is hereby acknowledged.

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PROPOSAL FORM (Continued)

Bid Item No.	WSDOT Spec	Item Description	Planned Quantity	Unit	Unit Price	Total
1	1-09	Mobilization	1	L.S.	LUMP SUM	
2	1-04	Minor Change	1	EQ. ADJ.	$15,000	$15,000
3	1-05	Roadway Surveying	1	L.S.	LUMP SUM	
4	1-05	Record Drawings (Min. Bid $1000)	1	L.S.	LUMP SUM	
5	1-07	SPCC Plan	1	L.S.	LUMP SUM	
6	2-02	Removal Of Structures and Obstructions	1	L.S.	LUMP SUM	
7	2-03	Roadway Excavation Incl. Haul	1500	C.Y.		
8	4-04	Crushed Surfacing Top Course	380	C.Y.		
9	5-04	HMA Cl. 1/2 In. Pg 58h-22	370	TON		
10	7-03	Bioretention Facility	1	L.S.	LUMP SUM	
11	8-01	Erosion Control And Water Pollution Prevention	1	L.S.	LUMP SUM	
12	8-02	Topsoil Type A	127	S.Y.		
13	8-02	Bark Or Wood Chip Mulch	187	S.Y.		
14	8-04	Cement Conc. Traffic Curb	211	L.F.		
15	8-04	Extruded Curb	246	L.F.		
16	8-04	Cement Conc. Barrier Curb	120	L.F.		
17	8-04	Manufactured Wheel Stop	26	EACH		
18	8-14	Cement Conc. Sidewalk	80	S.Y.		
19	8-14	Cement Conc. Curb Ramp Type Single Direction Type A	1	EACH		
20	8-20	Electric Vehicle Charging Station System, Complete	1	L.S.	LUMP SUM	
21	8-20	Spare Conduit System, Complete	1	L.S.	LUMP SUM	
22	8-21	Permanent Signing	1	L.S.	LUMP SUM	
23	8-22	Paint Line	1546	L.F.		
24	8-22	Plastic Traffic Arrow	8	EACH		
25	8-22	Painted Access Parking Space Symbol	2	EACH		
26	8-22	Parking Space Identification Marking	4	EACH		
				TOTAL		

Sales Tax shall be included in all items per State Sales Tax – Rule 171

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PROPOSAL FORM (Continued)

IF SOLE PROPRIETOR OR PARTNERSHIP

IN WITNESS hereto, the undersigned has set his (its) hand
this _____ day of _____, 2021.

_____
Signature of Bidder

_____
Title

IF CORPORATION

IN WITNESS WHEREOF, the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers
this _____ day of _____, 20___.

_____
Name of Corporation

_____ By_____
Secretary

Title_____

Sworn to before me this _____ day of _____, 20___.

_____
Notary Public in and for the State of Washington residing at

_____

NOTE:

1. If the Bidder is a co-partnership, so state, giving the name under which business is transacted.
2. If the Bidder is a corporation, this proposal must be executed by the duly authorized officials and notarized.

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PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, That we, _____ of

_____ as principal, and the _____

a corporation duly organized under the laws of the state of _____, and authorized to do business in the State of Washington, as surety, are held and firmly bound unto the City of Yelm in the full and penal sum of five (5) percent of the total amount of the bid proposal of said principal for the work hereinafter described, for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, firmly by these presents.

The condition of this bond is such, that whereas the principal herein is herewith submitting his or its sealed proposal for the following construction Project to wit:

City of Yelm, Downtown Parking Lot

said bid and proposal, by reference thereto, being made a part hereof.

NOW, THEREFORE, If the said proposal bid by said principal be accepted, and the contract be awarded to said principal, and if said principal shall duly make and enter into and execute said contract and shall furnish bond as required by the within a period of twenty (20) days from and after said award, exclusive of the day of such award, then this obligation shall be null and void, otherwise it shall remain and be in full force and effect.

IN TESTIMONY WHEREOF, The principal and surety have caused these presents to be signed and

sealed this _____ day of _____, _____.

_____

_____
(Principal)

_____
(Surety)

_____
(Attorney-in-fact)

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STATEMENT OF BIDDER'S QUALIFICATIONS

Name of Contractor _____

Address _____

Telephone and Contact Person for this Bid _____

Number of years the contractor has been engaged in the construction business under the present firm name indicated: _____

Gross dollar amount of work under contract: $ _____

Gross dollar amount of contracts not completed: $ _____

Type of work generally performed by Contractor: _____

_____

_____

List of five projects of a similar size and nature that have been completed by the contractor within the last ten years including the project name, year of construction, contracting agency, contract phone number and the gross dollar amount of each project:

Project Name	Construction Year	Agency Name	Contact Name and Number	Dollar Amount

STATEMENT OF BIDDER'S QUALIFICATIONS (continued)

List of five major pieces of equipment which are anticipated to be used on this project by the contractor and note which items are owned by the contractor and which are to be leased or rented from others:

STATEMENT OF BIDDER'S QUALIFICATIONS (continued)

Bank References: _____

How many general superintendents or other responsible employees in a supervisory position do you have at this time and how long have they been with this contractor? _____

Have you changed bonding companies within the last three years? _____

If so, why? (optional) _____

Have you ever been sued by the client on any public works contract for a special district, municipality, county, or state government? _____

For what reason? _____

Disposition of case, if settled: _____

Washington State:

Department of Labor and Industries Workmen's Compensation Account No.: _____

Department of Licenses Contractor's Registration No.: _____

Employment Security Department Number: _____

Excise Tax Registration Number: _____

IRS Employer Number: _____

Percentage of work to be performed by General Contractor: _____

_____
BIDDER

_____
By (signed)

_____
TITLE

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NON-COLLUSION DECLARATION

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

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

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

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

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

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Local Agency Name City of Yelm
Local Agency Address Yelm City Hall, 106 2nd St SE, Yelm, WA 98597

Local Agency Subcontractor List

Prepared in compliance with RCW 39.30.060 as amended

To Be Submitted with the Bid Proposal

Project Name_____

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

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

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

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name	
Work to be Performed	

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

DOT Form 271-015A EF
Revised 08/2012

PERFORMANCE BOND
to City of Yelm, WA

Bond No. _____

The City of Yelm, Washington has awarded to _____ (Principal), a contract for the construction of the project designated as City of Yelm, Downtown Parking Lot in Yelm, Washington (Contract), and said Principal is required to furnish a bond for performance of all obligations under the Contract.

The Principle, and _____ (Surety), a corporation, organized under the laws of the State of _____ and licensed to do 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. Treasury Dept., are jointly and severally held and firmly bound to the City of Yelm, in the sum of _____ US Dollars ($ _____) Total Contract Amount, subject to the provisions herein.

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 increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the office executing on behalf of the surety.

PRINCIPLE		SURETY	
Principle Signature	Date	Surety Signature	Date
Printed Name	Date	Printed Name	Date

Title	Title

Name, address, and telephone of local office/agent of Surety Company is:

Approved as to form:

_____

_____

[City or County] Attorney, [City of _____ or _____ County]
Date

DOT Form 272-002A EF
08/2012

PAYMENT BOND
to [City of_____or_____County], WA

Bond No._____

The City of Yelm, Washington has awarded to _____ (Principal), a contract for the construction of the project designated City of Yelm, Downtown Parking Lot, in Yelm, Washington (Contract), and said Principal is required under the terms of that Contract to furnish a payment bond in accord with Title 39.08 Revised Code of Washington (RCW) and (where applicable) 60.28 RCW.

The Principle, and _____ (Surety), a corporation, organized under the laws of the State of _____ and licensed to do 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. Treasury Dept., are jointly and severally held and firmly bound to the City of Yelm, in the sum of _____ US Dollars ($ _____) Total Contract Amount, subject to the provisions herein.

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, 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 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.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the office executing on behalf of the surety.

PRINCIPLE	SURETY
Principle Signature Date	Surety Signature Date

Printed Name Date	Printed Name Date
Title	Title

Name, address, and telephone of local office/agent of Surety Company is:

Approved as to form:

_____

_____

[City or County] Attorney, [City of _____ or _____ County]
Date

Department of Labor and Industries
Prevailing Wage
(360) 902-5335
www.lni.wa.gov/TradesLicensing/PrevWage

- This form **must** be typed or printed in ink.
- **Fill in all blanks or the form will be returned for correction (see instructions).**
- Please allow a **minimum** of 10 working days for processing.
- Once approved, your form will be posted online at https://fortress.wa.gov/lni/pwiapub/SearchFor.asp

STATEMENT OF INTENT TO PAY PREVAILING WAGES

Public Works Contract
$40.00 Filing Fee Required

Intent ID # (Assigned by L&I)_____

Your Company Information		
Your Company Name		
Your Address		
City	State	Zip+4
Your Contractor Registration Number	Your UBI Number	
Your Industrial Insurance Account Number		
Your Email Address (required for notification of approval)	Your Phone Number	

Awarding Agency Information		
Project Name	Contract Number	
Awarding Agency		
Awarding Agency Address		
City	State	Zip+4
Awarding Agency Contact Name	Phone Number	
County Where Work Will Be Performed	City Where Work Will Be Performed	

Additional Details	
Your Expected Job Start Date (mm/dd/yyyy)	
Job Site Address/Directions	

Contract Details		
Bid Due Date (Prime Contractor's)	Award Date (Prime Contractor's)	
Total Dollar Amount of Your Contract (including sales tax) or indicate time and materials, if applicable.	$	☐ T&M

ARRA Funds
Does this project utilize American Recovery and Reinvestment Act (ARRA) funds? ☐ Yes ☐ No

Weatherization or Energy Efficient Funds
Does this project utilize any weatherization or energy efficiency upgrade funds (ARRA or otherwise)? ☐ Yes ☐ No

Prime Contractor's Company Information	
Prime Contractor's Company Name	Prime Contractor's Intent Number
Prime Contractor's Registration Number	Prime Contractor's UBI Number

Hiring Contractor's Company Information	
Hiring Contractor's Company Name	
Hiring Company's Contractor Registration Number	Hiring Contractors UBI Number

Employment Information					
Do you intend to use **ANY** subcontractors?	☐ Yes	☐ No	Will employees perform work on this project?	☐ Yes	☐ No
Will **ALL** work be subcontracted?	☐ Yes	☐ No	Do you intend to use apprentice employees?	☐ Yes	☐ No

Number of Owner/Operators who own at least 30% of the company who will perform work on this project: ☐ None (0) ☐ One (1) ☐ Two (2) ☐ Three (3)

Crafts/Trades/Occupations – (Do not list apprentices. They are listed on the Affidavit of Wages Paid only.) If an employee works in more than one trade, ensure that all hours worked in each trade are reported below. For additional crafts/trades/occupations please use Addendum A.	**Number of Workers**	**Rate of Hourly Pay**	**Rate of Hourly Usual ("Fringe") Benefits**

Signature Block

I hereby certify that I have read and understand the instructions to complete this form and that the information, including any addenda, are correct and that all workers I employ on this Public Works Project will be paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Department of Labor and Industries.

Print Name: **Print Title:** **Signature:** **Date:**

For L&I Use Only

Approved by signature of the Department of Labor and Industries Industrial Statistician

NOTICE: If the prime contract is at a cost of over one million dollars ($1,000,000.00), RCW 39.04.370 requires you to complete the EHB 2805 (RCW 39.04.370) Addendum and attach it to your Affidavit of Wages of Paid when your work on the project concludes. This is only a notice. The EHB 2805 Addendum is not submitted with this Intent.

F700-029-000 Statement of Intent to Pay Prevailing Wages 03-2011

Department of Labor and Industries
Prevailing Wage
(360) 902-5335
http://www.lni.wa.gov/TradesLicensing/PrevailingWage

AFFIDAVIT OF WAGES PAID

Public Works Contract
$25.00 Filing Fee Required

- This form must be typed or printed in ink.
- Fill in all blanks or form will be returned for correction (see back).
- Please allow a minimum of 10 working days for processing.
- Once approved, your form will be posted online at the website above.

APPROVED FORM WILL BE MAILED TO THIS ADDRESS
Contractor, company or agency name, address, city, state & ZIP+4

Project Name		**Contract #**	
Contract Awarding Agency (public agency - not federal or private)			
Address			
City	**State**	**ZIP+4**	
Awarding Agency Project Contact Person		**Phone #**	
County where work was performed		**City where work was performed**	
Bid due date (mm/dd/yy)		**Date contract awarded (mm/dd/yy)**	
Date work completed (mm/dd/yy)		**Date Intent filed (mm/dd/yy)**	
Was all work subcontracted? ☐ Yes ☐ No		**Did you intend to use subcontractors?** ☐ Yes ☐ No	
Prime contractor (has contract with the public agency) Contractor Registration No.		**Job start date (mm/dd/yy)**	

Craft/trade/occupation and apprentices (For apprentices, give name, registration #, trade, dates of work on project, stage of progression, wage and fringe) Indicate number of owners that performed work.	**Number of Workers**	**Total # of hours worked – ea. trade**	**Rate of Hourly Pay**	**Rate of Hourly Fringe Benefits**

Company name	
Address	
City State ZIP+4	
Contractor Registration No. UBI	
Industrial Insurance Account Number	
Email address Phone number	
For L&I Use Only	
APPROVED: Department of Labor and Industries	
By _____ Industrial Statistician	

Indicate total dollar amount of your contract or time and materials if applicable.	$
I hereby certify that the above information is correct and that all workers I employ on this Public Works Project will be paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Department of Labor and Industries	
Title Signature	

For L&I Use Only
Check Number: _____ ☐ $25 or $ _____
Issued By: _____

F700-007-000 affidavit of wages 12-04

After APPROVAL, send white copy to Awarding Agency.
Canary copy – L&I

How to expedite the processing of your form:

REQUIRED FOR PROCESSING	ERRORS THAT CAUSE REJECTION
Filing Fee	No fee or wrong amount. $25.00 filing fee required.
Bid Due Date and Date Contract Awarded	Missing. Award date is before bid due date. Prevailing Wage is based on the date bids from prime contractor were due to the contract awarding agency.
Date work completed	Missing or a date in the future.
Date Intent Filed	Missing - An affidavit cannot be approved without the Statement of Intent to Pay Prevailing Wages being filed.
Craft/trade/occupation	Craft not listed, not specific, or does not match prevailing wage occupation listings. **Owner/Operators**: If the work was performed by owners/partners, state "Owner/Operator" under the "Craft" section, and the wage and fringe need not be completed. Do list the number of owners on the job. (Individuals who own less than 30% of the company are not considered to be owner/operators and must be paid prevailing wage.) **All work subcontracted**: If all work was performed by subcontractors, check the appropriate box on the form.
Number of workers each trade	Missing
Total number of hours worked each trade	Missing
Rate of Hourly Pay	Missing or incorrect wages. Enter the rate of hourly pay and rate of qualified hourly fringe benefits, as defined by RCW 39.12.010, that you actually provided to the workers. The amount listed for "Rate of Hourly Pay" plus the amount listed for the "Rate of Hourly Fringe Benefits", if any, must equal or exceed the Prevailing Wage rate.
Apprentices*	Missing information or apprentice not registered*. List each apprentice by name, registration number, trade, stage of progression, beginning and ending dates of work performed on the project (m/d/y to m/d/y), and rate of hourly pay and fringe benefits.
Total Dollar Amount of Your Contract	Missing – Enter exact amount (not "time and materials").
Contractor Registration No. or UBI	Missing or not registered. Companies not required to obtain a contractor's registration number need only indicate UBI (i.e., janitorial, surveying, truck driving).
Signature	Missing – Affidavit must be signed by an authorized representative.

* Any apprentice not registered with the Washington State Apprenticeship and Training Council within 60 days of hire must be paid prevailing journey level wages for the time preceding the date of registration. Call (360) 902-5323 to verify registration. NOTE: Electrical and Plumber trainees registered with the Department of Labor and Industries MUST ALSO be registered with the Washington State Apprenticeship and Training Council to qualify for apprentice rates.

If there is not enough space to list all required information on one form, use additional Affidavit forms as needed. Please indicate at the top of each form "Page 1 of 2", "Page 2 of 2", etc. No additional fee is required. No other attachments will be accepted.

Approval of this Affidavit will be based on the information provided by the contractor/subcontractor. It does not signify approval of the classifications of labor used by the contractor/subcontractor.

L&I will mail the approved white copy of this Affidavit to the organization provided on the front of this form. Make a copy for your records.

Prevailing wage rates are available on the Internet at http://www.lni.wa.gov/TradesLicensing/PrevailingWage

Submit both copies (white and canary) and the $25.00 filing fee to:

MANAGEMENT SERVICES
DEPT. OF LABOR AND INDUSTRIES
PO BOX 44835
OLYMPIA, WASHINGTON 98504-4835

Please fold in thirds so the address will show in a window envelope

For questions call (360) 902-5335

F700-007-000 affidavit of wages - backer 12-04

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SPECIAL PROVISIONS

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INTRODUCTION TO THE SPECIAL PROVISIONS

(January 4, 2024 APWA GSP, Option A)

The work on this project shall be accomplished in accordance with the Standard Specifications for Road, Bridge and Municipal Construction, 2024 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

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

The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:

(March 8, 2013 APWA GSP)

(April 1, 2013 WSDOTGSP)

(May 1, 2013 City of Yelm GSP) Agency Special Provision

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

(*****)

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any*
- *Standard Plans for Road, Bridge and Municipal Construction, WSDOT Manual M21 01, current edition*
- *City of Yelm Standard Plans*
- *Yelm City Standards for Public Works engineering and Construction*
- *2019 Department of Ecology Stormwater Management Manual for Western Washington*
- *Puget Sound Energy Electric Service Handbook, January 2024 (Non-Residential Projects Permanent and Temporary Service)*
- *Electric Vehicle Infrastructure; A Guide For Local Governments in Washington State, July 2010 (https://www.psrc.org/sites/default/files/2022-03/electric-vehicle-guidance.pdf)*

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

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DIVISION 1
GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(March 13, 1995 WSDOT GSP)

This Contract provides for the improvement of ***the Downtown Parking Lot construction and includes grading, paving, and electrical work, for a parking lot bordered by Washington Ave., 3rd Street, and an alley way. Work will also include the construction of stormwater facilities to handle the runoff produced on the proposed parking lot*** and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

1-01 DEFINITIONS AND TERMS

1-01.3 Definitions

(January 19, 2022 APWA GSP)
*Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:*

Dates

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

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

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

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

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

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

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

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

Supplement this section with the following:

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

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

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

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

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

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

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

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

Contract Documents
See definition for "Contract".

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

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

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

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

1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

(January 24, 2011, APWA GSP)
Delete this section and replace it with the following:

1-02.1 Qualifications of Bidder

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

1-02.2 Plans and Specifications

(June 27, 2011, APWA GSP)
Delete this section and replace it with the following:

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

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

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	2	Furnished automatically upon award.
Contract Provisions	2	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	0	

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

1-02.4 Examination of Plans, Specifications, and Site of Work

1-02.4(1) General

(December 30, 2022, APWA GSP, Option B)
The first sentence of the ninth paragraph, beginning with "Prospective Bidder desiring…", is revised to read:

Prospective Bidders desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business five (5) 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

(January 4, 2024 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 DBE 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 DBE requirements are to be satisfied through such an agreement.

1-02.7 Bid Deposit

(March 8, 2013, APWA GSP)
Supplement this section with the following:

1. Bid bonds shall contain the following:
2. Contracting Agency-assigned number for the project;
3. Name of the project;
4. The Contracting Agency named as obligee;
5. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;
6. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;
7. The signature of the surety's officer empowered to sign the bond and the power of attorney.

If so stated in the Contract Provisions, bidder must use the bond form included in the Contract Provisions.

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

1-02.10 Withdrawing, Revising, or Supplementing Proposal

(July 23, 2015 APWA GSP)
Delete this section, and replace it with the following:

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

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the

Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

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

1-02.13 Irregular Proposals

(January 4, 2024 APWA GSP)
Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
    a. The Bidder is not prequalified when so required;
    b. The Bidder adds provisions reserving the right to reject or accept the Award, or enter into the Contract;
    c. A price per unit cannot be determined from the Bid Proposal;
    d. The Proposal form is not properly executed;
    e. The Bidder fails to submit or properly complete a subcontractor list (WSDOT Form 271-015), if applicable, as required in Section 1-02.6;
    f. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification (WSDOT Form 272-056), if applicable, as required in Section 1-02.6;
    g. The Bidder fails to submit Written Confirmations (WSDOT Form 422-031) from each DBE firm listed on the Bidder's completed DBE Utilization Certification that they are in agreement with the bidder's DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
    h. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award in accordance with Section 1-07.11;
    i. The Bidder fails to submit a DBE Bid Item Breakdown (WSDOT Form 272-054), if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
    j. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation.
2. Proposal may be considered irregular and may be rejected if:
    a. The Proposal does not include a unit price for every Bid item;
    b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
    c. The authorized Proposal Form furnished by the Contracting Agency is not used or is altered;

d. The completed Proposal form contains unauthorized additions, deletions, alternate Bids, or conditions;

e. Receipt of Addenda is not acknowledged;

f. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or

g. If Proposal form entries are not made in ink.

(******)

Supplement this section with the following:

The Owner specifically reserves the right to reject any and/or all Bids, and to waive minor informalities.

1-02.14 Disqualification Of Bidders

(May 17, 2018 APWA GSP, Option A)

Delete this section and replace it with the following:

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

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

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

1-02.15 Pre Award Information

(December 30, 2022 APWA GSP)

Revise this section to read:

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

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,

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

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.1 Consideration of Bids

(December 30, 2022 APWA GSP)
Revise the first paragraph to read:

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

1-03.3 Execution of Contract

(January 4, 2024 APWA GSP)
Revise this section to read:

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

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

Within 20 calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer of Coverage form for the Construction Stormwater General Permit with sections I, III, and VIII completed when provided. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

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

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of 20 additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

(July 23, 2015 APWA GSP)
Delete the first paragraph and replace it with the following:

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

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

1-03.7 Judicial Review

(December 30, 2022 APWA GSP)
Revise this section to read:

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

1-04 SCOPE OF THE WORK

1-04.1 Intent of the Contract

1-04.1(2) Bid Items Not Included in the Proposal

(******)
Delete this Section and replace it with the following:

The Contractor shall include all costs of doing the work within the bid items prices. If the Contract Plans, Contract Provisions, Addenda or any other part of the Contract requires work that has no specific bid item in the Proposal form, the entire cost of that work shall be considered incidental and included within other bid items in the Proposal.

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

(December 30, 2022 APWA GSP)
Revise the second paragraph to read:

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

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

1-04.4 Changes

(January 19, 2022 APWA GSP)
The first two sentences of the last paragraph of Section 1-04.4 are deleted.

1-04.6 Variation in Estimated Quantities

*(*December 30, 2022 *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 the 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:

1-05 CONTROL OF WORK

1-05.4 Conformity With and Deviations From Plans and Stakes

(January 13, 2021 WSDOT GSP)
Section 1-05.4 is supplemented with the following:

Contractor Surveying - Roadway

The Contracting Agency has provided primary survey control in the Plans.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Payment

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

"Roadway Surveying", lump sum.

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

1-05.7 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

(October 1, 2005, APWA GSP)
Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing

1-05.11(1) Substantial Completion Date

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

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set

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

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

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

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

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

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

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

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

1-05.11(3) Operational Testing

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

their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

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

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

1-05.12 Final Acceptance

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.

(******)

Seeding shall be exempted from the Guarantee period.

1-05.13 Superintendents, Labor and Equipment of Contractor

(August 14, 2013 APWA GSP)
Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices

(January 4, 2024 APWA GSP)
Revise the second paragraph to read:

All correspondence from the Contractor shall be served and directed to the Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must

be written in paper format, hand delivered or sent via certified mail delivery service with return receipt requested to the Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new Sections:

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.

1-05.18 Record Drawings

(March 8, 2013, APWA GSP)

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

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

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

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

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

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

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

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

Making Entries on the Record Drawings:

- Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:

  Additions: Red
  Deletions: Green
  Comments: Blue
  Dimensions: Graphite

- Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.
- Date all entries.
- Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

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

Payment will be made for the following bid item:

"Record Drawings (Min Bid $1000)", per lump sum.

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

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

1-06 CONTROL OF MATERIAL

1-06.1 Approval of Materials Prior to Use

Section 1-06.1 is supplemented with the following:
(April 3, 2017 WSDOT GSP)

For each proposed material that is required to be submitted for approval using either the QPL or RAM process the Contractor will be allowed to submit for approval two material sources or manufacturers per material type at no cost. Additional material sources or manufacturers may be submitted for approval and will be processed at a cost of $125.00 per material source or manufacturer submitted by QPL submittal and $400.00 per material submitted by RAM. All costs for processing additional material sources or manufacturers will be deducted from monies due or that may come due to the Contractor. Subject to a request by the Contractor and a determination by the Engineer the costs for processing may be waived.

1-06.1(4) Fabrication Inspection Expense

(June 27, 2011, APWA GSP)
Delete this section in its entirety.

1-06.2 Acceptance of Materials

1-06.2(2) Statistical Evaluation of Materials for Acceptance

1-06.2(2)B Financial Incentive

(January 4, 2024 AWPA GSP)
Replace the first sentence of this Section with the following:

The maximum Composite Pay Factor shall be 1.00.

1-06.6 Recycled Materials

(January 4, 2016, APWA GSP)
Delete this section including its subsections, and replace it with the following:

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

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

1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws To Be Observed

(October 1, 2005, APWA GSP)
Supplement this section with the following:

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

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

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

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

1-07.2 State Taxes

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

1-07.2 State Sales Tax

(June 27, 2011, APWA GSP)

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

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

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

1-07.2(1) State Sales Tax — Rule 171

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

1-07.2(2) State Sales Tax — Rule 170

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

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

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

1-07.2(3) Services

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

1-07.6 Permits and Licenses

(******)
Supplement this section with the following:

The Contractor shall be required to obtain all permits and licenses necessary to complete the Work. Some of the necessary permits/licenses may include:

- Right of Way Permit (free of charge)
- Construction Stormwater General Permit

1-07.7 Load Limits

Section 1-07.7 is supplemented with the following:
(March 13, 1995 WSDOT GSP)

If the sources of materials provided by the Contractor necessitates hauling over roads other than State Highways, the Contractor shall, at the Contractor's expense, make all arrangements for the use of the haul routes.

1-07.11 Requirements for Nondiscrimination

1-07.11(2) Contractual Requirements

Section 1-07.11(2) is supplemented with the following:
(January 24, 2024 WSDOT GSP)

11. The Contractor shall comply with the following nondiscrimination provisions, and the Contractor shall ensure the nondiscrimination provisions are included in all subcontracts:

a. Nondiscrimination Requirement. During the term of this Contract, the Contractor, including all subcontractors, shall not discriminate on the bases enumerated at RCW 49.60.530(3). In addition, the Contractor, including all subcontractors, shall give written notice of this nondiscrimination requirement to any labor organizations with which the Contractor, or subcontractor, has a collective bargaining or other agreement.

b. Obligation to Cooperate. The Contractor, including all subcontractors, shall cooperate and comply with any Washington state agency investigation regarding any allegation that the Contractor, including any subcontractor, has engaged in discrimination prohibited by this Contract pursuant to RCW 49.60.530(3).

c. Default. Notwithstanding any provision to the contrary, the Contracting Agency may suspend the Contract in accordance with Section 1-08.6, upon notice of a failure to participate and cooperate with any state agency investigation into alleged discrimination prohibited by this Contract, pursuant to RCW 49.60.530(3). Any such suspension will remain in place until the Contracting Agency receives notification that Contractor, including any subcontractor, is cooperating with the investigating state agency. In the event the Contractor, or subcontractor, is determined to have engaged in discrimination identified at RCW 49.60.530(3), the Contracting Agency may terminate this Contract in whole or in part in

accordance with Section 1-08.10(1), and in addition to the sanctions listed in Section 1-07.11(5), the Contractor, subcontractor, or both, may be referred for debarment as provided in RCW 39.26.200. The Contractor or subcontractor may be given a reasonable time in which to cure this noncompliance, including implementing conditions consistent with any court-ordered injunctive relief or settlement agreement.

d. Remedies for Breach. Notwithstanding any provision to the contrary, in the event of Contract termination or suspension for engaging in discrimination, the Contractor, subcontractor, or both, shall be liable for contract damages as authorized by law including, but not limited to, any cost difference between the original contract and the replacement or cover contract and all administrative costs directly related to the replacement contract, which damages are distinct from any penalties imposed under Chapter 49.60, RCW. The Contracting Agency shall have the right to deduct from any monies due to Contractor or subcontractor, or that thereafter become due, an amount for damages Contractor or subcontractor will owe Contracting Agency for default under this Provision.

1-07.13 Contractor's Responsibility for Work

1-07.13(4) Repair of Damage

(******)
Delete section 1-07.13(4) and replace with the following:

The Contractor shall promptly repair all damage to either temporary or permanent work as directed by the Engineer. For damage qualifying for relief under Sections 1-07.13(1), 1-07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-04.4. Payment will be limited to repair of damaged work only. No payment will be made for delay or disruption of work.

1-07.16 Protection and Restoration of Property

1-07.16(2) Vegetation Protection and Restoration

(August 2, 2010 WSDOT GSP)
Supplement this section with the following:

Vegetation and soil protection zones for trees shall extend out from the trunk to a distance of 1 foot radius for each inch of trunk diameter at breast height.

Vegetation and soil protection zones for shrubs shall extend out from the stems at ground level to twice the radius of the shrub.

Vegetation and soil protection zones for herbaceous vegetation shall extend to encompass the diameter of the plant as measured from the outer edge of the plant.

1-07.17 Utilities and Similar Facilities

(*****)

Section 1-07.17 is supplemented with the following:

The locations and dimensions shown on the Plans for existing facilities are in accordance with best available information obtained without uncovering, measuring, or other verification. The Contractor shall be responsible for any breakage of the existing utilities or services, publicly or privately owned, resulting from Contractor's operations, and shall hold the Owner and its agents harmless from any claim resulting from disruption of or damage to the same.

The Contractor is alerted to the existence of Chapter 19.122 RCW, a law relating to underground utilities. Any cost to the Contractor incurred as a result of this law shall be at the Contractor's expense.

No excavation shall begin until all known facilities in the vicinity of the excavation area have been located and marked.

The Contractor shall maintain the operational service of water distribution, storm drainage, and sanitary sewer service systems in as continuous a manner as possible. Where services are to be shut down, affected parties shall be notified in writing a minimum of three working days in advance of the time and period of shutdown. The Contractor shall make every effort to keep shutdown schedules to periods of anticipated minimum usage and for the least period of time. No utility service will be allowed to be shut down for more than four hours per day.

Should a shutdown of any utility be required for a period in excess of four hours, the Contractor at no expense to the Owner shall take necessary measures to provide temporary service. The method of all temporary utility services shall first be approved by the City of Yelm.

If any damage is done to an existing utility, the Contractor shall notify an authority of the particular utility company involved, who will dispatch a crew to repair the damages at the Contractor's expense, or authorize the Contractor to repair the damage at the Contractor's expense. The Contractor shall repair all damaged City-owned utilities in accordance with the Contract Documents or per the direction of the City. The Contractor shall immediately notify the City of Yelm Construction Inspector when any damage occurs to any existing utility.

1-07.18 Public Liability and Property Damage Insurance

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

1-07.18 Insurance

(January 4, 2024 APWA GSP)

1-07.18(1) General Requirements

A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.

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

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

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

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

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

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

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

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

1-07.18(2) Additional Insured

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

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers
- Shea Car & Jewell, Inc. and their subconsultants

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

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

1-07.18(3) Subcontractors

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

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

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

1-07.18(4) Verification of Coverage

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

Verification of coverage shall include:

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

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

1-07.18(5) Coverages and Limits

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

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

1-07.18(5)A Commercial General Liability

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

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

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

Such policy must provide the following minimum limits:

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

1-07.18(5)B Automobile Liability

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

Such policy must provide the following minimum limit:

$1,000,000	Combined single limit each accident

1-07.18(5)C Workers' Compensation

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

1-07.24 Rights Of Way

(July 23, 2015, APWA GSP)
Delete this section and replace it with the following:

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

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

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

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

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

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

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters

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.

1-08.0(2) Hours of Work

(December 8, 2014 APWA GSP)

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

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

If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This request shall state what hours are being requested, and why. Requests shall be submitted for review no later than _five (5) working days__ prior to the day(s) the Contractor is requesting to change the hours.

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

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

the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)

2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.
5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll

1-08.1 Subcontracting

1-08.1(7) Payments to Subcontractors and Lower-Tier Subcontractors

1-08.1(7)A Payment Certification

(January 4, 2024 APWA GSP
Delete this subsection in its entirety.

1-08.1(9) Required Subcontract Clauses

1-08.1(9)B Clauses Required in Subcontracts of All Tiers

(January 24, 2024, WSDOT GSP)
The second paragraph of Section 1-08.1(9)B is supplemented with the following:

16. 1-07.11 Requirements for Nondiscrimination – Item 11 from Section 1-07.11(2).

1-08.3 Progress Schedule

1-08.3(2) Progress Schedule Types

1-08.3(2)A Type A Progress Schedule

(December 30, 2022 APWA GSP)
Revise this section to read:

The Contractor shall submit four (4) 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

(December 30, 2022 APWA GSP, Option A)
Revise the third and fourth paragraphs to read:

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

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and all partial or whole days the Engineer declares as unworkable The statement will be identified as a Written Determination by the Engineer. If the Contractor does not agree with the Written Determination of working days, the Contractor shall pursue the protest procedures in accordance with Section 1-04.5. By failing to follow the procedures of Section 1-04.5, the Contractor shall be deemed as having accepted the statement as correct. <u>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.</u>

Revise the sixth paragraph to read:

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

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
   a. Certified Payrolls (per Section 1-07.9(5)).
   b. Material Acceptance Certification Documents.
   c. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
   d. Final Contract Voucher Certification.
   e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors.
   f. A copy of the Notice of Termination sent to the Washington State Department of Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the Notice of Termination by Ecology; and no rejection of the Notice of Termination by Ecology. This requirement will not apply if the Construction Stormwater General Permit is transferred back to the Contracting Agency in accordance with Section 8-01.3(16).
   g. Property owner releases per Section 1-07.24.

Section 1-08.5 is supplemented with the following:
(March 13, 1995, WSDOT GSP)

This Project shall be physically completed within **25 working days** after Notice to Proceed.

1-08.9 Liquidated Damages

(March 3, 2021, APWA GSP, Option B)
Revise the second and third paragraphs to read:

Accordingly, the Contractor agrees:

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

Liquidated Damages Formula

LD=0.15C/T

Where:

LD = liquidated damages per working day (rounded to the nearest dollar)

C = original Contract amount
T = original time for Physical Completion

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine the Contract Work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, 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.

1-09 MEASUREMENT AND PAYMENT

1-09.2 Weighing Equipment

1-09.2(1) General Requirements for Weighing Equipment

(January 4, 2024 APWA GSP, Option B)
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 422-027A, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

1-09.2(5) Measurement

(December 30, 2022 APWA GSP)
Revise the first paragraph to read:

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

1-09.6 Force Account

(December 30, 2022 APWA GSP)
Supplement this section with the following:

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

1-09.9 Payments

(December 30, 2022 APWA GSP)
Section 1-09.9 is revised to read:

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.

Failure to perform obligations under the Contract by the Contractor may be decreed by the Contracting Agency to be adequate reason for withholding any payments until compliance is achieved.

Upon completion of all Work and after final inspection (Section 1-05.11), the amount due the Contractor under the Contract will be paid based upon the final estimate made by the Engineer and presentation of a Final Contract Voucher Certification to be signed by the Contractor. The Contractor's signature on such voucher shall be deemed a release of all claims of the Contractor unless a Certified Claim is filed in accordance with the requirements of Section 1-09.11 and is expressly excepted from the Contractor's certification on the Final Contract Voucher Certification. The date the Contracting Agency signs the Final Contract Voucher Certification constitutes the final acceptance date (Section 1-05.12).

If the Contractor fails, refuses, or is unable to sign and return the Final Contract Voucher Certification or any other documentation required for completion and final acceptance of the Contract, the Contracting Agency reserves the right to establish a Completion Date (for the purpose of meeting the requirements of RCW 60.28) and unilaterally accept the Contract. Unilateral final acceptance will occur only after the Contractor has been provided the opportunity, by written request from the Engineer, to

voluntarily submit such documents. If voluntary compliance is not achieved, formal notification of the impending establishment of a Completion Date and unilateral final acceptance will be provided by email with delivery confirmation from the Contracting Agency to the Contractor, which will provide 30 calendar days for the Contractor to submit the necessary documents. The 30 calendar day period will begin on the date the email with delivery confirmation is received by the Contractor. The date the Contracting Agency unilaterally signs the Final Contract Voucher Certification shall constitute the Completion Date and the final acceptance date (Section 1-05.12). The reservation by the Contracting Agency to unilaterally accept the Contract will apply to Contracts that are Physically Completed in accordance with Section 1-08.5, or for Contracts that are terminated in accordance with Section 1-08.10. Unilateral final acceptance of the Contract by the Contracting Agency does not in any way relieve the Contractor of their responsibility to comply with all Federal, State, tribal, or local laws, ordinances, and regulations that affect the Work under the Contract.

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

(March 13, 2012, APWA GSP)
Supplement this section with the following:

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

1-09.11 Disputes and Claims

1-09.11(3) Time Limitation and Jurisdiction

(December 30, 2022 APWA GSP)
Revise this section to read:

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

1-09.13 Claims Resolution

1-09.13(1) Conditions Precedent to Binding Arbitration or Litigation

1-09.13(1)A General

(January 19, 2022 APWA GSP)
Revise this section to read:

Prior to seeking claims resolution through arbitration or litigation, the Contractor shall proceed in accordance with Sections 1-04.5 and 1-09.11. The provisions of Sections 1-04.5 and 1-09.11 must be complied with in full as a condition precedent to the Contractor's right to seek claim resolution through binding arbitration or litigation.

Any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be resolved, as prescribed herein, through binding arbitration or litigation.

The Contractor and the Contracting Agency mutually agree that those claims or causes of action which total $1,000,000 or less, which are not resolved by mediation, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

The Contractor and the Contracting Agency mutually agree that those claims or causes of action in excess of $1,000,000, which are not resolved by mediation, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

1-09.13(3) Arbitration

1-09.13(3)A Arbitration General

(January 19, 2022 APWA GSP)
Revise the third paragraph to read:

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

1-09.13(4) Venue for Litigation

(December 30, 2022 APWA GSP)
Revise this section to read:

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

END OF DIVISION 1

DIVISION 2
EARTHWORK

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

(******)

Supplement this section with the following:

The Contractor shall consider the clearing limits for this project to be all non-paved surface within the areas proposed for demolition as required to construct the improvements (i.e., all areas within existing right of way). The Contractor shall allow 48 hours for the Engineer to approve the clearing limits before commencing activities. At the direction of the Engineer, the limits shall be adjusted in the field. When marking the clearing limits, the Contractor shall strive to protect from damage existing landscaping items, such as paving, vegetation, rockeries, irrigation, fencing/railing, signage, lighting, and other items from damage.

The Contractor shall allow seven (7) days after the Contractor provides written notice to the property owners within the project area before commencing removal of materials to allow time for private salvage. If the property owners do not desire to salvage materials, then clearing may commence upon approval of the limits.

2-01.2 Disposal of Usable Material and Debris

(******)

The second paragraph of Section 2-01.2 is deleted and replaced with the following:

The Contractor shall dispose of all debris by disposal Method No. 2.

2-01.3 Construction Requirements

2-01.3(1) Clearing

(******)

Supplement this section with the following:

Tree felling operations shall be conducted per ANSI Z133.1.

2-01.3(4) Roadside Cleanup

(******)

Supplement this section with the following:

Throughout the progress of the work, the Contractor, when directed by the Owner's Representative, shall cleanup and remove all refuse and unwanted or unused materials resulting from the work, at the Contractor's expense. If the Contractor fails to do so within 24 hours after the request by the Owner's Representative, the work may be done by the City and the cost thereof be charged to the Contractor and deducted from his final estimate.

2-01.4 Measurement

(******)

Delete this section and replace with the following:

All costs associated with clearing and grubbing shall be included in the Bid item Roadway Excavation Incl. Haul per Section 2-03 of these Special Provisions.

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

2-02.1 Description

(******)

Supplement this section with the following:

This work shall consist of removing all materials noted in this section of the Special Provisions as well as any other materials designated for removal on the Plans or necessary for the construction of this project for which a specific Bid item is not provided in the Proposal.

In general, the Contractor shall remove/dispose or abandon existing items which are in conflict with the new improvements. Where not in conflict, or where not specified for demolition or removal, Contractor shall protect all private and public improvements.

Voids left by the removal of items shall be filled with Gravel Borrow material and compacted to 95 percent of maximum density as specified in Section 2-03.3(14)D of the Standard Specifications.

All materials removed shall become the property of the Contractor and shall be disposed of off-site at a legal disposal site to be obtained and paid for by the Contractor.

2-02.3 Construction Requirements

(******)

Supplement this section with the following:

All material removed for the construction of the project shall be hauled off-site to a legal disposal site by the Contractor. The Contractor shall determine the requirements of his selected disposal site related to accepting the material to be deposited on the site. Testing of the material by the disposal site or refusal of the site to accept the material shall not be the basis for additional payment or for an extension of the contract time. The cost of all such requirements shall be included in the various Bid prices in the Proposal.

2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters

(******)

Section 2-02.3(3) is supplemented with the following:

Existing pavement shall be saw cut before commencing removal as required for the construction and approved by the Engineer. Pavement thickness and extent may vary throughout the project. Removal shall be accomplished by making a neat longitudinal vertical cut along the boundaries of the area to be removed. All cuts shall be continuous, and shall be made with saws specifically equipped for this purpose. No skip cutting will be allowed.

Any pavement, curb, curb and gutter, sidewalk, or driveway that is damaged, and not designated for removal as shown on the Plans or preapproved by the Owner, shall be repaired or replaced entirely at the Contractor's expense. All saw cutting required shall be considered incidental to the project and

no compensation will be allowed. The width and location of cuts shall be preapproved by the Engineer before cutting of pavement.

Wheel cutting or jack hammering will not be considered an acceptable means of pavement "cutting," unless preapproved by the Engineer.

Sidewalks and curbs shall be saw cut, full depth, at the nearest joint prior to removal to prevent damaging the adjacent concrete to remain.

2-04.4 Measurement

(******)

Section 2-02.4 is supplemented with the following:

No separate measurement for payment will be made for saw cutting. Saw cutting shall be included with other associated bid items in the Proposal.

No measurement for payment shall be made for filling voids left after demolition.

2-02.5 Payment

(******)

Section 2-02.5 is supplemented with the following:

"Removal of Structures and Obstructions", lump sum.

All items noted for removal/abandonment or salvage on the Site Preparation Plans to which other Bid items do not apply shall be considered included in the lump sum Bid item "Removal of Structures and Obstructions" including, but not limited to, the items shown on the Plans and those specified herein. Demolition, backfill, haul, and disposal of all structures and materials and dismantling/restoration of surface features to which this Bid item applies shall also be considered incidental.

2-03 ROADWAY EXCAVATION AND EMBANKMENT

2-03.1 Description

(******)

Supplement this section with the following:

All excavation, regardless of the nature or type of materials encountered (including existing paving, curb, sidewalk, etc.), performed under this Contract shall be considered as unclassified excavation except as noted otherwise herein. The work shall include all excavation for the bioretention facility, trenches, curbs, grading the parking lot, and for all other work.

2-03.3 Construction Requirements

(******)

Supplement this section with the following:

Unauthorized over-excavated areas shall be filled with Gravel Borrow to be furnished, placed, and compacted at the Contractor's expense.

2-03.3(7) Disposal of Surplus Material

(******)

Supplement this section with the following:

The Contractor shall haul all excavated material off site and dispose of it at a legal disposal site unless directed otherwise by the Engineer. Excavated material from the project shall not be used for embankments or other project-related construction unless specifically authorized by the Engineer.

Disposal of surplus material shall be considered incidental to the project and as such, included in the various unit bid prices in the Proposal.

2-03.3(12) Overbreak

(******)

Section 2-03.3(12) is supplemented with the following:

Excavation outside the limits defined on the plans shall be classified as overbreak. Removal and replacement of overbreak material, including backfill and compaction requirements, shall meet the same conditions as the trench backfill. Sloughing of any excavation walls shall not be considered as slides.

2-03.4 Measurement

Supplement this section with the following:

The unit contract price for Roadway Excavation Incl. Haul shall apply to all types of excavation.

All costs associated with clearing and grubbing as defined in Section 2-01 of these special provisions shall be included in the Bid item Roadway Excavation Incl. Haul per Section 2-03 of these Special Provisions.

2-03.5 Payment

Replace the second paragraph with the following:

The unit Contract price per cubic yard for “Roadway Excavation Incl. Haul” shall be full compensation for all costs incurred for clearing, grubbing, excavating, shoring or extra excavation, backfilling, loading, placing, or otherwise disposing of the material.

2-04 HAUL

2-04.4 Measurement

(******)

Section 2-04.4 is deleted and replaced with the following:

No measurement will be made for haul.

2-04.5 Payment

(******)

Section 2-04.5 is supplemented with the following:

All costs associated with hauling materials of any description to, from, and within the project site shall be included in the appropriate unit bid prices in the Proposal and no further compensation will be paid.

2-06 SUBGRADE PREPARATION

2-06.3 Construction Requirements

2-06.3(1) Subgrade for Surfacing

(******)

Supplement this Section with the following:

Preparation and compaction of the subgrade shall be considered as essential to the construction and all costs thereof shall be incidental to the Work. Preparation, compaction, maintenance, and all other work related to subgrade establishment shall not be measured for payment. The subgrade shall be shaped and maintained to drain at all times during construction, including temporary ditches and modifications to drainage structures necessary to eliminate standing water on the subgrade.

2-06.3(2) Subgrade for Pavement

(******)

Section 2-06.3(2) is supplemented with the following:

Construct final subgrade only when the weather conditions will not detrimentally affect the quality of the finished work. Any portion of the work damaged by the effects of rain, wind, or other inclement weather conditions shall, at no additional cost to the Contracting Agency, be:

1. Aerated if excessively wet,
2. Moistened if excessively dry,
3. Reshaped and re-compacted to conform to the requirements of the plans and special provisions.

Fill and compact all depressions and holes.

Blading and rolling shall be done until the surface is smooth and free from waves and other irregularities. The subgrade elevations shall be such that they are within a tolerance of 0.1 feet and match/blend with the existing roadway features (driveways, curb and gutter, sidewalk, paving, etc.).

If the subgrade is damaged by the contractor's operations, the contractor shall repair, reshape, and recompact the subgrade as necessary at no additional cost.

Subgrade below curb and gutter and sidewalks shall be moisture conditioned and compacted to a minimum of 95% maximum density.

Subgrade in non-classified areas shall be moisture conditioned and compacted to a minimum of 95% maximum density.

2-06.5 Measurement and Payment

(******)

Section 2-06.5 is deleted and replaced with the following:

No separate measurement or payment will be made for subgrade preparation. This work is considered incidental to the construction and its costs shall be included in other items of work.

2-07 WATERING

2-07.3 Construction Requirements

(******)

Section 2-07.3 is supplemented with the following:

Contractor shall be responsible for controlling dust and mud within the project limits as well as on all streets used in the execution of this contract. The Contractor shall be prepared to furnish and use watering trucks equipped with high velocity water jets and low head sprinkling devices, street sweepers, and any other pieces of equipment necessary to render the project site free of dust and the streets free of all dust, mud, debris, and foreign materials. Any damage caused by dust and/or mud accumulation on the streets or in the storm sewer system shall be the sole responsibility of the Contractor. Failure to have a water truck immediately accessible to the job, and/or failure to use said water truck for dust control, shall be adequate reason to "shutdown" the project construction. Shutdowns due to the Contractor's failure to control dust shall not be considered unworkable days.

Water placement includes that required for dust control while excavating, for processing and compacting subgrade, and for dust control between the time of subgrade preparation and the placing of pavement. Dust control water shall be applied as directed by the Engineer or the City Construction Inspector and for such period of time as they deem necessary.

The City of Yelm will provide water from an existing hydrant at the Yelm Public Works Department facility at 901 Rhoton Road, at no expense to the Contractor. The Contractor may fill trucks at this location with prior approval from the City.

2-09 STRUCTURE EXCAVATION

2-09.4 Measurement

(******)

Section 2-09.4 is deleted and replaced with the following:

No measurement will be made for any class of structure excavation. All excavation, including that classified as "Shoring or Extra Excavation Class B," shall be paid as Roadway Excavation Incl. Haul per Section 2-03 of these Special Provisions.

Backfill and restoration due to extra excavation shall be incidental to the Work and no additional measurement shall be made.

2-11 TRIMMING AND CLEANUP

2-11.1 Description

(******)

Section 2-11.1 is supplemented with the following:

During construction, and then upon completion of the work, the Contractor shall thoroughly comb and search the surrounding area and remove any construction material thrown or discarded amongst the trees, bushes, ditches, etc., such as paint cans, cartons, broken pipe, pavement pieces, paper, bottles, etc., and shall tidy up the surrounding general area to make it neat in appearance, including removal of debris that may or may not have been deposited by Contractor's operation.

Paved street surfaces shall be thoroughly cleaned (street sweeper) upon completion of work within the area, and shall require daily cleaning if dust or mud exists. Prior to job acceptance, all new pavement and surrounding existing pavement impacted by the project shall be cleaned.

2-11.3 Construction Requirements

(******)

Add the following new sections:

2-11.3(1) Routine Cleaning

General

1. Retain all stored materials and equipment in an orderly fashion allowing maximum access, not impeding drainage or traffic, and providing protection.
2. Do not allow the accumulation of scrap, debris, waste material, and other items not required for this work.
3. At the end of each week, and more often if necessary or as directed by the Construction Inspector, the Contractor shall completely remove all scrap, debris, and waste material from the project site.
4. Provide adequate storage for all materials awaiting removal from the project site, observing all requirements for fire protection and protection of the environment.

Site

1. Daily and more often if necessary or as directed, inspect the site and pick up all scrap, debris, and waste material. Remove all such items to the place designated for their storage until it can be disposed of.
2. Maintain the site in a neat and orderly condition at all times so as to meet the approval of the Owner.

2-11.3(2) Final Cleaning

Prior to final inspection, remove from the job site, all tools, surplus materials, equipment, scrap, debris, and waste.

2-11.4 Measurement

(******)

Section 2-11.4 is deleted and replaced with the following:

No measurement will be made for trimming and cleanup.

2-11.5 Payment

(******)

Section 2-11.5 is supplemented with the following:

No separate payment will be made for trimming and cleanup. All costs for trimming and cleanup shall be incidental to the Work.

END OF DIVISION 2

DIVISION 3
PRODUCTION FROM QUARRY AND PIT SITES AND STOCKPILING

3-01 PRODUCTION FROM QUARRY AND PIT SITES

3-01.4 Contractor Furnished Material Sources

(******)

Supplement this section with the following:

No source has been provided for any materials necessary for the construction of this improvement. The Contractor shall make arrangements to obtain the necessary materials at no expense to the City, and all costs of acquiring, producing, and placing this material in the finished work shall be included in the unit contract prices for the various Items involved.

END OF DIVISION 3

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DIVISION 4
BASES

4-04 BALLAST AND CRUSHED SURFACING

4-04.4 Measurement

(******)

Section 4-04.4 is replaced with the following:

The Contract Bid prices shall be full compensation for all labor, material, tools, and equipment necessary to satisfactorily complete the Work as defined in the Standard Specifications and these Special Provisions. Work elements shall include, but not be limited to, purchasing; procuring; hauling; placing; grading; and compacting.

Measurement for "Crushed Surfacing Top Course" will be measured by the cubic yard for the actual neat line volume in place, with depths as detailed in typical sections.

Permeable Ballast for bioretention facility will be measured by the cubic yard for the actual neat line volume in place.

Truck tickets shall be submitted at the end of each working day.

No separate measurement for payment will be made for water used in placing and compacting surfacing materials.

Should the Contractor not prepare the subgrade to the correct line and grades and crushed surfacing materials are placed in excess of the depths required by the plans, the excess depth will not be measured for payment but instead be considered to the benefit of the Contractor.

END OF DIVISION 4

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DIVISION 5
SURFACE TREATMENTS AND PAVEMENTS

5-04 HOT MIX ASPHALT

(January 31, 2023 APWA GSP)
Delete Section 5-04 and amendments, Hot Mix Asphalt and replace it with the following:

5-04.1 Description

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

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

5-04.2 Materials

Materials shall meet the requirements of the following sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
HMA Additive	9-02.5
Aggregates	9-03.8
Recycled Asphalt Pavement (RAP)	9-03.8(3)B, 9-03.21
Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B, 9-03.21
Mineral Filler	9-03.8(5)
Recycled Material	9-03.

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

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

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

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

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

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

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

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

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

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

5-04.2(1)A Vacant

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

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

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

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

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

- The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
- The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification (stamp & sig-nature) of a valid licensed Washington State Professional Engineer.
- The Mix Design Report for the proposed HMA mix design developed by a qualified City or County laboratory that is within one year of the approval date.**

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

Mix designs for HMA accepted by Nonstatistical evaluation shall;

- Be designed for ***N/A*** million equivalent single axle loads (ESALs).

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

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

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

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

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

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

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

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

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

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

Minimum Surface Temperature for Paving

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

5-04.3(2) Paving Under Traffic

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

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

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

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

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

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

Plants used for the preparation of HMA shall conform to the following requirements:

1. **Equipment for Preparation of Asphalt Binder** – Tanks for the storage of asphalt binder shall be equipped to heat and hold the material at the required temperatures. The heating shall be accomplished by steam coils, electricity, or other approved means so that no flame shall be in contact with the storage tank. The circulating system for the asphalt binder shall be designed to ensure proper and continuous circulation during the operating period. A valve for the purpose of sampling the asphalt binder shall be placed in either the storage tank or in the supply line to the mixer.
2. **Thermometric Equipment** – An armored thermometer, capable of detecting temperature ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location near the charging valve at the mixer unit. The thermometer location shall be convenient and safe for access by Inspectors. The plant shall also be equipped with an approved dial-scale

thermometer, a mercury actuated thermometer, an electric pyrometer, or another approved thermometric instrument placed at the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates. This device shall be in full view of the plant operator.

3. **Heating of Asphalt Binder** – The temperature of the asphalt binder shall not exceed the maximum recommended by the asphalt binder manufacturer nor shall it be below the minimum temperature required to maintain the asphalt binder in a homogeneous state. The asphalt binder shall be heated in a manner that will avoid local variations in heating. The heating method shall provide a continuous supply of asphalt binder to the mixer at a uniform average temperature with no individual variations exceeding 25°F. Also, when a WMA additive is included in the asphalt binder, the temperature of the asphalt binder shall not exceed the maximum recommended by the manufacturer of the WMA additive.
4. **Sampling and Testing of Mineral Materials** – The HMA plant shall be equipped with a mechanical sampler for the sampling of the mineral materials. The mechanical sampler shall meet the requirements of Section 1-05.6 for the crushing and screening operation. The Contractor shall provide for the setup and operation of the field testing facilities of the Contracting Agency as provided for in Section 3-01.2(2).
5. **Sampling HMA** – The HMA plant shall provide for sampling HMA by one of the following methods:
    a. A mechanical sampling device attached to the HMA plant.
    b. Platforms or devices to enable sampling from the hauling vehicle without entering the hauling vehicle.

5-04.3(3)B Hauling Equipment

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

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

5-04.3(3)C Pavers

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

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

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

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

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

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

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

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

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

hen used, the MTD/V shall mix the HMA after delivery by the hauling equipment and prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform temperature throughout the mixture. If a windrow elevator is used, the length of the windrow may be limited in urban areas or through intersections, at the discretion of the Engineer.

To be approved for use, an MTV:

1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.
2. Shall not be connected to the hauling vehicle or paver.
3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.
2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

5-04.3(3)E Rollers

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

5-04.3(4) Preparation of Existing Paved Surfaces

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

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

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

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

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

application of tack coat shall be limited to surfaces that will be paved during the same working shift. The spreading equipment shall be equipped with a thermometer to indicate the temperature of the tack coat material.

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

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

5-04.3(4)A Crack Sealing

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

5-04.3(4)B Vacant

5-04.3(4)C Pavement Repair

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

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

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

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

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

Aggregates and RAP shall be stockpiled according to the requirements of Section 3-02. Sufficient storage space shall be provided for each size of aggregate and RAP. Materials shall be removed from

stockpile(s) in a manner to ensure minimal segregation when being moved to the HMA plant for processing into the final mixture. Different aggregate sizes shall be kept separated until they have been delivered to the HMA plant.

5-04.3(5)A Vacant

5-04.3(6) Mixing

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

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

Storing or holding of the HMA in approved storage facilities will be permitted with approval of the Engineer, but in no event shall the HMA be held for more than 24 hours. HMA held for more than 24 hours after mixing shall be rejected. Rejected HMA shall be disposed of by the Contractor at no expense to the Contracting Agency. The storage facility shall have an accessible device located at the top of the cone or about the third point. The device shall indicate the amount of material in storage. No HMA shall be accepted from the storage facility when the HMA in storage is below the top of the cone of the storage facility, except as the storage facility is being emptied at the end of the working shift.

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

5-04.3(7) Spreading and Finishing

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

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

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

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

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

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

5-04.3(9) HMA Mixture Acceptance

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

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

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

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

HMA Tolerances and Adjustments

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

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

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

For Aggregates in the mixture:

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

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

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

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

   a. **Aggregates** –2 percent for the aggregate passing the 1½", 1", ¾", ½", ⅜", and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5 percent for the aggregate passing the No. 200 sieve. The adjusted JMF shall be within the range of the control points in Section 9-03.8(6).

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

5-04.3(9)A Vacant

5-04.3(9)B Vacant

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

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

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

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be equal to one day's production or

800 tons, whichever is less except that the final sublot will be a minimum of 400 tons and may be increased to 1200 tons.

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

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

5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling

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

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

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

- If the test results are found to be within specification requirements, additional testing will be at the Engineer's discretion.
- If test results are found not to be within specification requirements, additional testing of the remaining samples to determine a Composite Pay Factor (CPF) shall be performed.

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

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

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

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

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

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

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

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

5-04.3(9)C5 Vacant

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

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

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

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

The Contractor may request a sublot be retested. To request a retest, the Contractor shall submit a written request within 7 calendar days after the specific test results have been received. A split of the original acceptance sample will be retested. The split of the sample will not be tested with the same tester that ran the original acceptance test. The sample will be tested for a complete gradation

analysis, asphalt binder content, and, at the option of the agency, V_a. The results of the retest will be used for the acceptance of the HMA in place of the original sublot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of $500 per sample.

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

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

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

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

5-04.3(10) HMA Compaction Acceptance

HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including lanes for intersections, ramps, truck climbing, weaving, and speed change, and having a specified compacted course thickness greater than 0.10-foot, shall be compacted to a specified level of relative density. The specified level of relative density shall be a Composite Pay Factor (CPF) of not less than 0.75 when evaluated in accordance with Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum density). The maximum density shall be determined by WSDOT FOP for AASHTO T 729. The specified level of density attained will be determined by the evaluation of the density of the pavement. The density of the pavement shall be determined in accordance with WSDOT FOP for WAQTC TM 8, except that gauge correlation will be at the discretion of the Engineer, when using the nuclear density gauge and WSDOT SOP 736 when using cores to determine density.

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

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

Roadway cores for density may be obtained by either the Contracting Agency or the Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4-inches minimum, unless otherwise

approved by the Engineer. Roadway cores will be tested by the Contracting Agency in accordance with WSDOT FOP for AASHTO T 166.

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

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

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

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

Test Results

For a sublot that has been tested with a nuclear density gauge that did not meet the minimum of 92 percent of the reference maximum density in a compaction lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may request that a core be used for determination of the relative density of the sublot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the sublot and will be used for calculation of the CPF and acceptance of HMA compaction lot.

When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the sublot have been provided or made available to the Contractor. Core locations shall be outside of wheel paths and as determined by the Engineer. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will be deducted from any monies due or that may become due the Contractor under the Contract at the rate of $200 per core and the Contractor shall pay for the cost of the traffic control.

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

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

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

operated in a mode that results in checking or cracking of the mat. Rollers shall only be operated in static mode on bridge decks.

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

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

5-04.3(10)C Vacant

5-04.3(10)D HMA Nonstatistical Compaction

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

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

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

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

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

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

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

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

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

For each compaction lot with one or two sublots, having all sublots attain a relative density that is 92 percent of the reference maximum density the HMA shall be accepted at the unit Contract price with no further evaluation. When a sublot does not attain a relative density that is 92 percent of the

reference maximum density, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The maximum CPF shall be 1.00, however, lots with a calculated CPF in excess of 1.00 will be used to offset lots with CPF values below 1.00 but greater than 0.90. Lots with CPF lower than 0.90 will be evaluated for compliance per 5-04.3(11). Additional testing by either a nuclear moisture-density gauge or cores will be completed as required to provide a minimum of three tests for evaluation.

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

5-04.3(11) Reject Work

5-04.3(11)A Reject Work General

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

5-04.3(11)B Rejection by Contractor

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

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

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

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

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

In addition to the random acceptance sampling and testing, the Engineer may also isolate from a normal sublot any material that is suspected of being defective in relative density, gradation or

asphalt binder content. Such isolated material will not include an original sample location. A minimum of three random samples of the suspect material will be obtained and tested. The material will then be statistically evaluated as an independent lot in accordance with Section 1-06.2(2).

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

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

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

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

1. When the Composite Pay Factor (CPF) of a lot in progress drops below 1.00 and the Contractor is taking no corrective action, or
2. When the Pay Factor (PF) for any constituent of a lot in progress drops below 0.95 and the Contractor is taking no corrective action, or
3. When either the PFi for any constituent or the CPF of a lot in progress is less than 0.75.

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

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

5-04.3(12) Joints

5-04.3(12)A HMA Joints

5-04.3(12)A1 Transverse Joints

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

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

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

5-04.3(12)A2 Longitudinal Joints

The longitudinal joint in any one course shall be offset from the course immediately below by not more than 6 inches nor less than 2 inches. All longitudinal joints constructed in the wearing course

shall be located at a lane line or an edge line of the Traveled Way. A notched wedge joint shall be constructed along all longitudinal joints in the wearing surface of new HMA unless otherwise approved by the Engineer. The notched wedge joint shall have a vertical edge of not less than the maximum aggregate size or more than ½ of the compacted lift thickness and then taper down on a slope not steeper than 4H:1V. The sloped portion of the HMA notched wedge joint shall be uniformly compacted.

5-04.3(12)B Bridge Paving Joint Seals

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

5-04.3(13) Surface Smoothness

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

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

1. Removal of material from high places by grinding with an approved grinding machine, or
2. Removal and replacement of the wearing course of HMA, or
3. By other method approved by the Engineer.

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

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

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

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

5-04.3(14) Planing (Milling) Bituminous Pavement

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

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

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

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

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

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

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

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

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

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

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

Should such metal be identified, promptly notify the Engineer.

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

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

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

5-04.3(14)B1 General

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

1. Intersections:

    a. Keep intersections open to traffic at all times, except when paving or planing operations through an intersection requires closure. Such closure must be kept to the minimum time required to place and compact the HMA mixture, or plane as appropriate. For paving, schedule such closure to individual lanes or portions thereof that allows the traffic volumes

and schedule of traffic volumes required in the approved traffic control plan. Schedule work so that adjacent intersections are not impacted at the same time and comply with the traffic control restrictions required by the Traffic Engineer. Each individual intersection closure or partial closure, must be addressed in the traffic control plan, which must be submitted to and accepted by the Engineer, see Section 1-10.2(2).

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

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

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

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

2. Temporary centerline marking, post-paving temporary marking, temporary stop bars, and maintaining temporary pavement marking must comply with Section 8-23.
3. Permanent pavement marking must comply with Section 8-22.

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

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

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

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

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

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

sequence, and scheduling of placement of temporary pavement markings and channelizing devices after each day's planing, and paving.

2. A copy of each intersection's traffic control plan.
3. Haul routes from Supplier facilities, and locations of temporary parking and staging areas, including return routes. Describe the complete round trip as it relates to the sequencing of paving operations.
4. Names and locations of HMA Supplier facilities to be used.
5. List of all equipment to be used for paving.
6. List of personnel and associated job classification assigned to each piece of paving equipment.
7. Description (geometric or narrative) of the scheduled sequence of planing and of paving, and intended area of planing and of paving for each day's work, must include the directions of proposed planing and of proposed paving, sequence of adjacent lane paving, sequence of skipped lane paving, intersection planing and paving scheduling and sequencing, and proposed notifications and coordinations to be timely made. The plan must show HMA joints relative to the final pavement marking lane lines.
8. Names, job titles, and contact information for field, office, and plant supervisory personnel.
9. A copy of the approved Mix Designs.
10. Tonnage of HMA to be placed each day.
11. Approximate times and days for starting and ending daily operations.

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

At least 2 Working Days before the first paving operation and the first planing operation, or as scheduled by the Engineer for future paving and planing operations to ensure the Contractor has adequately prepared for notifying and coordinating as required in the Contract, the Contractor must be prepared to discuss that day's operations as they relate to other entities and to public safety and convenience, including driveway and business access, garbage truck operations, Metro transit operations and working around energized overhead wires, school and nursing home and hospital and other accesses, other contractors who may be operating in the area, pedestrian and bicycle traffic, and emergency services. The Contractor, and Subcontractors that may be part of that day's operations, must meet with the Engineer and discuss the proposed operation as it relates to the submitted planing plan and paving plan, approved traffic control plan, and public convenience and safety. Such discussion includes, but is not limited to:

1. General for both Paving Plan and for Planing Plan:
   a. The actual times of starting and ending daily operations.
   b. In intersections, how to break up the intersection, and address traffic control and signalization for that operation, including use of peace officers.
   c. The sequencing and scheduling of paving operations and of planing operations, as applicable, as it relates to traffic control, to public convenience and safety, and to other con-tractors who may operate in the Project Site.
   d. Notifications required of Contractor activities, and coordinating with other entities and the public as necessary.

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

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

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

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

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

j. Other items the Engineer deems necessary to address.

2. Paving – additional topics:

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

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

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

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

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

5-04.3(15) Sealing Pavement Surfaces

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

5-04.3(16) HMA Road Approaches

HMA approaches shall be constructed at the locations shown in the Plans or where staked by the Engineer. The Work shall be performed in accordance with Section 5-04.

5-04.4 Measurement

(******)

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

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

Preparation of untreated roadway will be measured by the mile once along the centerline of the main line Roadway. No additional measurement will be made for ramps, Auxiliary Lanes, service roads, Frontage Roads, or Shoulders. Measurement will be to the nearest 0.01 mile.

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

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

Asphalt for prime coat will be measured by the ton in accordance with Section 1-09.2.

Prime coat aggregate will be measured by the cubic yard, truck measure, or by the ton, whichever is designated in the Proposal.

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

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

Planing bituminous pavement will be measured by the square yard.

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

5-04.5 Payment

(******)

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

"HMA Cl. ½" PG 58H-22", per ton.

The unit Contract price per ton for "HMA Cl. ½" PG 58H-22" shall be full compensation for all labor, materials, equipment, and tools for furnishing, placing, compacting, and construction of asphalt pavement including, but not limited to, mix design, anti-stripping additive, mix design verification, preparation of untreated roadway, HMA driveways, soil residual herbicide, asphalt tack coat, spreading and finishing, water, compaction, sealing all cod joints with asphalt sealant (and sand blanket to alleviate tracking) and any other cost incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.

All costs for tack coat shall be considered incidental to and included in other unit Contract prices.

END OF DIVISION 5

DIVISION 7

DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWER, WATER MAINS, AND CONDUITS

7-03 VACANT

(******)
Delete this section and replace with the following

7-03 BIORETENTION FACILITY

7-03.1 Description

This work includes the placement of all materials necessary for the bioretention facility as shown on the contract plans.

7-03.2 Materials

Materials shall meet the following requirements:

Hydraulically Applied Erosion Control Products	9-14.5(2)
Topsoil Type A	9-14.2(1)
Permeable Ballast	9-03.9(2)
Construction Geotextile for Underground Drainage	9-33.2
Seed	9-14.3
Fertilizer	9-14.4
Quarry Spalls	9-13.1(5)

7-03.3 Construction Requirements

Construction Requirements are found in the following sections:

Topsoil Type A	8-02.3(4)
Permeable Ballast	4-04.3(12)
Construction Geotextile for Underground Drainage	2-12.3
Seeding and Fertilizing	8-02.3

7-03.4 Measurement

The bid item Bioretention Facility shall be measured per lump sum.

Excavation of the bioretention facility shall be measured per the bid item Roadway Excavation Incl. Haul as defined in section 2-03.

7-03.5 Payment

"Bioretention Facility" per lump sum

The Contract price per lump sum for "Bioretention Facility" shall be full compensation for all labor, materials, equipment, and tools for furnishing, placing, construction, and testing of the bioretention facility within the limits specified on the Plans and materials specified herein and on the Plans.

END OF DIVISION 7

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DIVISION 8
MISCELLANEOUS CONSTRUCTION

8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.3 Construction Requirements

(******)

Section 8-01.3 is supplemented with the following:

The Contractor shall bear sole responsibility for damage to completed portions of the project and to property located off the project caused by erosion, siltation, runoff, or other related items during the construction of the project. The Contractor shall also bear sole responsibility for any pollution of rivers, streams, groundwater, or other water that may occur as a result of construction operations.

Any area not covered with established, stable vegetation where no further work is anticipated for a period of 15 days, shall be immediately stabilized with the approved erosion and sedimentation control methods (e.g., seeding and mulching, straw, plastic sheet). Where seeding for temporary erosion control is required, fast germinating grasses shall be applied at an appropriate rate (e.g., perennial rye applied at approximately 80 pounds per acre).

At no time shall more than one foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned at a time designated by the City Construction Inspector. The cleaning operation shall not flush sediment-laden water into the downstream system. The cleaning shall be conducted using an approved vacuum truck capable of jet rodding the lines. The collection and disposal of the sediment shall be the responsibility of the Contractor at no cost to the City of Yelm.

8-01.3(8) Street Cleaning

(******)

Section 8-01.3(8) is supplemented with the following:

The Contractor shall provide for cleaning all surfaced roadways that have become dirty as a result of the execution of this project. This shall be done at the completion of each day's activities or more often if so directed by the Engineer. Street sweepers with a vacuum function shall be the only acceptable method used to clean. Flushing will not be permitted.

Contractor shall have a vacuum sweeper available, full-time, for the duration of the project.

Not having a full-time vacuum sweeper available and/or sufficient additional materials to react in a timely manner to changes may be grounds for the City to issue a Stop Work Order until the Contractor remedies the deficiency or the City may elect to have complete the street sweeping and deduct the cost from monies due to the Contractor. Time spent under a Stop Work Order in this situation shall not be grounds for a claim for additional payment or additional working days.

Roadway sweeping and cleaning shall be considered included in the lump sum "Erosion/Water Pollution Control" and no additional payment will be made.

8-01.3(9)D Inlet Protection

(******)
Section 8-01.3(9)D is supplemented with the following:

Inlet protection can be in the form of internal devices and shall be installed prior to clearing, grubbing or earthwork activities. Catch Basin Inserts shall be installed on existing catch basins within the project area and those immediately downstream of the project site that could possibly receive sediment laden runoff for the site. They shall be installed and meet the requirements specified on the Plans. Simply placing a piece of geotextile under the catch basin grate is not acceptable.

When the depth of accumulated sediment and debris reaches approximately one-half the height of an internal device or one-third the height of the external device (or less if so specified by the manufacturers), the deposits shall be removed. Contractor shall be responsible for removing catch basin inserts upon completion of the project.

8-01.3(16) Removal

(******)
Section 8-01.3(16) is supplemented with the following:

Removing Temporary Erosion / Water Pollution Control BMPs
The Contractor shall removal all Temporary Erosion / Water Pollution Control BMPs within twenty (20) days after final slope stabilization, landscape restoration, or after the BMPs are no longer needed. Trapped sediment shall be removed or stabilized on site.

(******)
Add the following new section:

8-01.3(17) Suspension of Work

If at any time during the life of this Contract the Contractor requests to suspend work due to weather conditions or other constraints, it shall be the Contractor's responsibility to meet the Temporary Erosion / Water Pollution Control requirements of the Bid Documents, including maintenance and repair of BMPs already installed, at all times during suspension.

8-02 ROADSIDE RESTORATION

8-02.1 Description

(******)
Section 8-02.1 is supplemented with the following:

This work consists of restoring areas disturbed during construction activities by placing and grading topsoil, placing and grading bark mulch in landscaped areas, and all other restoration as shown in the Plans.

8-02.3 Construction Requirements

8-02.3(4) Topsoil

(******)
Section 8-02.3(4) is supplemented with the following:

The Contractor shall thoroughly scarify surface by tilling, disking, or harrowing after the subgrade has been backfilled to the elevations needed to establish finished grade after topsoil placement as indicated on the Plans. Prior to placement, the Engineer shall approve topsoil material. If the Contractor furnishes and places topsoil without prior approval, it shall be done at the Contractor's expense. Final grading shall include raking, floating, dragging, and rolling to remove all surface irregularities and to provide a firm, smooth surface with positive drainage.

8-02.3(4)A Topsoil Type A

(August 3, 2015 WSDOT GSP)
Section 8-02.3(4)A is supplemented with the following:

Topsoil Type A shall be placed to a non-compacted depth of *** 4 *** inches unless otherwise noted on the plans. The topsoil shall be thoroughly blended prior to placement.

The Contractor shall submit a Type 1 Working Drawing consisting of independent test results from an accredited laboratory demonstrating the Topsoil Type A meets the requirements of Section 9-14.2(1). The Type 1 Working Drawing shall also include the Request for Approval of Material in accordance with Section 1-06.1(2).

8-02.3(9) Seeding, Fertilizing, and Mulching

Supplement this section with the following:
(******)

Seed shall be broadcast with approved hydraulic seeding equipment, in combination with wood-cellulose fiber mulch, soil stabilizer and fertilizer distributed uniformly over designated areas. Half of seed shall be sown with sower moving in one direction, the other half with sower moving at right angles to first sowing. Seed shall not be broadcast during windy weather. Hydroseeding operator shall remove all seed mulch in its entirety from adjoining paving, structures and plants.

8-02.3(9)A Dates for Application

Delete the first paragraph and replace with the following:

There shall be no restriction on dates for application of seed.

8-02.3(9)B Seeding and Fertilizing

(September 3, 2019 WSDOT GSP)
Section 8-02.3(9)B is supplemented with the following:

Seed of the following mix, rate, and analysis shall be applied at the rates shown below on all areas requiring *** bioretention*** seeding within the project:

Seed by Common Name, (Botanical Name), and "Source Identification"	Pounds Pure Live Seed (PLS) Per Acre
*** 40% Jaguar Tall Fescue	70
30% Barclay Perennial Ryegrass	52
25% Red Creeping Fescue	44
5% Highland Colonial Bentgrass	9
Total	175 ***

Source Identified seed shall be generation four or less. Non-Source Identified seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the appropriate genetic zones of the *** 7.0 *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).

The seed certification class shall be Certified (blue tag) in accordance with WAC 16-302 and meet the following requirements:

Prohibited Weed	0% max.
Noxious Weed	0% max.
Other Weed	0.20% max.
Other Crop	0.40% max.

The Contractor shall document all Source Identified seed by providing the Association of Official Seed Certifying Agents (AOSCA) yellow seed label for each species in the mix. Site Identification Logs can be supplied for collections where the AOSCA yellow label is not available.

8-02.4 Measurement

(******)

Section 8-02.4 is supplemented with the following:

Topsoil Type A, where included in the proposal, shall include all topsoil placed outside of the Bioretention Facility.

Measurement for all materials used for the construction of the bioretention facility will be included in the lump sum item "Bioretention Facility" as described in Section 7-03.

8-04 CURBS, GUTTERS, AND SPILLWAYS

8-04.3 Construction Requirements

(******)

Supplement this section with the following:

When curb elevations are shown on the Contract Drawings they are approximate and shall be adjusted as required based on field conditions and as needed to provide positive drainage.

The Contractor shall have the subgrade prepared and formwork in place at least 24 hours prior to pouring concrete. The Engineer shall review the line and grades of the curb and the Contractor shall make minor adjustments as necessary. Minor adjustment shall be considered changes to the Plan elevations or offsets of 3 inches or less. The work to revise the lines, formwork and subgrade for minor adjustments shall be considered incidental to the bid price.

If the lines and formwork are not in conformance with the Plans, all adjustments, regardless of size, shall be at the sole expense of the Contractor. Adjustments to the lines and grades shall not constitute a basis for claims for additional contract time or expenses.

The curb shall be protected against damage or defacement of any kind until it has been accepted by the City Construction Inspector. Work that is not acceptable to the City Construction Inspector because of damage or defacement shall be removed and replaced by the Contractor at his own expense.

Pigmented curing compounds shall not be used on curb and gutter. Only clear curing compounds will be permitted.

Lip of gutter at all curb ramps shall be flush, no exceptions will be given.

8-04.4 Measurement

(******)

Supplement this Section with the following:

The unit bid price for Cement Conc. Barrier Curb shall be measured per linear foot and shall include all materials, haul and installation as specified in the Plans, including concrete, rebar, and CSTC base materials. Construction of curb cuts as specified on the Plans are included in the unit price and no additional measurement will be made.

The unit bid price for Manufactured wheel stop shall be measured per each and shall include all materials, haul and installation as specified in the Plans.

8-04.5 Payment

(******)

Supplement this Section with the following:

"Cement Conc. Barrier Curb" per linear foot

"Manufactured Wheel Stop" per each

8-14 CEMENT CONCRETE SIDEWALKS

8-14.2 Materials

(******)

Supplement this section with the following:

Concrete sidewalks shall be commercial concrete.

8-14.3 Construction Requirements

(******)

Supplement this section with the following:

The Contractor shall receive approval of the Engineer for the line and grade of the sidewalk being installed prior to pouring the concrete. The Contractor shall have the subgrade prepared and formwork in place at least 24 hours prior to pouring concrete. The Engineer shall review the line and grades of the sidewalk and the Contractor shall make minor adjustments as necessary. Minor adjustment shall be considered changes the Plan elevations or offsets of 3 inches or less. The work to revise the lines, formwork and subgrade for minor adjustments shall be considered incidental to the bid price for cement concrete sidewalk.

If the lines and formwork are not in conformance with the Plans, all adjustments, regardless of size, shall be at the sole expense of the Contractor. Adjustments to the lines and grades shall not constitute a basis for claims for additional contract time or expenses.

The sidewalk cross slope shall be 2% or less. Any sidewalk installed at a cross slope greater than 2% without prior written approval of Engineer shall be removed and replaced at the Contractor's expense.

8-14.3(5) Detectable Warning Surface

(******)

Supplement this Section with the following:

Whenever Detectable Warning Surfaces are to be installed with curb ramps that are located on a curve, the Contractor shall provide a radius detectable warning surface (manufactured specifically to be installed on the specified radius) that matches the radius of the curb. If a commercially available radius detectable warning surface is not available for a specified radius, the Contractor shall submit a plan to the Engineer for cutting the detectable warning surface to match the radius. In any case, detectable warning system placement and orientation shall comply with WSDOT standard plan F-45.10-02.

Add the following new section:

8-14.3(6) Curb Ramps

(******)

Some of the curb ramps on this project may have been modified from the standard details to fit the project conditions while meeting current ADA requirements. Contractor shall take special care to assure that the ramps are constructed in conformance with ADA requirements. The following requirements shall apply to all curb ramps:

1. Truncated Domes shall be placed on the bottom two feet of the ramp.
2. The landing length shall be a minimum of 48-inches
3. The cross slope of the landing or ramp shall not be steeper than 1.75%.
4. The longitudinal slope (up or down the ramp) of the ramp shall not exceed 8%.
5. The Flare Side Slopes shall not exceed 10%.

Compliance with ADA Standards is taken very serious and minor modifications to the dimensions shown on the Plans may be required to meet current standards. Therefore, prior to pouring concrete at the curb ramp locations, the Contractor shall have each ramp inspected and receive written approval from the on-site inspector that the forms are set in compliance with ADA Standards. Ramps poured without written approval that do not meet current ADA standards shall be removed and replaced at the Contractors expense, regardless of whether or not they conform to the dimensions shown on the Plans.

Concrete which is not placed such that the finished surface is a flat and uniform plane may result in non-compliance to the ADA standards and shall be removed and replaced at the Contractors expense.

Per the Standard Specifications, detectable warning surfaces shall be furnished and installed on each curb ramp.

Pedestrian curbs shall be placed where shown on the Plans and where necessary to transition from lowered grade at depressed concrete ramps to the adjacent finished grade.

Contractor shall set all concrete forms, check for ADA Compliance, and then obtain written approval from the Engineer for each curb ramp prior to placement of concrete.

8-14.4 Measurement

(******)

Supplement this section with the following:

Pedestrian curb will not be measured for payment. All costs to construct pedestrian curbs shall be included in the curb ramp unit price.

8-19 VACANT

Section 8-19 is replaced with the following:

(******)

8-19 RESOLUTION OF UTILITY CONFLICTS

8-19.1 Description

This work involves the identification and resolution of utility conflicts not identified on the Plans or during potholing per Section 2-02.3(4) between proposed improvements and existing utilities. The City will pay these costs by force account if the work proves to be acceptable and the Contractor has performed the work with the authority of and due notice to the Engineer.

8-19.2 Construction Requirements

Utility conflicts discovered during construction will typically be addressed by adjusting the location of the proposed utility that is in conflict with the existing utility. Should existing conditions and/or proposed improvements prohibit relocation of the new improvements, then the existing, conflicting utility will be relocated.

In the event that a conflict arises between the proposed improvements and an existing utility, the Resolution of Utility Conflicts item will compensate the Contractor for standby time and additional work in the following manner:

1. Standby time resulting from existing utility conflicts

    a. Standby time is defined as time the Contractor is unable to proceed with progression of a specific work item due to conflicts with existing facilities. However, payment for standby time shall be limited to:

        i. For each agreed upon conflict, a maximum of 2 hours of standby time will be paid for actual delay of labor and equipment due to a utility conflict. The Contractor shall be responsible to adjust his work schedule and/or reassign his work forces and equipment to other areas of work to minimize standby time.

        ii. If the conflict is resolved within one (1) hour of verbal notification to the Engineer, no standby time will be paid.

iii. No standby time will be paid if Contractor forces can be redirected to other portions of work. Availability of other work shall be at the sole discretion of the Engineer.

2. Additional work required to resolve utility conflicts will be paid for at the Bid unit prices for the associated work. Work that can be measured and paid for at the unit Contract prices shall not be identified as force account work.

8-19.4 Measurement

Measurement and payment for Resolution of Utility Conflicts shall be by "Minor Change" per Section 1-04.4(1).

8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL

8-20.1 Description

(******)
Supplement this section with the following:

Work includes furnishing and installing all materials necessary to provide:

- Installation of electric vehicle charging stations.
- Installation of spare conduit and junction boxes in the parking lot.

All work associated with light poles including foundations will be provided and installed by the City of Yelm and are not included in this contract.

8-20.1(2) Industry Codes and Standards

(******)
Supplement this section with the following:

National Electrical Safety Code (NESC)
PO Box 1331, 445 Hoes Lane
Piscataway, New Jersey

8-20.1(3) Electrical Permits and Inspection

(******)
Supplement this section with the following:

The Contractor shall be responsible for coordinating, obtaining, and paying for all permits necessary to complete this work in a timely fashion. An electrical permit shall be obtained before beginning of trench excavation.

8-20.2 Materials

8-20.2(1) Equipment List and Drawings

(******)
Supplement this section with the following:

Manufacturer's data for all materials proposed for use in the contract which require approval shall be submitted in one complete package.

8-20.3 Construction Requirements

8-20.3(5) Conduit

8-20.3(5)A General

(******)
Supplement this section with the following:

The Contractor shall provide and install all conduit and necessary fittings at the locations noted on the Plans. Conduit size shall be as indicated on the Plans. If the Contractor elects to use larger conduit without reasonable justification, the Contractor will be responsible for any increase in cost due to other changes required.

Conduits shall be capped during construction using manufactured seals to prevent entrance of water and debris. The conduits shall be cleaned before pulling wire. Spare conduits shall include a bull-line tape. Spare conduits shall be capped and labeled as City of Yelm conduits.

All conduit installed underground shall have polyethylene Underground Hazard Marking Tape, 6 inches wide, red, legend “Caution-Electric Line Buried Below,” placed approximately 12 inches above the conduit.

8-20.3(5)E Method of Conduit Installation

8-20.3(5)E1 Open Trenching

(******)
Supplement this section with the following:

The Contractor shall provide trenching as specified herein, regardless of the material encountered, as necessary for complete and proper installation of the signal and illumination conduit. Trenching shall conform to the following:

References in Item #5 to “Roadway” shall also apply to paved parking lot areas.

8-20.3(6) Junction Boxes, Cable Vaults, and Pull boxes

(******)
Supplement this section with the following:

The Contractor shall supply all junction boxes. The locations of the junction boxes shown in the Plans are approximate and final locations shall be verified by the Engineer in the field prior to placement. The junction box locations shall not interfere with any other previous or relocated installations.

Junction boxes shall not be placed in the travel way or in asphalt parking areas.

Wiring shall not be pulled into any conduit until all associated junction boxes have been adjusted to, or installed in, their final grade and location, unless installation is necessary to maintain system operation. If wire is installed for this reason, sufficient slack shall be left to allow for future adjustment junction boxes are installed or adjusted prior to construction of finished grade, pre-molded joint filler for expansion joints may be placed around the junction boxes. The joint filler shall be removed prior to adjustment to finished grade.

8-20.3(8) Wiring

(******)
Supplement this section with the following:

All wires terminated at a terminal block shall have an open end, crimp style solder-less, insulated terminal. All terminals shall be installed with a tool designed for the installation of this type of terminal. Crimping with pliers, wire cutters, etc., will not be allowed. Terminals shall be color coded to the wire and sized to fit snugly on wire ends. No exposed conductor will be allowed. All wiring inside the controller cabinet and at intermediate points shall be trimmed and cabled together to make a neat and clean-appearing installation.

The un-fused service wires between the Puget Sound Energy transformer and the service cabinet shall be labeled “Un-fused Service” at all terminal ends.

The Contractor shall provide to the City of Yelm a red-line print of the wiring diagram showing as-built information of the field wiring prior to acceptance of the project by the City.

8-20.3(9) Bonding, Grounding

(******)
Supplement this section with the following:

Location wires shall not be connected to the equipment-grounding system.

8-20.3(10) Service, Transformer, and ITS Cabinets

(******)
Supplement this section with the following:

The City has completed an electrical service application with Puget Sound Energy and made arrangements for a new electrical service connection. The Contractor shall coordinate with PSE to schedule the service connection, meter installation, and all required inspections.

A 3-wire electrical service shall be used at 120/240 volts, single phase, 60-hertz AC between the power source and the service cabinet. The unfused power shall enter the service cabinet through a separate conduit.

The Contractor shall install a service cabinet as specified. The service cabinet shall be mounted on a concrete base with anchor bolts fastening to the inside of the base of the cabinet. The street illumination components shall be connected to the 240-volt, 60-hertz power. The Traffic Signal systems shall be connected to the 120-volt, 60-hertz elements. No on-site modifications to the cabinet will be allowed.

The Contractor shall have the services inspected by the Department of Labor & Industries and shall be solely responsible for coordination with the power company to have the service energized. The City will aid in this process at the request of the Contractor.

The service cabinets shall be shipped and delivered to the job site in a protective covering with suitable dunnage to prevent damage to the exterior surface.

Add the following new Section:

(******)

8-20.3(18) Electric Vehicle Charging Stations

The Contract includes furnishing and installing electric vehicle charging stations in the quantity and location specified in the Plans.

Charging stations shall be installed as directed in the Plans and per the Manufacturer's recommendations.

A copy of the installation instruction and operations manual shall be provided to the City with the Request for Approval of Material.

Installation of the charging stations shall include footings and bollards as specified in the Plans.

8-20.4 Measurement

(******)
Supplement this section with the following:

When shown as lump sum in the Plans or in the proposal as "Electric Vehicle Charging Station System, Complete" or "Spare Conduit System, Complete", no specific unit of measurement will apply, but measurement will be for the sum total of all items for a complete system to be furnished and installed.

Surface restoration (regardless of surfacing type) for areas disturbed by activities associated with installing Electrical System equipment per this Section and not otherwise called out for replacement or in excess of the limits shown in the Plans, shall be included in the respective lump sum price and no additional measurement shall be made.

8-20.5 Payment

(******)
Supplement this section with the following:

"Electric Vehicle Charging Station System, Complete", lump sum.

The lump sum bid price for Electric Vehicle Charging Station System, Complete" in the Proposal shall be full compensation for the costs of all labor, tools, equipment, and materials necessary or incidental to the complete installation of the electric vehicle charging station system including but not limited to electric vehicle charging station equipment, electrical service cabinet, pedestals, foundations, bollards, trenching, borings, excavation, conduit bedding, trench backfill, power connections (including coordination with the power company), disposal of excavated materials, conduit, junction boxes, wiring, and restoring all facilities damaged or destroyed during construction

(unless specifically called out for replacement per the Plans), and for all required tests, inspections, and permits. All additional materials and labor, not shown on the plans or called for herein and which are required to provide a complete and functional system called for in the Plans and these Special Provisions, shall be included in the lump sum bid price in the Proposal.

"Spare Conduit System, Complete", lump sum.

The lump sum bid price for Spare Conduit System, Complete" in the Proposal shall be full compensation for the costs of all labor, tools, equipment, and materials necessary or incidental to the complete installation of the spare conduit system including but not limited to trenching, borings, excavation, conduit bedding, trench backfill, disposal of excavated materials, conduit, junction boxes, and restoring all facilities damaged or destroyed during construction (unless specifically called out for replacement per the Plans), and for all required tests, inspections, and permits. All additional materials and labor, not shown on the plans or called for herein and which are required to provide a complete and functional system called for in the Plans and these Special Provisions, shall be included in the lump sum bid price in the Proposal.

8-21 PERMANENT SIGNING

8-21.3 Construction Requirements

(******)

Supplement this section with the following:

Contractor shall provide new mounting hardware and posts where existing signs are designated for relocation on the Plans.

All signs, shall be installed per WSDOT Standard Plans as shown in the plans.

Upon completion of the project, the Contractor shall reset all signs, which have been disturbed or removed during the construction, in their permanent location to the satisfaction of the Owner.

8-21.5 Payment

Supplement this section with the following:

"Permanent Signing", per lump sum.

The lump sum cost in the Proposal shall be full compensation for all labor, tools, equipment, and materials necessary or incidental to removing the existing signing as needed to accommodate construction activities; temporarily reinstalling signs; purchasing and installing new signs; and permanently reinstalling signs on new posts using new hardware in conformance with the Standard Details.

8-22 PAVEMENT MARKING

8-22.3 Construction Requirements

(******)

Supplement this section with the following:

Pavement markings for parking space identification shall be as detailed in the Plans.

8-22.4 Measurement

(******)

Supplement this section with the following:

The unit bid price for Parking Space Identification Marking shall be per each and shall include all materials and installation as specified in the Plans. The unit bid price shall be for the completed marking of each designated parking space, regardless of number of letters or overall size.

8-22.5 Payment

(******)

Supplement this section with the following:

"Parking Space Identification Marking," per Each

8-26 VACANT

Section 8-26 is replaced with the following:
(October 3, 2022 WSDOT GSP)

8-26 BOLLARDS

8-26.1 Description

This work shall consist of furnishing and installing steel bollards in accordance with the Plans, Standard Plans, and these Specifications, at the locations shown in the Plans or as staked by the Engineer.

8-26.2 Materials

Posts and Hardware

Type 1 and Type 2 bollard posts shall be in accordance with the Standard Plans and ASTM A 53, NPS 3 (3" Nom.) schedule 80 steel pipe. Post sleeves shall be ASTM A 53, NPS 4 (4"Nom.) schedule 40 steel pipe.

Type 3 bollard posts shall be steel structural tubing in accordance with the Plans and ASTM A 500 Gr B.

Steel plate shall be in accordance with ASTM A 36.

All steel parts shall be hot-dip galvanized after fabrication in accordance with AASHTO M 111.

Reflective Tape

Reflective tape shall be in accordance with Section 9-28.12.

Concrete

Footings shall be constructed using concrete Class 3000.

8-26.3 Construction Requirements

Bollards shall be constructed in accordance with the Standard Plans.

Bollards shall not vary more than ½ inch in 30 inches from a vertical plane.

Bollard posts and the exposed parts of the base assembly shall be painted in accordance with Section 6-07.3(11) for galvanized surfaces. The top coat shall match SAE AMS Standard 595, Color No. 33538 Traffic Signal Yellow.

8-26.4 Measurement

Payment for bollards is included in the lump sum price for Electric Vehicle Charging Stations, Complete in Section 8-20 of these Special Provisions, and no additional measurement will be made.

END OF DIVISION 8

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DIVISION 9
MATERIALS

9-13 RIPRAP, QUARRY SPALLS, SLOPE PROTECTION, AND ROCK FOR EROSION AND SCOUR PROTECTION AND ROCK WALLS

9-13.1 Riprap and Quarry Spalls

9-13.1(5) Quarry Spalls

(******)

This Section is replaced with the following:

Quarry Spalls shall be 2”-4” nominal and shall be free of fines.

9-14 EROSION CONTROL AND ROADSIDE PLANTING

9-14.2 Topsoil

9-14.2(1) Topsoil Type A

(******)

Section 9-14.2(1) is supplemented with the following:

Topsoil Type A shall meet the following requirements:

1. Cation exchange capacity (CEC) of Topsoil Type A shall be a minimum of 5 milliequivalents CEC/100 g dry soil (U.S. EPA Method 9081).
2. Organic content greater than 8-percent but less than 15-percent as measured on a dry weight basis using AASHTO T 267 Determination of Organic Content in Soils by Loss on Ignition.

Topsoil Type A shall be 60% Loam and 40% Coarse Compost by volume. Loam shall be as defined by the US Department of Agriculture Soil Classification System.

The Contractor shall submit a Particle Size Analysis as a Type 1 Working Drawing from an independent accredited soils testing laboratory indicating the Material source and compliance with all Topsoil Type A specifications. The laboratory analysis shall be with a sample size of no less than 2 pounds.

The Coarse Compost shall conform to the requirements of Section 9-14.5(8).

9-14.3 Fertilizer

(******)

Supplement this section with the following:

Commercial fertilization mix 10-20-20 applied at the rate of 10 pounds per 1000 S.F. suitable for hydroseed application. `

9-14.4(3) Bark or Wood Chip Mulch

(******)

Supplement this section with the following:

Bark mulch shall be medium grade composted ground fir or hemlock bark.

The bark shall be uniform in color, free from weed seeds, sawdust and splinters. The mulch shall not contain resin, tannin, wood fiber or other compounds detrimental to plant life. The moisture content of bagged mulch shall not exceed 22%. The acceptable size range of bark mulch material is ½-inch to 1-inch with maximum of 20% passing the ½-inch screen.

9-29 ILLUMINATION, SIGNALS, ELECTRICAL

9-29.2 Junction Boxes, Cable Vaults, and Pull Boxes

Section 9-29.2 is supplemented with the following:
(September 3, 2019 WSDOT GSP)

Slip-Resistant Surfacing for Junction Boxes, Cable Vaults, and Pull Boxes

Where slip-resistant junction boxes, cable vaults, or pull boxes are required, each box or vault shall have slip-resistant surfacing material applied to the steel lid and frame of the box or vault. Where the exposed portion of the frame is ½ inch wide or less, slip-resistant surfacing material may be omitted from that portion of the frame.

Slip-resistant surfacing material shall be identified with a permanent marking on the underside of each box or vault lid where it is applied. The permanent marking shall be formed with a mild steel weld bead, with a line thickness of at least 1/8 inch. The marking shall include a two character identification code for the type of material used and the year of manufacture or application. The following materials are approved for application as slip-resistant material, and shall use the associated identification codes:

1. Harsco Industrial IKG, Mebac #1 - Steel: **M1**
2. W. S. Molnar Co., SlipNOT Grade 3 – Coarse: **S3**
3. Thermion, SafTrax TH604 Grade #1 – Coarse: **T1**

9-29.24 Service Cabinets

Supplement this section with the following:

A copy of the wiring diagram shall be provided in a plastic holder mounted conveniently inside the service cabinet. Nameplates shall be provided for each control component and shall be embossed phenolic with white letters on black background.

Each electrical service cabinet shall be equipped with a top of the cabinet mounted photocell.

Cabinets shall be constructed from anodized aluminum. Cabinets shall be painted white on the inside.

The service cabinet wiring shall be arranged so that any piece of apparatus may be removed without disconnecting any wiring except the lead to that piece of apparatus. All wiring shall be appropriately marked with a permanent, indelibly marked, clip sleeve wire marker.

The service cabinet panel board shall be as specified in the Panel Schedule in the Plans.

There shall be space within the cabinet for the future addition of 3 lighting contactors. Each service cabinet door shall be equipped with 3-point latch and provisions for a padlock.

The service cabinet must meet current PSE requirements and it will be the responsibility of the Contractor to confirm equipment meets their requirements.

The cabinets shall meet all applicable provisions of Labor and Industries and shall be labeled for service entrance use.

9-29.26 Electric Vehicle Charging Stations

Add the following new Section:
(******)

Electric Vehicle Charging Station shall be Tesla brand Universal Wall Connector, with Pedestal, rated for outdoor use. Station shall be compatible with 40-amp circuit as detailed in the Panel Schedule on the Plans.

END OF DIVISION 9

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APPENDICES

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APPENDIX A –
PUBLIC SERVICES CONTRACT

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PUBLIC SERVICES CONTRACT
FOR
NAME OF PROJECT
(Location)
Project No. _____

THIS PUBLIC WORKS CONTRACT ("Contract") is dated effective this _____ day of _____, 202__ and is made by and between the City of Yelm, a Washington municipal corporation ("City or Owner"), and _____, a _____ ("Contractor").

A. The City desires to retain an independent contractor to furnish all labor and materials necessary to perform work necessary to complete STAFF: DESCRIBE WORK HERE), located at _____, Yelm, Washington ("Property"); and

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

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

1. SERVICES BY CONTRACTOR

1.1 Description of Work. Contractor shall perform all work and furnish all tools, materials, supplies, equipment, labor and other items incidental thereto necessary for the construction and completion of the work, more particularly described as the **NAME OF PROJECT (Location) Project No. _____** project, including without limitation:

Add specific language relating to the work here

_____
_____
_____, ("Work"), in accordance with and as described in the Contract Documents, which include without limitation, this Contract, Request for Bids, Bidder's Checklist, Instructions to Bidders, General Contractual Terms and Conditions, Bid Form, Bid Signature Page, Bid Bond, Combined Affidavit and Certification Form, Contractor's Compliance Statement, Notice of Completion of Public Works Contract attached as Exhibit A, Contract Change Order Agreement attached as Exhibit B, Contractor's Retainage Agreement attached as Exhibit C, Retainage Bond to City of Yelm Way attached as Exhibit D, Notice to Labor Unions or Other Employment Organizations Nondiscrimination in Employment attached as Exhibit E, Certificate(s) of Insurance Form attached hereto as Exhibit F, Performance / Payment Bond attached hereto as Exhibit G, Title VI Assurances attached hereto as Exhibit H, Standard Plans and Details attached as Appendix A, current Prevailing Wage Rates attached as Appendix B, Warranties attached as Appendix C, and 2016 WSDOT / APWA Standard Specifications for Road, Bridge and Municipal Construction **[INCLUDE AS NECESSARY]** ("Standard Specifications") and all other Appendices attached hereto and incorporated by this reference, (collectively the "Contract Documents"), which Work shall be completed to the City's satisfaction, within the time period prescribed by the City and pursuant to the direction of the Mayor or his or her designee.

1.2 Completion Date. The Work shall be commenced within five (5) days of receipt by the Contractor of the City's Notice to Proceed. The Work shall be completed on or before _____, 202__. In the event the Work is not substantially completed within the time specified, Contractor agrees to pay to the City liquidated damages in the amount set forth in the formula included in Section 1.3 of this Contract. The Work shall not be deemed completed until the

City has accepted the Work and delivered a written Notice of Completion of Public Works Contract in the form attached hereto as Exhibit "A".

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

(1) To pay (according to the following formula) liquidated damages for each working day beyond the number of working days established for completion, and

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

LIQUIDATED DAMAGES FORMULA

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

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

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

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

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

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

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

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

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

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

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

2. TERM

This Contract shall commence on the effective date of this Contract and continue until the completion of the Work, which shall be no later than _____, 202__ to complete, and the expiration of all warranties contained in the Contract Documents ("Term").

3. WARRANTY

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

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

4. COMPENSATION

CHOOSE ONE (Alternative Provision:)

4.1 Total Compensation. In consideration of the Contractor performing the Work, the City agrees to pay the Contractor an amount not to exceed _____ and 00/100 Dollars ($ _____), which amount shall constitute full and complete payment by the City ("Total Compensation").

(OR)

4.1 Total Compensation. In consideration of the Contractor performing the Services, the City agrees to pay the Contractor an amount not to exceed _____ and 00/100 Dollars ($ _____) calculated as follows:

(i) Contractor's Fee. An amount not to exceed the sum of _____ and 00/100 Dollars ($ _____), (Optional phrase: calculated on the basis of the hourly labor charge rate schedule for Contractor's personnel attached hereto as Exhibit "H";) (Optional sales tax clause: and Washington State sales tax not to exceed _____ and 00/100 Dollars ($ _____); and

(Optional Section ii:)

(ii) Reimbursable Expenses. The actual customary and incidental expenses incurred by Contractor in performing the Services including _____ and other reasonable costs; provided, however that such costs shall be deemed reasonable in the City's sole discretion and shall not exceed _____ and 00/100 Dollars ($ _____).

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

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

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

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

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

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

5. EQUAL OPPORTUNITY EMPLOYER

In all Contractor services, programs or activities, and all Contractor hiring and employment made possible by or resulting from this Contract, there shall be no discrimination by Contractor or by Contractor's employees, agents, subcontractors or representatives against any person because of sex, age (except minimum age and retirement provisions), race, color, creed, national origin, marital status or the presence of any disability, including sensory, mental or physical handicaps, unless based upon a bona fide occupational qualification in relationship to hiring and employment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. Contractor comply with and shall not violate any of the terms of Chapter 49.60 RCW, Title VII of the Civil Rights Act of 1964, the Americans With Disabilities Act, Section 504 of the Rehabilitation Act of 1973, 49 CFR Part 26, or any other applicable federal, state, or local law or regulation regarding non-discrimination. Any material violation of this provision shall be grounds for termination of this Contract by the City and, in the case of the Contractor's breach, may result in ineligibility for further City agreements. If this project involves federal funds including USDOT funds administered by WSDOT, the contractor agrees to the clauses contained in Exhibit H.

6. INDEPENDENT CONTRACTOR/CONFLICT OF INTEREST

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

6.2 If the Contractor is a sole proprietorship or if this is a contract with an individual, the contractor agrees to notify the City and complete any required form if the Contractor retired under

a State of Washington retirement system and agrees to indemnify any losses the City may sustain through the Contractor's failure to do so.

7. CITY'S RIGHT TO TERMINATE CONTRACT

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

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

(1) If the Contractor should be adjudged a bankrupt.

(2) If the Contractor should make a general assignment for the benefit of its creditors.

(3) If a receiver should be appointed on the account of insolvency of Contractor.

(4) If Contractor should persistently or repeatedly refuse or fail to supply a sufficient number of properly skilled workmen or proper materials for completion of the Work.

(5) If the Contractor should fail to complete the Work within the time specified in this Contract.

(6) If the Contractor should fail to complete the Work in compliance with the plans and specifications, to the City's satisfaction.

(7) If the Contractor should fail to make prompt payment to subcontractors or for material labor.

(8) If Contractor should persistently disregard laws, ordinances or regulations of federal, state, or municipal agencies or subdivisions thereof.

(9) If Contractor should persistently disregard instructions of the Mayor or his or her representative.

(10) If Contractor shall be in breach or violation of any term or provision of this Contract, or

(11) If the Work is not being performed pursuant to RCW 49.28.050 or 49.28.060.

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

(1) Stop payments. The City shall cease any further payments to Contractor and Contractor shall be obligated to repay any payments it received under this contract.

(2) Complete Work. The City may, but in no event is the City obligated to, complete the Work, which Work may be completed by the City's agents, employees or representatives or the City may retain independent persons or entities to complete the Work. Upon demand, Contractor agrees to pay to the City all of its costs and expenses in completing such Work.

(3) Take Possession. The City may take possession of the Property and any equipment and materials on the Property and may sale the same, the proceeds of which shall be paid to the City for its damages.

(4) Remedies Not Exclusive. No remedy or election under this Contract shall be deemed an election by the City but shall be cumulative and in addition to all other remedies available to the City at law, in equity or by statute.

8. INDEMNIFICATION

8.1 Contractor Indemnification. The Contractor agrees to indemnify, defend, and hold the City, its elected officials, officers, employees, agents, and volunteers harmless from any and all claims, demands, losses, actions and liabilities (including costs and all attorney fees) to or by any and all persons or entities, including, without limitation, their respective agents, licensees, or representatives, arising from, resulting from, or connected with this Contract to the extent caused by the negligent acts, errors or omissions of the Contractor, its partners, shareholders, agents, employees, or by the Contractor's breach of this Contract. Contractor waives any immunity that may be granted to it under the Washington State Industrial Insurance Act, Title 51 RCW. Contractor's indemnification shall not be limited in any way by any limitation on the amount of damages, compensation or benefits payable to or by any third party under workers' compensation acts, disability benefit acts or any other benefits acts or programs.

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

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

9. INSURANCE

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

(1) Workers' compensation and employer's liability insurance in amounts sufficient pursuant to the laws of the State of Washington;

(2) Commercial general liability insurance with combined single limits of liability not less than $2,000,000 for bodily injury, including personal injury or death, products liability and property damage.

(3) Automobile liability insurance with combined single limits of liability not less than $2,000,000 for bodily injury, including personal injury or death and property damage.

IF SUBSECTION (4) DOES NOT APPLY TO YOUR PROJECT, PLEASE DELETE. IF YOU ARE UNSURE IF IT APPLIES, PLEASE CONTACT RISK MANAGEMENT

(4) If any structures are involved in the Contract, the Contractor shall maintain an All Builder's Risk form at all times in an amount no less than the value of the structure until final acceptance of the project by the City.

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

(1) The City, its officers, officials, employees, volunteers and agents shall each be named as additional insured.

(2) Coverage may not be terminated or reduced in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, to the City.

(3) Coverage shall be primary insurance as respects the City, its officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officials, employees or volunteers shall be in excess of Contractor's insurance.

(4) Coverage shall apply to each insured separately against whom claim is made or suit is brought.

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

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

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

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

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

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

10. PERFORMANCE/PAYMENT BOND

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

11. SAFETY

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

12. PREVAILING WAGES

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

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

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

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

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

(1) Sole owners and their spouses;

(2) Any partner who owns at least 30% of a partnership;

(3) The President, Vice President and Treasurer of a corporation if each one owns at least 30% of the corporation.

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

(1) A copy of an approved "Statement of Intent to Pay Prevailing Wages" State L&I form number F700-029-000. The City will make no payment under this contract for the work performed until this statement has been approved by State L&I and a certified copy of the approved form has been submitted to the City.

(2) A copy of an approved "Affidavit of Prevailing Wages Paid," State L&I form number F700-007-000. The City will not release to the contractor any funds retained under Chapter 60.28.011 RCW until all of the "Affidavit of Prevailing Wages Paid" forms have been approved by State L&I and a certified copy of all the approved forms have been submitted to the City.

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

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

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

13. FAILURE TO PAY SUBCONTRACTORS

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

14. OWNERSHIP OF DOCUMENTS

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

15. CONFIDENTIALITY

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

16. BOOKS AND RECORDS

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

17. CLEAN UP

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

18. CONTRACTOR AND SUBCONTRACTOR RESPONSIBILITY:

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

18.2 Subcontractor Contracts. The Contractor shall include the language of this section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this section apply to all subcontractors regardless of tier.

18.3 Subcontractor Verification. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria: Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal; Have a current Washington Unified Business Identifier (UBI) number; Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065 (3); Have Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW, if applicable; A Washington Employment Security Department number, as required in Title 50 RCW, if applicable; A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW, if applicable; An electrical contractor license, if required by Chapter 19.28 RCW, if applicable; An elevator contractor license, if required by Chapter 70.87 RCW.

19. GENERAL PROVISIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DATED the day and year set forth above.

CITY OF YELM

By: _____
Joe DePinto, Mayor
City of Yelm,
106 Second Ave. SE, Yelm WA 98597

ATTEST:

_____
Kathy Linnemeyer, City Clerk

APPROVED AS TO FORM:

_____
City Attorney, Brent Dille

[CONTRACTOR'S NAME]

By: _____
(Signature)

_____
(Name)

_____

_____
(Address)
_____
(Phone)

STAFF SELECT APPROPRIATE NOTARY BLOCK FOR APPLICANT

[Individual Notary]

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

On this day personally appeared before me, _____, to me known to be the individual described in and who executed the foregoing instrument, and on oath swore that he/she/they executed the foregoing instrument as his/her/their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN my hand and official seal this _____ day of _____, 20__.

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

[Corporate Notary]

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

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

GIVEN my hand and official seal this _____ day of _____, 20__.

_____

_____

(typed/printed name of notary)

Notary Public in and for the State of Washington.

My commission expires _____

EXHIBIT A

NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT

☐ Original
☐ Revised # _____

NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT

Date: _____ **Contractor's UBI Number:** _____

Name & Mailing Address of Public Agency	**Department Use Only**
UBI Number:	Assigned to: _____ Date Assigned: _____

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

Project Name	**Contract Number**	**Job Order Contracting** ☐ Yes ☐ No
Description of Work Done/Include Jobsite Address(es)		

Federally funded transportation project? ☐ **Yes** ☐ **No** **(if yes, provide Contract Bond Statement below)**

Contractor's Name	**E-mail Address**	**Affidavit ID***
Contractor Address		**Telephone #**

If Retainage is not withheld, please select one of the following and List Surety's Name & Bond Number.

☐ Retainage Bond ☐ Contract/Payment bond (valid for federally funded transportation projects)

Name: Bond Number:

Date Contract Awarded	**Date Work Commenced**	**Date Work Completed**	**Date Work Accepted**

Were Subcontracters used on this project? If so, please complete Addendum A. ☐ **Yes** ☐ **No**

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

Contract Amount	$ _____		
Additions (+)	$ _____	Liquidated Damages	$ _____
Reductions (-)	$ _____	Amount Disbursed	$ _____
Sub-Total	$ **0.00**	Amount Retained	$ _____
Sales Tax Rate _____ %			
(If various rates apply, please send a breakdown)			
Sales Tax Amount	$ _____		
TOTAL	$ **0.00**	**TOTAL**	$ **0.00**

NOTE: These two totals must be equal

Comments:

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

Contact Name: _____ Title: _____

Email Address: _____ Phone Number: _____

Department of Revenue
Public Works Section
(360) 704-5650
PWC@dor.wa.gov

Washington State Department of
Labor & Industries
Contract Release
(855) 545-8163, option # 4
ContractRelease@LNI.WA.GOV

Employment Security Department
Registration, Inquiry, Standards & Coordination Unit
(360) 902-9450

REV 31 0020e (10/28/15) F215-038-000 10-2014

Addendum A: **Please List all Subcontractors and Sub-tiers Below**

This addendum can be submitted in other formats.

Provide known affidavits at this time. **No L&I release will be granted until all affidavits are listed.**

Subcontractor's Name:	UBI Number: (Required)	**Affidavit ID***

For tax assistance or to request this document in an alternate format, please call 1-800-647-7706. Teletype (TTY) users may use the Washington Relay Service by calling 711.

REV 31 0020e Addendum (10/28/15) F215-038-000 10-2014

EXHIBIT B
CITY OF YELM
CONTRACT CHANGE ORDER AGREEMENT

_____	_____	_____
PROJECT NUMBER	CHANGE ORDER NUMBER	EFFECTIVE DATE

_____	_____
PROJECT TITLE	CONTRACTOR

SUMMARY OF PROPOSED CHANGES:

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

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

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

THE ITEMS ARE APPROXIMATE OR ESTIMATED QUANTITIES INVOLVED IN THIS CHANGE

ITEM NO.	**ITEM**	**QUANTITY**	**UNIT PRICE**	**ADD OR DELETE**

TOTAL NET CONTRACT: INCREASE $ DECREASE $

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

CONTRACTOR'S SIGNATURE	DEPT. DIRECTOR/MANAGER SIGNATURE	DATE

DEPARTMENT RECAP TO DATE: *Adjustments:

ORIGINAL CONTRACT AMOUNT	$_____
PREVIOUS CHANGE ORDERS	$_____
THIS CHANGE ORDER	$_____
***ADJUSTMENTS**	$_____
NEW CONTRACT AMOUNT	$_____

ADJUSTMENTS

CHANGE ORDER ESTIMATE IS HEREBY ☐ INCREASED $_____
☐ DECREASED $_____

PAY THIS ADJUSTED AMOUNT $_____

_____
DEPARTMENT DIRECTOR'S SIGNATURE

EXHIBIT C
CONTRACTOR'S RETAINAGE AGREEMENT

City of Yelm
105 Yelm Ave. W, Yelm WA 98597

360.458.8499

Bid/Contract Number

IDENTIFICATION AND DESCRIPTION

Project Title_____
Contractor_____ Representative_____
Bid No._____ Date_____ Administering Department_____
City Representative_____ Funding Source_____
Project Authority_____

RETAINAGE FORMULA

In accordance with applicable State Statutes, the following provisions will be made for the disposition of the retainage held for investment:

1. All investments selected below are subject to City approval.

2. Retainage under this agreement will be held in escrow by the _____ (referred to herein as the Bank), the terms of which are specified by separate escrow agreement. The cost of the investment program and the risk thereof is to be borne entirely by the contractor.

3. The final disposition of the contract retainage will be made in accordance with applicable statutes.

CONTRACTOR'S INSTRUCTIONS

Pursuant to RCW 60.28.010 I hereby notify the City of Yelm of my instructions □ **to invest** □ **not to invest** the retainage withheld under the terms of this contract. If the investment option is selected, please provide the following information:

Name of Bank, Mutual Fund, or Savings & Loan Association: _____
Address: _____
Account #: _____ Contact Person: _____
Contractor: _____ Date: _____
By: _____ Title: _____
Address: _____ Phone: _____
Fed ID #: _____ Est. Completion Date: _____

CITY APPROVAL

Approval of Investment Program and Retainage Agreement

_____
Finance Director Date

CERTIFICATION FOR RELEASE OF CONTRACT RETAINAGE

Contract No. _____ Project Title: _____

I hereby certify, as Contract Administrator for this Contract representing the City of Yelm, that all work required by the above cited contract was completed on _____ and final acceptance by the City was granted on _____.

I also certify that no liens have been received within 30 days from the above date from any person, persons, mechanics, subcontractors or materialman who has performed any work or provided any material of subject contract.

_____
Contract Administrator

_____
Director of Administering Department

Also, please find attached certifications by the applicable state agencies of the receipt of: 1) Washington State Business Taxes (Washington State Dept. of Revenue); 2) Industrial Insurance Premiums (State Dept. of Labor & Industries); and 3) Employment Security, Unemployment Insurance Premiums (State of Washington Employment Security Dept.)

EXHIBIT D
RETAINAGE BOND TO CITY OF YELM

(INSERT PROJECT TITLE HERE)

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

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

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

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

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

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

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

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

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

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

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

In the event a dispute should arise between the Parties to this Bond with respect to the City's declaration of default by the Principal, the Parties agree to participate in at least four hours of mediation in accordance with the mediation procedures of United States Arbitration and Mediation ("USA&M"). The Parties shall proportionately share in the cost of the mediation. The mediation shall be administered by the Seattle USA&M office, 4300 Two Union Square, 601 Union Street, Seattle, Washington 98101-2327. The Surety shall not interplead prior to completion of the mediation.

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

CORPORATE SEAL:

PRINCIPAL

By: _____

Title: _____

Address: _____

_____

CORPORATE SEAL:

SURETY

By: _____
Attorney-in-Fact
(Attach Power of Attorney)

Title: _____

Address: _____

_____

CERTIFICATES AS TO CORPORATE SEAL

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

_____
Secretary of Assistant Secretary

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

_____
Secretary of Assistant Secretary

APPROVED AS TO FORM:

_____
Brent Dille, City Attorney

EXHIBIT E

NOTICE TO LABOR UNIONS OR OTHER EMPLOYMENT ORGANIZATIONS
NONDISCRIMINATION IN EMPLOYMENT

TO: ALL EMPLOYEES
AND TO: _____
(Name of Union or Organization)

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

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

EMPLOYMENT, UPGRADING, TRANSFER OR DEMOTION

RECRUITMENT AND ADVERTISING

RATES OF PAY OR OTHER FORMS OF COMPENSATION

SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF OR TERMINATION

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

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

Complaints may be submitted to: _____
City of Yelm,
105 Yelm Ave. W, Yelm WA 98597

_____

_____

_____
(Contractor or subcontractor)

_____
Date

EXHIBIT F

CERTIFICATE OF INSURANCE

EXHIBIT G

CITY OF YELM
PERFORMANCE/PAYMENT BOND

KNOW ALL PEOPLE BY THESE PRESENTS:

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

This obligation is entered into an Agreement with the City dated _____, 20___ for _____ _____.

NOW, THEREFORE, if the Principal shall perform all the provisions of the Agreement in the manner and within the time period prescribed by the City, or within such extensions of time as may be granted under the Agreement, and shall pay all laborers, mechanics, subcontractors and material men or women, and all persons who shall supply the Principal or subcontractors with provisions and supplies for the carrying on of said work, and shall hold the City, their officials, agents, employees and volunteers harmless from any loss or damage occasioned to any person or property by reason of any carelessness or negligence on the part of the Principal, or any subcontractor in the performance of said work, and shall indemnify and hold the City harmless from any damage or expense by reason of failure of performance as specified in the Agreement within a period of two (2) years after its final acceptance thereof by the City, then and in the event this obligation shall be void; but otherwise, it shall be and remain in full force and effect.

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

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

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

In the event a dispute should arise between the Parties to this Bond with respect to the City's declaration of default by the Principal, the Parties agree to participate in at least four hours of mediation in accordance with the mediation procedures of United States Arbitration and Mediation ("USA&M"). The Parties shall proportionately share in the cost of the mediation. The mediation shall be administered Washington Arbitration & Mediation Service (WAMS) –3600 Port of Tacoma Road, Suite 304 Tacoma, WA 98424 The Surety shall not interplead prior to completion of the mediation.

DATED this ___ day of _____, 20___.

CORPORATE SEAL OF PRINCIPAL:

PRINCIPAL

By: _____
(Name of Person Executing Bond)

Its: _____
(Title)

_____

_____
(Address)

_____
(Phone)

CERTIFICATE AS TO CORPORATE SEAL

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

_____
Secretary of Assistant Secretary

CORPORATE SEAL OF SURETY:

SURETY

By: _____
Attorney-in-Fact
(Attach Power of Attorney)

_____
(Name of Person Executing Bond)

_____

_____
(Address)

_____
(Phone)

APPROVED AS TO FORM:

_____
Brent Dille, City Attorney

(For LLC's with one officer only, use the notary block below and DELETE Certificate of Corporate Seal)

STATE IF WASHINGTON)
) SS.
COUNTY OF _____)

On this day personally appeared before me_____, to me known to be the _____of _____ that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said limited liability company, for the uses and purposed therein mentioned, and on oath stated that he/she was authorized to execute said instrument.

GIVEN my hand and official seal this _____ day of _____, 20__.

Notary's signature _____
Notary's printed name_____
Notary Public in and for the State of Washington.
My commission expires_____

CORPORATE SEAL OF SURETY

SURETY

BY: _____
Attorney-in Fact
(Attach Power of Attorney)

_____
(Name of Person Executing Bond)

_____

_____
(Address)

_____
(Phone)

APPROVED AS TO FORM:

_____
Brent Dille

APPENDIX B –
STATE PREVAILING MINIMUM HOUR WAGE RATES

(this page intentionally left blank)

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 04/11/2024

County	Trade	Job Classification	Wage	Holiday	Overtime	Note	*Risk Class
Thurston	Asbestos Abatement Workers	Journey Level	$59.07	5D	1H		View
Thurston	Boilermakers	Journey Level	$74.29	5N	1C		View
Thurston	Brick Mason	Journey Level	$69.07	7E	1N		View
Thurston	Brick Mason	Pointer-Caulker-Cleaner	$69.07	7E	1N		View
Thurston	Building Service Employees	Janitor	$16.28		1		View
Thurston	Building Service Employees	Shampooer	$16.28		1		View
Thurston	Building Service Employees	Waxer	$16.28		1		View
Thurston	Building Service Employees	Window Cleaner	$16.28		1		View
Thurston	Cabinet Makers (In Shop)	Journey Level	$16.28		1		View
Thurston	Carpenters	Acoustical Worker	$74.96	15J	4C		View
Thurston	Carpenters	Bridge, Dock And Wharf Carpenters	$74.96	15J	4C		View
Thurston	Carpenters	Floor Layer & Floor Finisher	$74.96	15J	4C		View
Thurston	Carpenters	Journey Level	$74.96	15J	4C		View
Thurston	Carpenters	Scaffold Erector	$74.96	15J	4C		View
Thurston	Cement Masons	Application of all Composition Mastic	$72.87	15J	4U		View
Thurston	Cement Masons	Application of all Epoxy Material	$72.37	15J	4U		View
Thurston	Cement Masons	Application of all Plastic Material	$72.87	15J	4U		View
Thurston	Cement Masons	Application of Sealing Compound	$72.37	15J	4U		View
Thurston	Cement Masons	Application of Underlayment	$72.87	15J	4U		View
Thurston	Cement Masons	Building General	$72.37	15J	4U		View
Thurston	Cement Masons	Composition or Kalman Floors	$72.87	15J	4U		View
Thurston	Cement Masons	Concrete Paving	$72.37	15J	4U		View
Thurston	Cement Masons	Curb & Gutter Machine	$72.87	15J	4U		View
Thurston	Cement Masons	Curb & Gutter, Sidewalks	$72.37	15J	4U		View
Thurston	Cement Masons	Curing Concrete	$72.37	15J	4U		View
Thurston	Cement Masons	Finish Colored Concrete	$72.87	15J	4U		View

Thurston	Cement Masons	Floor Grinding	$72.87	15J	4U		View
Thurston	Cement Masons	Floor Grinding/Polisher	$72.37	15J	4U		View
Thurston	Cement Masons	Green Concrete Saw, self-powered	$72.87	15J	4U		View
Thurston	Cement Masons	Grouting of all Plates	$72.37	15J	4U		View
Thurston	Cement Masons	Grouting of all Tilt-up Panels	$72.37	15J	4U		View
Thurston	Cement Masons	Gunite Nozzleman	$72.87	15J	4U		View
Thurston	Cement Masons	Hand Powered Grinder	$72.87	15J	4U		View
Thurston	Cement Masons	Journey Level	$72.37	15J	4U		View
Thurston	Cement Masons	Patching Concrete	$72.37	15J	4U		View
Thurston	Cement Masons	Pneumatic Power Tools	$72.87	15J	4U		View
Thurston	Cement Masons	Power Chipping & Brushing	$72.87	15J	4U		View
Thurston	Cement Masons	Sand Blasting Architectural Finish	$72.87	15J	4U		View
Thurston	Cement Masons	Screed & Rodding Machine	$72.87	15J	4U		View
Thurston	Cement Masons	Spackling or Skim Coat Concrete	$72.37	15J	4U		View
Thurston	Cement Masons	Troweling Machine Operator	$72.87	15J	4U		View
Thurston	Cement Masons	Troweling Machine Operator on Colored Slabs	$72.87	15J	4U		View
Thurston	Cement Masons	Tunnel Workers	$72.87	15J	4U		View
Thurston	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	$129.71	15J	4C		View
Thurston	Divers & Tenders	Dive Supervisor/Master	$93.94	15J	4C		View
Thurston	Divers & Tenders	Diver	$129.71	15J	4C	8V	View
Thurston	Divers & Tenders	Diver On Standby	$88.94	15J	4C		View
Thurston	Divers & Tenders	Diver Tender	$80.82	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	$93.26	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	$98.26	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	$102.26	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	$107.26	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	$109.76	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	$114.76	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	$116.76	15J	4C		View
Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	$118.76	15J	4C		View

Thurston	Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	$120.76	15J	4C		View
Thurston	Divers & Tenders	Manifold Operator	$80.82	15J	4C		View
Thurston	Divers & Tenders	Manifold Operator Mixed Gas	$85.82	15J	4C		View
Thurston	Divers & Tenders	Remote Operated Vehicle Operator/Technician	$80.82	15J	4C		View
Thurston	Divers & Tenders	Remote Operated Vehicle Tender	$75.41	15J	4C		View
Thurston	Dredge Workers	Assistant Engineer	$79.62	5D	3F		View
Thurston	Dredge Workers	Assistant Mate (Deckhand)	$79.01	5D	3F		View
Thurston	Dredge Workers	Boatmen	$79.62	5D	3F		View
Thurston	Dredge Workers	Engineer Welder	$81.15	5D	3F		View
Thurston	Dredge Workers	Leverman, Hydraulic	$82.77	5D	3F		View
Thurston	Dredge Workers	Mates	$79.62	5D	3F		View
Thurston	Dredge Workers	Oiler	$79.01	5D	3F		View
Thurston	Drywall Applicator	Journey Level	$75.73	15O	11S		View
Thurston	Drywall Tapers	Journey Level	$75.73	15O	11S		View
Thurston	Electrical Fixture Maintenance Workers	Journey Level	$29.54		1		View
Thurston	Electricians - Inside	Cable Splicer	$90.59	5C	1G		View
Thurston	Electricians - Inside	Journey Level	$84.57	5C	1G		View
Thurston	Electricians - Inside	Lead Covered Cable Splicer	$96.63	5C	1G		View
Thurston	Electricians - Inside	Welder	$90.59	5C	1G		View
Thurston	Electricians - Motor Shop	Craftsman	$16.28		1		View
Thurston	Electricians - Motor Shop	Journey Level	$16.28		1		View
Thurston	Electricians - Powerline Construction	Cable Splicer	$93.00	5A	4D		View
Thurston	Electricians - Powerline Construction	Certified Line Welder	$85.42	5A	4D		View
Thurston	Electricians - Powerline Construction	Groundperson	$55.27	5A	4D		View
Thurston	Electricians - Powerline Construction	Heavy Line Equipment Operator	$85.42	5A	4D		View
Thurston	Electricians - Powerline Construction	Journey Level Lineperson	$85.42	5A	4D		View
Thurston	Electricians - Powerline Construction	Line Equipment Operator	$73.35	5A	4D		View
Thurston	Electricians - Powerline Construction	Meter Installer	$55.27	5A	4D	8W	View
Thurston	Electricians - Powerline Construction	Pole Sprayer	$85.42	5A	4D		View
Thurston	Electricians - Powerline Construction	Powderperson	$63.50	5A	4D		View
Thurston	Electronic Technicians	Journey Level	$53.46	6Z	1B		View
Thurston	Elevator Constructors	Mechanic	$111.26	7D	4A		View
Thurston	Elevator Constructors	Mechanic In Charge	$120.27	7D	4A		View
Thurston	Fabricated Precast Concrete Products	Journey Level	$16.28		1		View

Thurston	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$16.28		1		View
Thurston	Fence Erectors	Fence Erector	$50.07	15J	11P	8Y	View
Thurston	Fence Erectors	Fence Laborer	$50.07	15J	11P	8Y	View
Thurston	Flaggers	Journey Level	$50.07	15J	11P	8Y	View
Thurston	Glaziers	Journey Level	$79.16	7L	1Y		View
Thurston	Heat & Frost Insulators And Asbestos Workers	Journey Level	$87.15	15H	11C		View
Thurston	Heating Equipment Mechanics	Journey Level	$96.42	7F	1E		View
Thurston	Hod Carriers & Mason Tenders	Journey Level	$62.49	15J	11P	8Y	View
Thurston	Industrial Power Vacuum Cleaner	Journey Level	$16.28		1		View
Thurston	Inland Boatmen	Boat Operator	$61.41	5B	1K		View
Thurston	Inland Boatmen	Cook	$56.48	5B	1K		View
Thurston	Inland Boatmen	Deckhand	$57.48	5B	1K		View
Thurston	Inland Boatmen	Deckhand Engineer	$58.81	5B	1K		View
Thurston	Inland Boatmen	Launch Operator	$58.89	5B	1K		View
Thurston	Inland Boatmen	Mate	$57.31	5B	1K		View
Thurston	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$16.28		1		View
Thurston	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$16.28		1		View
Thurston	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$16.28		1		View
Thurston	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$25.00		1		View
Thurston	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$16.28		1		View
Thurston	Insulation Applicators	Journey Level	$74.96	15J	4C		View
Thurston	Ironworkers	Journeyman	$87.80	15K	11N		View
Thurston	Laborers	Air, Gas Or Electric Vibrating Screed	$59.07	15J	11P	8Y	View
Thurston	Laborers	Airtrac Drill Operator	$60.90	15J	11P	8Y	View
Thurston	Laborers	Ballast Regular Machine	$59.07	15J	11P	8Y	View
Thurston	Laborers	Batch Weighman	$50.07	15J	11P	8Y	View
Thurston	Laborers	Brick Pavers	$59.07	15J	11P	8Y	View
Thurston	Laborers	Brush Cutter	$59.07	15J	11P	8Y	View
Thurston	Laborers	Brush Hog Feeder	$59.07	15J	11P	8Y	View
Thurston	Laborers	Burner	$59.07	15J	11P	8Y	View
Thurston	Laborers	Caisson Worker	$60.90	15J	11P	8Y	View
Thurston	Laborers	Carpenter Tender	$59.07	15J	11P	8Y	View
Thurston	Laborers	Cement Dumper-paving	$60.15	15J	11P	8Y	View
Thurston	Laborers	Cement Finisher Tender	$59.07	15J	11P	8Y	View
Thurston	Laborers	Change House Or Dry Shack	$59.07	15J	11P	8Y	View

Thurston	Laborers	Chipping Gun (30 Lbs. And Over)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Chipping Gun (Under 30 Lbs.)	$59.07	15J	11P	8Y	View
Thurston	Laborers	Choker Setter	$59.07	15J	11P	8Y	View
Thurston	Laborers	Chuck Tender	$59.07	15J	11P	8Y	View
Thurston	Laborers	Clary Power Spreader	$60.15	15J	11P	8Y	View
Thurston	Laborers	Clean-up Laborer	$59.07	15J	11P	8Y	View
Thurston	Laborers	Concrete Dumper/Chute Operator	$60.15	15J	11P	8Y	View
Thurston	Laborers	Concrete Form Stripper	$59.07	15J	11P	8Y	View
Thurston	Laborers	Concrete Placement Crew	$60.15	15J	11P	8Y	View
Thurston	Laborers	Concrete Saw Operator/Core Driller	$60.15	15J	11P	8Y	View
Thurston	Laborers	Crusher Feeder	$50.07	15J	11P	8Y	View
Thurston	Laborers	Curing Laborer	$59.07	15J	11P	8Y	View
Thurston	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	$59.07	15J	11P	8Y	View
Thurston	Laborers	Ditch Digger	$59.07	15J	11P	8Y	View
Thurston	Laborers	Diver	$60.90	15J	11P	8Y	View
Thurston	Laborers	Drill Operator (Hydraulic, Diamond)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Dry Stack Walls	$59.07	15J	11P	8Y	View
Thurston	Laborers	Dump Person	$59.07	15J	11P	8Y	View
Thurston	Laborers	Epoxy Technician	$59.07	15J	11P	8Y	View
Thurston	Laborers	Erosion Control Worker	$59.07	15J	11P	8Y	View
Thurston	Laborers	Faller & Bucker Chain Saw	$60.15	15J	11P	8Y	View
Thurston	Laborers	Fine Graders	$59.07	15J	11P	8Y	View
Thurston	Laborers	Firewatch	$50.07	15J	11P	8Y	View
Thurston	Laborers	Form Setter	$60.15	15J	11P	8Y	View
Thurston	Laborers	Gabian Basket Builders	$59.07	15J	11P	8Y	View
Thurston	Laborers	General Laborer	$59.07	15J	11P	8Y	View
Thurston	Laborers	Grade Checker & Transit Person	$62.49	15J	11P	8Y	View
Thurston	Laborers	Grinders	$59.07	15J	11P	8Y	View
Thurston	Laborers	Grout Machine Tender	$59.07	15J	11P	8Y	View
Thurston	Laborers	Groutmen (Pressure) Including Post Tension Beams	$60.15	15J	11P	8Y	View
Thurston	Laborers	Guardrail Erector	$59.07	15J	11P	8Y	View
Thurston	Laborers	Hazardous Waste Worker (Level A)	$60.90	15J	11P	8Y	View
Thurston	Laborers	Hazardous Waste Worker (Level B)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Hazardous Waste Worker (Level C)	$59.07	15J	11P	8Y	View
Thurston	Laborers	High Scaler	$60.90	15J	11P	8Y	View
Thurston	Laborers	Jackhammer	$60.15	15J	11P	8Y	View
Thurston	Laborers	Laserbeam Operator	$60.15	15J	11P	8Y	View
Thurston	Laborers	Maintenance Person	$59.07	15J	11P	8Y	View
Thurston	Laborers	Manhole Builder-Mudman	$60.15	15J	11P	8Y	View

Thurston	Laborers	Material Yard Person	$59.07	15J	11P	8Y	View
Thurston	Laborers	Mold Abatement Worker	$59.07	15J	11P	8Y	View
Thurston	Laborers	Motorman-Dinky Locomotive	$62.59	15J	11P	8Y	View
Thurston	Laborers	nozzleman (concrete pump, green cutter when using combination of high pressure air & water on concrete & rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster)	$62.49	15J	11P	8Y	View
Thurston	Laborers	Pavement Breaker	$60.15	15J	11P	8Y	View
Thurston	Laborers	Pilot Car	$50.07	15J	11P	8Y	View
Thurston	Laborers	Pipe Layer (Lead)	$62.49	15J	11P	8Y	View
Thurston	Laborers	Pipe Layer/Tailor	$60.15	15J	11P	8Y	View
Thurston	Laborers	Pipe Pot Tender	$60.15	15J	11P	8Y	View
Thurston	Laborers	Pipe Reliner	$60.15	15J	11P	8Y	View
Thurston	Laborers	Pipe Wrapper	$60.15	15J	11P	8Y	View
Thurston	Laborers	Pot Tender	$59.07	15J	11P	8Y	View
Thurston	Laborers	Powderman	$60.90	15J	11P	8Y	View
Thurston	Laborers	Powderman's Helper	$59.07	15J	11P	8Y	View
Thurston	Laborers	Power Jacks	$60.15	15J	11P	8Y	View
Thurston	Laborers	Railroad Spike Puller - Power	$60.15	15J	11P	8Y	View
Thurston	Laborers	Raker - Asphalt	$62.49	15J	11P	8Y	View
Thurston	Laborers	Re-timberman	$60.90	15J	11P	8Y	View
Thurston	Laborers	Remote Equipment Operator	$60.15	15J	11P	8Y	View
Thurston	Laborers	Rigger/Signal Person	$60.15	15J	11P	8Y	View
Thurston	Laborers	Rip Rap Person	$59.07	15J	11P	8Y	View
Thurston	Laborers	Rivet Buster	$60.15	15J	11P	8Y	View
Thurston	Laborers	Rodder	$60.15	15J	11P	8Y	View
Thurston	Laborers	Scaffold Erector	$59.07	15J	11P	8Y	View
Thurston	Laborers	Scale Person	$59.07	15J	11P	8Y	View
Thurston	Laborers	Sloper (Over 20")	$60.15	15J	11P	8Y	View
Thurston	Laborers	Sloper Sprayer	$59.07	15J	11P	8Y	View
Thurston	Laborers	Spreader (Concrete)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Stake Hopper	$59.07	15J	11P	8Y	View
Thurston	Laborers	Stock Piler	$59.07	15J	11P	8Y	View
Thurston	Laborers	Swinging Stage/Boatswain Chair	$50.07	15J	11P	8Y	View
Thurston	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	$60.15	15J	11P	8Y	View
Thurston	Laborers	Tamper (Multiple & Self-propelled)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Toolroom Person (at Jobsite)	$59.07	15J	11P	8Y	View
Thurston	Laborers	Topper	$59.07	15J	11P	8Y	View
Thurston	Laborers	Track Laborer	$59.07	15J	11P	8Y	View
Thurston	Laborers	Track Liner (Power)	$60.15	15J	11P	8Y	View
Thurston	Laborers	Traffic Control Laborer	$53.54	15J	11P	9C	View

Thurston	Laborers	Traffic Control Supervisor	$56.73	15J	11P	9C	View
Thurston	Laborers	Truck Spotter	$59.07	15J	11P	8Y	View
Thurston	Laborers	Tugger Operator	$60.15	15J	11P	8Y	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	$175.79	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	$180.82	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	$184.50	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	$190.20	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	$192.32	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	$197.42	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	$199.32	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	$201.32	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	$203.32	15J	11P	9B	View
Thurston	Laborers	Tunnel Work-Guage and Lock Tender	$62.59	15J	11P	8Y	View
Thurston	Laborers	Tunnel Work-Miner	$62.59	15J	11P	8Y	View
Thurston	Laborers	Vibrator	$60.15	15J	11P	8Y	View
Thurston	Laborers	Vinyl Seamer	$59.07	15J	11P	8Y	View
Thurston	Laborers	Watchman	$45.51	15J	11P	8Y	View
Thurston	Laborers	Welder	$60.15	15J	11P	8Y	View
Thurston	Laborers	Well Point Laborer	$60.15	15J	11P	8Y	View
Thurston	Laborers	Window Washer/Cleaner	$45.51	15J	11P	8Y	View
Thurston	Laborers - Underground Sewer & Water	General Laborer & Topman	$59.07	15J	11P	8Y	View
Thurston	Laborers - Underground Sewer & Water	Pipe Layer	$60.15	15J	11P	8Y	View
Thurston	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	$45.51	15J	11P	8Y	View
Thurston	Landscape Construction	Landscape Operator	$77.82	15J	3K	8X	View
Thurston	Landscape Maintenance	Groundskeeper	$16.28		1		View
Thurston	Lathers	Journey Level	$75.73	15O	11S		View
Thurston	Marble Setters	Journey Level	$69.07	7E	1N		View
Thurston	Metal Fabrication (In Shop)	Fitter	$27.10	6T	2U		View
Thurston	Metal Fabrication (In Shop)	Laborer	$16.91	6T	2U		View
Thurston	Metal Fabrication (In Shop)	Layerout	$30.63	6T	2U		View
Thurston	Metal Fabrication (In Shop)	Machine Operator	$20.86	6T	2U		View
Thurston	Metal Fabrication (In Shop)	Welder	$24.74	6T	2U		View
Thurston	Millwright	Journey Level	$76.51	15J	4C		View
Thurston	Modular Buildings	Cabinet Assembly	$16.28		1		View
Thurston	Modular Buildings	Electrician	$16.28		1		View
Thurston	Modular Buildings	Equipment Maintenance	$16.28		1		View

Thurston	Modular Buildings	Plumber	$16.28		1		View
Thurston	Modular Buildings	Production Worker	$16.28		1		View
Thurston	Modular Buildings	Tool Maintenance	$16.28		1		View
Thurston	Modular Buildings	Utility Person	$16.28		1		View
Thurston	Modular Buildings	Welder	$16.28		1		View
Thurston	Painters	Journey Level	$51.71	6Z	11J		View
Thurston	Pile Driver	Crew Tender	$80.82	15J	4C		View
Thurston	Pile Driver	Journey Level	$75.41	15J	4C		View
Thurston	Plasterers	Journey Level	$70.91	7Q	1R		View
Thurston	Plasterers	Nozzleman	$74.91	7Q	1R		View
Thurston	Playground & Park Equipment Installers	Journey Level	$16.28		1		View
Thurston	Plumbers & Pipefitters	Journey Level	$86.72	5A	1G		View
Thurston	Power Equipment Operators	Asphalt Plant Operator	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Assistant Engineer	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Barrier Machine (zipper)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Batch Plant Operator: Concrete	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Bobcat	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Brokk - Remote Demolition Equipment	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Brooms	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Bump Cutter	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Cableways	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Chipper	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Compressor	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Concrete Finish Machine -laser Screed	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Conveyors	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Cranes Friction: 200 tons and over	$82.49	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes, A-frame: 10 tons and under	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	$79.35	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$81.69	7A	11H	8X	View

Thurston	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	$82.49	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes: Friction cranes through 199 tons	$81.69	7A	11H	8X	View
Thurston	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10 tons	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Crusher	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Deck Engineer/deck Winches (power)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Derricks: on building work	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators	Dozers D-9 & Under	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Drilling Machine	$79.92	15J	3K	8X	View
Thurston	Power Equipment Operators	Elevator and man-lift: permanent and shaft type	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Forklift: 3000 lbs and over with attachments	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Forklifts: under 3000 lbs. with attachments	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets,etc.	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Gradechecker/stakeman	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Guardrail punch/Auger	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Horizontal/directional Drill Locator	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Horizontal/directional Drill Operator	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Hydralifts/boom trucks: over 10 tons	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	$79.92	15J	3K	8X	View
Thurston	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Loaders, Overhead Under 6 Yards	$78.43	15J	3K	8X	View

Thurston	Power Equipment Operators	Loaders, Plant Feed	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Loaders: Elevating Type Belt	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Locomotives, All	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Material Transfer Device	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Mechanics: all (Leadmen - $0.50 per hour over mechanic)	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators	Motor patrol graders	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	$79.35	7A	11H	8X	View
Thurston	Power Equipment Operators	Overhead, bridge type: 100 tons and over	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators	Pavement Breaker	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Pile Driver (other Than Crane Mount)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Posthole Digger, Mechanical	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Power Plant	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Pumps - Water	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Quad 9, HD 41, D10 And Over	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Quick Tower: no cab, under 100 feet in height based to boom	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Rigger and Bellman	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Rollagon	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Roller, Other Than Plant Mix	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Roto-mill, Roto-grinder	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Saws - Concrete	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Scrapers - Concrete & Carry All	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Service Engineers: equipment	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Shotcrete/gunite Equipment	$74.43	15J	3K	8X	View

Thurston	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$79.92	15J	3K	8X	View
Thurston	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$80.74	15J	3K	8X	View
Thurston	Power Equipment Operators	Slipform Pavers	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Spreader, Topsider & Screedman	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Subgrader Trimmer	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Tower Bucket Elevators	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	$81.69	7A	11H	8X	View
Thurston	Power Equipment Operators	Tower crane: up to 175' in height base to boom	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom.	$82.49	7A	11H	8X	View
Thurston	Power Equipment Operators	Transporters, All Track Or Truck Type	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators	Trenching Machines	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	$79.35	7A	11H	8X	View
Thurston	Power Equipment Operators	Truck crane oiler/driver: under 100 tons	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators	Truck Mount Portable Conveyor	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Vac Truck (Vactor Guzzler, Hydro Excavator)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Welder	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators	Wheel Tractors, Farmall Type	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators	Yo Yo Pay Dozer	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operator	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator: Concrete	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Bobcat	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Brooms	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	$78.43	15J	3K	8X	View

Thurston	Power Equipment Operators-Underground Sewer & Water	Cableways	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Chipper	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Compressor	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Conveyors	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	$82.49	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes, A-frame: 10 tons and under	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	$79.35	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$81.69	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	$82.49	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	$81.69	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Crusher	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Derricks: on building work	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$77.82	15J	3K	8X	View

Thurston	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	$79.92	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets,etc.	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Guardrail punch/Auger	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	$79.92	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Mechanics: all (Leadmen - $0.50 per hour over mechanic)	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Motor patrol graders	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding	$74.43	15J	3K	8X	View

		Operator					
Thurston	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	$79.35	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type: 100 tons and over	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Power Plant	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Quad 9, HD 41, D10 And Over	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Quick Tower: no cab, under 100 feet in height based to boom	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Rigger and Bellman	$75.29	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Rollagon	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Service Engineers: equipment	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	$74.43	15J	3K	8X	View

Thurston	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$79.92	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	$81.69	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Tower crane: up to 175' in height base to boom	$80.86	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom.	$82.49	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	$79.12	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	$77.82	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	$79.35	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	$78.74	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Vac Truck (Vactor Guzzler, Hydro Excavator)	$78.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Welder	$80.05	7A	11H	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	$74.43	15J	3K	8X	View
Thurston	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	$78.43	15J	3K	8X	View
Thurston	Power Line Clearance Tree Trimmers	Journey Level In Charge	$57.22	5A	4A		View
Thurston	Power Line Clearance Tree Trimmers	Spray Person	$54.32	5A	4A		View
Thurston	Power Line Clearance Tree Trimmers	Tree Equipment Operator	$57.22	5A	4A		View
Thurston	Power Line Clearance Tree Trimmers	Tree Trimmer	$51.18	5A	4A		View
Thurston	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$38.99	5A	4A		View

Thurston	Refrigeration & Air Conditioning Mechanics	Journey Level	$89.21	5A	1G		View
Thurston	Residential Brick Mason	Journey Level	$35.53		1		View
Thurston	Residential Carpenters	Journey Level	$49.93	15J	4C		View
Thurston	Residential Cement Masons	Journey Level	$18.09		1		View
Thurston	Residential Drywall Applicators	Journey Level	$49.92	15J	4C		View
Thurston	Residential Drywall Tapers	Journey Level	$23.25		1		View
Thurston	Residential Electricians	Journey Level	$46.43	6Z	1B		View
Thurston	Residential Glaziers	Journey Level	$54.00	7L	1H		View
Thurston	Residential Insulation Applicators	Journey Level	$24.16		1		View
Thurston	Residential Laborers	Journey Level	$22.90		1		View
Thurston	Residential Marble Setters	Journey Level	$35.53		1		View
Thurston	Residential Painters	Journey Level	$20.77		1		View
Thurston	Residential Plumbers & Pipefitters	Journey Level	$43.61		1		View
Thurston	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$88.56		1		View
Thurston	Residential Sheet Metal Workers	Journey Level (Field or Shop)	$57.31	7F	1R		View
Thurston	Residential Soft Floor Layers	Journey Level	$20.67		1		View
Thurston	Residential Sprinkler Fitters (Fire Protection)	Journey Level	$52.72		1		View
Thurston	Residential Stone Masons	Journey Level	$35.53		1		View
Thurston	Residential Terrazzo Workers	Journey Level	$16.28		1		View
Thurston	Residential Terrazzo/Tile Finishers	Journey Level	$21.96		1		View
Thurston	Residential Tile Setters	Journey Level	$16.28		1		View
Thurston	Roofers	Journey Level	$62.70	5A	3H		View
Thurston	Roofers	Using Irritable Bituminous Materials	$65.70	5A	3H		View
Thurston	Sheet Metal Workers	Journey Level (Field or Shop)	$96.42	7F	1E		View
Thurston	Shipbuilding & Ship Repair	New Construction Boilermaker	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Carpenter	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Crane Operator	$43.16	7V	1		View
Thurston	Shipbuilding & Ship Repair	New Construction Electrician	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	$87.15	15H	11C		View
Thurston	Shipbuilding & Ship Repair	New Construction Laborer	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Machinist	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Operating Engineer	$43.16	7V	1		View
Thurston	Shipbuilding & Ship Repair	New Construction Painter	$51.95	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Pipefitter	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Rigger	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Sheet Metal	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	New Construction Shipwright	$51.85	7X	4J		View

Thurston	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	$43.16	7V	1		View
Thurston	Shipbuilding & Ship Repair	New Construction Welder / Burner	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Boilermaker	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Carpenter	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Crane Operator	$45.06	7Y	4K		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Electrician	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	$87.15	15H	11C		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Laborer	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Machinist	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	$45.06	7Y	4K		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Painter	$51.95	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Pipefitter	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Rigger	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Shipwright	$51.85	7X	4J		View
Thurston	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	$45.06	7Y	4K		View
Thurston	Sign Makers & Installers (Electrical)	Journey Level	$18.04		1		View
Thurston	Sign Makers & Installers (Non-Electrical)	Journey Level	$16.28		1		View
Thurston	Soft Floor Layers	Journey Level	$66.32	15J	4C		View
Thurston	Solar Controls For Windows	Journey Level	$16.28		1		View
Thurston	Sprinkler Fitters (Fire Protection)	Journey Level	$95.49	5C	1X		View
Thurston	Stage Rigging Mechanics (Non Structural)	Journey Level	$16.28		1		View
Thurston	Stone Masons	Journey Level	$69.07	7E	1N		View
Thurston	Street And Parking Lot Sweeper Workers	Journey Level	$16.28		1		View
Thurston	Surveyors	Assistant Construction Site Surveyor	$78.74	7A	11H	8X	View
Thurston	Surveyors	Chainman	$75.29	7A	11H	8X	View
Thurston	Surveyors	Construction Site Surveyor	$80.05	7A	11H	8X	View
Thurston	Surveyors	Drone Operator (when used in conjunction with surveying work only)	$75.29	7A	11H	8X	View
Thurston	Surveyors	Ground Penetrating Radar	$75.29	7A	11H	8X	View
Thurston	Telecommunication Technicians	Journey Level	$53.46	6Z	1B		View
Thurston	Telephone Line Construction - Outside	Cable Splicer	$40.36	5A	2B		View
Thurston	Telephone Line Construction - Outside	Hole Digger/Ground Person	$26.92	5A	2B		View
Thurston	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$33.74	5A	2B		View
Thurston	Telephone Line Construction - Outside	Telephone Lineperson	$38.15	5A	2B		View

Thurston	Terrazzo Workers	Journey Level	$62.36	7E	1N		View
Thurston	Tile Setters	Journey Level	$62.36	7E	1N		View
Thurston	Tile, Marble & Terrazzo Finishers	Finisher	$53.19	7E	1N		View
Thurston	Traffic Control Stripers	Journey Level	$89.54	15L	1K		View
Thurston	Truck Drivers	Asphalt Mix Over 16 Yards	$74.20	15J	11M	8L	View
Thurston	Truck Drivers	Asphalt Mix To 16 Yards	$73.36	15J	11M	8L	View
Thurston	Truck Drivers	Dump Truck	$73.36	15J	11M	8L	View
Thurston	Truck Drivers	Dump Truck & Trailer	$74.20	15J	11M	8L	View
Thurston	Truck Drivers	Other Trucks	$74.20	15J	11M	8L	View
Thurston	Truck Drivers - Ready Mix	Transit Mix	$74.20	15J	11M	8L	View
Thurston	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$17.53		1		View
Thurston	Well Drillers & Irrigation Pump Installers	Oiler	$16.28		1		View
Thurston	Well Drillers & Irrigation Pump Installers	Well Driller	$18.00		1		View

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Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.

J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.

K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.

P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.

R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.

U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.

W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.

Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.

Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

   F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.

   M. This code appears to be missing. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.

   R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.

   U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.

3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

   H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.

   J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

Overtime Codes Continued

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage

C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:
On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.

S. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, work performed in excess of (10) hours shall be paid at one and one half (1-1/2) times the hourly rate of pay. On Monday through Friday, work performed outside the normal work hours of 6:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations).

All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Multiple Shift Operations: When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. Special Shifts: The Special Shift Premium is the basic hourly rate of pay plus $2.00 an hour. When due to conditions beyond the control of the employer or when an owner (not acting as the contractor), a government agency or the contract specifications require more than four (4) hours of a special shift can only be performed outside the normal 6am to 6pm shift then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid the special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday).

U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. X. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

   The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

   When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

   When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

11. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   B After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   C The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage. All non-overtime and non-holiday hours worked between 4:00 pm and 5:00 am, Monday through Friday, shall be paid at a premium rate of 15% over the hourly rate of wage.

   D. All hours worked on Saturdays and holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   E. The first two (2) hours after eight (8) regular hours Monday through Friday, the first ten (10) hours on Saturday, and the first ten (10) hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, and Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

11. F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one-half times the hourly rate of wage for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

G. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.

All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of nine (9) hours or more. When an employee returns to work without at least nine (9) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the nine (9) hours rest period.

H. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.

All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of ten (10) hours or more. When an employee returns to work without at least ten (10) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the ten (10) hours rest period.

J. All hours worked on holidays shall be paid at double the hourly rate of wage.

K. On Monday through Friday hours worked outside 4:00 am and 5:00 pm, and the first two (2) hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked over 10 hours per day Monday through Friday, and all hours worked on Saturdays, Sundays, and Holidays worked shall be paid at double the hourly rate of wage.

L. An employee working outside 5:00 am and 5:00 pm shall receive an additional two dollar ($2.00) per hour for all hours worked that shift. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

Overtime Codes Continued

11. M. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 am to 6:00 pm, then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shift shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten shifts.

On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay. All work performed after 6:00 pm Saturday to 5:00 am Monday, all work performed over twelve (12) hours, and all work performed on holidays shall be paid at double the straight time rate of pay.

Shift Pay Premium: In an addition to any overtime already required, all hours worked between the hours of 6:00 pm and 5:00 am shall receive an additional two dollars ($2.00) per hour.

N. All work performed over twelve hours in a shift and all work performed on Sundays and Holidays shall be paid at double the straight time rate.

Any time worked over eight (8) hours on Saturday shall be paid double the straight time rate, except employees assigned to work six 10-hour shifts per week shall be paid double the straight time rate for any time worked on Saturday over 10 hours.

O. All work performed on Saturdays, Sundays, and Holidays shall be paid at one and one half (1-1/2) times the straight time rate of pay.

Overtime Codes Continued

11. P. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 a.m. to 6:00 p.m., then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shifts shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten-hour shifts.

In the event the job is down due to weather conditions, then Saturday may, be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Q. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 35% over the hourly rate of wage. Work performed on Sundays shall be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

R On Monday through Saturday hours worked outside 6:00 am and 7:00 pm, and all hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

When a holiday falls on a Saturday, the Friday before shall be the observed holiday. When a holiday falls on a Sunday, the following Monday shall be the observed holiday.

S. The first ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions, or other conditions beyond the control of the Employer, then Saturday may be worked at the straight time rate, for the first eight (8) hours, or the first ten (10) hours when a four day ten hour workweek has been established.

All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).

C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).

H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).

I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).

L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).

N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.

Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).

S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

Holiday Codes Continued

6. G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).

T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.

Holiday Codes Continued

7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.

Holiday Codes Continued

7. X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.

Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, Christmas Eve, and Christmas Day (9). Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday. Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

15. G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

M. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

Holiday Codes Continued

15. N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

O. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, the day before Christmas day, and Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: $1.00, Levels C & D: $0.50.

N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: $2.00, Class B Suit: $1.50, And Class C Suit: $1.00. Workers performing underground work receive an additional $0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional $0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do "pioneer" work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional $0.50 per hour.

Note Codes Continued

8. V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

   Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

   Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25’ to 300’ - $1.00 per foot from entrance. 300’ to 600’ - $1.50 per foot beginning at 300’. Over 600’ - $2.00 per foot beginning at 600’.

   W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

   X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, and Class D Suit: $0.50. Special Shift Premium: Basic hourly rate plus $2.00 per hour.

   When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

   Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

   Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

   Z. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

   Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Note Codes Continued

9. A. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid $0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) – 130’ to 199’ – $0.50 per hour over their classification rate.
(B) – 200’ to 299’ – $0.80 per hour over their classification rate.
(C) – 300’ and over – $1.00 per hour over their classification rate.

B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

Note Codes Continued

9. F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

H. One (1) person crew shall consist of a Party Chief. (Total Station or similar one (1) person survey system). Two (2) person survey party shall consist of a least a Party Chief and a Chain Person. Three (3) person survey party shall consist of at least a Party Chief, an Instrument Person, and a Chain Person.

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APPENDIX C –
WSDOT STANDARD PLANS (GR9)

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(February 26, 2024)
Standard Plans

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01, effective October 23, 2023, is made a part of this contract.

The Standard Plans are revised as follows:

A-10.30
RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table): The RISER RING detail is deleted from the plan.

INSTALLATION detail, SECTION A: The “1/4”” callout is revised to read “+/- 1/4" (SEE CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)”

A-40.20
Sheet 1, NOTES 1, 2, 3, and 4 are replaced with the following:

1. Use the ½ inch joint details for bridges with expansion length less than 100 feet and for bridges with L type abutments. Use the 1 inch joint details for other applications.
2. Use detail 5, 6, 7 on steel trusses and timber bridges with concrete bridge deck panels.
3. For details 1, 2, 3, and 4, the item “HMA Joint Seal at Bridge End” shall be used for payment. For details 5 and 6, the item “HMA Joint Seal at Bridge Deck Panel Joint” shall be used for payment. For detail 7, the item “Clean and Seal Bridge Deck Panel Joint” shall be used for payment.

Sheet 2, Detail 8 reference to “6-09.3(6)” is revised to read “6-21.3(7)”.

A-60.40
Note 2 reference to “6-09.3(6)” is revised to read “6-21.3(7)”.

B-90.40
Valve Detail – DELETED

C-60.10
Sheet 1 of 2, Side view, add new callout pointing to the outer edges of the 3” x 12” lifting slots at bottom of barrier. New callout reads “PERMISSIBLE 3/4” CHAMFER.”
Sheet 1 of 2, Side view, add 2-inch diameter lifting holes centered 32” from each end of the barrier and 15” from the top face (2 lifting holes total). Add new callout pointing to the new lifting holes. New callout reads “PERMISSIBLE 2” DIAM. LIFTING HOLE”

C-85.11
On Section B, the callout “3” EXPANDED POLYSTYRENE AROUND COLUMN (TYP.)” is revised to read “3” EXPANDED POLYSTYRENE OR POLYETHYLENE FOAM AROUND COLUMN (TYP.)”

D-3.10
Sheet 1, Typical Section, callout – “FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.15” is revised to read; ”FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE CONTRACT PLANS”

Sheet 1, Typical Section, callout – “FOR WALLS WITH F-SHAPE TRAFFIC BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16” is revised to read; ”FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS”

D-3.11

Sheet 1, Typical Section, callout – “”B” BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16” is revised to read; ”B” BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

Sheet 1, Typical Section, callout – “TYPICAL BARRIER ON BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16” is revised to read; “TYPICAL BARRIER ON BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)

D-10.10

Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.15

Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.30

Wall Type 5 may be used in all cases.

D-10.35

Wall Type 6 may be used in all cases.

D-10.40

Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

D-10.45

Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers attached on top of the wall are considered non-standard and shall be designed in accordance with the current WSDOT BDM and the revisions stated in the revisions stated in the 11/3/15 Bridge Design memorandum.

F-10.18

Note 2, “Region Traffic engineer approval is needed to install a truck apron lower than 3”.” - DELETED

J-10.10

Sheet 4 of 6, “Foundation Size Reference Table”, PAD WIDTH column, Type 33xD=6’ – 3” is revised to read: 7’ – 3”. Type 342LX / NEMA P44=5’ – 10” is revised to read: 6’ – 10”

Sheet 5 of 6, Plan View, “FOR EXAMPLE PAD SHOWN HERE:, “first bullet” item, “-SPACE BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6” (IN)” IS REVISED TO READ: “SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x CABINET IS 6” (IN) (CHANNEL STEEL ADDS ABOUT 5” (IN)”

J-10.16
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.17
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.18
Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-20.26
Add Note 1, “1. One accessible pedestrian pushbutton station per pedestrian pushbutton post.”

J-20.16
View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10
Sheet 1 of 2, Elevation View, Round Concrete Foundation Detail, callout – “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ THREE REQ’D. PER ASSEMBLY” IS REVISED TO READ: “ANCHOR BOLTS ~ ¾” (IN) x 30” (IN) FULL THREAD ~ FOUR REQ’D. PER ASSEMBLY”
Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.
Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.
Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the foundation to find 2 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.
Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the foundation to find 1 #4 reinforcing bar shown, to read; 3” CLR. Delete “(TYP.)” from the 2 ½” CLR. dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.
Detail F, callout, “Heavy Hex Clamping Bolt (TYP.) ~ 3/4” (IN) Diam. Torque Clamping Bolts (see Note 3)” is revised to read; “Heavy Hex Clamping Bolt (TYP.) ~ 3/4” (IN) Diam. Torque Clamping Bolts (see Note 1)”
Detail F, callout, “3/4” (IN) x 2’ – 6” Anchor Bolt (TYP.) ~ Four Required (See Note 4)” is revised to read; “3/4” (IN) x 2’ – 6” Anchor Bolt (TYP.) ~ Three Required (See Note 2)”

J-21.15
Partial View, callout, was – LOCK NIPPLE ~ 1 ½” DIAM., is revised to read; CHASE NIPPLE ~ 1 ½” (IN) DIAM.

J-21.16
Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

J-22.15
Ramp Meter Signal Standard, elevation, dimension 4’ - 6” is revised to read; 6’-0”
(2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½” DIAM. is revised to read; CHASE NIPPLE ~ 1 ½” (IN) DIAM.

J-40.10
Sheet 2 of 2, Detail F, callout, “12 – 13 x 1 ½” S.S. PENTA HEAD BOLT AND 12” S. S. FLAT WASHER” is revised to read; “12 – 13 x 1 ½” S.S. PENTA HEAD BOLT AND 1/2” (IN) S. S. FLAT WASHER”

J-40.36
Note 1, second sentence; ”Finish shall be # 2B for backbox and # 4 for the cover.” Is revised to read; ”Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-40.37
Note 1, second sentence; ”Finish shall be # 2B for backbox and # 4 for the cover.” Is revised to read; ”Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.

J-75.20
Key Notes, note 16, second bullet point, was: “1/2” (IN) x 0.45” (IN) Stainless Steel Bands”, add the following to the end of the note: “Alternate: Stainless steel cable with stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel bands and associated hardware.”

J-75.55
Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.

L-5.10
Sheet 1, General Note 8, third sentence – was; “For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 3’ – 6’ as measured form the top front face of the barrier.” Is revised to read; “For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 2’ – 6” as measured form the top front face of the barrier.”

Sheet 2, Reinforcing Steel Bending Diagram, (mark) B detail, callout – “128 deg.” is revised to read: “123 deg.”, callout – “51 deg.” is revised to read: “57 deg.”

M-40.10
Guide Post Type ~ Reflective Sheeting Applications Table, remove reference - “(SEE NOTE 5)”

The following are the Standard Plan numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Plans showing different dates shall not be used in this contract.

1

A-10.10-00 ..... 8/7/07	A-30.35-00 ..... 10/12/07	A-50.10-01 ..... 8/17/21
A-10.20-00 ..... 10/5/07	A-40.00-01 ..... 7/6/22	A-50.40-01 ..... 8/17/21
A-10.30-00 ..... 10/5/07	A-40.10-04 ..... 7/31/19	A-60.10-03 ..... 12/23/14
A-20.10-00 ..... 8/31/07	A-40.15-00 ..... 8/11/09	A-60.20-03 ..... 12/23/14
A-30.10-00 ..... 11/8/07	A-40.20-04 ..... 1/18/17	A-60.30-01 ..... 6/28/18
A-30.30-01 ..... 6/16/11	A-40.50-03 ..... 9/12/23	A-60.40-00 ..... 8/31/07

2

B-5.20-03 ..... 9/9/20	B-30.50-03 ..... 2/27/18	B-75.20-03 ..... 8/17/21
B-5.40-02 ..... 1/26/17	B-30.60-00 ..... 9/9/20	B-75.50-02 ..... 3/15/22
B-5.60-02 ..... 1/26/17	B-30.40-03 ..... 2/27/18	B-70.60-01 ..... 1/26/17
B-10.20-03 ..... 8/23/23	B-30.70-04 ..... 2/27/18	B-75.60-00 ..... 6/8/06
B-10.40-02 ..... 8/17/21	B-30.80-01 ..... 2/27/18	B-80.20-00 ..... 6/8/06
B-10.70-03 ..... 8/23/23	B-30.90-02 ..... 1/26/17	B-80.40-00 ..... 6/1/06
B-15.20-01 ..... 2/7/12	B-35.20-00 ..... 6/8/06	B-85.10-01 ..... 6/10/08
B-15.40-01 ..... 2/7/12	B-35.40-01 ..... 8/23/23	B-85.20-00 ..... 6/1/06
B-15.60-02 ..... 1/26/17	B-40.20-00 ..... 6/1/06	B-85.30-00 ..... 6/1/06
B-20.20-02 ..... 3/16/12	B-40.40-02 ..... 1/26/17	B-85.40-00 ..... 6/8/06
B-20.40-04 ..... 2/27/18	B-45.20-01 ..... 7/11/17	B-85.50-01 ..... 6/10/08
B-20.60-03 ..... 3/15/12	B-45.40-01 ..... 7/21/17	B-90.10-00 .... 6/8/06
B-25.20-02 ..... 2/27/18	B-50.20-00 ..... 6/1/06	B-90.20-00 ..... 6/8/06
B-25.60-03 ..... 8/23/23	B-55.20-03 ..... 8/17/21	B-90.30-00 ..... 6/8/06
B-30.05-00 ..... 9/9/20	B-60.20-02 ..... 9/9/20	B-90.40-01 ..... 1/26/17
B-30.10-03 ..... 2/27/18	B-60.40-01 ..... 2/27/18	B-90.50-00 ..... 6/8/06
B-30.15-00 ..... 2/27/18	B-65.20-01 ..... 4/26/12	B-95.20-02 ..... 8/17/21
B-30.20-04 ..... 2/27/18	B-65.40-00 ..... 6/1/06	B-95.40-01 ..... 6/28/18
B-30.30-03 ..... 2/27/18	B-70.20-01 ..... 3/15/22	

3

C-1 ..... 9/8/22	C-22.40-10 ..... 10/16/23	C-60.70-01 ..... 9/8/22
C-1b 10/12/23	C-22.45-06 ..... 9/8/22	C-60.80-01 ..... 9/8/22
C-1d 10/31/03	C-23.70-01 ..... 10/16/23	C-70.15-00 ..... 8/17/21
C-2c 8/12/19	C.24.10-04 ..... 10/16/23	C-70.10-04 ..... 10/16/23
C-4f 8/12/19	C-24.15-00 ..... 3/15/22	C-75.10-02 ..... 9/16/20
C-6a 9/8/22	C-25.20-07 ..... 8/20/21	C-75.20-03 ..... 8/20/21
C-7 ..... 9/8/22	C-25.22-06 ..... 8/20/21	C-75.30-03 ..... 8/20/21
C-7a 9/8/22	C-25.26-05 ..... 8/20/21	C-80.10-03 ..... 10/16/23
C-20.10-09 ..... 10/12/23	C-25.30-01 ..... 8/20/21	C-80.20-01 ..... 6/11/14
C-20.14-05 ..... 9/8/22	C-25.80-05 ..... 8/12/19	C-80.30-02 ..... 8/20/21
C-20.15-03 ..... 10/12/23	C-60.10-03 ..... 10/16/23	C-80.40-01 ..... 6/11/14
C-20.18-04 ..... 9/8/22	C-60.15-00 ..... 8/17/21	C-85.10-00 ..... 4/8/12
C-20.40-10 ..... 10/12/23	C-60.20-01 ..... 9/8/22	C-85.11-01 ..... 9/16/20
C-20.41-04 ..... 8/22/22	C-60.30-01 ..... 8/17/21	C-85.15-03 ..... 10/17/23
C-20.42-06 ..... 10/12/23	C-60.40-00 ..... 8/17/21	C-85-18-03 ..... 9/8/22
C-20.43-00 ..... 8/22/22	C-60.45-00 ..... 8/17/21	C-81.10-00 ..... 9/12/23
C-20.45.03 ..... 9/8/22	C-60.50-00 ..... 8/17/21	C-81.15-00 ..... 9/12/23
C-22.16-08 ..... 10/17/23	C-60.60-00 ..... 8/17/21	

4

D-2.36-03 ..... 6/11/14	D-3.11-03 ..... 6/11/14	D-10.25-01 ..... 8/7/19
D-2.46-02 ..... 8/13/21	D-4 ..... 12/11/98	D-10.30-00 ..... 7/8/08
D-2.84-00 ..... 11/10/05	D-6 ..... 6/19/98	D-10.35-00 ..... 7/8/08

D-2.92-01 ..... 4/26/22
D-3.09-00 ..... 5/17/12
D-3.10-01 ..... 5/29/13

D-10.10-01..... 12/2/08
D-10.15-01..... 12/2/08
D-10.20-01..... 8/7/19

D-10.40-01 .....12/2/08
D-10.45-01 .....12/2/08
D-20.10-00 .....10/9/23

1

E-1 ..... 2/21/07
E-2 ..... 5/29/98

E-4..... 8/27/03
E-4a..... 8/27/03

E-20.10-00.....9/12/23
E-20.20-00.....10/4/23

2

F-10.12-04 ..... 9/24/20
F-10.16-00 ..... 12/20/06
F-10.18-03 ..... 3/28/22
F-10.40-04 ..... 9/24/20
F-10.42-00 ..... 1/23/07

F-10.62-02..... 4/22/14
F-10.64-03..... 4/22/14
F-30.10-04..... 9/25/20
F-40.12-03..... 6/29/16
F-40.14-03..... 6/29/16

F-40.15-04.....9/25/20
F-40.16-03.....6/29/16
F-45.10-04.....10/16/23
F-80.10-04.....7/15/16

3

G-10.10-00..... 9/20/07
G-20.10-03..... 8/20/21
G-22.10-04..... 6/28/18
G-24.10-00..... 11/8/07
G-24.20-01..... 2/7/12
G-24.30-02..... 6/28/18
G-24.40-07..... 6/28/18

G-24.50-05 ..... 8/7/19
G-24.60-05 ..... 6/28/18
G-25.10-05 ..... 9/16/20
G-26.10-00 ..... 7/31/19
G-30.10-04 ..... 6/23/15
G-50.10-03 ..... 6/28/18

G-90.10-03 .....7/11/17
G-90.20-05 .....7/11/17
G-90.30-04 .....7/11/17
G-95.10-02 .....6/28/18
G-95.20-03 .....6/28/18
G-95.30-03 .....6/28/18

4

H-10.10-00 ..... 7/3/08
H-10.15-00 ..... 7/3/08
H-30.10-00 ..... 10/12/07

H-32.10-00..... 9/20/07
H-60.10-01..... 7/3/08
H-60.20-01..... 7/3/08

H-70.10-02 .....8/17/21
H-70.20-02 .....8/17/21

5

I-10.10-01..... 8/11/09
I-30.10-02..... 3/22/13
I-30.15-02..... 3/22/13
I-30.16-01..... 7/11/19
I-30.17-01..... 6/12/19

I-30.20-00 ..... 9/20/07
I-30.30-02 ..... 6/12/19
I-30.40-02 ..... 6/12/19
I-30.60-02 ..... 6/12/19
I-40.10-00 ..... 9/20/07

I-40.20-00 .....9/20/07
I-50.20-02 .....7/6/22
I-60.10-01 .....6/10/13
I-60.20-01 .....6/10/13
I-80.10-02 .....7/15/16

6

J-05.50-00..... 8/30/22
J-10 ..... 7/18/97
J-10.10-04..... 9/16/20
J-10.12-00..... 9/16/20
J-10.14-00..... 9/16/20
J-10.15-01..... 6/11/14
J-10.16-02..... 8/18/21
J-10.17-02..... 8/18/21
J-10.18-02..... 8/18/21
J-10.20-04..... 8/18/21
J-10.21-02..... 8/18/21
J-10.22-03..... 10/4/23
J-10.25-00..... 7/11/17
J-10.26-00..... .8/30/22
J-12.15-00..... 6/28/18
J-12.16-00..... 6/28/18
J-15.10-01..... 6/11/14
J-15.15-02..... 7/10/15
J-20.01-00..... .8/30/22
J-20.10-05..... 10/4/23

J-26.20-01 ..... 6/28/18
J-27.10-01 ..... 7/21/16
J-27.15-00 ..... 3/15/12
J-28.01-00 ..... 8/30/22
J-28.10-02 ..... 8/7/19
J-28.22-00 ..... 8/07/07
J-28.24-02 ..... 9/16/20
J-28.26-01 .....12/02/08
J-28.30-03 .....6/11/14
J-28.40-02 .....6/11/14
J-28.42-01 .....6/11/14
J-28.43-01 ..... 6/28/18
J-28.45-03 ..... 7/21/16
J-28.50-03 ..... 7/21/16
J-28.60-03 ..... 8/27/21
J-28.70-04 ..... 8/30/22
J-29.10-02 ..... 8/26/22
J-29.15-01 ..... 7/21/16
J-29.16-02 ..... 7/21/16
J-30.10-01 ..... 8/26/22

J-50.10-01 .....7/31/19
J-50.11-02.....7/31/19
J-50.12-02 .....8/7/19
J-50.13-01 .....8/30/22
J-50.15-01 .....7/21/17
J-50.16-01 .....3/22/13
J-50.18-00 .....8/7/19
J-50.19-00 .....8/7/19
J-50.20-00 .....6/3/11
J-50.25-00 .....6/3/11
J-50.30-00 .....6/3/11
J-60.05-01 .....7/21/16
J-60.11-00.....5/20/13
J-60.12-00 .....5/20/13
J-60.13-00 .....6/16/10
J-60.14-01 .....7/31/19
J-75.10-02 .....7/10/15
J-75.20-01 .....7/10/15
J-75.30-02 .....7/10/15
J-75.50-00 .....8/30/22

J-20.11-03 ..... 7/31/19
J-20.15-03 ..... 6/30/14
J-20.16-02 ..... 6/30/14
J-20.20-02 ..... 5/20/13
J-20.26-01 ..... 7/12/12
J-21.10-04 ..... 6/30/14
J-21.15-01 ..... 6/10/13
J-21.16-01 ..... 6/10/13
J-21.17-01 ..... 6/10/13
J-21.20-01 ..... 6/10/13
J-22.15-02 ..... 7/10/15
J-22.16-03 ..... 7/10/15
J-26.10-03 ..... 7/21/16
J-26.15-01 ..... 5/17/12
J-40.01-00 ..... 8/30/22
J-40.05-00 ..... 7/21/16
J-40.10-04 ..... 4/28/16
J-40.20-03 ..... 4/28/16
J-40.30-04 ..... 4/28/16
J-40.35-01 ..... 5/29/13
J-40.36-02 ..... 7/21/17
J-40.37-02 ..... 7/21/17
J-40.38-01 ..... 5/20/13
J-40.39-00 ..... 5/20/13
J-40.40-02 ..... 7/31/19
J-45.36-00 ..... 7/21/17
J-50.05-00 ..... 7/21/17
J-75.55-00 .....8/30/22
J-80.05-00 .....8/30/22
J-80.10-01 .....8/18/21
J-80.12-00 .....8/18/21
J-80.15-00 .....6/28/18
J-81.10-02 .....8/18/21
J-81.12-00 .....9/3/21
J-84.05-00 .....8/30/22
J-86.10-00 .....6/28/18
J-90.10-03 .....6/28/18
J-90.20-03 .....6/28/18
J-90.21-02 .....6/28/18
J-90.50-00 .....6/28/18

1

K-70.20-01 .....6/1/16
K-80.10-02 ..... 9/25/20
K-80.32-00..... 8/17/21
K-80.34-00..... 8/17/21
K-80.35-01.....9/16/20
K-80.37-01.....9/16/20

2

L-5.10-01..... 7/17/23
L-5.15-00..... 9/19/22
L-10.10-02..... 6/21/12
L-20.10-03 ..... 7/14/15
L-30.10-02 .....6/11/14
L-40.15-01 .....6/16/11
L-40.20-02 .....6/21/12
L-70.10-01 .....5/21/08
L-70.20-01 .....5/21/08

3

M-1.20-04..... 9/25/20
M-1.40-03..... 9/25/20
M-1.60-03..... 9/25/20
M-1.80-03..... 6/3/11
M-2.20-03..... 7/10/15
M-2.21-00..... 7/10/15
M-3.10-04..... 9/25/20
M-3.20-04..... 8/2/22
M-3.30-04..... 9/25/20
M-3.40-04..... 9/25/20
M-3.50-03..... 9/25/20
M-5.10-03..... 9/25/20
M-7.50-01..... 1/30/07
M-9.50-02..... 6/24/14
M-9.60-00 ..... 2/10/09
M-11.10-04..... 8/2/22
M-12.10-03 ..... 8/2/22
M-15.10-02 ..... 7/17/23
M-17.10-02 ..... 7/3/08
M-20.10-04 ..... 8/2/22
M-20.20-02 ..... 4/20/15
M-20.30-04 ..... 2/29/16
M-20.40-03 ..... 6/24/14
M-20.50-02 .....6/3/11
M-24.20-02 ..... 4/20/15
M-24.40-02 ..... 4/20/15
M-24.60-04 ..... 6/24/14
M-24.65-00 .....7/11/17
M-24.66-00 .....7/11/17
M-40.10-04 .....10/17/23
M-40.20-00 .....10/12/07
M-40.30-01 .....7/11/17
M-40.40-00 .....9/20/07
M-40.50-00 .....9/20/07
M-40.60-00 .....9/20/07
M-60.10-01 .....6/3/11
M-60.20-03 .....8/17/21
M-65.10-03 .....8/17/21
M-80.10-01 .....6/3/11
M-80.20-00 .....6/10/08
M-80.30-00 .....6/10/08

4

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APPENDIX D –
Stormwater Pollution Prevention Plan (SWPPP)

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Construction Stormwater Pollution Prevention Plan (SWPPP)

City of Yelm
Downtown Parking Lot Project

Prepared For:
City of Yelm

Prepared By:
SCJ Alliance
Tova Beck, EIT
2727 Hollycroft Street, Suite 230
Gig Harbor, WA 98335
253.201.0777

February 2024

SCJ ALLIANCE
CONSULTING SERVICES

Construction Stormwater Pollution Prevention Plan

Project Information

Project:	Downtown Parking Lot
Prepared for:	City of Yelm 901 Rhoton Road NW Yelm, WA 98597

Reviewing Agency

Jurisdiction:	City of Yelm

Project Representative

Prepared by:	SCJ Alliance 2727 Hollycroft Street, Suite 230 Gig Harbor, WA 98335 253.201.0777 scjalliance.com
Contact:	David Hall, PE
Project Reference:	SCJ #22-000630 Path: N:\Projects\0605 City of Yelm\22-000630 Yelm Washington & McKenzie Couplet\Design_Amend 2 - Parking Lot\Storm\SWPPP\2024-0215 22-000630.docx

Signature

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional engineer licensed to practice as such, is affixed below.

Tova Beck

Prepared by Tova Beck, EIT

David Hall

Approved by David Hall, PE

This SWPPP shall be on site at all times and shall be updated as necessary.

Certified Erosion and Sediment Control Lead (CESCL)

Name	Organization	Contact Phone Number
TBD	TBD	TBD

SWPPP Preparation Date

March / 22 / 2024

Project Construction Dates

Activity / Phase	Start Date	End Date
N/A	TBD	TBD

Table of Contents

Table of Contents

List of Figures

List of Appendices

1 Project Information

Project/Site Name: Downtown Parking Lot Project

Street/Location: Intersection of Washington St SE and Third St SE, Downtown Yelm

City: Yelm **State:** WA **Zip Code:** 98597

Receiving waterbody: Nisqually River

Total Disturbed Area: 0.50 acres

Property Use: Parking Lot

Parcel Number: 64400801000, 64400800900

Section, Township, Range: Section 19, T 17 N., Range 02E, W.M.

The proposed improvements include a paved parking lot at the intersection of Washington Street SE and Third Street SE. The parking lot is located in the heart of downtown Yelm and serves the public, providing parking for farmers markets. Surrounding parcels include a mix of residential, commercial, and public uses.

The project is located within the Nisqually Watershed (Water Resource Inventory Area 11) and the Nisqually River Basin. The project is located within a single TDA.

Figure 1 – Project Site Map

2 Existing Site Conditions

The project is located on a relatively flat, grassy site at the corner of Washington Street SE and Third Street SE in downtown Yelm. The existing site contains pervious surfaces with a strip of impervious gravel that is currently used for parking on the east side. On the existing site, the stormwater sheet flows along a slight grade from the west to the east. Any stormwater that is not infiltrated on site travels to catch basins located on roads adjacent to the site.

2.1 Adjacent Areas

The Downtown Parking Lot Project site is located at the intersection of two local roads. Surrounding parcels consist of residential, public, and commercial/retail properties.

2.2 Critical Areas

According to the Thurston County Critical Area GIS Map, the Downtown Parking Lot is located outside of any wetlands, frequently flooded areas, geologic hazards, and critical habitat. The site has no risk of erosion or landslides.

2.3 Soil

A geotechnical report was not included in the scope of work for the project site. A geotechnical report for the Yelm Community Center, a nearby project, was provided for reference by the City of Yelm. According to the City-provided geotechnical report, soils on site consist of recessional and pro-glacial Vashon outwash gravel. The site contains well-draining topsoil, gravelly sand, and sandy gravel.

3 Proposed Construction Activities

3.1 Site Development

The project consists of grading and full depth paving of the proposed parking lot, the addition of a driveway along Washington Street SE, the addition of landscaping, and the installation of two electric vehicle charging stations.

3.2 Construction Activities

Construction activities include concrete work, involving sawcutting, grinding and overlaying, curb placement, and the placement of crushed surface top course. Additionally, construction work includes grading (earthwork for cut and fill slopes), biofiltration swale and permeable ballast trench construction, and landscaping.

3.3 Site Drainage

The site is graded to contain a downward slope from west to east. Therefore, curb and gutter will capture runoff from the entire parking lot on the east side of the site along Third Street SE. The runoff will enter a biofiltration swale via curb cuts where it will be treated and infiltrated through an underground trench consisting of permeable ballast wrapped in geotextile fabric. Runoff during construction activities will be addressed with BMPs and discussed in Section 4.

3.4 Final Stabilization

There are no known contaminated soils within the project area. In addition, the Yelm Community Center Geotechnical Report states that groundwater was not encountered during the drilling of nine test pits excavated to depths of 5 to 8 feet below the existing ground surface using a Case 580 rubber-tired backhoe owned and operated by the City of Yelm. Based on the results from the test pits drilled for the Yelm Community Center, it is expected that groundwater is also well below the excavation limits of the Downtown Parking Lot Project. To achieve final stabilization, all soil on site shall be stabilized and seeded. The following BMP applies to the project per List #2 of the SWMMWW:

- BMP T5.13: Post-Construction Soil Quality and Depth

3.5 Potential Erosion

There are no steep slopes on the project site, so erosion is unlikely to be an issue on the project site. However, the following BMPs shall be implemented to ensure that soils remain on site:

- BMP C120: Temporary and Permanent Seeding
- BMP C233: Silt Fence (shown in plans)

4 Construction Stormwater BMPs

The following plan explains measures to be taken on site to mitigate potential erosion and sedimentation issues. While the SWPPP is a guideline to prevent erosion and sedimentation during construction, erosion control measures are not limited to those described in this report. Measures shall be installed as necessary to meet the requirements outlined in the City of Yelm Municipal Code Section 13.16, which states the following:

1. The City of Yelm has adopted the latest edition of the Department of Ecology's Stormwater Management Manual
2. Stormwater Best Management Practices (BMPs) shall be implemented to control pollution from stormwater as described in Ecology's Stormwater Management Manual.

The following SWPPP meets the Department of Ecology's (DOE) guidelines for stormwater pollution prevention and the requirements of the DOE National Pollutant Discharge Elimination System (NPDES) permit. The SWPPP shall be updated by the contractor as required per the DOE NPDES permit.

4.1 Element #1 – Preserve Vegetation and Mark Clearing Limits

To protect adjacent properties and reduce the area of soil exposed, the limits of the construction shall be clearly marked before land-disturbing activities begin. Natural vegetation shall be preserved wherever possible. The duff layer and native topsoil shall remain in place. Silt fence will be employed to reduce the transport of sediment-laden runoff from the project site and slow runoff velocities, protecting existing infrastructure and vegetation. The following BMP will be implemented where appropriate:

- BMP C233: Silt Fence (shown in plans)

4.2 Element #2 – Establish Construction Access

A stabilized construction entrance shall be placed at the entrance to the parking lot along Washington Street SE for the ingress and egress of construction vehicles. The construction entrance shall consist of crushed rock to minimize the tracking of sediment onto public roads.

Construction activities occurring on unpaved areas shall be minimized. Additionally, the parking area shall be stabilized after grading to reduce erosion on the surrounding site.

All efforts to stabilize and maintain access points, avoid construction vehicles on unpaved areas, and sweep any tracked sediment from roadways shall be employed to avoid the need for wheel washing and street washing. Wheel washing and street washing are not desirable at this location as there is limited space to detain, treat, and process water on-site. Street sweeping by hand or with a high efficiency sweeper is preferred if sediment is tracked off site. If wheel washing or street washing is necessary, wastewater shall not discharge into systems tributary to waters of the state or other sensitive areas. Prior to street washing, sediment shall first be removed from roads by shoveling, sweeping, or picking up and transporting to an approved controlled sediment disposal area.

Any construction activities that result in exposed soil shall be scheduled within the seasonal work window (October 1 through April 30). These activities shall only be permitted outside of the seasonal work window if shown to the satisfaction of the local permitting authority that silt-laden runoff will be prevented from leaving the site.

- BMP C105: Stabilized Construction Access (shown in plans)
    - The site may not accommodate the typical dimensions shown in Figure II-3.1 of the SWMMWW. The length and width shall be reduced to the maximum practicable size.

4.3 Element #3 – Control Flow Rates

Properties and waterways downstream from the project site shall be protected from erosion and discharge. During construction, silt fence shall be implemented to control flows from the gently sloped site, preventing water from building higher velocities as it flows downstream on site.

Due to the quality and velocity of stormwater runoff, this project also requires the implementation of permanent BMPs, including a bioswale and a permeable ballast trench. These permanent BMPS shall effectively control flow rates and keep discharge from leaving the site. Throughout the life of the project, all stormwater shall be infiltrated on site.

- BMP C233: Silt Fence (shown in plans)

4.4 Element #4 – Install Sediment Controls

Silt fence shall be employed downslope of disturbed areas to control sediment and straw wattles shall be installed to protect the biofiltration swale from sediment-laden runoff during construction of the parking lot. In addition, sediment will be removed from paved areas in and adjacent to work areas manually or using mechanical sweepers, as needed, to minimize tracking of sediments on vehicle tires away from the site and to minimize sediment runoff from adjacent streets.

The following BMPs will be implemented where appropriate:

- BMP C233: Silt Fence (shown in plans)
- BMP C235: Wattles (shown in plans)

4.5 Element #5 – Stabilize Soils

All exposed and unworked soils shall be stabilized by application of effective BMPs, which protect the soil from wind and water-driven erosion. From October 01 through April 30 of each calendar year, no soils shall remain exposed and unworked for more than two (2) days. From May 01 to September 30 of each calendar year, no soils shall remain exposed and unworked for more than seven (7) days. This condition applies to all on-site soils. Additionally, clearing, grading, and other soil disturbing activities are prohibited between November 01 and February 28, except where approved chemical treatment, full dispersion, or infiltration is practiced.

In areas where construction activities have temporarily or permanently ceased, exposed and unworked soils shall be stabilized by application of effective BMPs that prevent erosion. Applicable BMPs include, but are not limited to: temporary and permanent seeding, sodding, mulching, plastic covering, erosion control fabrics and matting, soil application of polyacrylamide (PAM), the early application of gravel based on areas to be paved, and dust control.

In general, slopes will be stabilized as soon as possible, and soil stockpiles will be removed from the site immediately or temporarily covered with plastic sheeting. All stockpiled soils shall be stabilized from erosion, protected with sediment trapping measures, and where possible, be located away from storm drain inlets, waterways, and drainage channels. The following BMPs are applicable to this project and shall be implemented as needed:

- BMP C120: Temporary and permanent seeding
- BMP C121: Mulching
- BMP C125: Topsoiling/Composting
- BMP C140: Dust Control

4.6 Element #6 – Protect Slopes

Slopes shall be constructed in a manner that will minimize erosion. Excavated material shall be placed on the uphill side of trenches. Applicable practices include the following:

- Cut and fill slope lengths shall be roughened until vegetation has been established.
- Slope soil type shall be evaluated and deemed appropriate for use on cut/fill slopes.
- Excavated material shall be placed on the uphill side of trenches.
- Existing vegetation shall be retained to the maximum extent feasible.

The following BMPs are applicable to this project and shall be implemented where appropriate:

- BMP C121: Mulching
- BMP C120: Temporary and Permanent Seeding

4.7 Element #7 – Protect Drain Inlets

All storm drain inlets made operable during construction shall be protected to prevent unfiltered or untreated water from entering the drainage conveyance system. However, the first priority is to keep all access roads clean of sediment and keep street wash water from entering storm drains until treatment can be provided. BMP C220: Storm Drain Inlet Protection shall be implemented on any drainage inlets that could potentially be impacted by sediment-laden runoff near the project site. Inlet protection devices shall be removed and replaced when they have reached one third capacity in order to mitigate the risk of overflow. The following inlet protection measures shall be implemented as necessary:

- BMP C220: Storm Drain Inlet Protection

4.8 Element #8 – Stabilize Channels and Outlets

Stabilization is not needed because there are no channels or outlets on the project. Water in existing and proposed conditions infiltrates on site.

4.9 Element #9 – Control Pollutants

All pollutants, including waste materials and demolition debris, that occur on-site during construction shall be handled and disposed of in a manner that does not cause contamination of stormwater. Maintenance and repair of heavy equipment and vehicles involving oil changes, hydraulic system drain down, solvent and de-greasing cleaning operations, fuel tank drain down and removal, and other activities which may result in discharge or spillage of pollutants to the ground or into stormwater runoff must be conducted using spill prevention measures, such as drip pans. Contaminated surfaces shall be cleaned immediately following any discharge or spill incident. Emergency repairs may be performed on-site using temporary plastic placed beneath and, if raining, over the vehicle. Application of agricultural chemicals, including fertilizers and pesticides, shall be conducted in a manner and at application rates that will not allow chemicals to enter stormwater runoff. Manufacturer recommendations shall be followed for application rates and procedures. No pH-modifying sources will be present on site.

The following source control BMPs apply to this project:

- A Spill Prevention Plan
- Maintenance of Storm Drainage Facilities
- Street Sweeping

In addition, the following BMPs shall be implemented where appropriate:

- BMP C151: Concrete Handling
- BMP C152: Sawcutting and Surfacing Pollution Prevention
- BMP C153: Material Delivery, Storage and Containment
- BMP C154: Concrete Washout Area

4.10 Element #10 – Control Dewatering

Clean, non-turbid de-watering water, as determined by a professional certified in erosion and sediment control, can be discharged to systems tributary to state surface waters, provided the de-watering flow does not cause erosion or flooding of receiving waters. These clean waters should not be routed through stormwater sediment ponds.

Highly turbid or otherwise contaminated de-watering water, such as water used in equipment operation, shall be handled separately from stormwater at the site. Some disposal options, depending on site constraints, may include: 1) transport off-site in vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute state waters, 2) on-site treatment using chemical treatment or other suitable treatment technologies, or 3) sanitary sewer discharge with local sewer district approval if there is no other option.

4.11 Element #11 – Maintain BMPs

All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance per their intended function. Maintenance and repair shall be conducted in accordance with BMP specifications. Visual monitoring of the BMPs will be conducted per the inspection schedule in Section 6.

All temporary erosion and sediment control BMPs shall be removed within 30 days after the final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on site. Disturbed soil resulting from removal of BMPs or vegetation shall be permanently stabilized. The following BMPs shall be implemented where appropriate:

- BMP C160: Certified Erosion and Sediment Control Lead

In compliance with BMP C160: Certified Erosion and Sediment Control Lead (CESCL), one person shall be designated as the responsible representative in charge of erosion and sediment control (ESC) and water quality protection. The representative shall ensure the project's erosion and sediment control measures meet local, state, and federal quality standards and shall direct BMP installation, inspection, maintenance, modification, and removal.

The CESCL shall ensure that bioretention BMPs are protected from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the biofiltration swale. BMPs shall be restored to their fully functioning condition if they accumulate sediment during construction. Restoring the BMP must include removal of sediment and any sediment-laden swale and/or pond soils and replacing the removed soils with soils meeting the design specification.

The CESCL shall monitor to ensure that bioswale BMPs are not compacted by construction equipment and foot traffic. Completed lawn and landscaped areas shall also be protected from compaction due to construction equipment. All heavy equipment shall be kept off existing soils under LID facilities that have been excavated to final grade to retain the infiltration rate of the soils.

4.12 Element #12 – Manage the Project

Erosion and sediment control BMPs for this project have been designed based on the following principles:

- Design the project to fit the existing topography, soils, and drainage patterns.
- Emphasize protecting the surrounding site from sediment discharge and erosive outflow.
- Minimize the extent and duration of area exposed.
- Retain sediment on site.
- Keep runoff velocities low.
- Inspect, monitor, and maintain all ESC measures.

In addition, project management will incorporate the key components listed below:

Phasing

Construction phasing shall focus on preventing erosion and sediment discharge by maintaining existing vegetation and revegetating disturbed areas with Temporary and Permanent Seeding (BMP C120).

Inspection and Monitoring

All BMPs shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function. Site inspections shall be conducted by an inspector who is knowledgeable in the principles and practices of erosion and sediment control. This person will:

- Assess the site conditions and construction activities that could impact the quality of stormwater.
- Assess the effectiveness of erosion and sediment control measures used to maintain the quality of stormwater discharge.

A CESCL shall be on-site or on-call at all times. The CESCL shall inspect all disturbed areas, BMPs, and stormwater discharge points one (1) time per week and within twenty four (24) hours of a discharge event.

Whenever inspection and/or monitoring reveals that the BMPs identified in this SWPPP are inadequate, either in terms of pollutant discharge or erosion control, appropriate BMPs and/or design changes shall be implemented as soon as possible.

Maintaining an Updated SWPPP

This SWPPP shall be retained on site or be reasonably accessible to personnel on site. The SWPPP shall be modified whenever there is a change in the construction activities that has, or could have, a significant effect on the discharge of pollutants to the waters of the state.

The SWPPP shall be modified if, during inspections or investigations conducted by the owner/operator, or the applicable local or state regulatory authority, it is determined that the SWPPP is ineffective in

eliminating or significantly minimizing pollutants in stormwater discharges from the site. The SWPPP shall be modified as necessary to include additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP shall be completed within seven (7) days following the inspection.

4.13 Element #13 – Protect Low Impact Development (Permanent) Stormwater BMPs

All temporary and permanent erosion and sediment control BMPs shall be protected, maintained, and repaired during construction as needed to assure continued performance per their intended function. All maintenance and repairs shall be completed in accordance with the practices, procedures, and materials for each respective BMP. All the proposed permanent facilities shall be protected in the same manner as the existing facilities addressed in the thirteen (13) elements outlined in this report.

The proposed biofiltration swale shall be protected from sedimentation though installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the biofiltration swale. If the biofiltration swale accumulates sediment during construction, the BMP must be restored to its fully functioning condition though the removal of sediment-laden soils and replacing the removed soils with soils meeting the design specifications.

The proposed permeable ballast trench shall be protected against compaction by construction equipment and foot traffic. All heavy equipment shall be kept off of existing soils underneath the trench to retain the infiltration rate of the soils. Lawn and landscaped areas shall also be protected from compaction due to construction equipment.

Sediment-laden runoff shall not flow onto base materials such as crushed surfacing or permeable ballast used for infiltration galleries.

5 Construction Phasing

Construction of this project shall be phased to ensure that appropriate BMPs are in place prior to the commencement of construction activities that may cause erosion and soil disturbance. The BMP implementation schedule will be driven by the construction schedule.

6 Construction Scheduling

The construction schedule has not yet been determined. The construction schedule shall adhere to the following requirements unless approval is granted by the appropriate local authority:

- No soils exposed and unworked for more than two (2) days from October 1 through April 30
- No soils exposed and unworked for more than seven (7) days from May 1 to September 30
- Clearing, grading, and other soil disturbing activities are prohibited from November 1 to February 28

7 Financial/Ownership Responsibilities

The City of Yelm will have financial and ownership responsibilities.

8 Engineering Calculations

All the engineering calculations from WWHM 2012 are documented in the Stormwater Design Report for the City of Yelm prepared by SCJ Alliance February 2024.

9 Pollution Prevention Team

Roles and Responsibilities

The pollution prevention team consists of personnel responsible for implementation of the SWPPP, including the following:

- Certified Erosion and Sediment Control Lead – Primary contractor contact, responsible for site inspections (BMPs, visual monitoring, sampling, etc.); to be called upon in case of failure of any ESC measures.
- Resident Engineer – For projects with engineered structures only (sediment pond/traps, sand filters, etc.): site representative for the owner that is the project's supervising engineer responsible for inspections and issuing instructions and drawings to the contractor's site supervisor or representative.
- Emergency Owner Contact – Individual that is the site owner or representative of the site owner to be contacted in the case of an emergency.
- Monitoring Personnel – Individual who is responsible for conducting water quality monitoring; for most sites this person is also the CESCL.

Team Members

Title	Name (s)	Phone Number
Principal Engineer	Aaron Knight, PE	253.201.0777
Emergency Owner Contact	Brad Chatwood	360.890.0904
Emergency Ecology Contact	Washington Emergency Management Division	1.800.OILS.911
Non-Emergency Ecology Contact	City of Yelm – Spill Hotline	360.458.8406
Monitoring Personnel	*To Be Determined*	

10 Monitoring and Sampling Requirements

Monitoring includes visual inspection, monitoring for water quality parameters of concern, and documentation of the inspection and water quality findings in a site logbook. The site logbook will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements
- Site inspections; and,
- Stormwater sampling data.

For convenience, the inspection form and water quality monitoring forms included in this SWPPP include the required information for the site logbook. This SWPPP may function as the site logbook if desired, or the forms may be separated and included in a separate site logbook. However, if separated, the site logbook must be maintained on site or within reasonable access to the site and be made available to the Department of Ecology or the local jurisdiction upon request.

10.1 Site Inspection

All BMPs will be inspected, maintained, and repaired as needed to assure continued performance per their intended function. The inspector will be a CESCL per BMP C160. The name and contact information for the CESCL is provided in Section 9 of this SWPPP.

Site inspection will occur in all areas disturbed by construction activities and at all potential stormwater discharge points. Stormwater will be examined for the presence of suspended sediment, turbidity, discoloration, and oily sheen.

The site inspector will evaluate and document the effectiveness of the installed BMPs and determine if it is necessary to repair or replace any of the BMPs to improve the quality of the stormwater discharges. All maintenance and repairs will be documented in the site logbook the in or forms provided in this document. All new BMPs or design changes will be documented in the SWPPP as soon as possible.

Site Inspection Frequency
Site inspections will be conducted at least once per week and within twenty four (24) hours following any discharge from the site. For sites with temporary stabilization measures, the site inspection frequency will be reduced to once per month.

Site Inspection Documentation
The site inspector will record each site inspection using the site log inspection forms provided in Appendix B. The site log inspection forms may be separated from this SWPPP document, but will be maintained on site or within reasonable access to the site and be made available to the Department of Ecology or the local jurisdiction upon request.

10.2 Stormwater Quality Sampling

Turbidity
Turbidity sampling and monitoring at the project discharge site will be conducted during the entire construction phase of the project. Samples will be collected weekly at the discharge point nearest the current phase of the project work. If there is no flow at the discharge point, the attempt to sample will be recorded in the site logbook and reported to the Department of Ecology in the monthly Discharge Monitoring Report (DMR) as “No Discharge”. Samples will be analyzed for turbidity using a transparency tube.

- The benchmark turbidity value is twenty five (25) nephelometric turbidity units (NTU) and a transparency less than thirty three (33) centimeters.
- If the twenty five (25) NTU benchmark is exceeded or the transparency is less than thirty three (33) cm but equal to or greater than 6 cm in any sample collected, the following steps will be conducted:
- Ensure all BMPs specified in this SWPPP are installed and functioning as intended.
- Assess whether additional BMPs should be implemented, and document modified BMPs in the SWPPP as necessary.
- Sample discharge daily until the discharge is twenty five (25) NTU or lower.

If the turbidity exceeds 250 NTU or the transparency or is less than six (6) cm at any time, the following steps will be conducted:

- Notify the Department of Ecology by phone within twenty four (24) hours of analysis (see Section 9 of this SWPPP for contact information).
- Continue sampling daily until the discharge is twenty five (25) NTU or lower. Initiate additional treatment BMPs such as off-site treatment, infiltration, filtration and chemical treatment within twenty four (24) hours, and implement those additional treatment BMPs as soon as possible, but within a minimum of seven (7) days.
- Describe inspection results and remedial actions taken in the site logbook and in monthly discharge monitoring reports described in Section 1.15 of this SWPPP.

pH

Sampling and monitoring of pH occurs if significant concrete work (> 1,000 cubic yards throughout the life of the project) or use of engineered soils (e.g., cement-treated base). The project will provide less than one thousand (1,000) cubic yards of cement concrete. Therefore, pH testing is not required per the Department of Ecology Construction Stormwater General Permit.

11 Recordkeeping

Site Logbook

A site logbook will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements;
- Site inspections; and,
- Stormwater quality monitoring.

For convenience, the inspection form and water quality monitoring forms included in this SWPPP include the required information for the site logbook.

Records Retention

Records of all monitoring information (site logbook, inspection reports/checklists, etc.), this Stormwater Pollution Prevention Plan, and any other documentation of compliance with permit requirements will be retained during the life of the construction project and for a minimum of three (3) years following the termination of permit coverage in accordance with permit condition S5.C.

Access to Plans and Records

The SWPPP, General Permit, Notice of Authorization Letter, and Site Logbook will be retained on site or within reasonable access to the site and will be made immediately available to the Department of Ecology or the local jurisdiction upon request. A copy of this SWPPP will be provided to the Department of Ecology within fourteen (14) days of receipt of written request for the SWPPP from the Department of Ecology. Any other information requested by Ecology will be submitted within a reasonable time. A copy of the SWPPP or access to the SWPPP will be provided to the public when requested in writing in accordance with permit condition S5.G.

Updating the SWPPP

In accordance with conditions S3, S4.B, and S.B.3 of the General Permit, this SWPPP will be modified if the SWPPP is ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site or there has been a change in design, construction, operation, or maintenance at the site that has a significant effect on the discharge, or potential for discharge, of pollutants to the waters of the state. The SWPPP will be modified within seven (7) days of determination based on inspection(s) that additional or modified BMPs are necessary to correct problems identified, and an updated timeline for BMP implementation will be prepared.

12 Reporting

Notification of Noncompliance

If any of the terms and conditions of this permit is not met, and it causes a threat to human health or the environment, the following steps will be taken in accordance with Section S5.F:

1. The Department of Ecology will be immediately notified of the failure to comply.

2. Immediate action will be taken to control the noncompliance issue and to correct the problem. If applicable, sampling and analysis of any noncompliance will be repeated immediately and submitted to the Department of Ecology within five (5) days of becoming aware of the violation.

3. A detailed report describing the noncompliance will be submitted to Ecology within five (5) days, unless requested earlier by the Department of Ecology.

Appendix 1

Site Vicinity Map


Nisqually River
SR 507
Project Site
SR 510
SR 507
N

Appendix 2

BMP Detail Sheets

Maintenance Standards

If the fence has been damaged or visibility reduced, it shall be repaired or replaced immediately and visibility restored.

BMP C105: Stabilized Construction Access

Purpose

Stabilized construction accesses are established to reduce the amount of sediment transported onto paved roads outside the project site by vehicles or equipment. This is done by constructing a stabilized pad of quarry spalls at entrances and exits for project sites.

Conditions of Use

Construction accesses shall be stabilized wherever traffic will be entering or leaving a construction site if paved roads or other paved areas are within 1,000 feet of the site.

For residential subdivision construction sites, provide a stabilized construction access for each residence, rather than only at the main subdivision entrance. Stabilized surfaces shall be of sufficient length/width to provide vehicle access/parking, based on lot size and configuration.

On large commercial, highway, and road projects, the designer should include enough extra materials in the contract to allow for additional stabilized accesses not shown in the initial Construction SWPPP. It is difficult to determine exactly where access to these projects will take place; additional materials will enable the contractor to install them where needed.

Design and Installation Specifications

See Figure II-3.1: Stabilized Construction Access for details. Note: the 100' minimum length of the access shall be reduced to the maximum practicable size when the size or configuration of the site does not allow the full length (100').

Construct stabilized construction accesses with a 12-inch thick pad of 4-inch to 8-inch quarry spalls, a 4-inch course of asphalt treated base (ATB), or use existing pavement. Do not use crushed concrete, cement, or calcium chloride for construction access stabilization because these products raise pH levels in stormwater and concrete discharge to waters of the State is prohibited.

A separation geotextile shall be placed under the spalls to prevent fine sediment from pumping up into the rock pad. The geotextile shall meet the standards listed in Table II-3.2: Stabilized Construction Access Geotextile Standards.

Table II-3.2: Stabilized Construction Access Geotextile Standards

Geotextile Property	Required Value
Grab Tensile Strength (ASTM D4751)	200 psi min.

Table II-3.2: Stabilized Construction Access Geotextile Standards (continued)

Geotextile Property	Required Value
Grab Tensile Elongation (ASTM D4632)	30% max.
Mullen Burst Strength (ASTM D3786-80a)	400 psi min.
AOS (ASTM D4751)	20-45 (U.S. standard sieve size)

- Consider early installation of the first lift of asphalt in areas that will be paved; this can be used as a stabilized access. Also consider the installation of excess concrete as a stabilized access. During large concrete pours, excess concrete is often available for this purpose.
- Fencing (see BMP C103: High-Visibility Fence) shall be installed as necessary to restrict traffic to the construction access.
- Whenever possible, the access shall be constructed on a firm, compacted subgrade. This can substantially increase the effectiveness of the pad and reduce the need for maintenance.
- Construction accesses should avoid crossing existing sidewalks and back of walk drains if at all possible. If a construction access must cross a sidewalk or back of walk drain, the full length of the sidewalk and back of walk drain must be covered and protected from sediment leaving the site.

Alternative Material Specification

WSDOT has raised safety concerns about the Quarry Spall rock specified above. WSDOT observes that the 4-inch to 8-inch rock sizes can become trapped between Dually truck tires, and then released off-site at highway speeds. WSDOT has chosen to use a modified specification for the rock while continuously verifying that the Stabilized Construction Access remains effective. To remain effective, the BMP must prevent sediment from migrating off site. To date, there has been no performance testing to verify operation of this new specification. Jurisdictions may use the alternative specification, but must perform increased off-site inspection if they use, or allow others to use, it.

Stabilized Construction Accesses may use material that meets the requirements of WSDOT's *Standard Specifications for Road, Bridge, and Municipal Construction* Section 9-03.9(1) (WSDOT, 2016) for ballast except for the following special requirements.

The grading and quality requirements are listed in Table II-3.3: Stabilized Construction Access Alternative Material Requirements.

Table II-3.3: Stabilized Construction Access Alternative Material Requirements

Sieve Size	Percent Passing
2½"	99-100

Table II-3.3: Stabilized Construction Access Alternative Material Requirements (continued)

Sieve Size	Percent Passing
2″	65-100
¾″	40-80
No. 4	5 max.
No. 100	0-2
% Fracture	75 min.

- All percentages are by weight.
- The sand equivalent value and dust ratio requirements do not apply.
- The fracture requirement shall be at least one fractured face and will apply the combined aggregate retained on the No. 4 sieve in accordance with FOP for AASHTO T 335.

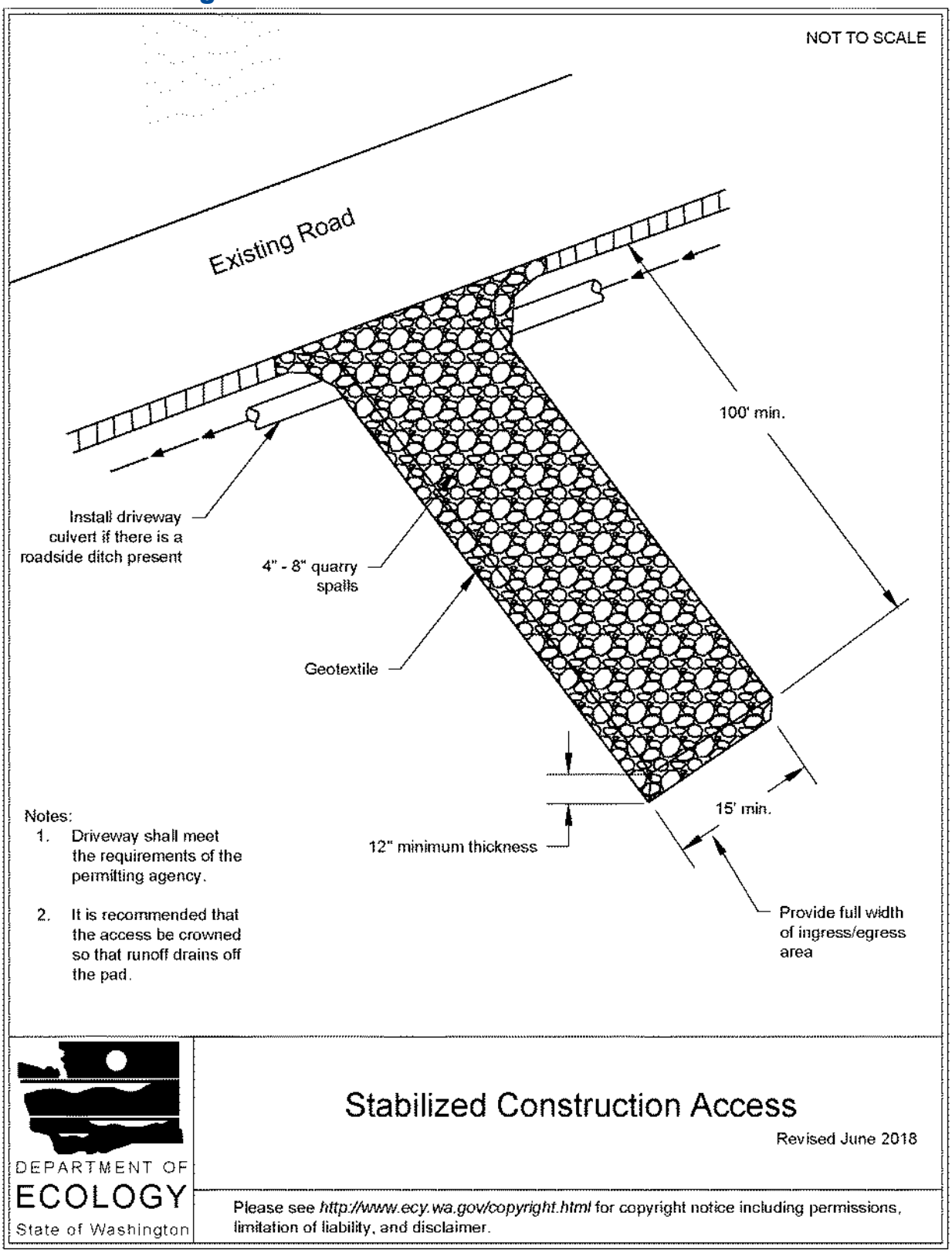
Maintenance Standards

Quarry spalls shall be added if the pad is no longer in accordance with the specifications.

- If the access is not preventing sediment from being tracked onto pavement, then alternative measures to keep the streets free of sediment shall be used. This may include replacement/cleaning of the existing quarry spalls, street sweeping, an increase in the dimensions of the access, or the installation of BMP C106: Wheel Wash.
- Any sediment that is tracked onto pavement shall be removed by shoveling or street sweeping. The sediment collected by sweeping shall be removed or stabilized on site. The pavement shall not be cleaned by washing down the street, except when high efficiency sweeping is ineffective and there is a threat to public safety. If it is necessary to wash the streets, the construction of a small sump to contain the wash water shall be considered. The sediment would then be washed into the sump where it can be controlled.
- Perform street sweeping by hand or with a high efficiency sweeper. Do not use a non-high efficiency mechanical sweeper because this creates dust and throws soils into storm systems or conveyance ditches.
- Any quarry spalls that are loosened from the pad, which end up on the roadway shall be removed immediately.
- If vehicles are entering or exiting the site at points other than the construction access(es), BMP C103: High-Visibility Fence shall be installed to control traffic.

- Upon project completion and site stabilization, all construction accesses intended as permanent access for maintenance shall be permanently stabilized.

Figure II-3.1: Stabilized Construction Access



Crushed rock, gravel base, etc., shall be added as required to maintain a stable driving surface and to stabilize any areas that have eroded.

Following construction, these areas shall be restored to pre-construction condition or better to prevent future erosion.

Perform street cleaning at the end of each day or more often if necessary.

BMP C120: Temporary and Permanent Seeding

Purpose

Seeding reduces erosion by stabilizing exposed soils. A well-established vegetative cover is one of the most effective methods of reducing erosion.

Conditions of Use

Use seeding throughout the project on disturbed areas that have reached final grade or that will remain unworked for more than 30 days.

The optimum seeding windows for western Washington are April 1 through June 30 and September 1 through October 1.

Between July 1 and August 30 seeding requires irrigation until 75 percent grass cover is established.

Between October 1 and March 30 seeding requires a cover of mulch or an erosion control blanket until 75 percent grass cover is established.

Review all disturbed areas in late August to early September and complete all seeding by the end of September. Otherwise, vegetation will not establish itself enough to provide more than average protection.

Mulch is required at all times for seeding because it protects seeds from heat, moisture loss, and transport due to runoff. Mulch can be applied on top of the seed or simultaneously by hydroseeding. See BMP C121: Mulching for specifications.

Seed and mulch all disturbed areas not otherwise vegetated at final site stabilization. Final stabilization means the completion of all soil disturbing activities at the site and the establishment of a permanent vegetative cover, or equivalent permanent stabilization measures (such as pavement, riprap, gabions, or geotextiles) which will prevent erosion. See BMP T5.13: Post-Construction Soil Quality and Depth.

Design and Installation Specifications

General

- Install channels intended for vegetation before starting major earthwork and hydroseed with a Bonded Fiber Matrix. For vegetated channels that will have high flows, install erosion control blankets over the top of hydroseed. Before allowing water to flow in vegetated channels, establish 75 percent vegetation cover. If vegetated channels cannot be established by seed

before water flow; install sod in the channel bottom — over top of hydromulch and erosion control blankets.

- Confirm the installation of all required surface water control measures to prevent seed from washing away.
- Hydroseed applications shall include a minimum of 1,500 pounds per acre of mulch with 3 percent tackifier. See BMP C121: Mulching for specifications.
- Areas that will have seeding only and not landscaping may need compost or meal-based mulch included in the hydroseed in order to establish vegetation. Re-install native topsoil on the disturbed soil surface before application. See BMP T5.13: Post-Construction Soil Quality and Depth.
- When installing seed via hydroseeding operations, only about 1/3 of the seed actually ends up in contact with the soil surface. This reduces the ability to establish a good stand of grass quickly. To overcome this, consider increasing seed quantities by up to 50 percent.
- Enhance vegetation establishment by dividing the hydromulch operation into two phases:
    - Phase 1- Install all seed and fertilizer with 25-30 percent mulch and tackifier onto soil in the first lift.
    - Phase 2- Install the rest of the mulch and tackifier over the first lift.

  Or, enhance vegetation by:
    - Installing the mulch, seed, fertilizer, and tackifier in one lift.
    - Spread or blow straw over the top of the hydromulch at a rate of 800-1000 pounds per acre.
    - Hold straw in place with a standard tackifier.

  Both of these approaches will increase cost moderately but will greatly improve and enhance vegetative establishment. The increased cost may be offset by the reduced need for:
    - Irrigation.
    - Reapplication of mulch.
    - Repair of failed slope surfaces.

  This technique works with standard hydromulch (1,500 pounds per acre minimum) and Bonded Fiber Matrix/ Mechanically Bonded Fiber Matrix (BFM/MBFMs) (3,000 pounds per acre minimum).
- Seed may be installed by hand if:
    - Temporary and covered by straw, mulch, or topsoil.
    - Permanent in small areas (usually less than 1 acre) and covered with mulch, topsoil, or erosion blankets.
- The seed mixes listed in Table II-3.4: Temporary and Permanent Seed Mixes include

recommended mixes for both temporary and permanent seeding.

- Apply these mixes, with the exception of the wet area seed mix, at a rate of 120 pounds per acre. This rate can be reduced if soil amendments or slow-release fertilizers are used. Apply the wet area seed mix at a rate of 60 pounds per acre.
- Consult the local suppliers or the local conservation district for their recommendations. The appropriate mix depends on a variety of factors, including location, exposure, soil type, slope, and expected foot traffic. Alternative seed mixes approved by the local authority may be used, depending on the soil type and hydrology of the area.

Table II-3.4: Temporary and Permanent Seed Mixes

Common Name	Latin Name	% Weight	% Purity	% Germination
Temporary Erosion Control Seed Mix A standard mix for areas requiring a temporary vegetative cover.				
Chewings or annual blue grass	*Festuca rubra var. commutata* or *Poa anna*	40	98	90
Perennial rye	*Lolium perenne*	50	98	90
Redtop or colonial bentgrass	*Agrostis alba* or *Agrostis tenuis*	5	92	85
White dutch clover	*Trifolium repens*	5	98	90
Landscaping Seed Mix A recommended mix for landscaping seed.				
Perennial rye blend	*Lolium perenne*	70	98	90
Chewings and red fescue blend	*Festuca rubra var. commutata* or *Festuca rubra*	30	98	90
Low-Growing Turf Seed Mix A turf seed mix for dry situations where there is no need for watering. This mix requires very little maintenance.				
Dwarf tall fescue (several varieties)	*Festuca arundinacea var.*	45	98	90
Dwarf perennial rye (Barclay)	*Lolium perenne var. barclay*	30	98	90
Red fescue	*Festuca rubra*	20	98	90
Colonial bentgrass	*Agrostis tenuis*	5	98	90
Bioswale Seed Mix A seed mix for bioswales and other intermittently wet areas.				
Tall or meadow fes-	*Festuca arundin-*	75-80	98	90

Table II-3.4: Temporary and Permanent Seed Mixes (continued)

Common Name	Latin Name	% Weight	% Purity	% Germination
cue	*acea* or *Festuca elatior*			
Seaside/Creeping bentgrass	*Agrostis palustris*	10-15	92	85
Redtop bentgrass	*Agrostis alba* or *Agrostis gigantea*	5-10	90	80
Wet Area Seed Mix A low-growing, relatively non-invasive seed mix appropriate for very wet areas that are not regulated wetlands. Consult Hydraulic Permit Authority (HPA) for seed mixes if applicable.				
Tall or meadow fescue	*Festuca arundinacea* or *Festuca elatior*	60-70	98	90
Seaside/Creeping bentgrass	*Agrostis palustris*	10-15	98	85
Meadow foxtail	*Alepocurus pratensis*	10-15	90	80
Alsike clover	*Trifolium hybridum*	1-6	98	90
Redtop bentgrass	*Agrostis alba*	1-6	92	85
Meadow Seed Mix A recommended meadow seed mix for infrequently maintained areas or non-maintained areas where colonization by native plants is desirable. Likely applications include rural road and utility right-of-way. Seeding should take place in September or very early October in order to obtain adequate establishment prior to the winter months. Consider the appropriateness of clover, a fairly invasive species, in the mix. Amending the soil can reduce the need for clover.				
Redtop or Oregon bentgrass	*Agrostis alba* or *Agrostis oregonensis*	20	92	85
Red fescue	*Festuca rubra*	70	98	90
White dutch clover	*Trifolium repens*	10	98	90

Roughening and Rototilling

- The seedbed should be firm and rough. Roughen all soil no matter what the slope. Track walk slopes before seeding if engineering purposes require compaction. Backblading or smoothing of slopes greater than 4H:1V is not allowed if they are to be seeded.
- Restoration-based landscape practices require deeper incorporation than that provided by a simple single-pass rototilling treatment. Wherever practical, initially rip the subgrade to improve long-term permeability, infiltration, and water inflow qualities. At a minimum,

permanent areas shall use soil amendments to achieve organic matter and permeability performance defined in engineered soil/landscape systems. For systems that are deeper than 8 inches complete the rototilling process in multiple lifts, or prepare the engineered soil system per specifications and place to achieve the specified depth.

Fertilizers

- Conducting soil tests to determine the exact type and quantity of fertilizer is recommended. This will prevent the over-application of fertilizer.
- Organic matter is the most appropriate form of fertilizer because it provides nutrients (including nitrogen, phosphorus, and potassium) in the least water-soluble form.
- In general, use 10-4-6 N-P-K (nitrogen-phosphorus-potassium) fertilizer at a rate of 90 pounds per acre. Always use slow-release fertilizers because they are more efficient and have fewer environmental impacts. Do not add fertilizer to the hydromulch machine, or agitate, more than 20 minutes before use. Too much agitation destroys the slow-release coating.
- There are numerous products available that take the place of chemical fertilizers. These include several with seaweed extracts that are beneficial to soil microbes and organisms. If 100 percent cottonseed meal is used as the mulch in hydroseed, chemical fertilizer may not be necessary. Cottonseed meal provides a good source of long-term, slow-release, available nitrogen.

Bonded Fiber Matrix and Mechanically Bonded Fiber Matrix

- On steep slopes use Bonded Fiber Matrix (BFM) or Mechanically Bonded Fiber Matrix (MBFM) products. Apply BFM/MBFM products at a minimum rate of 3,000 pounds per acre with approximately 10 percent tackifier. Achieve a minimum of 95 percent soil coverage during application. Numerous products are available commercially. Most products require 24-36 hours to cure before rainfall and cannot be installed on wet or saturated soils. Generally, products come in 40-50 pound bags and include all necessary ingredients except for seed and fertilizer.
- Install products per manufacturer's instructions.
- BFMs and MBFMs provide good alternatives to blankets in most areas requiring vegetation establishment. Advantages over blankets include:
    - BFM and MBFMs do not require surface preparation.
    - Helicopters can assist in installing BFM and MBFMs in remote areas.
    - On slopes steeper than 2.5H:1V, blanket installers may require ropes and harnesses for safety.
    - Installing BFM and MBFMs can save at least $1,000 per acre compared to blankets.

Maintenance Standards

Reseed any seeded areas that fail to establish at least 75 percent cover (100 percent cover for areas that receive sheet or concentrated flows). If reseeding is ineffective, use an alternate method such as sodding, mulching, nets, or blankets.

- Reseed and protect by mulch any areas that experience erosion after achieving adequate cover. Reseed and protect by mulch any eroded area.
- Supply seeded areas with adequate moisture, but do not water to the extent that it causes run-off.

Approved as Functionally Equivalent

Ecology has approved products as able to meet the requirements of this BMP. The products did not pass through the Technology Assessment Protocol – Ecology (TAPE) process. Local jurisdictions may choose not to accept these products, or may require additional testing prior to consideration for local use. Products that Ecology has approved as functionally equivalent are available for review on Ecology's website at:

https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Emerging-stormwater-treatment-technologies

BMP C121: Mulching

Purpose

Mulching soils provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures. There are a variety of mulches that can be used. This section discusses only the most common types of mulch.

Conditions of Use

As a temporary cover measure, mulch should be used:

- For less than 30 days on disturbed areas that require cover.
- At all times for seeded areas, especially during the wet season and during the hot summer months.
- During the wet season on slopes steeper than 3H:1V with more than 10 feet of vertical relief.

Mulch may be applied at any time of the year and must be refreshed periodically.

For seeded areas, mulch may be made up of 100 percent:

- cottonseed meal;
- fibers made of wood, recycled cellulose, hemp, or kenaf;

- compost;
- or blends of these.

Tackifier shall be plant-based, such as guar or alpha plantago, or chemical-based such as polyacrylamide or polymers.

Generally, mulches come in 40-50 pound bags. Seed and fertilizer are added at time of application.

Recycled cellulose may contain polychlorinated biphenyl (PCBs). Ecology recommends that products should be evaluated for PCBs prior to use.

Refer to BMP C126: Polyacrylamide (PAM) for Soil Erosion Protection for conditions of use. PAM shall not be directly applied to water or allowed to enter a water body.

Any mulch or tackifier product used shall be installed per the manufacturer's instructions.

Design and Installation Specifications

For mulch materials, application rates, and specifications, see Table II-3.6: Mulch Standards and Guidelines. Consult with the local supplier or the local conservation district for their recommendations. Increase the application rate until the ground is 95% covered (i.e. not visible under the mulch layer). Note: Thickness may be increased for disturbed areas in or near sensitive areas or other areas highly susceptible to erosion.

Where the option of "Compost" is selected, it should be a coarse compost that meets the size gradations listed in Table II-3.5: Size Gradations of Compost as Mulch Material when tested in accordance with Test Method 02.02-B found in *Test Methods for the Examination of Composting and Compost* (Thompson, 2001).

Table II-3.5: Size Gradations of Compost as Mulch Material

Sieve Size	Percent Passing
3"	100%
1"	90% - 100%
3/4"	70% - 100%
1/4"	40% - 100%

Mulch used within the ordinary high-water mark of surface waters should be selected to minimize potential flotation of organic matter. Composted organic materials have higher specific gravities (densities) than straw, wood, or chipped material. Consult the Hydraulic Permit Authority (HPA) for mulch mixes if applicable.

Maintenance Standards

The thickness of the mulch cover must be maintained.

Any areas that experience erosion shall be remulched and/or protected with a net or blanket. If the erosion problem is drainage related, then the problem shall be fixed and the eroded area remulched.

Table II-3.6: Mulch Standards and Guidelines

Mulch Material	Guideline	Description
Straw	**Quality Standards**	Air-dried; free from undesirable seed and coarse material.
	Application Rates	2"-3" thick; 5 bales per 1,000 sf or 2-3 tons per acre
	Remarks	Cost-effective protection when applied with adequate thickness. Hand-application generally requires greater thickness than blown straw. The thickness of straw may be reduced by half when used in conjunction with seeding. In windy areas straw must be held in place by crimping, using a tackifier, or covering with netting. Blown straw always has to be held in place with a tackifier as even light winds will blow it away. Straw, however, has several deficiencies that should be considered when selecting mulch materials. It often introduces and/or encourages the propagation of weed species and it has no significant long-term benefits It should also not be used within the ordinary high-water elevation of surface waters (due to flotation).
Hydromulch	**Quality Standards**	No growth inhibiting factors.
	Application Rates	Approx. 35-45 lbs per 1,000 sf or 1,500 - 2,000 lbs per acre
	Remarks	Shall be applied with hydromulcher. Shall not be used without seed and tackifier unless the application rate is at least doubled. Fibers longer than about 3/4 - 1 inch clog hydromulch equipment. Fibers should be kept to less than 3/4 inch.
Compost	**Quality Standards**	No visible water or dust during handling. Must be produced per WAC 173-350, Solid Waste Handling Standards, but may have up to 35% biosolids.
	Application Rates	2" thick min.; approx. 100 tons per acre (approx. 750 lbs per cubic yard)
	Remarks	More effective control can be obtained by increasing thickness to 3". Excellent mulch for protecting final grades until landscaping because it can be directly seeded or tilled into soil as an amendment. Compost used for mulch has a coarser size gradation than compost used for BMP C125: Topsoiling / Composting or BMP T5.13: Post-Construction Soil Quality and Depth. It is more stable and practical to use in wet areas and during rainy weather conditions. Do not use near wetlands or near phosphorous impaired water bodies.
Chipped Site Vegetation	**Quality Standards**	Gradations from fines to 6 inches in length for texture, variation, and interlocking properties. Include a mix of various sizes so that the average size is between 2- and 4- inches.
	Application Rates	2" thick min.;

Table II-3.6: Mulch Standards and Guidelines (continued)

Mulch Material	Guideline	Description
	Remarks	This is a cost-effective way to dispose of debris from clearing and grubbing, and it eliminates the problems associated with burning. Generally, it should not be used on slopes above approx. 10% because of its tendency to be transported by runoff. It is not recommended within 200 feet of surface waters. If permanent seeding or planting is expected shortly after mulch, the decomposition of the chipped vegetation may tie up nutrients important to grass establishment. Note: thick application of this material over existing grass, herbaceous species, and some groundcovers could smother and kill vegetation.
Wood-Based Mulch	**Quality Standards**	No visible water or dust during handling. Must be purchased from a supplier with a Solid Waste Handling Permit or one exempt from solid waste regulations.
	Application Rates	2" thick min.; approx. 100 tons per acre (approx. 750 lbs. per cubic yard)
	Remarks	This material is often called "wood straw" or "hog fuel". The use of mulch ultimately improves the organic matter in the soil. Special caution is advised regarding the source and composition of wood-based mulches. Its preparation typically does not provide any weed seed control, so evidence of residual vegetation in its composition or known inclusion of weed plants or seeds should be monitored and prevented (or minimized).
Wood Strand Mulch	**Quality Standards**	A blend of loose, long, thin wood pieces derived from native conifer or deciduous trees with high length-to-width ratio.
	Application Rates	2" thick min.
	Remarks	Cost-effective protection when applied with adequate thickness. A minimum of 95-percent of the wood strand shall have lengths between 2 and 10-inches, with a width and thickness between 1/16 and 1/2-inches. The mulch shall not contain resin, tannin, or other compounds in quantities that would be detrimental to plant life. Sawdust or wood shavings shall not be used as mulch. [Specification 9-14.4(4) from the *Standard Specifications for Road, Bridge, and Municipal Construction* (WSDOT, 2016)

BMP C122: Nets and Blankets

Purpose

Erosion control nets and blankets are intended to prevent erosion and hold seed and mulch in place on steep slopes and in channels so that vegetation can become well established. In addition, some nets and blankets can be used to permanently reinforce turf to protect drainage ways during high flows.

BMP C125: Topsoiling / Composting

Purpose

Topsoiling and composting provide a suitable growth medium for final site stabilization with vegetation. While not a permanent cover practice in itself, topsoiling and composting are an integral component of providing permanent cover in those areas where there is an unsuitable soil surface for plant growth. Use this BMP in conjunction with other BMPs such as BMP C120: Temporary and Permanent Seeding, BMP C121: Mulching, or BMP C124: Sodding. Implementation of this BMP may meet the post-construction requirements of BMP T5.13: Post-Construction Soil Quality and Depth.

Native soils and disturbed soils that have been organically amended not only retain much more stormwater, but also serve as effective biofilters for urban pollutants and, by supporting more vigorous plant growth, reduce the water, fertilizer and pesticides needed to support installed landscapes. Topsoil does not include any subsoils but only the material from the top several inches including organic debris.

Conditions of Use

- Permanent landscaped areas shall contain healthy topsoil that reduces the need for fertilizers, improves overall topsoil quality, provides for better vegetative health and vitality, improves hydrologic characteristics, and reduces the need for irrigation.
- Leave native soils and the duff layer undisturbed to the maximum extent practicable. Stripping of existing, properly functioning soil system and vegetation for the purpose of topsoiling during construction is not acceptable. Preserve existing soil systems in undisturbed and uncompacted conditions if functioning properly.
- Areas that already have good topsoil, such as undisturbed areas, do not require soil amendments.
- Restore, to the maximum extent practical, native soils disturbed during clearing and grading to a condition equal to or better than the original site condition's moisture-holding capacity. Use on-site native topsoil, incorporate amendments into on-site soil, or import blended topsoil to meet this requirement.
- Topsoiling is a required procedure when establishing vegetation on shallow soils, and soils of critically low pH (high acid) levels.
- Beware of where the topsoil comes from, and what vegetation was on site before disturbance. Invasive plant seeds may be included and could cause problems for establishing native plants, landscaped areas, or grasses.
- Topsoil from the site will contain mycorrhizal bacteria that are necessary for healthy root growth and nutrient transfer. These native mycorrhiza are acclimated to the site and will provide optimum conditions for establishing grasses. Use commercially available mycorrhiza products when using off-site topsoil.

Design and Installation Specifications

Meet the following requirements for disturbed areas that will be developed as lawn or landscaped areas at the completed project site:

- Maximize the depth of the topsoil wherever possible to provide the maximum possible infiltration capacity and beneficial growth medium. Topsoil shall have:
    - A minimum depth of 8-inches. Scarify subsoils below the topsoil layer at least 4-inches with some incorporation of the upper material to avoid stratified layers, where feasible. Ripping or re-structuring the subgrade may also provide additional benefits regarding the overall infiltration and interflow dynamics of the soil system.
    - A minimum organic content of 10% dry weight in planting beds, and 5% organic matter content in turf areas. Incorporate organic amendments to a minimum 8-inch depth except where tree roots or other natural features limit the depth of incorporation.
    - A pH between 6.0 and 8.0 or matching the pH of the undisturbed soil.
    - If blended topsoil is imported, then fines should be limited to 25 percent passing through a 200 sieve.
- Mulch planting beds with 2 inches of organic material
- Accomplish the required organic content, depth, and pH by returning native topsoil to the site, importing topsoil of sufficient organic content, and/or incorporating organic amendments. When using the option of incorporating amendments to meet the organic content requirement, use compost that meets the compost specification for Bioretention (See BMP T7.30: Bioretention), with the exception that the compost may have up to 35% biosolids or manure.
- Sections 3 through 7 of *Building Soil: Guidelines and Resources for Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington* (Stenn et al., 2016), provides useful guidance for implementing whichever option is chosen. It includes guidance for pre-approved default strategies and guidance for custom strategies. Check with your local jurisdiction concerning its acceptance of this guidance.
- The final composition and construction of the soil system will result in a natural selection or favoring of certain plant species over time. For example, incorporation of topsoil may favor grasses, while layering with mildly acidic, high-carbon amendments may favor more woody vegetation.
- Allow sufficient time in scheduling for topsoil spreading prior to seeding, sodding, or planting.
- Take care when applying top soil to subsoils with contrasting textures. Sandy topsoil over clayey subsoil is a particularly poor combination, as water creeps along the junction between the soil layers and causes the topsoil to slough. If topsoil and subsoil are not properly bonded, water will not infiltrate the soil profile evenly and it will be difficult to establish vegetation. The best method to promote bonding is to actually work the topsoil into the layer below for a depth of at least 6 inches.
- Field exploration of the site shall be made to determine if there is surface soil of sufficient quantity and quality to justify stripping. Topsoil shall be friable and loamy (loam, sandy loam,

silt loam, sandy clay loam, and clay loam). Avoid areas of natural ground water recharge.

- Stripping shall be confined to the immediate construction area. A 4-inch to 6-inch stripping depth is common, but depth may vary depending on the particular soil. All surface runoff control structures shall be in place prior to stripping.
- Do not place topsoil while in a frozen or muddy condition, when the subgrade is excessively wet, or when conditions exist that may otherwise be detrimental to proper grading or proposed sodding or seeding.
- In any areas requiring grading, remove and stockpile the duff layer and topsoil on site in a designated, controlled area, not adjacent to public resources and critical areas. Reapply stockpiled topsoil to other portions of the site where feasible.
- Locate the topsoil stockpile so that it meets specifications and does not interfere with work on the site. It may be possible to locate more than one pile in proximity to areas where topsoil will be used.
- Stockpiling of topsoil shall occur in the following manner:
    - Side slopes of the stockpile shall not exceed 2H:1V.
    - Between October 1 and April 30:
        - An interceptor dike with gravel outlet and silt fence shall surround all topsoil.
        - Within 2 days complete erosion control seeding, or covering stockpiles with clear plastic, or other mulching materials.
    - Between May 1 and September 30:
        - An interceptor dike with gravel outlet and silt fence shall surround all topsoil if the stockpile will remain in place for a longer period of time than active construction grading.
        - Within 7 days complete erosion control seeding, or covering stockpiles with clear plastic, or other mulching materials.
- When native topsoil is to be stockpiled and reused the following should apply to ensure that the mycorrhizal bacterial, earthworms, and other beneficial organisms will not be destroyed:
    - Re-install topsoil within 4 to 6 weeks.
    - Do not allow the saturation of topsoil with water.
    - Do not use plastic covering.

Maintenance Standards

- Inspect stockpiles regularly, especially after large storm events. Stabilize any areas that have eroded.
- Establish soil quality and depth toward the end of construction and once established, protect from compaction, such as from large machinery use, and from erosion.

- Plant and mulch soil after installation.
- Leave plant debris or its equivalent on the soil surface to replenish organic matter.
- Reduce and adjust, where possible, the use of irrigation, fertilizers, herbicides and pesticides, rather than continuing to implement formerly established practices.

BMP C126: Polyacrylamide (PAM) for Soil Erosion Protection

Purpose

Polyacrylamide (PAM) is used on construction sites to prevent soil erosion.

Applying PAM to bare soil in advance of a rain event significantly reduces erosion and controls sediment in two ways. First, PAM increases the soil's available pore volume, thus increasing infiltration and reducing the quantity of stormwater runoff. Second, it increases flocculation of suspended particles and aids in their deposition, thus reducing stormwater runoff turbidity and improving water quality.

Conditions of Use

PAM shall not be directly applied to water or allowed to enter a water body. Stormwater runoff shall pass through a sediment pond prior to discharging to surface waters.

PAM can be applied to bare soil under the following conditions:

- During rough grading operations.
- In Staging areas.
- Balanced cut and fill earthwork.
- Haul roads prior to placement of crushed rock surfacing.
- Compacted soil roadbase.
- Stockpiles.
- After final grade and before paving or final seeding and planting.
- Pit sites.
- Sites having a winter shut down. In the case of winter shut down, or where soil will remain unworked for several months, PAM should be used together with mulch.

Design and Installation Specifications

- Do not use PAM on a slope that flows directly into a stream or wetland.
- Do not add PAM to water discharging from the site.

BMP C140: Dust Control

Purpose

Dust control prevents wind transport of dust from disturbed soil surfaces onto roadways, drainage ways, and surface waters.

Conditions of Use

Use dust control in areas (including roadways) subject to surface and air movement of dust where on-site or off-site impacts to roadways, drainage ways, or surface waters are likely.

Design and Installation Specifications

- Vegetate or mulch areas that will not receive vehicle traffic. In areas where planting, mulching, or paving is impractical, apply gravel or landscaping rock.
- Limit dust generation by clearing only those areas where immediate activity will take place, leaving the remaining area(s) in the original condition. Maintain the original ground cover as long as practical.
- Construct natural or artificial windbreaks or windscreens. These may be designed as enclosures for small dust sources.
- Sprinkle the site with water until the surface is wet. Repeat as needed. To prevent carryout of mud onto the street, refer to BMP C105: Stabilized Construction Access and BMP C106: Wheel Wash.
- Irrigation water can be used for dust control. Irrigation systems should be installed as a first step on sites where dust control is a concern.
- Spray exposed soil areas with a dust palliative, following the manufacturer's instructions and cautions regarding handling and application. Used oil is prohibited from use as a dust suppressant. Local governments may approve other dust palliatives such as calcium chloride or PAM.
- PAM (BMP C126: Polyacrylamide (PAM) for Soil Erosion Protection) added to water at a rate of 0.5 pounds per 1,000 gallons of water per acre and applied from a water truck is more effective than water alone. This is due to increased infiltration of water into the soil and reduced evaporation. In addition, small soil particles are bonded together and are not as easily transported by wind. Adding PAM may reduce the quantity of water needed for dust control. Note that the application rate specified here applies to this BMP, and is not the same application rate that is specified in BMP C126: Polyacrylamide (PAM) for Soil Erosion Protection, but the downstream protections still apply.

  Refer to BMP C126: Polyacrylamide (PAM) for Soil Erosion Protection for conditions of use. PAM shall not be directly applied to water or allowed to enter a water body.
- Contact your local Air Pollution Control Authority for guidance and training on other dust control measures. Compliance with the local Air Pollution Control Authority constitutes

compliance with this BMP.

- Use vacuum street sweepers.
- Remove mud and other dirt promptly so it does not dry and then turn into dust.
- Techniques that can be used for unpaved roads and lots include:
    - Lower speed limits. High vehicle speed increases the amount of dust stirred up from unpaved roads and lots.
    - Upgrade the road surface strength by improving particle size, shape, and mineral types that make up the surface and base materials.
    - Add surface gravel to reduce the source of dust emission. Limit the amount of fine particles (those smaller than .075 mm) to 10 to 20 percent.
    - Use geotextile fabrics to increase the strength of new roads or roads undergoing reconstruction.
    - Encourage the use of alternate, paved routes, if available.
    - Apply chemical dust suppressants using the admix method, blending the product with the top few inches of surface material. Suppressants may also be applied as surface treatments.
    - Limit dust-causing work on windy days.
    - Pave unpaved permanent roads and other trafficked areas.

Maintenance Standards

Respray area as necessary to keep dust to a minimum.

BMP C150: Materials on Hand

Purpose

Keep quantities of erosion prevention and sediment control materials on the project site at all times to be used for regular maintenance and emergency situations such as unexpected heavy rains. Having these materials on-site reduces the time needed to replace existing or implement new BMPs when inspections indicate that existing BMPs are not meeting the Construction SWPPP requirements. In addition, contractors can save money by buying some materials in bulk and storing them at their office or yard.

Conditions of Use

- Construction projects of any size or type can benefit from having materials on hand. A small commercial development project could have a roll of plastic and some gravel available for immediate protection of bare soil and temporary berm construction. A large earthwork project, such as highway construction, might have several tons of straw, several rolls of plastic, flexible

pipe, sandbags, geotextile fabric and steel “T” posts.

- Materials should be stockpiled and readily available before any site clearing, grubbing, or earthwork begins. A large contractor or project proponent could keep a stockpile of materials that are available for use on several projects.
- If storage space at the project site is at a premium, the contractor could maintain the materials at their office or yard. The office or yard must be less than an hour from the project site.

Design and Installation Specifications

Depending on project type, size, complexity, and length, materials and quantities will vary. A good minimum list of items that will cover numerous situations includes:

- Clear Plastic, 6 mil
- Drainpipe, 6 or 8 inch diameter
- Sandbags, filled
- Straw Bales for mulching
- Quarry Spalls
- Washed Gravel
- Geotextile Fabric
- Catch Basin Inserts
- Steel "T" Posts
- Silt fence material
- Straw Wattles

Maintenance Standards

- All materials with the exception of the quarry spalls, steel “T” posts, and gravel should be kept covered and out of both sun and rain.
- Re-stock materials as needed.

BMP C151: Concrete Handling

Purpose

Concrete work can generate process water and slurry that contain fine particles and high pH, both of which can violate water quality standards in the receiving water. Concrete spillage or concrete discharge to waters of the State is prohibited. Use this BMP to minimize and eliminate concrete, concrete process water, and concrete slurry from entering waters of the State.

Conditions of Use

Any time concrete is used, utilize these management practices. Concrete construction project components include, but are not limited to:

- Curbs
- Sidewalks
- Roads
- Bridges
- Foundations
- Floors
- Runways

Disposal options for concrete, in order of preference are:

1. Off-site disposal
2. Concrete wash-out areas (see BMP C154: Concrete Washout Area)
3. De minimus washout to formed areas awaiting concrete

Design and Installation Specifications

- Wash concrete truck drums at an approved off-site location or in designated concrete washout areas only. Do not wash out concrete trucks onto the ground (including formed areas awaiting concrete), or into storm drains, open ditches, streets, or streams. Refer to BMP C154: Concrete Washout Area for information on concrete washout areas.
    - Return unused concrete remaining in the truck and pump to the originating batch plant for recycling. Do not dump excess concrete on site, except in designated concrete washout areas as allowed in BMP C154: Concrete Washout Area.
- Wash small concrete handling equipment (e.g. hand tools, screeds, shovels, rakes, floats, trowels, and wheelbarrows) into designated concrete washout areas or into formed areas awaiting concrete pour.
- At no time shall concrete be washed off into the footprint of an area where an infiltration feature will be installed.
- Wash equipment difficult to move, such as concrete paving machines, in areas that do not directly drain to natural or constructed stormwater conveyance or potential infiltration areas.
- Do not allow washwater from areas, such as concrete aggregate driveways, to drain directly (without detention or treatment) to natural or constructed stormwater conveyances.
- Contain washwater and leftover product in a lined container when no designated concrete washout areas (or formed areas, allowed as described above) are available. Dispose of contained concrete and concrete washwater (process water) properly.

- Always use forms or solid barriers for concrete pours, such as pilings, within 15-feet of surface waters.
- Refer to BMP C252: Treating and Disposing of High pH Water for pH adjustment requirements.
- Refer to the Construction Stormwater General Permit (CSWGP) for pH monitoring requirements if the project involves one of the following activities:
    - Significant concrete work (as defined in the CSWGP).
    - The use of soils amended with (but not limited to) Portland cement-treated base, cement kiln dust or fly ash.
    - Discharging stormwater to segments of water bodies on the 303(d) list (Category 5) for high pH.

Maintenance Standards

Check containers for holes in the liner daily during concrete pours and repair the same day.

BMP C152: Sawcutting and Surfacing Pollution Prevention

Purpose

Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate the water quality standards in the receiving water. Concrete spillage or concrete discharge to waters of the State is prohibited. Use this BMP to minimize and eliminate process water and slurry created through sawcutting or surfacing from entering waters of the State.

Conditions of Use

Utilize these management practices anytime sawcutting or surfacing operations take place. Sawcutting and surfacing operations include, but are not limited to:

- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- Bridge and road surfacing

Design and Installation Specifications

- Vacuum slurry and cuttings during cutting and surfacing operations.
- Slurry and cuttings shall not remain on permanent concrete or asphalt pavement overnight.
- Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems. This may require temporarily blocking catch basins.
- Dispose of collected slurry and cuttings in a manner that does not violate ground water or surface water quality standards.
- Do not allow process water generated during hydro-demolition, surface roughening or similar operations to drain to any natural or constructed drainage conveyance including stormwater systems. Dispose of process water in a manner that does not violate ground water or surface water quality standards.
- Handle and dispose of cleaning waste material and demolition debris in a manner that does not cause contamination of water. Dispose of sweeping material from a pick-up sweeper at an appropriate disposal site.

Maintenance Standards

Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and/or vacuum trucks.

BMP C153: Material Delivery, Storage, and Containment

Purpose

Prevent, reduce, or eliminate the discharge of pollutants to the stormwater system or watercourses from material delivery and storage. Minimize the storage of hazardous materials on-site, store materials in a designated area, and install secondary containment.

Conditions of Use

Use at construction sites with delivery and storage of the following materials:

- Petroleum products such as fuel, oil and grease
- Soil stabilizers and binders (e.g., Polyacrylamide)
- Fertilizers, pesticides and herbicides
- Detergents
- Asphalt and concrete compounds

- Hazardous chemicals such as acids, lime, adhesives, paints, solvents, and curing compounds
- Any other material that may be detrimental if released to the environment

Design and Installation Specifications

- The temporary storage area should be located away from vehicular traffic, near the construction entrance(s), and away from waterways or storm drains.
- Safety Data Sheets (SDS) should be supplied for all materials stored. Chemicals should be kept in their original labeled containers.
- Hazardous material storage on-site should be minimized.
- Hazardous materials should be handled as infrequently as possible.
- During the wet weather season (Oct 1 – April 30), consider storing materials in a covered area.
- Materials should be stored in secondary containments, such as an earthen dike, horse trough, or even a children's wading pool for non-reactive materials such as detergents, oil, grease, and paints. Small amounts of material may be secondarily contained in "bus boy" trays or concrete mixing trays.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items on a pallet and, when possible, within secondary containment.
- If drums must be kept uncovered, store them at a slight angle to reduce ponding of rainwater on the lids to reduce corrosion. Domed plastic covers are inexpensive and snap to the top of drums, preventing water from collecting.
- Liquids, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 shall be stored in approved containers and drums and shall not be overfilled. Containers and drums shall be stored in temporary secondary containment facilities.
- Temporary secondary containment facilities shall provide for a spill containment volume able to contain 10% of the total enclosed container volume of all containers, or 110% of the capacity of the largest container within its boundary, whichever is greater.
- Secondary containment facilities shall be impervious to the materials stored therein for a minimum contact time of 72 hours.
- Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.
- During the wet weather season (Oct 1 – April 30), each secondary containment facility shall be covered during non-working days, prior to and during rain events.
- Keep material storage areas clean, organized and equipped with an ample supply of appropriate spill clean-up material (spill kit).
- The spill kit should include, at a minimum:

- 1-Water Resistant Nylon Bag
- 3-Oil Absorbent Socks 3”x 4’
- 2-Oil Absorbent Socks 3”x 10’
- 12-Oil Absorbent Pads 17”x19”
- 1-Pair Splash Resistant Goggles
- 3-Pair Nitrile Gloves
- 10-Disposable Bags with Ties
- Instructions

Maintenance Standards

- Secondary containment facilities shall be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills shall be collected and placed into drums. These liquids shall be handled as hazardous waste unless testing determines them to be non-hazardous.
- Re-stock spill kit materials as needed.

BMP C154: Concrete Washout Area

Purpose

Prevent or reduce the discharge of pollutants from concrete waste to stormwater by conducting washout off-site, or performing on-site washout in a designated area.

Conditions of Use

Concrete washout areas are implemented on construction projects where:

- Concrete is used as a construction material
- It is not possible to dispose of all concrete wastewater and washout off-site (ready mix plant, etc.).
- Concrete truck drums are washed on-site.

  Note that auxiliary concrete truck components (e.g. chutes and hoses) and small concrete handling equipment (e.g. hand tools, screeds, shovels, rakes, floats, trowels, and wheel-barrows) may be washed into formed areas awaiting concrete pour.

At no time shall concrete be washed off into the footprint of an area where an infiltration feature will be installed.

Design and Installation Specifications

Implementation

- Perform washout of concrete truck drums at an approved off-site location or in designated concrete washout areas only.
- Do not wash out concrete onto non-formed areas, or into storm drains, open ditches, streets, or streams.
- Wash equipment difficult to move, such as concrete paving machines, in areas that do not directly drain to natural or constructed stormwater conveyance or potential infiltration areas.
- Do not allow excess concrete to be dumped on-site, except in designated concrete washout areas as allowed above.
- Concrete washout areas may be prefabricated concrete washout containers, or self-installed structures (above-grade or below-grade).
- Prefabricated containers are most resistant to damage and protect against spills and leaks. Companies may offer delivery service and provide regular maintenance and disposal of solid and liquid waste.
- If self-installed concrete washout areas are used, below-grade structures are preferred over above-grade structures because they are less prone to spills and leaks.
- Self-installed above-grade structures should only be used if excavation is not practical.
- Concrete washout areas shall be constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations.

Education

- Discuss the concrete management techniques described in this BMP with the ready-mix concrete supplier before any deliveries are made.
- Educate employees and subcontractors on the concrete waste management techniques described in this BMP.
- Arrange for the contractor's superintendent or Certified Erosion and Sediment Control Lead (CESCL) to oversee and enforce concrete waste management procedures.
- A sign should be installed adjacent to each concrete washout area to inform concrete equipment operators to utilize the proper facilities.

Contracts

Incorporate requirements for concrete waste management into concrete supplier and subcontractor agreements.

Location and Placement

- Locate concrete washout areas at least 50 feet from sensitive areas such as storm drains, open ditches, water bodies, or wetlands.
- Allow convenient access to the concrete washout area for concrete trucks, preferably near the area where the concrete is being poured.
- If trucks need to leave a paved area to access the concrete washout area, prevent track-out with a pad of rock or quarry spalls (see BMP C105: Stabilized Construction Access). These areas should be far enough away from other construction traffic to reduce the likelihood of accidental damage and spills.
- The number of concrete washout areas you install should depend on the expected demand for storage capacity.
- On large sites with extensive concrete work, concrete washout areas should be placed in multiple locations for ease of use by concrete truck drivers.

Concrete Truck Washout Procedures

- Washout of concrete truck drums shall be performed in designated concrete washout areas only.
- Concrete washout from concrete pumper bins can be washed into concrete pumper trucks and discharged into designated concrete washout areas or properly disposed of off-site.

Concrete Washout Area Installation

- Concrete washout areas should be constructed as shown in the figures below, with a recommended minimum length and minimum width of 10 ft, but with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations.
- Plastic lining material should be a minimum of 10 mil polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
- Lath and flagging should be commercial type.
- Liner seams shall be installed in accordance with manufacturers' recommendations.
- Soil base shall be prepared free of rocks or other debris that may cause tears or holes in the plastic lining material.

Maintenance Standards

Inspection and Maintenance

- Inspect and verify that concrete washout areas are in place prior to the commencement of concrete work.
- Once concrete wastes are washed into the designated washout area and allowed to harden,

the concrete should be broken up, removed, and disposed of per applicable solid waste regulations. Dispose of hardened concrete on a regular basis.

- During periods of concrete work, inspect the concrete washout areas daily to verify continued performance.
    - Check overall condition and performance.
    - Check remaining capacity (% full).
    - If using self-installed concrete washout areas, verify plastic liners are intact and sidewalls are not damaged.
    - If using prefabricated containers, check for leaks.
- Maintain the concrete washout areas to provide adequate holding capacity with a minimum freeboard of 12 inches.
- Concrete washout areas must be cleaned, or new concrete washout areas must be constructed and ready for use once the concrete washout area is 75% full.
- If the concrete washout area is nearing capacity, vacuum and dispose of the waste material in an approved manner.
    - Do not discharge liquid or slurry to waterways, storm drains or directly onto ground.
    - Do not discharge to the sanitary sewer without local approval.
    - Place a secure, non-collapsing, non-water collecting cover over the concrete washout area prior to predicted wet weather to prevent accumulation and overflow of precipitation.
    - Remove and dispose of hardened concrete and return the structure to a functional condition. Concrete may be reused on-site or hauled away for disposal or recycling.
- When you remove materials from a self-installed concrete washout area, build a new structure; or, if the previous structure is still intact, inspect for signs of weakening or damage, and make any necessary repairs. Re-line the structure with new plastic after each cleaning.

Removal of Concrete Washout Areas

- When concrete washout areas are no longer required for the work, the hardened concrete, slurries and liquids shall be removed and properly disposed of.
- Materials used to construct concrete washout areas shall be removed from the site of the work and disposed of or recycled.
- Holes, depressions or other ground disturbance caused by the removal of the concrete washout areas shall be backfilled, repaired, and stabilized to prevent erosion.

Figure II-3.7: Concrete Washout Area with Wood Planks

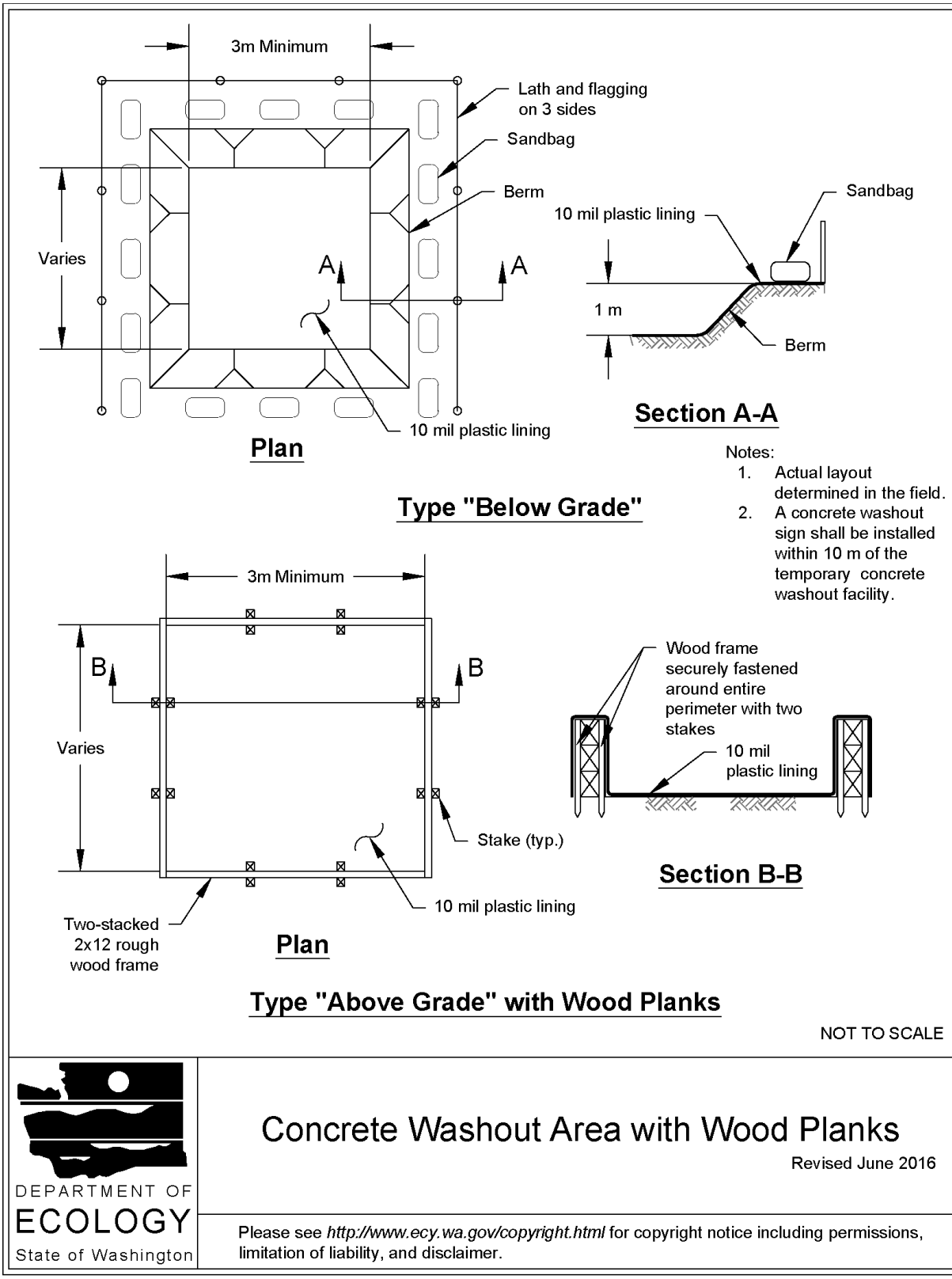


Figure II-3.8: Concrete Washout Area with Straw Bales

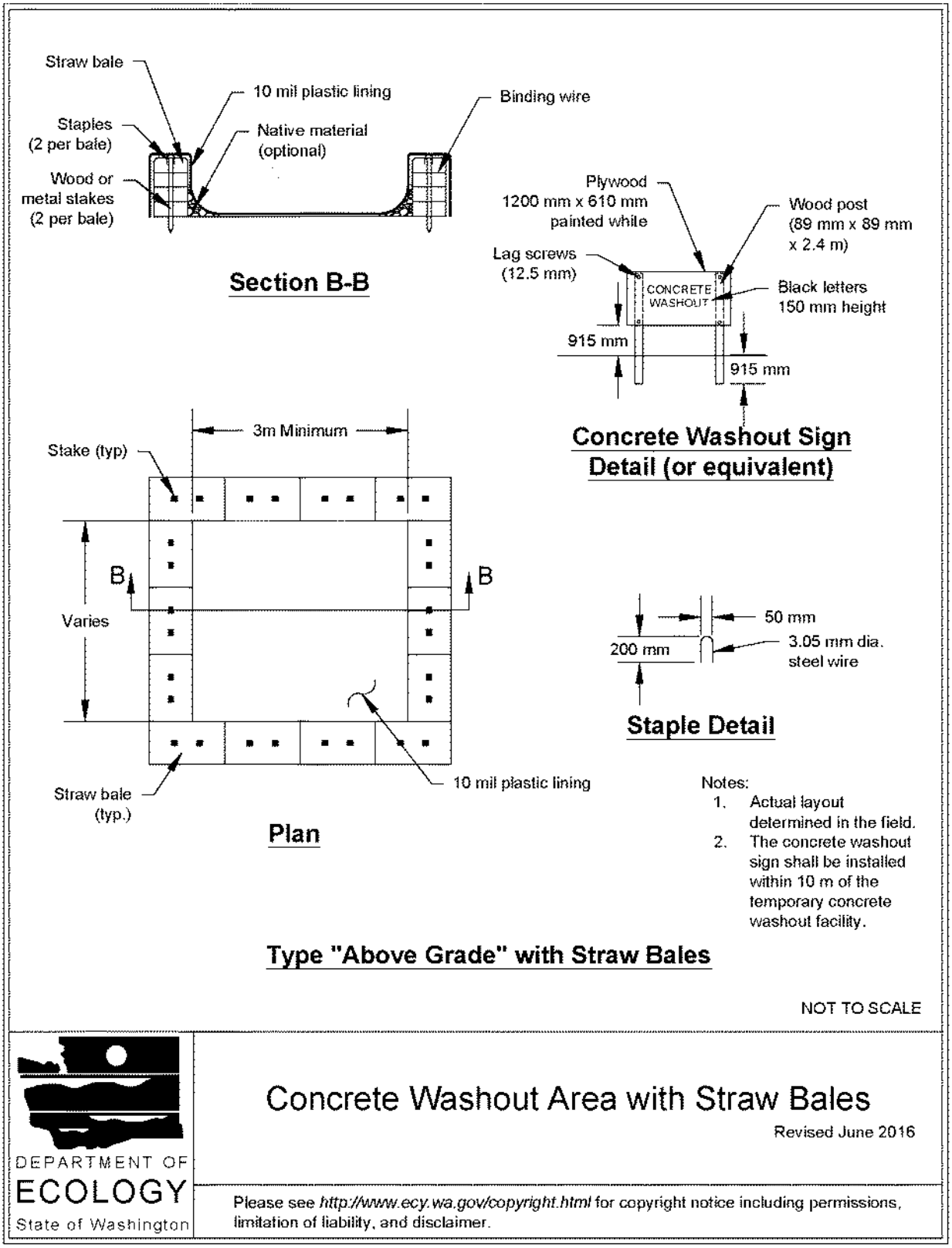
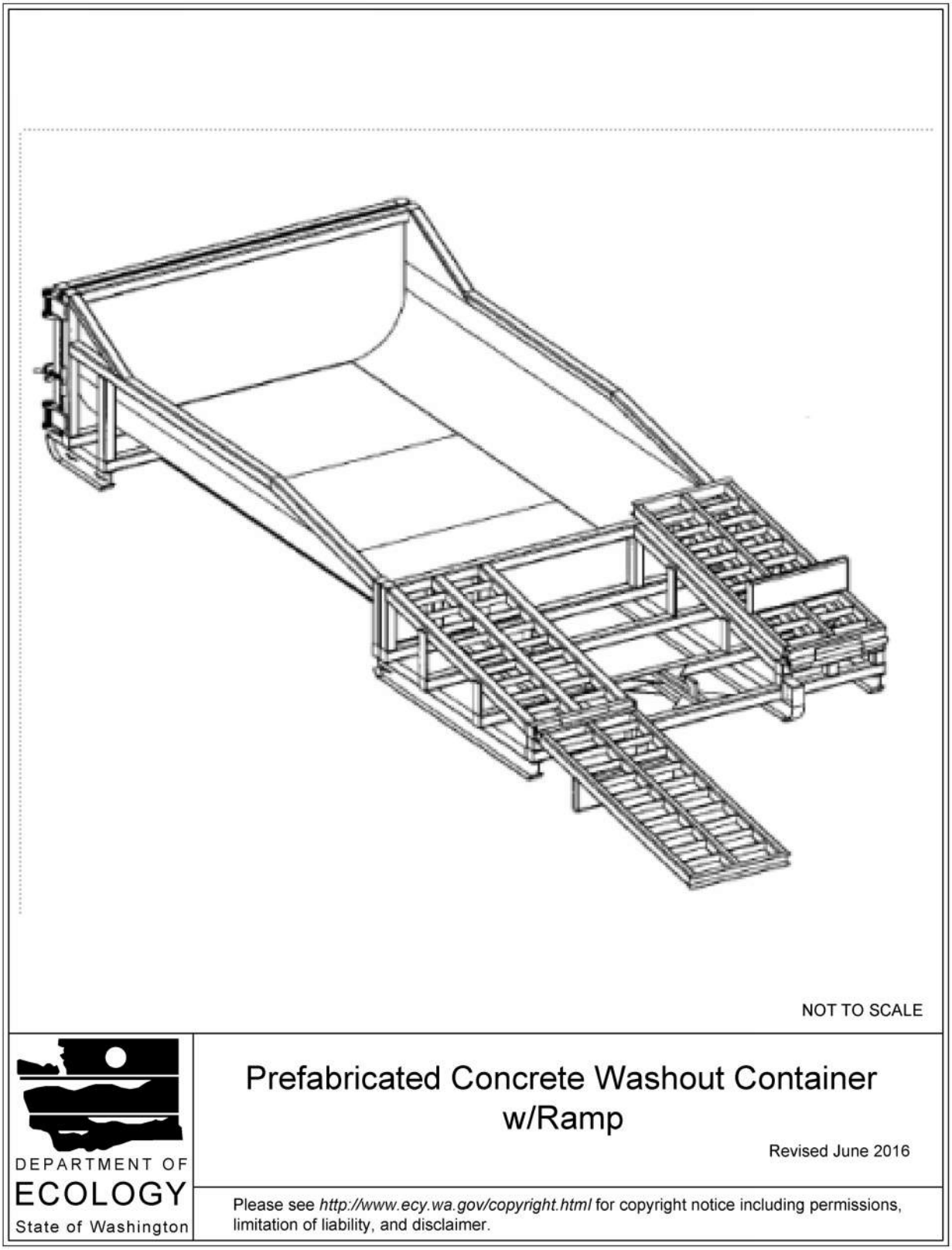


Figure II-3.9: Prefabricated Concrete Washout Container w/Ramp



BMP C160: Certified Erosion and Sediment Control Lead

Purpose

The project proponent designates at least one person as the responsible representative in charge of erosion and sediment control (ESC), and water quality protection. The designated person shall be responsible for ensuring compliance with all local, state, and federal erosion and sediment control and water quality requirements. Construction sites one acre or larger that discharge to waters of the State must designate a Certified Erosion and Sediment Control Lead (CESCL) as the responsible representative.

Conditions of Use

A CESCL shall be made available on projects one acre or larger that discharge stormwater to surface waters of the state. Sites less than one acre may have a person without CESCL certification conduct inspections.

The CESCL shall:

- Have a current certificate proving attendance in an erosion and sediment control training course that meets the minimum ESC training and certification requirements established by Ecology.

  Ecology has provided the minimum requirements for CESCL course training, as well as a list of ESC training and certification providers at:

  https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Certified-erosion-sediment-control

  OR

- Be a Certified Professional in Erosion and Sediment Control (CPESC). For additional information go to:

  http://www.envirocertintl.org/cpesc/

Specifications

- CESCL certification shall remain valid for three years.
- The CESCL shall have authority to act on behalf of the contractor or project proponent and shall be available, or on-call, 24 hours per day throughout the period of construction.
- The Construction SWPPP shall include the name, telephone number, fax number, and address of the designated CESCL. See II-2 Construction Stormwater Pollution Prevention Plans (Construction SWPPPs).
- A CESCL may provide inspection and compliance services for multiple construction projects in the same geographic region, but must be on site whenever earthwork activities are

occurring that could generate release of turbid water.

- Duties and responsibilities of the CESCL shall include, but are not limited to the following:
    - Maintaining a permit file on site at all times which includes the Construction SWPPP and any associated permits and plans.
    - Directing BMP installation, inspection, maintenance, modification, and removal.
    - Updating all project drawings and the Construction SWPPP with changes made.
    - Completing any sampling requirements including reporting results using electronic Discharge Monitoring Reports (WebDMR).
    - Facilitate, participate in, and take corrective actions resulting from inspections performed by outside agencies or the owner.
    - Keeping daily logs, and inspection reports. Inspection reports should include:
        - Inspection date/time.
        - Weather information; general conditions during inspection and approximate amount of precipitation since the last inspection.
        - Visual monitoring results, including a description of discharged stormwater. The presence of suspended sediment, turbid water, discoloration, and oil sheen shall be noted, as applicable.
        - Any water quality monitoring performed during inspection.
        - General comments and notes, including a brief description of any BMP repairs, maintenance or installations made as a result of the inspection.
        - A summary or list of all BMPs implemented, including observations of all erosion/sediment control structures or practices. The following shall be noted:
            1. Locations of BMPs inspected.
            2. Locations of BMPs that need maintenance.
            3. Locations of BMPs that failed to operate as designed or intended.
            4. Locations of where additional or different BMPs are required.

BMP C162: Scheduling

Purpose

Sequencing a construction project reduces the amount and duration of soil exposed to erosion by wind, rain, runoff, and vehicle tracking.

thickness is 2 feet.

- For outlets at the base of steep slope pipes (pipe slope greater than 10 percent), use an engineered energy dissipator.
- Filter fabric or erosion control blankets should always be used under riprap to prevent scour and channel erosion. See BMP C122: Nets and Blankets.

- Bank stabilization, bioengineering, and habitat features may be required for disturbed areas. This work may require a Hydraulic Project Approval (HPA) from the Washington State Department of Fish and Wildlife. See I-2.11 Hydraulic Project Approvals.

Maintenance Standards

- Inspect and repair as needed.
- Add rock as needed to maintain the intended function.
- Clean energy dissipator if sediment builds up.

BMP C220: Inlet Protection

Purpose

Inlet protection prevents coarse sediment from entering drainage systems prior to permanent stabilization of the disturbed area.

Conditions of Use

Use inlet protection at inlets that are operational before permanent stabilization of the disturbed areas that contribute runoff to the inlet. Provide protection for all storm drain inlets downslope and within 500 feet of a disturbed or construction area, unless those inlets are preceded by a sediment trapping BMP.

Also consider inlet protection for lawn and yard drains on new home construction. These small and numerous drains coupled with lack of gutters can add significant amounts of sediment into the roof drain system. If possible, delay installing lawn and yard drains until just before landscaping, or cap these drains to prevent sediment from entering the system until completion of landscaping. Provide 18-inches of sod around each finished lawn and yard drain.

Table II-3.10: Storm Drain Inlet Protection lists several options for inlet protection. All of the methods for inlet protection tend to plug and require a high frequency of maintenance. Limit contributing drainage areas for an individual inlet to one acre or less. If possible, provide emergency overflows with additional end-of-pipe treatment where stormwater ponding would cause a hazard.

Table II-3.10: Storm Drain Inlet Protection

Type of Inlet Protection	Emergency Overflow	Applicable for Paved/ Earthen Surfaces	Conditions of Use
Drop Inlet Protection			
Excavated drop inlet protection	Yes, temporary flooding may occur	Earthen	Applicable for heavy flows. Easy to maintain. Large area requirement: 30'x30'/acre
Block and gravel drop inlet protection	Yes	Paved or Earthen	Applicable for heavy concentrated flows. Will not pond.
Gravel and wire drop inlet protection	No	Paved or Earthen	Applicable for heavy concentrated flows. Will pond. Can withstand traffic.
Catch basin filters	Yes	Paved or Earthen	Frequent maintenance required.
Curb Inlet Protection			
Curb inlet protection with wooden weir	Small capacity overflow	Paved	Used for sturdy, more compact installation.
Block and gravel curb inlet protection	Yes	Paved	Sturdy, but limited filtration.
Culvert Inlet Protection			
Culvert inlet sediment trap	N/A	N/A	18 month expected life.

Design and Installation Specifications

Excavated Drop Inlet Protection

Excavated drop inlet protection consists of an excavated impoundment around the storm drain inlet. Sediment settles out of the stormwater prior to entering the storm drain. Design and installation specifications for excavated drop inlet protection include:

- Provide a depth of 1-2 ft as measured from the crest of the inlet structure.
- Slope sides of excavation should be no steeper than 2H:1V.
- Minimum volume of excavation is 35 cubic yards.
- Shape the excavation to fit the site, with the longest dimension oriented toward the longest inflow area.
- Install provisions for draining to prevent standing water.
- Clear the area of all debris.

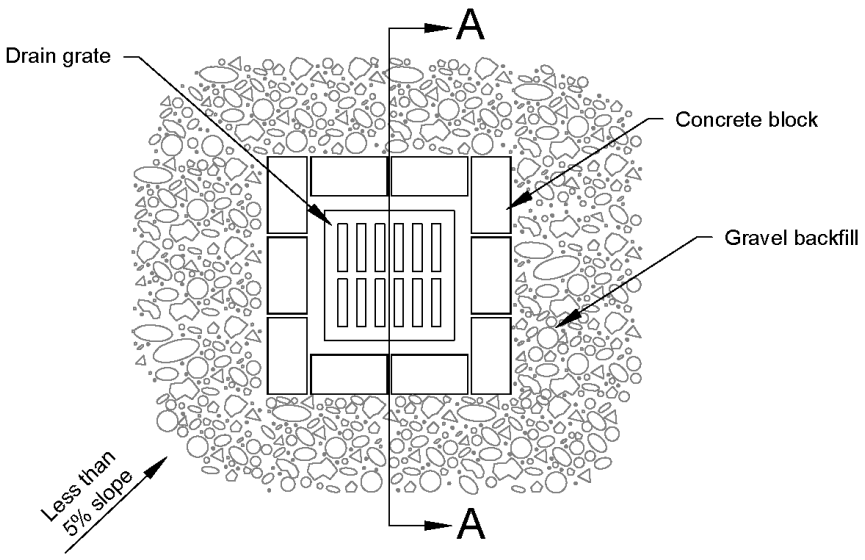
- Grade the approach to the inlet uniformly.
- Drill weep holes into the side of the inlet.
- Protect weep holes with screen wire and washed aggregate.
- Seal weep holes when removing structure and stabilizing area.
- Build a temporary dike, if necessary, to the down slope side of the structure to prevent bypass flow.

Block and Gravel Filter

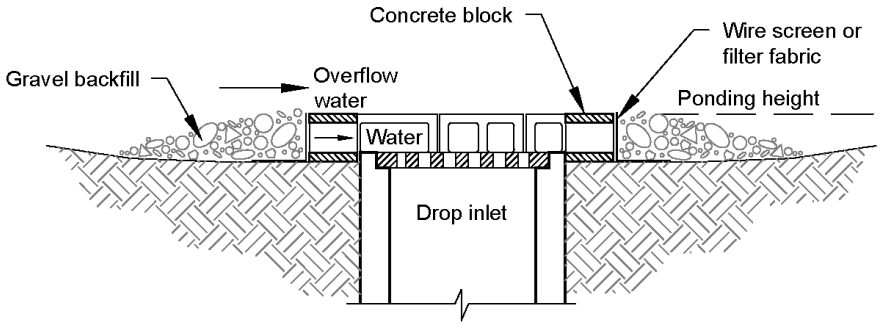
A block and gravel filter is a barrier formed around the inlet with standard concrete blocks and gravel. See Figure II-3.17: Block and Gravel Filter. Design and installation specifications for block gravel filters include:

- Provide a height of 1 to 2 feet above the inlet.
- Recess the first row of blocks 2-inches into the ground for stability.
- Support subsequent courses by placing a pressure treated wood 2x4 through the block opening.
- Do not use mortar.
- Lay some blocks in the bottom row on their side to allow for dewatering the pool.
- Place hardware cloth or comparable wire mesh with ½-inch openings over all block openings.
- Place gravel to just below the top of blocks on slopes of 2H:1V or flatter.
- An alternative design is a gravel berm surrounding the inlet, as follows:
    - Provide a slope of 3H:1V on the upstream side of the berm.
    - Provide a slope of 2H:1V on the downstream side of the berm.
    - Provide a 1-foot wide level stone area between the gravel berm and the inlet.
    - Use stones 3 inches in diameter or larger on the upstream slope of the berm.
    - Use gravel ½- to ¾-inch at a minimum thickness of 1-foot on the downstream slope of the berm.

Figure II-3.17: Block and Gravel Filter



Plan View



Section A-A

Notes:

1. Drop inlet sediment barriers are to be used for small, nearly level drainage areas. (less than 5%)
2. Excavate a basin of sufficient size adjacent to the drop inlet.
3. The top of the structure (ponding height) must be well below the ground elevation downslope to prevent runoff from bypassing the inlet. A temporary dike may be necessary on the downslope side of the structure.

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Block and Gravel Filter

Revised June 2016

Gravel and Wire Mesh Filter

Gravel and wire mesh filters are gravel barriers placed over the top of the inlet. This method does not provide an overflow. Design and installation specifications for gravel and wire mesh filters include:

- Use a hardware cloth or comparable wire mesh with ½-inch openings.
    - Place wire mesh over the drop inlet so that the wire extends a minimum of 1-foot beyond each side of the inlet structure.
    - Overlap the strips if more than one strip of mesh is necessary.
- Place coarse aggregate over the wire mesh.
    - Provide at least a 12-inch depth of aggregate over the entire inlet opening and extend at least 18-inches on all sides.

Catch Basin Filters

Catch basin filters are designed by manufacturers for construction sites. The limited sediment storage capacity increases the amount of inspection and maintenance required, which may be daily for heavy sediment loads. To reduce maintenance requirements, combine a catch basin filter with another type of inlet protection. This type of inlet protection provides flow bypass without overflow and therefore may be a better method for inlets located along active rights-of-way. Design and installation specifications for catch basin filters include:

- Provides 5 cubic feet of storage.
- Requires dewatering provisions.
- Provides a high-flow bypass that will not clog under normal use at a construction site.
- Insert the catch basin filter in the catch basin just below the grating.

Curb Inlet Protection with Wooden Weir

Curb inlet protection with wooden weir is an option that consists of a barrier formed around a curb inlet with a wooden frame and gravel. Design and installation specifications for curb inlet protection with wooden weirs include:

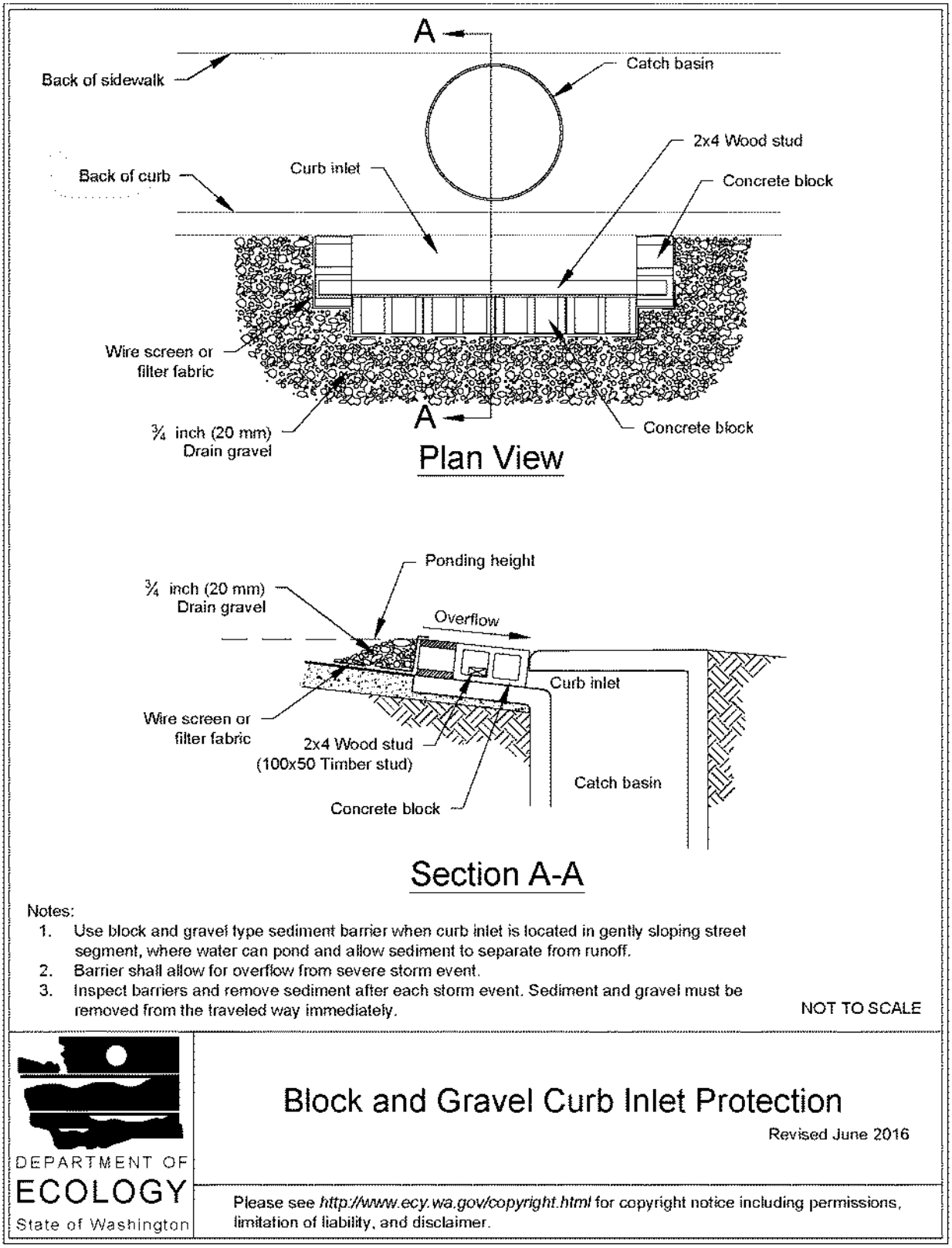
- Use wire mesh with ½-inch openings.
- Use extra strength filter cloth.
- Construct a frame.
- Attach the wire and filter fabric to the frame.
- Pile coarse washed aggregate against the wire and fabric.
- Place weight on the frame anchors.

Block and Gravel Curb Inlet Protection

Block and gravel curb inlet protection is a barrier formed around a curb inlet with concrete blocks and gravel. See Figure II-3.18: Block and Gravel Curb Inlet Protection. Design and installation specifications for block and gravel curb inlet protection include:

- Use wire mesh with ½-inch openings.
- Place two concrete blocks on their sides abutting the curb at either side of the inlet opening. These are spacer blocks.
- Place a 2x4 stud through the outer holes of each spacer block to align the front blocks.
- Place blocks on their sides across the front of the inlet and abutting the spacer blocks.
- Place wire mesh over the outside vertical face.
- Pile coarse aggregate against the wire to the top of the barrier.

Figure II-3.18: Block and Gravel Curb Inlet Protection

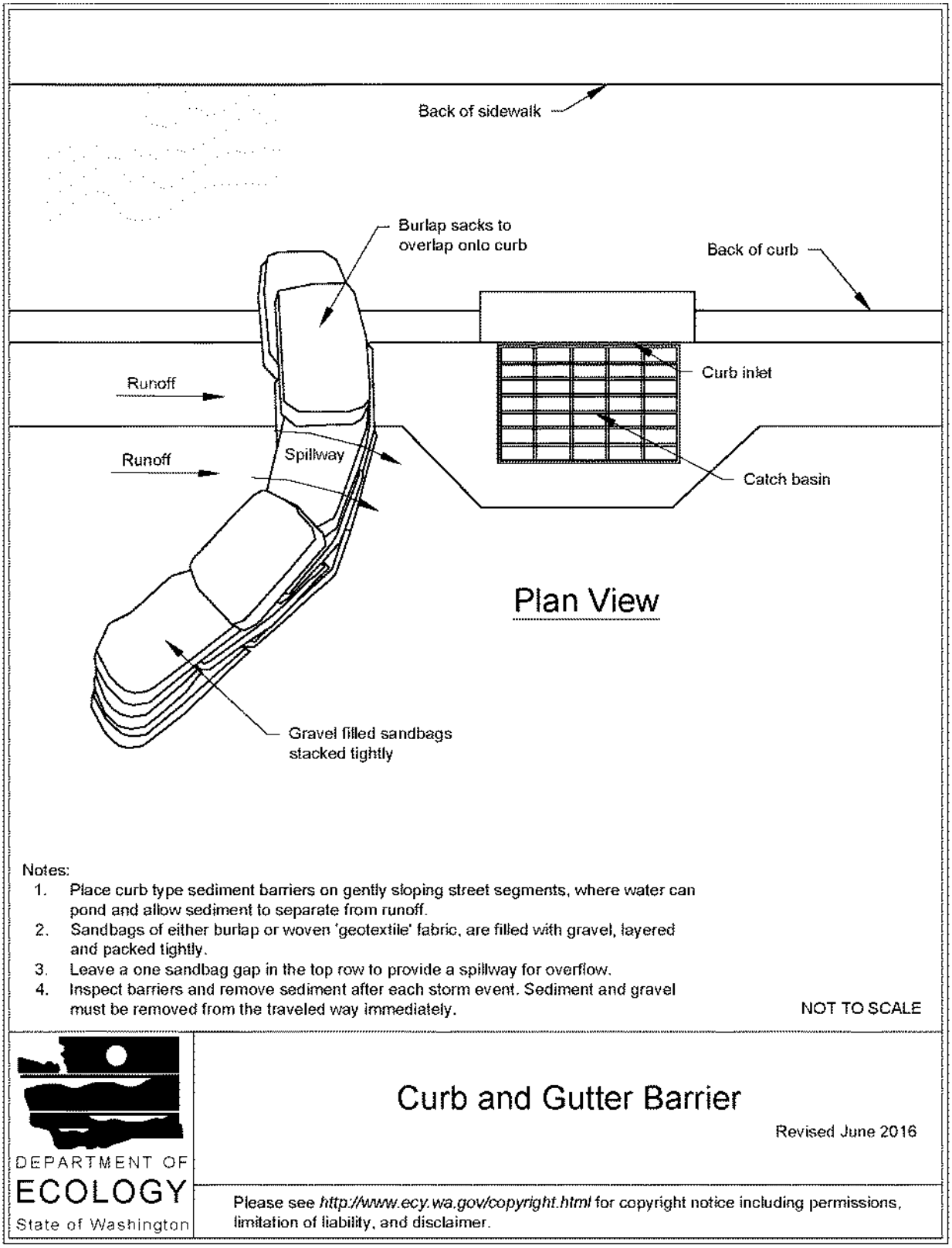


Curb and Gutter Sediment Barrier

Curb and gutter sediment barrier is a sandbag or rock berm (riprap and aggregate) 3 feet high and 3 feet wide in a horseshoe shape. See Figure II-3.19: Curb and Gutter Barrier. Design and installation specifications for curb and gutter sediment barrier include:

- Construct a horseshoe shaped berm, faced with coarse aggregate if using riprap, 3 feet high and 3 feet wide, at least 2 feet from the inlet.
- Construct a horseshoe shaped sedimentation trap on the upstream side of the berm. Size the trap to sediment trap standards for protecting a culvert inlet.

Figure II-3.19: Curb and Gutter Barrier



Maintenance Standards

- Inspect all forms of inlet protection frequently, especially after storm events. Clean and replace clogged catch basin filters. For rock and gravel filters, pull away the rocks from the inlet and clean or replace. An alternative approach would be to use the clogged rock as fill and put fresh rock around the inlet.
- Do not wash sediment into storm drains while cleaning. Spread all excavated material evenly over the surrounding land area or stockpile and stabilize as appropriate.

Approved as Functionally Equivalent

Ecology has approved products as able to meet the requirements of this BMP. The products did not pass through the Technology Assessment Protocol – Ecology (TAPE) process. Local jurisdictions may choose not to accept these products, or may require additional testing prior to consideration for local use. Products that Ecology has approved as functionally equivalent are available for review on Ecology's website at:

https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Emerging-stormwater-treatment-technologies

BMP C231: Brush Barrier

Purpose

The purpose of brush barriers is to reduce the transport of coarse sediment from a construction site by providing a temporary physical barrier to sediment and reducing the runoff velocities of overland flow.

Conditions of Use

- Brush barriers may be used downslope of disturbed areas that are less than one-quarter acre.
- Brush barriers are not intended to treat concentrated flows, nor are they intended to treat substantial amounts of overland flow. Any concentrated flows must be directed to a sediment trapping BMP. The only circumstance in which overland flow can be treated solely by a brush barrier, rather than by a sediment trapping BMP, is when the area draining to the barrier is small.
- Brush barriers should only be installed on contours.

Design and Installation Specifications

- Height: 2 feet (minimum) to 5 feet (maximum).
- Width: 5 feet at base (minimum) to 15 feet (maximum).
- Filter fabric (geotextile) may be anchored over the brush berm to enhance the filtration ability of the barrier. Ten-ounce burlap is an adequate alternative to filter fabric.

BMP C233: Silt Fence

Purpose

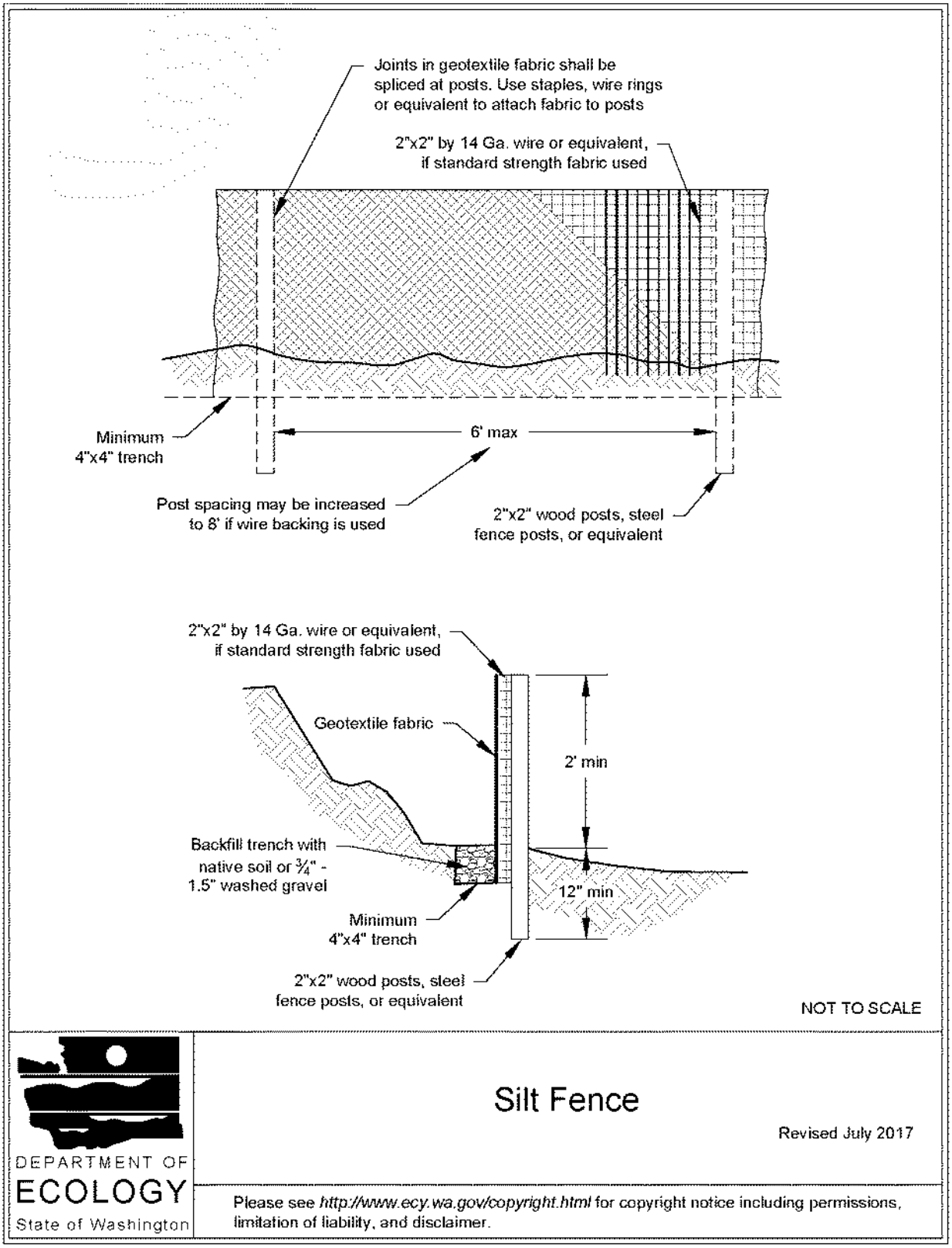
Silt fence reduces the transport of coarse sediment from a construction site by providing a temporary physical barrier to sediment and reducing the runoff velocities of overland flow.

Conditions of Use

Silt fence may be used downslope of all disturbed areas.

- Silt fence shall prevent sediment carried by runoff from going beneath, through, or over the top of the silt fence, but shall allow the water to pass through the fence.
- Silt fence is not intended to treat concentrated flows, nor is it intended to treat substantial amounts of overland flow. Convey any concentrated flows through the drainage system to a sediment trapping BMP.
- Do not construct silt fences in streams or use in V-shaped ditches. Silt fences do not provide an adequate method of silt control for anything deeper than sheet or overland flow.

Figure II-3.22: Silt Fence



Design and Installation Specifications

- Use in combination with other construction stormwater BMPs.
- Maximum slope steepness (perpendicular to the silt fence line) 1H:1V.
- Maximum sheet or overland flow path length to the silt fence of 100 feet.
- Do not allow flows greater than 0.5 cfs.
- Use geotextile fabric that meets the following standards. All geotextile properties listed below are minimum average roll values (i.e., the test result for any sampled roll in a lot shall meet or exceed the values shown in Table II-3.11: Geotextile Fabric Standards for Silt Fence):

Table II-3.11: Geotextile Fabric Standards for Silt Fence

Geotextile Property	Minimum Average Roll Value
Polymeric Mesh AOS (ASTM D4751)	0.60 mm maximum for slit film woven (#30 sieve). 0.30 mm maximum for all other geotextile types (#50 sieve). 0.15 mm minimum for all fabric types (#100 sieve).
Water Permittivity (ASTM D4491)	0.02 sec^{-1} minimum
Grab Tensile Strength (ASTM D4632)	180 lbs. Minimum for extra strength fabric. 100 lbs minimum for standard strength fabric.
Grab Tensile Strength (ASTM D4632)	30% maximum
Ultraviolet Resistance (ASTM D4355)	70% minimum

- Support standard strength geotextiles with wire mesh, chicken wire, 2-inch x 2-inch wire, safety fence, or jute mesh to increase the strength of the geotextile. Silt fence materials are available that have synthetic mesh backing attached.
- Silt fence material shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life at a temperature range of 0°F to 120°F.
- One-hundred percent biodegradable silt fence is available that is strong, long lasting, and can be left in place after the project is completed, if permitted by the local jurisdiction.
- Refer to Figure II-3.22: Silt Fence for standard silt fence details. Include the following Standard Notes for silt fence on construction plans and specifications:

    1. The Contractor shall install and maintain temporary silt fences at the locations shown in the Plans.
    2. Construct silt fences in areas of clearing, grading, or drainage prior to starting those activities.

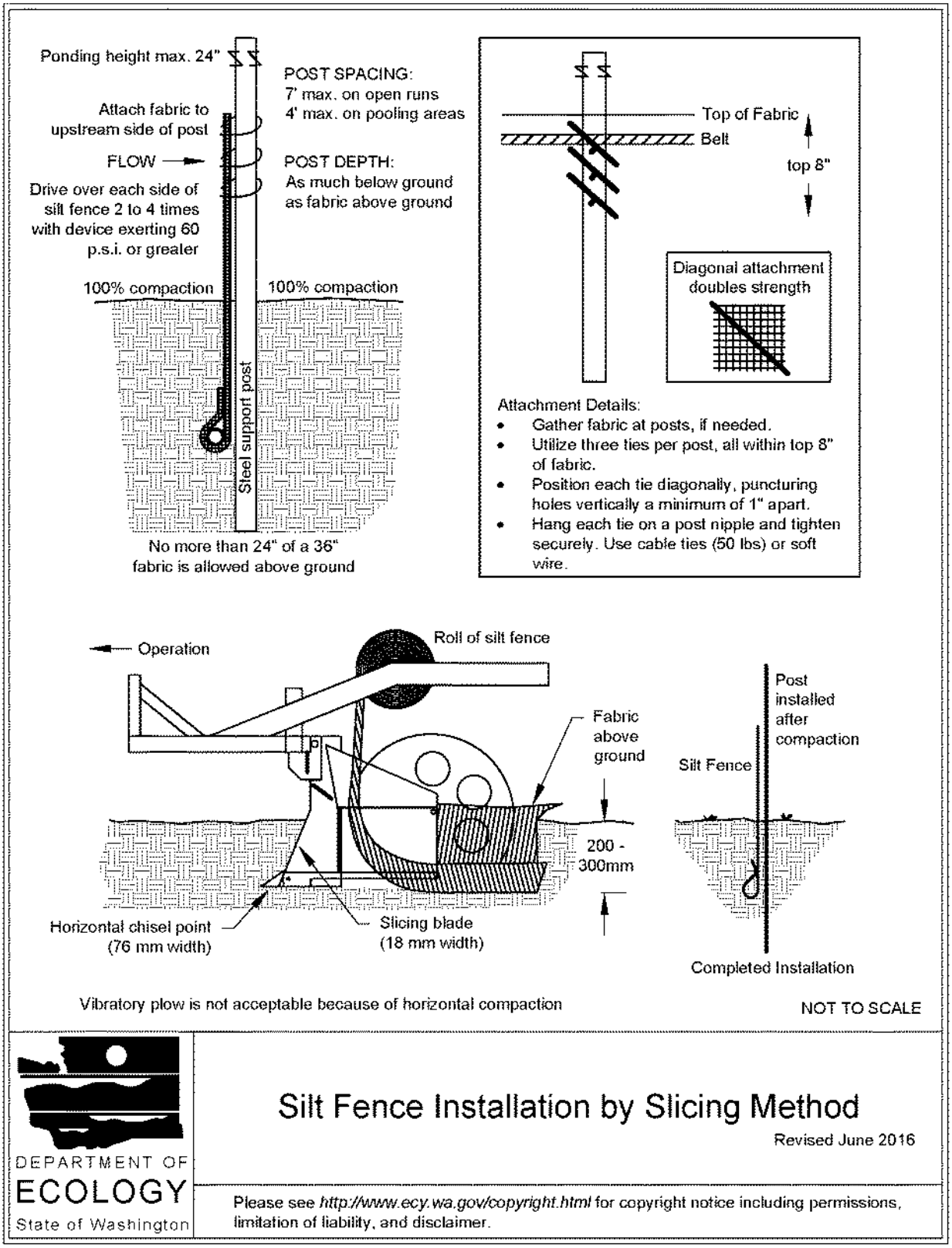
3. The silt fence shall have a 2-feet min. and a 2½-feet max. height above the original ground surface.
4. The geotextile fabric shall be sewn together at the point of manufacture to form fabric lengths as required. Locate all sewn seams at support posts. Alternatively, two sections of silt fence can be overlapped, provided that the overlap is long enough and that the adjacent silt fence sections are close enough together to prevent silt laden water from escaping through the fence at the overlap.
5. Attach the geotextile fabric on the up-slope side of the posts and secure with staples, wire, or in accordance with the manufacturer's recommendations. Attach the geotextile fabric to the posts in a manner that reduces the potential for tearing.
6. Support the geotextile fabric with wire or plastic mesh, dependent on the properties of the geotextile selected for use. If wire or plastic mesh is used, fasten the mesh securely to the up-slope side of the posts with the geotextile fabric up-slope of the mesh.
7. Mesh support, if used, shall consist of steel wire with a maximum mesh spacing of 2-inches, or a prefabricated polymeric mesh. The strength of the wire or polymeric mesh shall be equivalent to or greater than 180 lbs. grab tensile strength. The polymeric mesh must be as resistant to the same level of ultraviolet radiation as the geotextile fabric it supports.
8. Bury the bottom of the geotextile fabric 4-inches min. below the ground surface. Backfill and tamp soil in place over the buried portion of the geotextile fabric, so that no flow can pass beneath the silt fence and scouring cannot occur. When wire or polymeric back-up support mesh is used, the wire or polymeric mesh shall extend into the ground 3-inches min.
9. Drive or place the silt fence posts into the ground 18-inches min. A 12–inch min. depth is allowed if topsoil or other soft subgrade soil is not present and 18-inches cannot be reached. Increase fence post min. depths by 6 inches if the fence is located on slopes of 3H:1V or steeper and the slope is perpendicular to the fence. If required post depths cannot be obtained, the posts shall be adequately secured by bracing or guying to prevent overturning of the fence due to sediment loading.
10. Use wood, steel or equivalent posts. The spacing of the support posts shall be a maximum of 6-feet. Posts shall consist of either:
    - Wood with minimum dimensions of 2 inches by 2 inches by 3 feet. Wood shall be free of defects such as knots, splits, or gouges.
    - No. 6 steel rebar or larger.
    - ASTM A 120 steel pipe with a minimum diameter of 1-inch.
    - U, T, L, or C shape steel posts with a minimum weight of 1.35 lbs./ft.
    - Other steel posts having equivalent strength and bending resistance to the post sizes listed above.
11. Locate silt fences on contour as much as possible, except at the ends of the fence,

where the fence shall be turned uphill such that the silt fence captures the runoff water and prevents water from flowing around the end of the fence.

12. If the fence must cross contours, with the exception of the ends of the fence, place check dams perpendicular to the back of the fence to minimize concentrated flow and erosion. The slope of the fence line where contours must be crossed shall not be steeper than 3H:1V.
    - Check dams shall be approximately 1-foot deep at the back of the fence. Check dams shall be continued perpendicular to the fence at the same elevation until the top of the check dam intercepts the ground surface behind the fence.
    - Check dams shall consist of crushed surfacing base course, gravel backfill for walls, or shoulder ballast. Check dams shall be located every 10 feet along the fence where the fence must cross contours.

- Refer to Figure II-3.23: Silt Fence Installation by Slicing Method for slicing method details. The following are specifications for silt fence installation using the slicing method:
    1. The base of both end posts must be at least 2- to 4-inches above the top of the geotextile fabric on the middle posts for ditch checks to drain properly. Use a hand level or string level, if necessary, to mark base points before installation.
    2. Install posts 3- to 4-feet apart in critical retention areas and 6- to 7-feet apart in standard applications.
    3. Install posts 24-inches deep on the downstream side of the silt fence, and as close as possible to the geotextile fabric, enabling posts to support the geotextile fabric from upstream water pressure.
    4. Install posts with the nipples facing away from the geotextile fabric.
    5. Attach the geotextile fabric to each post with three ties, all spaced within the top 8-inches of the fabric. Attach each tie diagonally 45 degrees through the fabric, with each puncture at least 1-inch vertically apart. Each tie should be positioned to hang on a post nipple when tightening to prevent sagging.
    6. Wrap approximately 6-inches of the geotextile fabric around the end posts and secure with 3 ties.
    7. No more than 24-inches of a 36-inch geotextile fabric is allowed above ground level.
    8. Compact the soil immediately next to the geotextile fabric with the front wheel of the tractor, skid steer, or roller exerting at least 60 pounds per square inch. Compact the upstream side first and then each side twice for a total of four trips. Check and correct the silt fence installation for any deviation before compaction. Use a flat-bladed shovel to tuck the fabric deeper into the ground if necessary.

Figure II-3.23: Silt Fence Installation by Slicing Method



Maintenance Standards

- Repair any damage immediately.
- Intercept and convey all evident concentrated flows uphill of the silt fence to a sediment trapping BMP.
- Check the uphill side of the silt fence for signs of the fence clogging and acting as a barrier to flow and then causing channelization of flows parallel to the fence. If this occurs, replace the fence and remove the trapped sediment.
- Remove sediment deposits when the deposit reaches approximately one-third the height of the silt fence, or install a second silt fence.
- Replace geotextile fabric that has deteriorated due to ultraviolet breakdown.

BMP C234: Vegetated Strip

Purpose

Vegetated strips reduce the transport of coarse sediment from a construction site by providing a physical barrier to sediment and reducing the runoff velocities of overland flow.

Conditions of Use

- Vegetated strips may be used downslope of all disturbed areas.
- Vegetated strips are not intended to treat concentrated flows, nor are they intended to treat substantial amounts of overland flow. Any concentrated flows must be conveyed through the drainage system to BMP C241: Sediment Pond (Temporary) or other sediment trapping BMP. The only circumstance in which overland flow can be treated solely by a vegetated strip, rather than by a sediment trapping BMP, is when the following criteria are met (see Table II-3.12: Contributing Drainage Area for Vegetated Strips):

Table II-3.12: Contributing Drainage Area for Vegetated Strips

Average Contributing Area Slope	Average Contributing Area Percent Slope	Max Contributing area Flowpath Length
1.5H : 1V or flatter	67% or flatter	100 feet
2H : 1V or flatter	50% or flatter	115 feet
4H : 1V or flatter	25% or flatter	150 feet
6H : 1V or flatter	16.7% or flatter	200 feet
10H : 1V or flatter	10% or flatter	250 feet

Design and Installation Specifications

- The vegetated strip shall consist of a continuous strip of dense vegetation with topsoil for a minimum of a 25-foot length along the flowpath. Grass-covered, landscaped areas are generally not adequate because the volume of sediment overwhelms the grass. Ideally, vegetated strips shall consist of undisturbed native growth with a well-developed soil that allows for infiltration of runoff.
- The slope within the vegetated strip shall not exceed 4H:1V.
- The uphill boundary of the vegetated strip shall be delineated with clearing limits.

Maintenance Standards

- Any areas damaged by erosion or construction activity shall be seeded immediately and protected by mulch.
- If more than 5 feet of the original vegetated strip width has had vegetation removed or is being eroded, sod must be installed.
- If there are indications that concentrated flows are traveling across the vegetated strip, stormwater runoff controls must be installed to reduce the flows entering the vegetated strip, or additional perimeter protection must be installed.

BMP C235: Wattles

Purpose

Wattles are temporary erosion and sediment control barriers consisting of straw, compost, or other material that is wrapped in netting made of natural plant fiber or similar encasing material. They reduce the velocity and can spread the flow of rill and sheet runoff, and can capture and retain sediment.

Conditions of Use

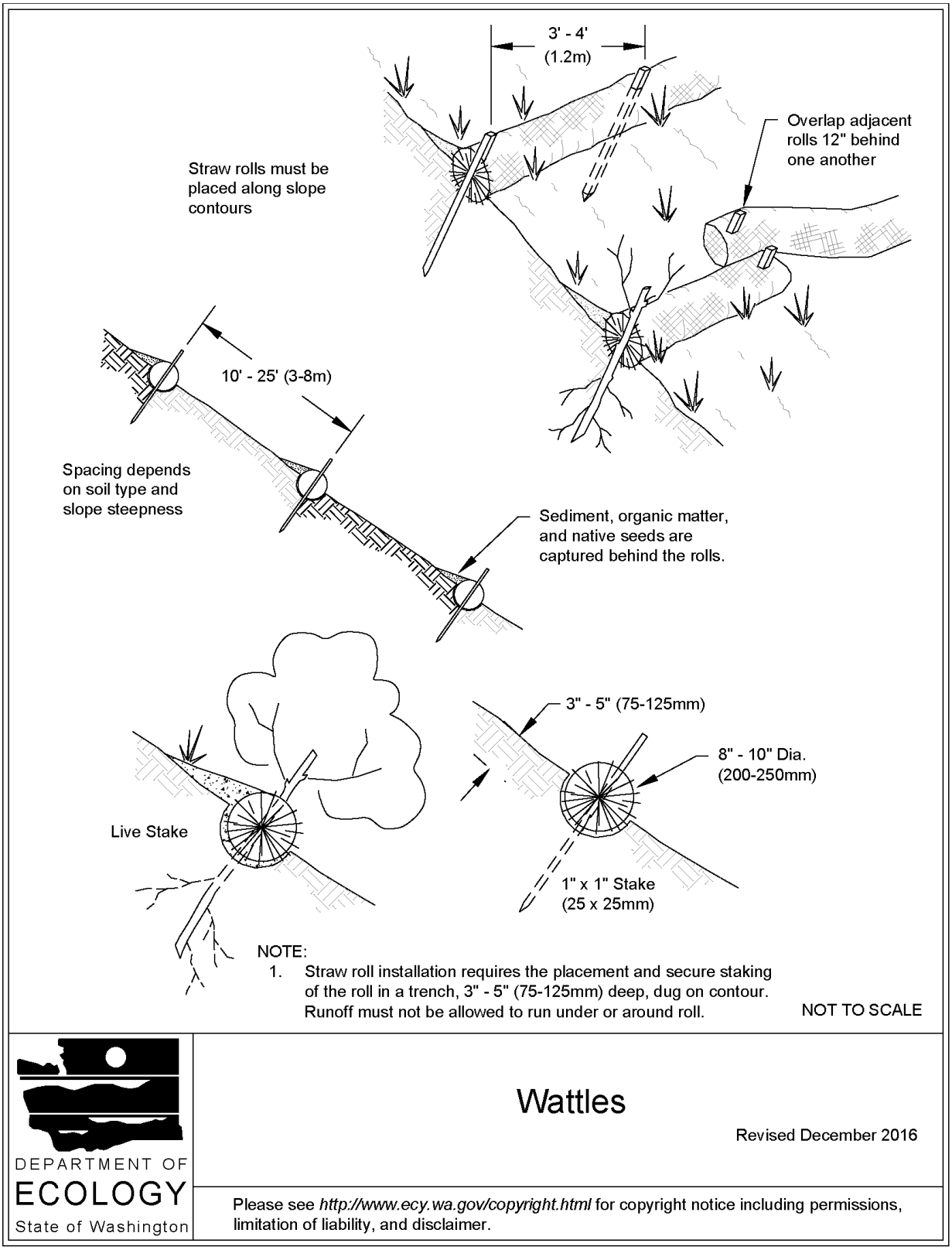
- Wattles shall consist of cylinders of plant material such as weed-free straw, coir, wood chips, excelsior, or wood fiber or shavings encased within netting made of natural plant fibers unaltered by synthetic materials.
- Use wattles:
    - In disturbed areas that require immediate erosion protection.
    - On exposed soils during the period of short construction delays, or over winter months.
    - On slopes requiring stabilization until permanent vegetation can be established.
- The material used dictates the effectiveness period of the wattle. Generally, wattles are effective for one to two seasons.

- Prevent rilling beneath wattles by entrenching and overlapping wattles to prevent water from passing between them.

Design Criteria

- See Figure II-3.24: Wattles for typical construction details.
- Wattles are typically 8 to 10 inches in diameter and 25 to 30 feet in length.
- Install wattles perpendicular to the flow direction and parallel to the slope contour.
- Place wattles in shallow trenches, staked along the contour of disturbed or newly constructed slopes. Dig narrow trenches across the slope (on contour) to a depth of 3- to 5-inches on clay soils and soils with gradual slopes. On loose soils, steep slopes, and areas with high rainfall, the trenches should be dug to a depth of 5- to 7- inches, or 1/2 to 2/3 of the thickness of the wattle.
- Start building trenches and installing wattles from the base of the slope and work up. Spread excavated material evenly along the uphill slope and compact it using hand tamping or other methods.
- Construct trenches at intervals of 10- to 25-feet depending on the steepness of the slope, soil type, and rainfall. The steeper the slope the closer together the trenches.
- Install the wattles snugly into the trenches and overlap the ends of adjacent wattles 12 inches behind one another.
- Install stakes at each end of the wattle, and at 4-foot centers along entire length of wattle.
- If required, install pilot holes for the stakes using a straight bar to drive holes through the wattle and into the soil.
- Wooden stakes should be approximately 0.75 x 0.75 x 24 inches min. Willow cuttings or 3/8-inch rebar can also be used for stakes.
- Stakes should be driven through the middle of the wattle, leaving 2 to 3 inches of the stake protruding above the wattle.

Figure II-3.24: Wattles



Maintenance Standards

- Wattles may require maintenance to ensure they are in contact with soil and thoroughly entrenched, especially after significant rainfall on steep sandy soils.
- Inspect the slope after significant storms and repair any areas where wattles are not tightly abutted or water has scoured beneath the wattles.

Approved as Functionally Equivalent

Ecology has approved products as able to meet the requirements of this BMP. The products did not pass through the Technology Assessment Protocol – Ecology (TAPE) process. Local jurisdictions may choose not to accept these products, or may require additional testing prior to consideration for local use. Products that Ecology has approved as functionally equivalent are available for review on Ecology's website at:

https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Emerging-stormwater-treatment-technologies

BMP C236: Vegetative Filtration

Purpose

Vegetative filtration as a BMP is used in conjunction with detention storage in the form of portable tanks or BMP C241: Sediment Pond (Temporary), BMP C206: Level Spreader, and a pumping system with surface intake. Vegetative filtration improves turbidity levels of stormwater discharges by filtering runoff through existing vegetation where undisturbed forest floor duff layer or established lawn with thatch layer are present. Vegetative filtration can also be used to infiltrate dewatering waste from foundations, vaults, and trenches as long as runoff does not occur.

Conditions of Use

- For every five acres of disturbed soil use one acre of grass field, farm pasture, or wooded area. Reduce or increase this area depending on project size, ground water table height, and other site conditions.
- Wetlands shall not be used for vegetative filtration.
- Do not use this BMP in areas with a high ground water table, or in areas that will have a high seasonal ground water table during the use of this BMP.
- This BMP may be less effective on soils that prevent the infiltration of the water, such as hard till.
- Using other effective source control measures throughout a construction site will prevent the generation of additional highly turbid water and may reduce the time period or area need for this BMP.
- Stop distributing water into the vegetated filtration area if standing water or erosion results.

V-11 Miscellaneous LID BMPs

V-11.1 Introduction to Miscellaneous LID BMPs

BMPs in this chapter have been grouped because they have the following in common:

- They employ Low Impact Development (LID) Principles
- They cannot be used to meet I-3.4.6 MR6: Runoff Treatment
- They cannot, by themselves, be used to meet the Flow Control Performance Standard or the LID Performance Standard.
    - Some of the BMPs in this chapter do allow for some amount of Flow Control credit. See the guidance for each individual BMP for details.
- The design methods for each BMP in this chapter are unique. They do not have strong enough design similarities to other BMPs in this volume to place them in the other BMP categories identified in this volume.

BMP T5.13: Post-Construction Soil Quality and Depth

Purpose and Definition

Naturally occurring (undisturbed) soil and vegetation provide important stormwater functions including: water infiltration; nutrient, sediment, and pollutant adsorption; sediment and pollutant biofiltration; water interflow storage and transmission; and pollutant decomposition. These functions are largely lost when development strips away native soil and vegetation and replaces it with minimal topsoil and sod. Not only are these important stormwater functions lost, but such landscapes themselves become pollution generating pervious surfaces due to increased use of pesticides, fertilizers and other landscaping and household/industrial chemicals, the concentration of pet wastes, and pollutants that accompany roadside litter.

Establishing soil quality and depth regains greater stormwater functions in the post development landscape, provides increased treatment of pollutants and sediments that result from development and habitation, and minimizes the need for some landscaping chemicals, thus reducing pollution through prevention.

Applications and Limitations

Establishing a minimum soil quality and depth is not the same as preservation of naturally occurring soil and vegetation. However, establishing a minimum soil quality and depth will provide improved on-site management of stormwater flow and water quality.

Soil organic matter can be attained through numerous materials such as compost, composted woody material, biosolids, and forest product residuals. It is important that the materials used to

meet this BMP be appropriate and beneficial to the plant cover to be established. Likewise, it is important that imported topsoils improve soil conditions and do not have an excessive percent of clay fines.

This BMP can be considered infeasible on till soil slopes greater than 33 percent.

Design Guidelines

Soil Retention

Retain, in an undisturbed state, the duff layer and native topsoil to the maximum extent practicable. In any areas requiring grading, remove and stockpile the duff layer and topsoil on site in a designated, controlled area, not adjacent to public resources and critical areas, to be reapplied to other portions of the site where feasible.

Soil Quality

All areas subject to clearing and grading that have not been covered by impervious surface, incorporated into a drainage facility or engineered as structural fill or slope shall, at project completion, demonstrate the following:

1. A topsoil layer with a minimum organic matter content of 10% dry weight in planting beds, and 5% organic matter content in turf areas, and a pH from 6.0 to 8.0 or matching the pH of the undisturbed soil. The topsoil layer shall have a minimum depth of eight inches except where tree roots limit the depth of incorporation of amendments needed to meet the criteria. Subsoils below the topsoil layer should be scarified at least 4 inches with some incorporation of the upper material to avoid stratified layers, where feasible.
2. Mulch planting beds with 2 inches of organic material.
3. Use compost and other materials that meet the following organic content requirements:
    a. The organic content for “pre-approved” amendment rates can be met only using compost meeting the compost specification for BMP T7.30: Bioretention, with the exception that the compost may have up to 35% biosolids or manure.

       The compost must also have an organic matter content of 40% to 65%, and a carbon to nitrogen ratio below 25:1.

       The carbon to nitrogen ratio may be as high as 35:1 for plantings composed entirely of plants native to the Puget Sound Lowlands region.

    b. Calculated amendment rates may be met through use of composted material meeting (a.) above; or other organic materials amended to meet the carbon to nitrogen ratio requirements, and not exceeding the contaminant limits identified in Table 220-B, Testing Parameters, in WAC 173-350-220.

The resulting soil should be conducive to the type of vegetation to be established.

Implementation Options

The soil quality design guidelines listed above can be met by using one of the methods listed below:

1. Leave undisturbed native vegetation and soil, and protect from compaction during construction.
2. Amend existing site topsoil or subsoil either at default "pre-approved" rates, or at custom calculated rates based on tests of the soil and amendment.
3. Stockpile existing topsoil during grading, and replace it prior to planting. Stockpiled topsoil must also be amended if needed to meet the organic matter or depth requirements, either at a default "pre-approved" rate or at a custom calculated rate.
4. Import topsoil mix of sufficient organic content and depth to meet the requirements.

More than one method may be used on different portions of the same site. Soil that already meets the depth and organic matter quality standards, and is not compacted, does not need to be amended.

Planning/Permitting/Inspection/Verification Guidelines & Procedures

Local governments are encouraged to adopt guidelines and procedures similar to those recommended in *Building Soil: Guidelines and Resources for Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington* (Stenn et al., 2016).

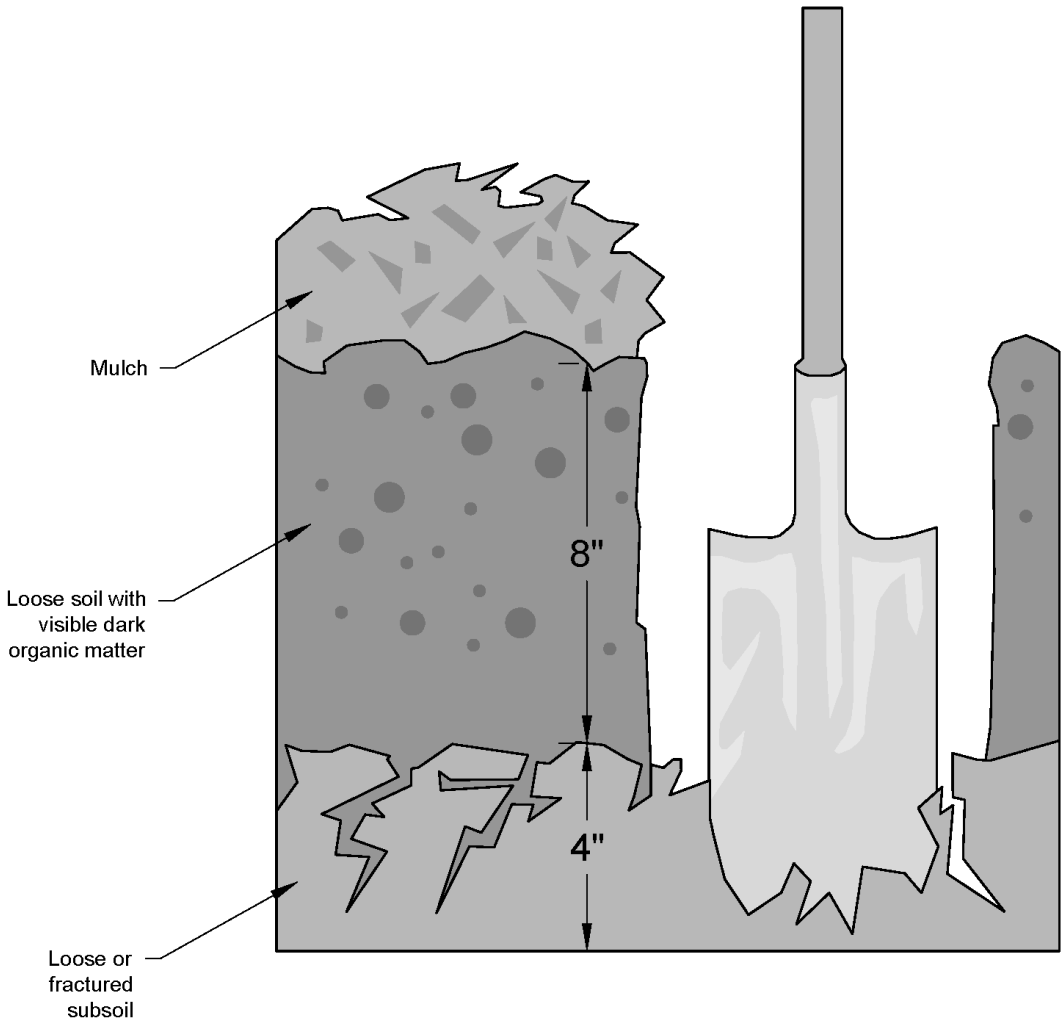
Maintenance

- Establish soil quality and depth toward the end of construction and once established, protect from compaction, such as from large machinery use, and from erosion.
- Plant vegetation and mulch the amended soil area after installation.
- Leave plant debris or its equivalent on the soil surface to replenish organic matter.
- Reduce and adjust, where possible, the use of irrigation, fertilizers, herbicides and pesticides, rather than continuing to implement formerly established practices.

Runoff Model Representation

All areas meeting the soil quality and depth design criteria may be entered into approved runoff models as "Pasture" rather than "Lawn/Landscaping".

Figure V-11.1: Planting Bed Cross-Section



Reprinted from *Guidelines and Resources For Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington*, 2010, Washington Organic Recycling Council

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Planting Bed Cross-Section

Revised June 2016

Appendix 3

Site Inspection Form

Construction Stormwater Site Inspection Form

Project Name _____ Permit # _____ Inspection Date _____ Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: _____

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear ☐ Cloudy ☐ Mist ☐ Rain ☐ Wind ☐ Fog ☐

A. Type of inspection: Weekly ☐ Post Storm Event ☐ Other ☐

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	☐	Clearing/Demo/Grading	☐	Infrastructure/storm/roads	☐
Concrete pours	☐	Vertical Construction/buildings	☐	Utilities	☐
Offsite improvements	☐	Site temporary stabilized	☐	Final stabilization	☐

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes ___ No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)						
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?						
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.						
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?						
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?						
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).						
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.						
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.						
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?						

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?						
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?						
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?						
	Is off-site storm water managed separately from stormwater generated on the site?						
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?						
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?						
7 Drain Inlets	Storm drain inlets made operable during construction are protected.						
	Are existing storm drains within the influence of the project protected?						
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?						
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?						
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?						
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?						
	Has secondary containment been provided capable of containing 110% of the volume?						
	Were contaminated surfaces cleaned immediately after a spill incident?						
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?						

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.						
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.						
	Dewatering has been done to an approved source and in compliance with the SWPPP.						
	Were there any clean non turbid dewatering discharges?						
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?						
12 Manage the Project	Has the project been phased to the maximum degree practicable?						
	Has regular inspection, monitoring and maintenance been performed as required by the permit?						
	Has the SWPPP been updated, implemented and records maintained?						
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?						
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?						
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.						
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?						
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.						

E. Check all areas that have been inspected. ✔

All in place BMPs ☐ All disturbed soils ☐ All concrete wash out area ☐ All material storage areas ☐
All discharge locations ☐ All equipment storage areas ☐ All construction entrances/exits ☐

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) _____ (Signature) _____ Date: _____

Title/Qualification of Inspector: _____

SEC. 19, T 17 N., R 02 E., W.M.

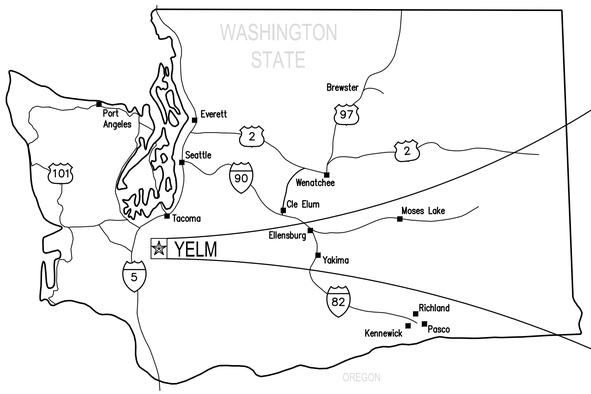
CITY OF YELM

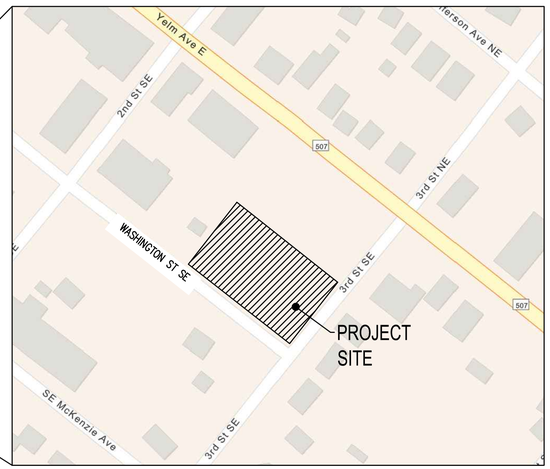
DOWNTOWN PARKING LOT PROJECT

FINAL CONSTRUCTION PLANS

MARCH 2024

BID DOCUMENTS





NTS

SEC 19, T17N., R2E., W.M.
YELM, WA

SHEET INDEX		
SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
1	CV-01	COVER SHEET
2	GN-01	LEGEND, ABBREVIATIONS AND GENERAL NOTES
3	HC-01	HORIZONTAL CONTROL PLAN
4	SP-01	SITE PREPARATION PLAN
5	SP-02	SITE PREPARATION DETAILS
6	CG-01	GRADING AND STORMWATER PLAN
7	CG-02	GRADING AND STORMWATER DETAILS
8	PV-01	PAVING PLAN
9	PV-02	PAVING DETAILS
10	PM-01	CHANNELIZATION PLAN
11	EL-01	ELECTRICAL PLAN

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.342.1585 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BY	DATE	REVISIONS

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 300, LACEY, WA 98516
P: 360.352.1465
SCJALLIANCE.COM

SHEET TITLE: COVER SHEET

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:

DAVID HARVEY ROWLAND
STATE OF WASHINGTON
23036611
REGISTERED PROFESSIONAL ENGINEER
Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 CV-01
DRAWING NO:	CV-01
SHEET NO:	1 OF 11

Mar 22, 2024 - 5:38:59pm - User: david.rowland
N:\PROJECTS\0605 CITY OF YELM\22-000630 YELM WASHINGTON & MCKENZIE COUPLET\CADD_AMEND 2 - PARKING LOT\22-000630 CV-01.DWG

SEC. 19, T 17 N., R 02 E., W.M.

EXISTING LEGEND

- CHAIN LINK FENCE
- GROUND TOE
- GROUND TOP
- STORM LINE
- BURIED TELEPHONE
- BURIED POWER
- OVERHEAD POWER
- WATER LINE
- NATURAL GAS LINE
- BUILDING LINE
- BUILDING OVERHANG
- MAJOR CONTOUR
- MINOR CONTOUR
- ROAD CENTERLINE
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- STORM LINE
- SEWER LINE
- DECIDUOUS TREE
- CEDAR TREE
- DOUGLAS TREE
- MAPLE TREE
- PINE TREE
- MAILBOX
- STREET SIGN
- MAG NAIL
- MONUMENT IN CASE
- REBAR AND CAP
- REBAR WITHOUT CAP
- LUMINAIRE WITH SHORT ARM
- POWER JUNCTION BOX
- POWER METER
- POWER POLE
- PP WITH DROP AND LIGHT
- PP WITH LIGHT AND TRANSFORMER
- PP WITH LIGHT
- PP WITH TRANSFORMER
- SS CLEANOUT
- SEPTIC TANK
- STORM CATCH BASIN
- STORM MANHOLE
- TELEPHONE RISER
- IRRIGATION CONTROL VALVE
- WATER METER
- WATER VALVE
- EDGE OF GRAVEL
- EDGE OF PAVEMENT

PROPOSED LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- HIGH VISIBILITY FENCE
- STRAW WATTLE
- FILL
- CUT
- REMOVING ECO BLOCK
- REMOVING CEMENT CONC. SIDEWALK
- EXISTING CONTOURS (MAJOR/MINOR)
- PROPOSED CONTOURS (MAJOR/MINOR)
- GRADE BREAK
- ASPHALT PAVING (HMA)
- BARK MULCH
- SEEDING, FERTILIZING, AND MULCHING
- CLEARING AND GRUBBING
- REMOVING HMA
- EDGE OF PAVEMENT
- MANUFACTURED WHEEL STOP
- EXTRUDED CURB TYPE 3, WSDOT STD PLAN F-10.42
- CEMENT CONC. BARRIER CURB WITH CURB CUT
- CEMENT CONC. TRAFFIC CURB, WSDOT STD PLAN F-10.12
- SAWCUT
- BIORETENTION FACILITY PER DETAIL SHEET CG-02
- SIGN NOTE
- NEW SIGN ON POST
- TYPE 1S PLASTIC ARROW, WSDOT STD PLAN M-24.40
- TYPE 2SR PLASTIC ARROW, WSDOT STD PLAN M24.20
- ACCESS PARKING SPACE SYMBOL, WSDOT STD PLAN M-24.60
- 4" WHITE PAINT LINE, WSDOT STD PLAN M-17.20
- 4" YELLOW PAINT LINE, WSDOT STD PLAN M-17.10
- ELECTRIC VEHICLE PAINT MARKING
- COMPACT STALL PAINT MARKING
- TYPE 2 JUNCTION BOX, WSDOT STD PLAN J-20.10
- TYPE 8 JUNCTION BOX, WSDOT STD PLAN J-40.30
- CONDUIT
- ELECTRICAL SERVICE CABINET
- ELECTRICAL VEHICLE CHARGING STATION
- LUMINAIRE
- CEMENT CONC. SIDEWALK
- QUARRY SPALL PAD
- BIORETENTION SEED MIX (HYDOSEEDING)

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.342.1585 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

SITE INFORMATION

PARCEL NUMBER: 64400800900, 64400801000
ACRES: 0.42

OWNER / APPLICANT

CITY OF YELM
901 RHOTON ROAD NW
YELM, WA 98597
(360) 890-0904
CONTACT: BRAD CHATWOOD
PROJECT MANAGER

CONSULTANT

SCJ ALLIANCE
8730 TALLON LANE NE, SUITE 200
LACEY, WA 98516
(360) 352-1465
CONTACT: DAVID ROWLAND, PE

UTILITIES

ELECTRIC/NATURAL GAS:
PUGET SOUND ENERGY
355 110TH AVE NE
BELLEVUE, WA 98004
PHONE: 866.562.1482

WATER/SEWER:
CITY OF YELM PUD
106 2ND ST SE
YELM, WA 98597
PHONE: 360.458.3244

STORMWATER:
CITY OF YELM
901 RHOTON ROAD NW
YELM, WA 98597
PHONE: 360.458.8406

NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING UTILITIES AND CONTACTS. THIS LIST IS SUBJECT TO CHANGE.

ABBREVIATIONS

AP	ANGLE POINT
C.O.Y.	CITY OF YELM
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
DWY	DRIVEWAY
NTS	NOT TO SCALE
O.C.	ON CENTER
MOD	MODIFIED
STD	STANDARD
PT	POINT OF TANGENCY
ROW	RIGHT-OF-WAY
PSRC	PUGET SOUND REGIONAL COUNCIL
HMA	HOT MIX ASPHALT

GENERAL NOTES

1. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF YELM CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
3. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
4. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
5. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL 811 AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
2. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SET ARE BASED UPON THE MTN2COAST SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE WORK WHICH WOULD BE AFFECTED.

BID DOCUMENTS

BY	DATE	REVISIONS

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
(360) 352.1465
SCJALLIANCE.COM

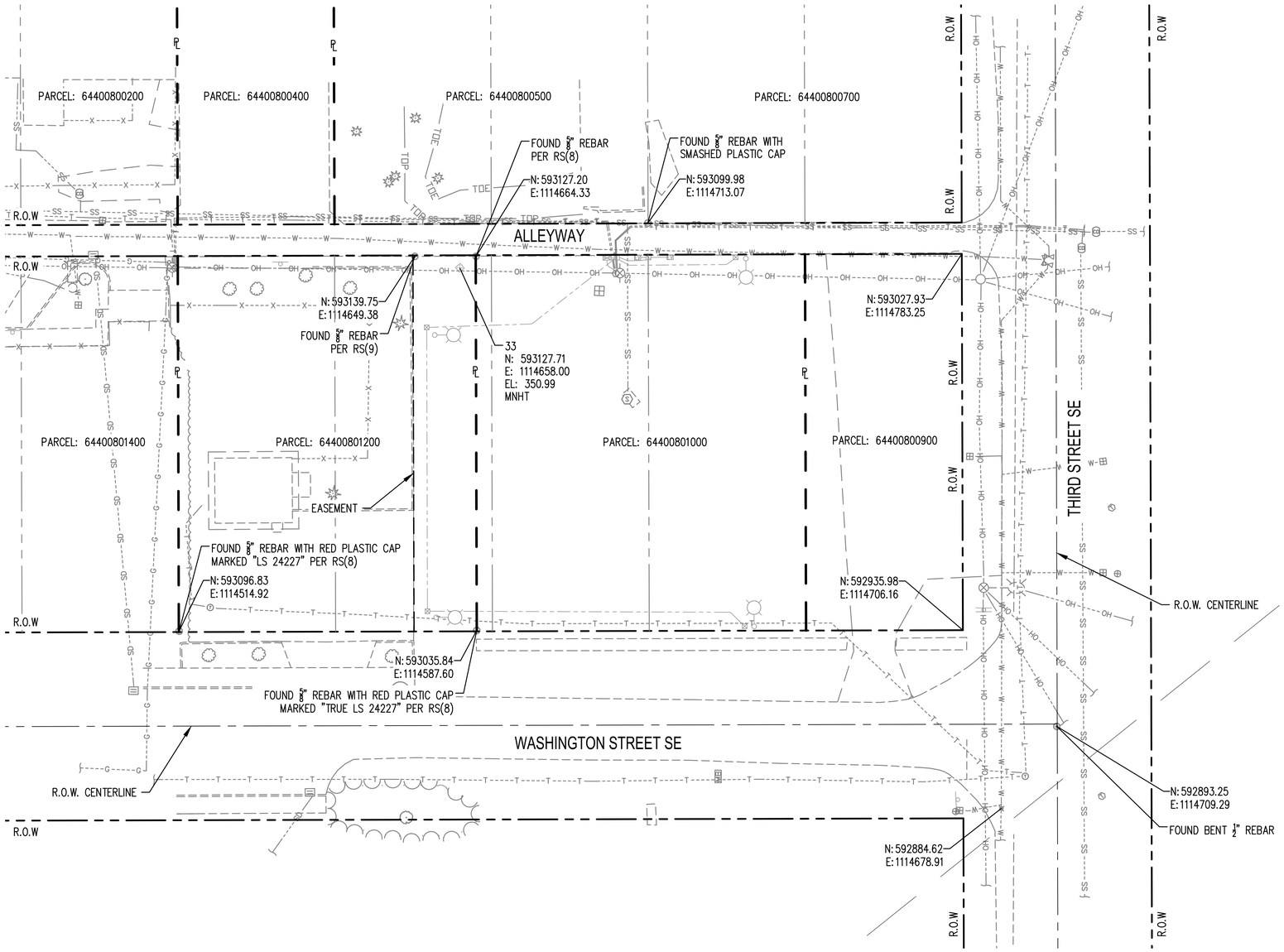
SHEET TITLE: LEGEND, ABBREVIATIONS AND GENERAL NOTES

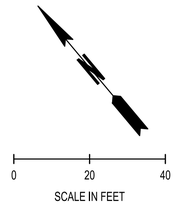
PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:
DAVID HARVEY ROWLAND
STATE OF WASHINGTON
21996661
REGISTERED
PROFESSIONAL ENGINEER
Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 GN-01
DRAWING NO:	GN-01
SHEET NO:	2 OF 11

SEC. 19, T 17 N., R 02 E., W.M.





BID DOCUMENTS

DATUM:

HORIZONTAL – WASHINGTON STATE PLAN COORDINATES, SOUTH ZONE, NAD 83/91 BASED ON GPS TIES TO THURSTON COUNTY MONUMENTS 6644 AND 838.

VERTICAL – WASHINGTON STATE PLANE COORDINATES, SOUTH ZONE, NAD 83/91 BASED ON GPS TIES TO THURSTON COUNTY MONUMENT 6644; ELEVATION OF 345.679.

UTILITY NOTE:

DEPTH OF BURIED UTILITIES TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.

CALL BEFORE YOU DIG

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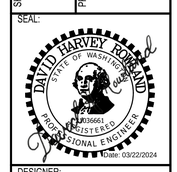
BY	DATE	REVISIONS
		1

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: 360.352.2465
SCJALLIANCE.COM

SHEET TITLE: HORIZONTAL CONTROL PLAN

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

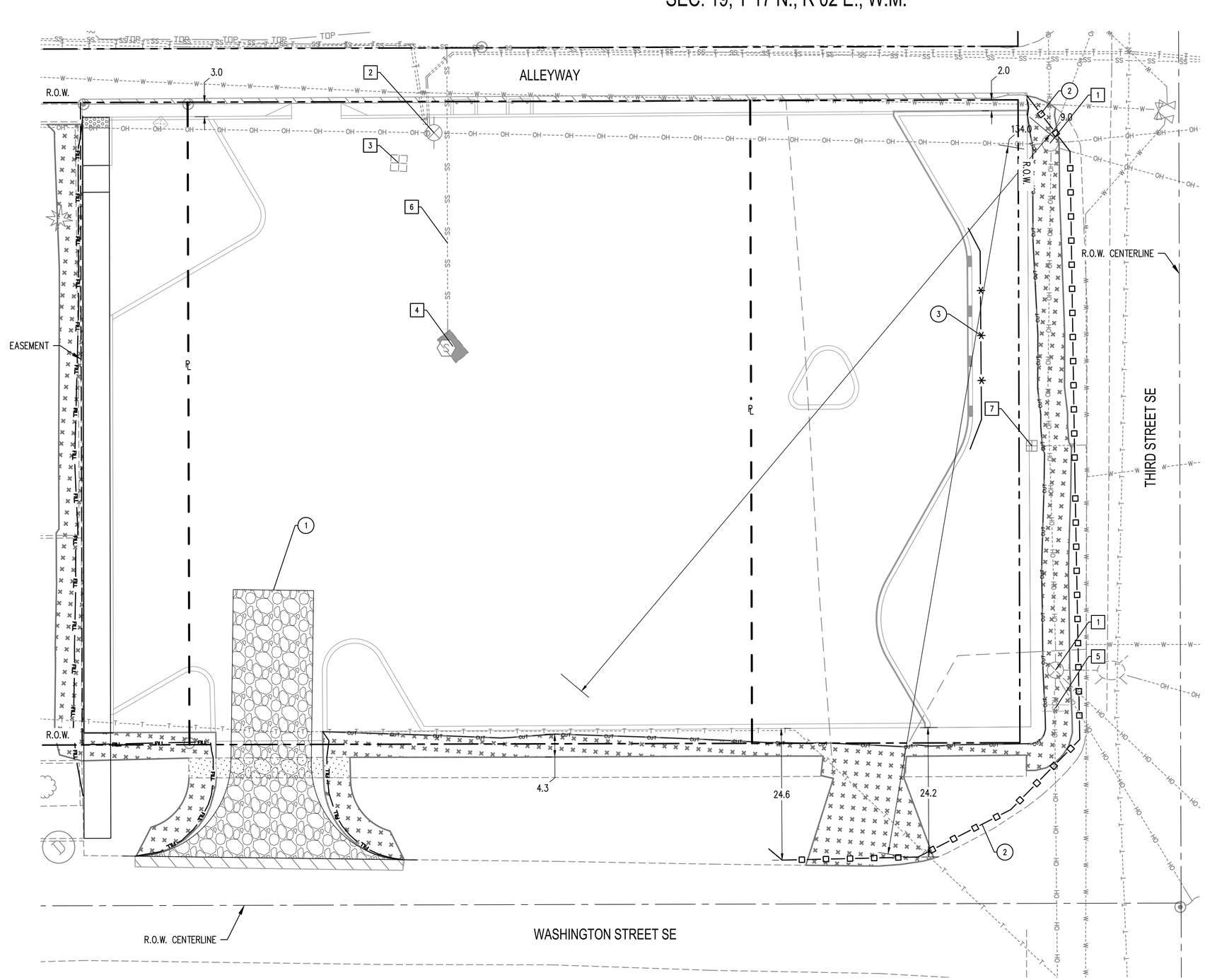
SEAL:



Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 HC-01
DRAWING NO:	HC-01
SHEET NO:	3 OF 11

SEC. 19, T 17 N., R 02 E., W.M.



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SCALE IN FEET

EROSION CONTROL AND REMOVAL LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- HIGH VISIBILITY SILT FENCE
- STRAW WATTLE
- EX EDGE OF GRAVEL
- EX EDGE OF PAVEMENT
- FILL
- CUT
- REMOVING ECO BLOCK
- REMOVING CEMENT CONC. SIDEWALK
- CLEARING & GRUBBING LIMITS
- REMOVING HMA

DEMOLITION NOTES:

1. RETAIN AND PROTECT EXISTING POWER POLES, COMMUNICATION LINES, AND LUMINAIRES IN PLACE.
2. RETAIN AND PROTECT POWER POLE WITH TRANSFORMER.
3. REMOVE POWER METER.
4. REMOVE ECO BLOCK AND ABANDON SEPTIC TANK PER SPECIAL PROVISIONS.
5. RETAIN AND PROTECT EXISTING SIGN IN PLACE.
6. SEAL AND ABANDON SANITARY SEWER LINE. CONTRACTOR TO VERIFY LOCATION OF CARSON BOX CONNECTED TO SANITARY SEWER LINE ON SITE.
7. REMOVE WATER METER.

EROSION CONTROL NOTES:

1. STABILIZED CONSTRUCTION ENTRANCE PER DETAIL ON SHEET SP-02.
2. HIGH VISIBILITY SILT FENCE PER WSDOT STD PLAN I-30.17
3. STRAW WATTLE PER WSDOT STD PLAN I-30.30

CALL BEFORE YOU DIG

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BID DOCUMENTS

BY	DATE	REVISIONS

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 300, LACEY, WA 98516
360.352.1465
SCJALLIANCE.COM

SHEET TITLE: SITE PREPARATION PLAN

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:
DAVID HARVEY ROWLAND
STATE OF WASHINGTON
39661
REGISTERED
PROFESSIONAL ENGINEER
Date: 03/22/2024

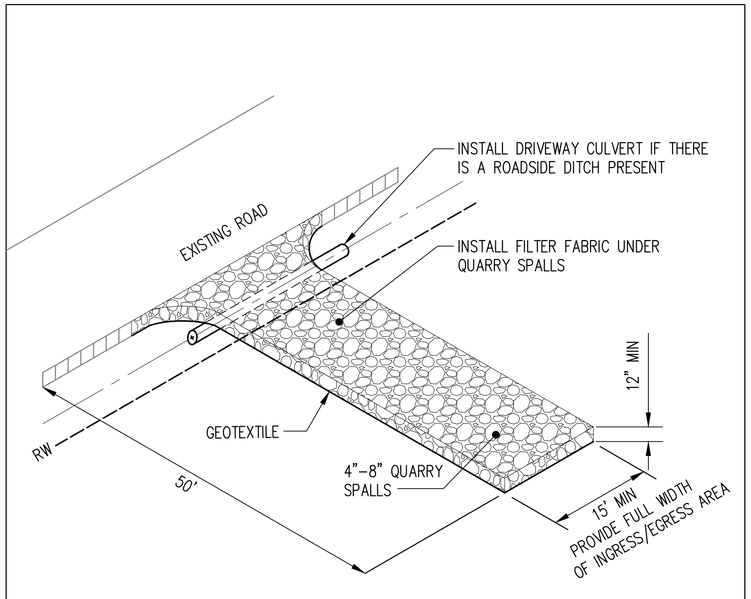
DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 SP-01
DRAWING NO:	SP-01
SHEET NO:	4 OF 11

Mar 22, 2024 - 5:39:30pm - User: david.rowland
N:\PROJECTS\0605 CITY OF YELM\22-000630 YELM WASHINGTON & MCKENZIE COUPLET\CADD_AMEND 2 - PARKING LOT\22-000630 SP-01.DWG

SEC. 19, T 17 N., R 02 E., W.M.

GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL FOLLOW EROSION CONTROL PRACTICES OUTLINED IN THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON AND THE SWPPP.
2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SILTS TO OFF-SITE PROPERTIES.
3. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROJECT ENGINEER AND THE REVIEWING AGENCY SHALL INSPECT AND APPROVE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING CONSTRUCTION.



NOTES:
1. DRIVEWAY SHALL MEET THE REQUIREMENTS OF THE PERMITTING AGENCY.
2. IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD

SCJ ALLIANCE CONSULTING SERVICES	REFERENCE: STORMWATER DEVELOPMENT GUIDELINES FOR CITY OF YELM, WASHINGTON / 2020	BMP C105
DATE: 01/2024	STABILIZED CONSTRUCTION ENTRANCE	

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.342.1585 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BID DOCUMENTS

REVISIONS	DATE	BY

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 300, LACEY, WA 98516
P: 360.352.1465
SCJALLIANCE.COM

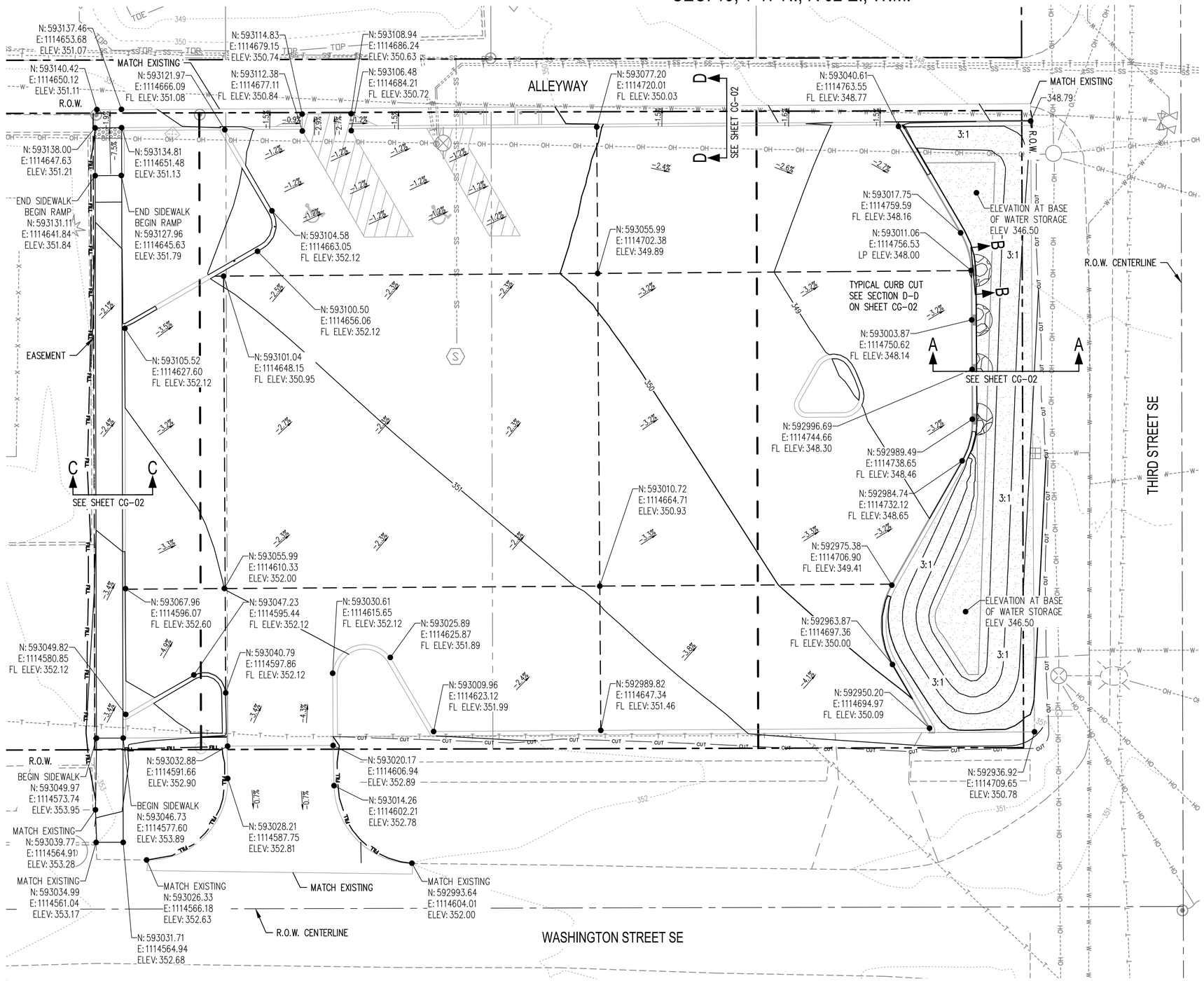
SHEET TITLE: SITE PREPARATION DETAILS

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:
DAVID HARVEY ROWLAND — STATE OF WASHINGTON — 21706661 — REGISTERED PROFESSIONAL ENGINEER
Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 SP-02
DRAWING NO:	SP-02
SHEET NO:	5 OF 11

SEC. 19, T 17 N., R 02 E., W.M.



0 10 20
SCALE IN FEET

GRADING LEGEND

- EXISTING CONTOURS (MAJOR/MINOR)
- PROPOSED CONTOURS (MAJOR/MINOR)
- GRADE BREAK
- XXX.XX — SPOT ELEVATION
- FL: XXX.XX — FLOW LINE ELEVATION
- LP: XXX.XX — LOW POINT
- X% — SLOPE LABEL

STORMWATER LEGEND

- BIORETENTION FACILITY PER DETAIL, SHEET CG-02
- QUARRY SPALL PAD PER DETAIL, SHEET CG-02

NOTES:

1. ALL SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. CUT AND FILL SLOPES ARE 3:1 UNLESS OTHERWISE NOTED.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.342.1585 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BID DOCUMENTS

BY	DATE	REVISIONS

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: (360) 352.1465
SCJALLIANCE.COM

SHEET TITLE: GRADING AND STORMWATER PLAN

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:
DAVID HARVEY ROWLAND — STATE OF WASHINGTON — 36661 — REGISTERED PROFESSIONAL ENGINEER
Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 CG-01
DRAWING NO:	CG-01
SHEET NO:	6 OF 11

Mar 22, 2024 6:17:56pm - User: david.rowland
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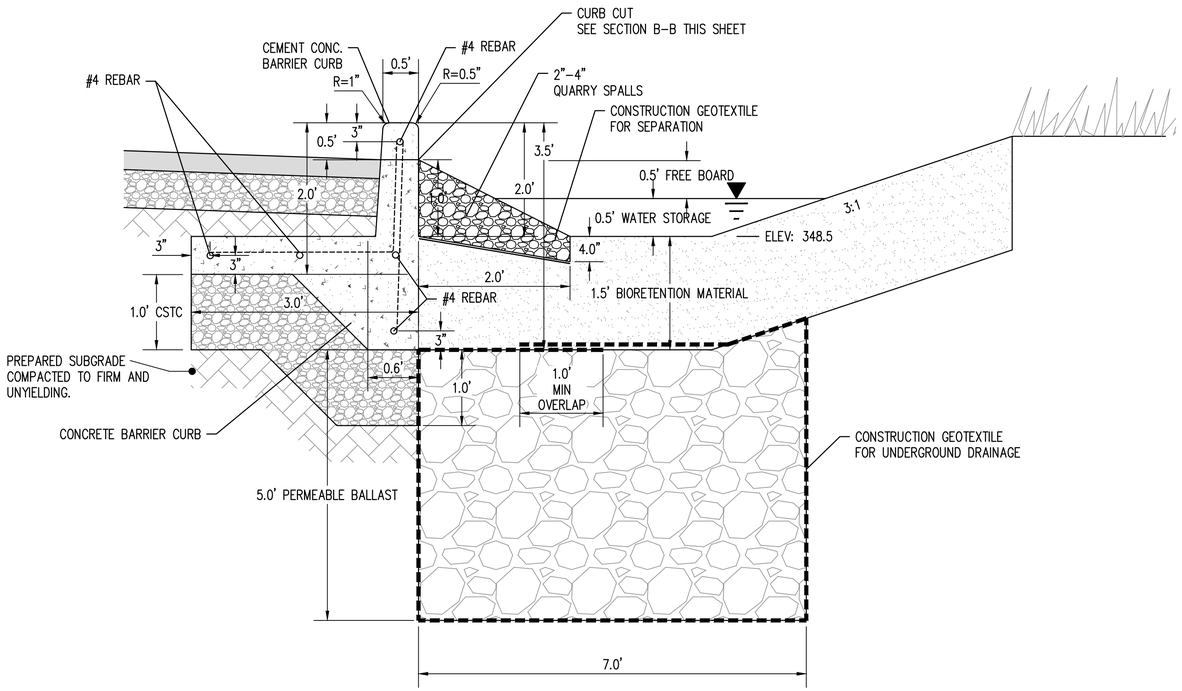
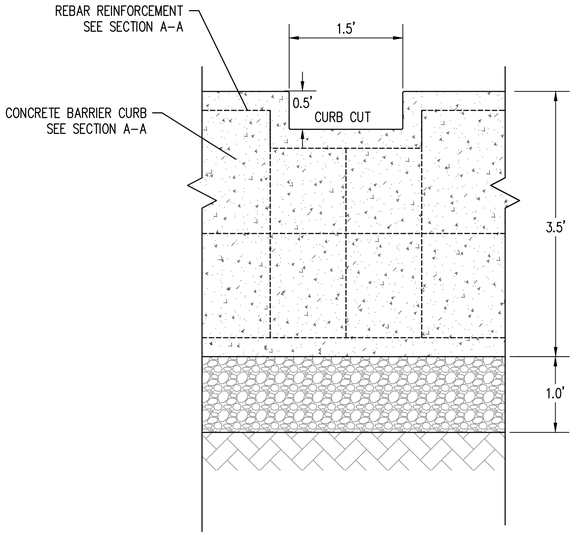


SECTION A-A
BIORETENTION FACILITY AND CONCRETE BARRIER CURB

NTS

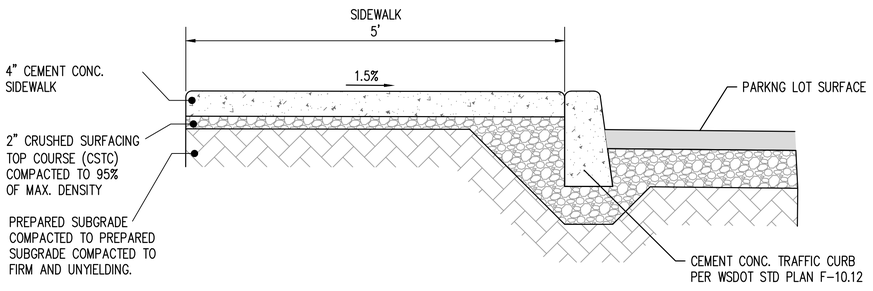
NOTE:

1. #4 REBAR SHALL BE SPACED 12" O.C.



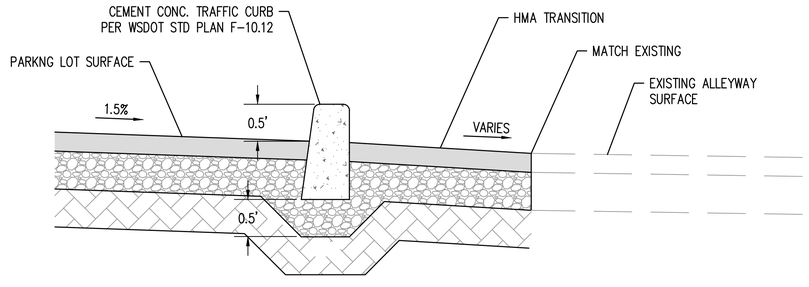
SECTION B-B
CURB CUT DETAIL

NTS



SECTION C-C
SIDEWALK SECTION

NTS



SECTION D-D
TRANSITION TO ALLEYWAY

NTS

BID DOCUMENTS

REVISIONS	DATE	BY
1		

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 300, LACEY, WA 98516
(360) 352-1465
SCJALLIANCE.COM

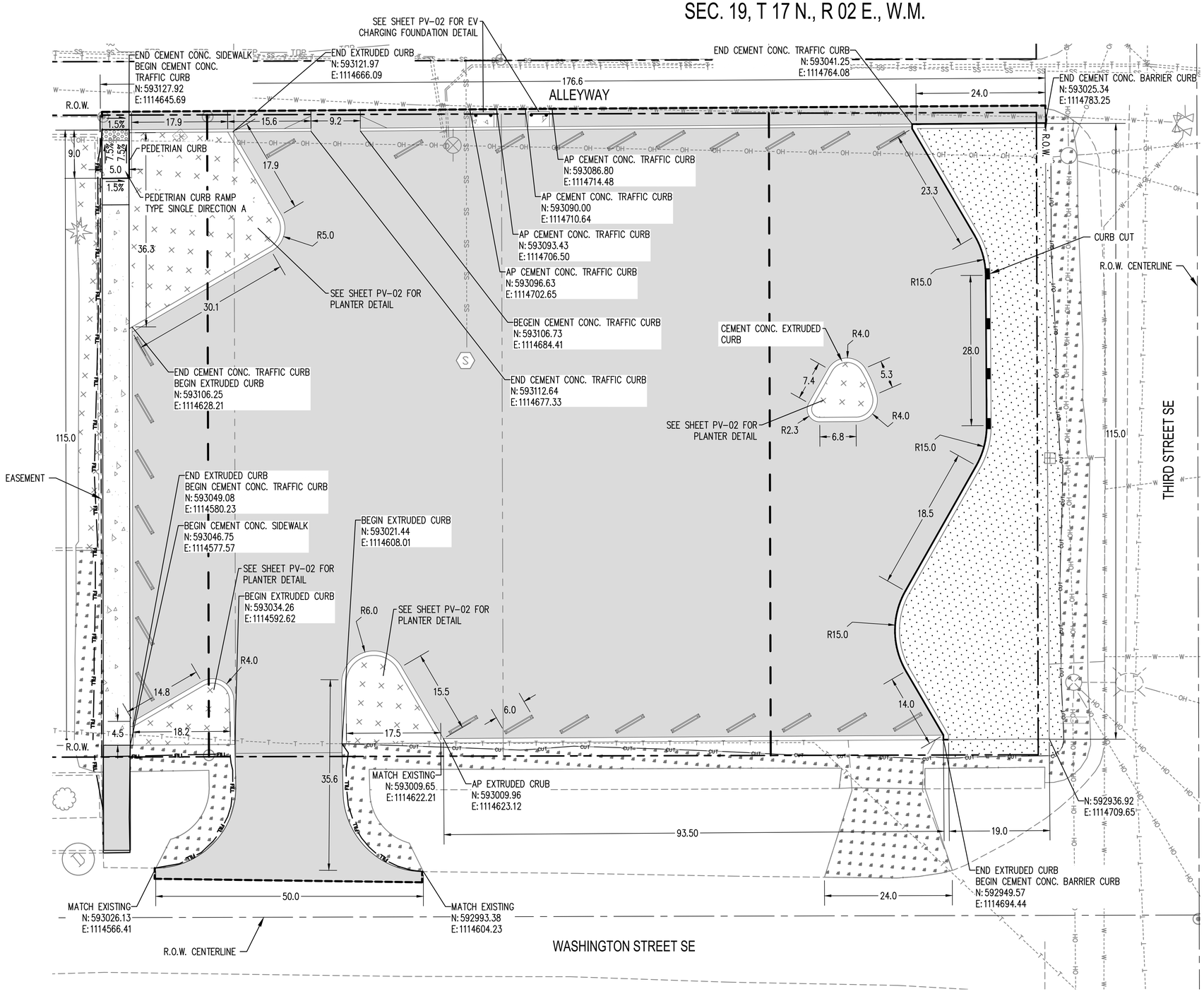
SHEET TITLE: GRADING AND STORMWATER DETAILS

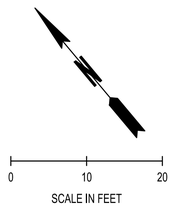
PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:
DAVID HARVEY ROWLAND
STATE OF WASHINGTON
36661
REGISTERED
PROFESSIONAL ENGINEER
Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 CG-02
DRAWING NO:	CG-02
SHEET NO:	7 OF 11

SEC. 19, T 17 N., R 02 E., W.M.





LANDSCAPING LEGEND

	LANDSCAPING AREA (TOP SOIL TYPE A AND BARK MULCH) SEE DETAIL PV-02
	SEEDING, FERTILIZING, AND MULCHING (HYDROSEEDING)
	BIORETENTION SEED MIX (HYDROSEEDING)

PAVING LEGEND

	ASPHALT PAVING (HMA)	SEE DETAIL, SHEET PV-02
	CEMENT CONC. SIDEWALK	SEE DETAIL, SHEET CG-02
	PEDESTRIAN CURB RAMP TYPE SINGLE DIRECTION A	SEE WSDOT STD PLAN F-40.16
	EDGE OF PAVEMENT	
	MANUFACTURED WHEEL STOP	SEE DETAIL, SHEET PV-02
	CEMENT CONC. EXTRUDED CURB TYPE 6	SEE WSDOT STD PLAN F-10.42
	CEMENT CONC. BARRIER CURB WITH CURB CUT	SEE DETAIL, SHEET CG-02
	CEMENT CONC. TRAFFIC CURB	SEE STD PLAN F-10.12
	SAWCUT	
	BOLLARD TYPE 2	SEE WSDOT STD PLAN H-60.20

NOTES:

1. CURB CUTS SHALL BE EVENLY SPACED ALONG THE TANGENT.

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BID DOCUMENTS

BY	DATE	REVISIONS

SCJ ALLIANCE
CONSULTING SERVICES
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
P: (360) 352-1465
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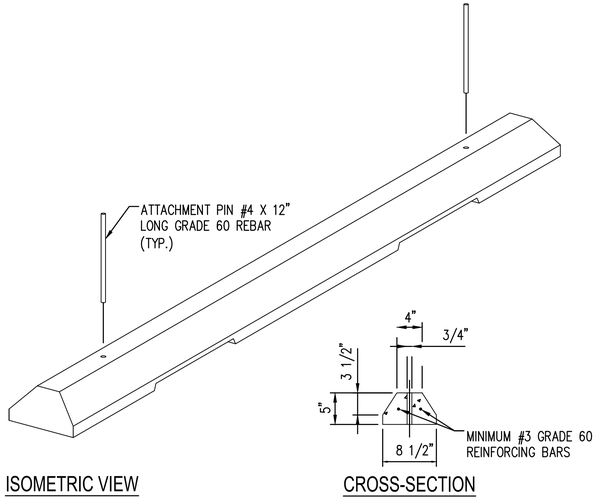
SHEET TITLE: PAVING PLAN

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:

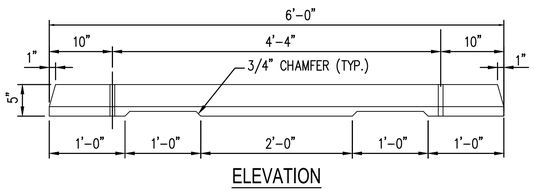
DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 PV-01
DRAWING NO:	PV-01
SHEET NO:	8 OF 11

SEC. 19, T 17 N., R 02 E., W.M.



ISOMETRIC VIEW

CROSS-SECTION

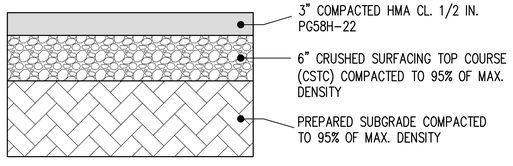


ELEVATION

GENERAL NOTES:
1. CONCRETE FOR WHEEL STOP: MINIMUM 3,000 PSI IN 28 DAYS
2. REINFORCING STEEL: PER ASTM A615, GRADE 60
3. ATTACHMENT PINS SHALL HAVE 7 INCH EMBEDMENT.

MANUFACTURED WHEEL STOP

NTS

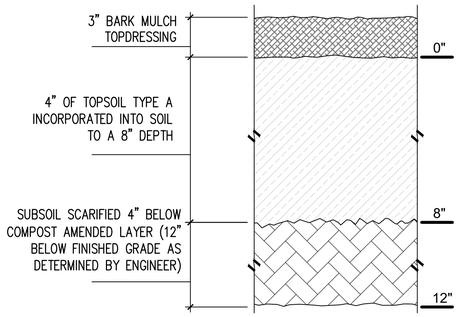


NOTE:

1. ALL JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 9-04.2(1) OF THE WSDOT STANDARD SPECIFICATIONS.

ASPHALT PAVING DETAIL

NTS

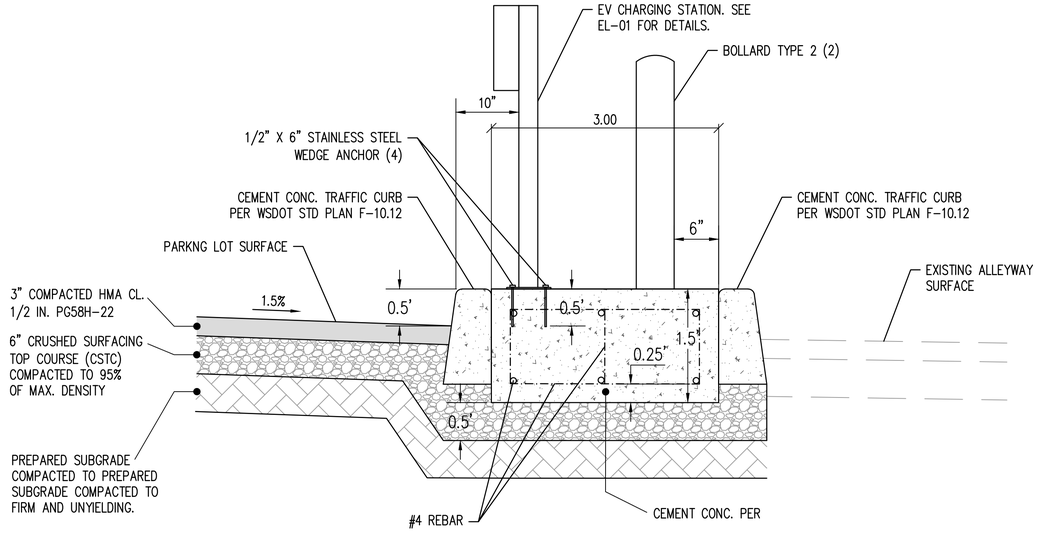


PLANTING BED SOIL PREPARATION

NTS

NOTES:

1. ALL SOIL AREAS DISTURBED BY OR COMPACTED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS OR PAVEMENT SHALL BE AMENDED WITH TOPSOIL TYPE A.
2. ALL SUBSOIL SHALL BE SCARIFIED (LOOSENED) 4" BELOW TOPSOIL LEVEL, TO PRODUCE 8-INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER.
3. PLACE 4" INCHES OF TOPSOIL TYPE A. ALL TOPSOIL AREAS SHALL BE TOPDRESSED WITH 2-3 INCHES OF BARK MULCH PER SPECIFICATIONS.



SECTION E-E EV CHARGING FOUNDATION

NTS

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BID DOCUMENTS

REVISIONS	DATE	BY
1		

SCJ ALLIANCE
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360.352.1465
SCJALLIANCE.COM

SHEET TITLE: PAVING DETAILS

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:

Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
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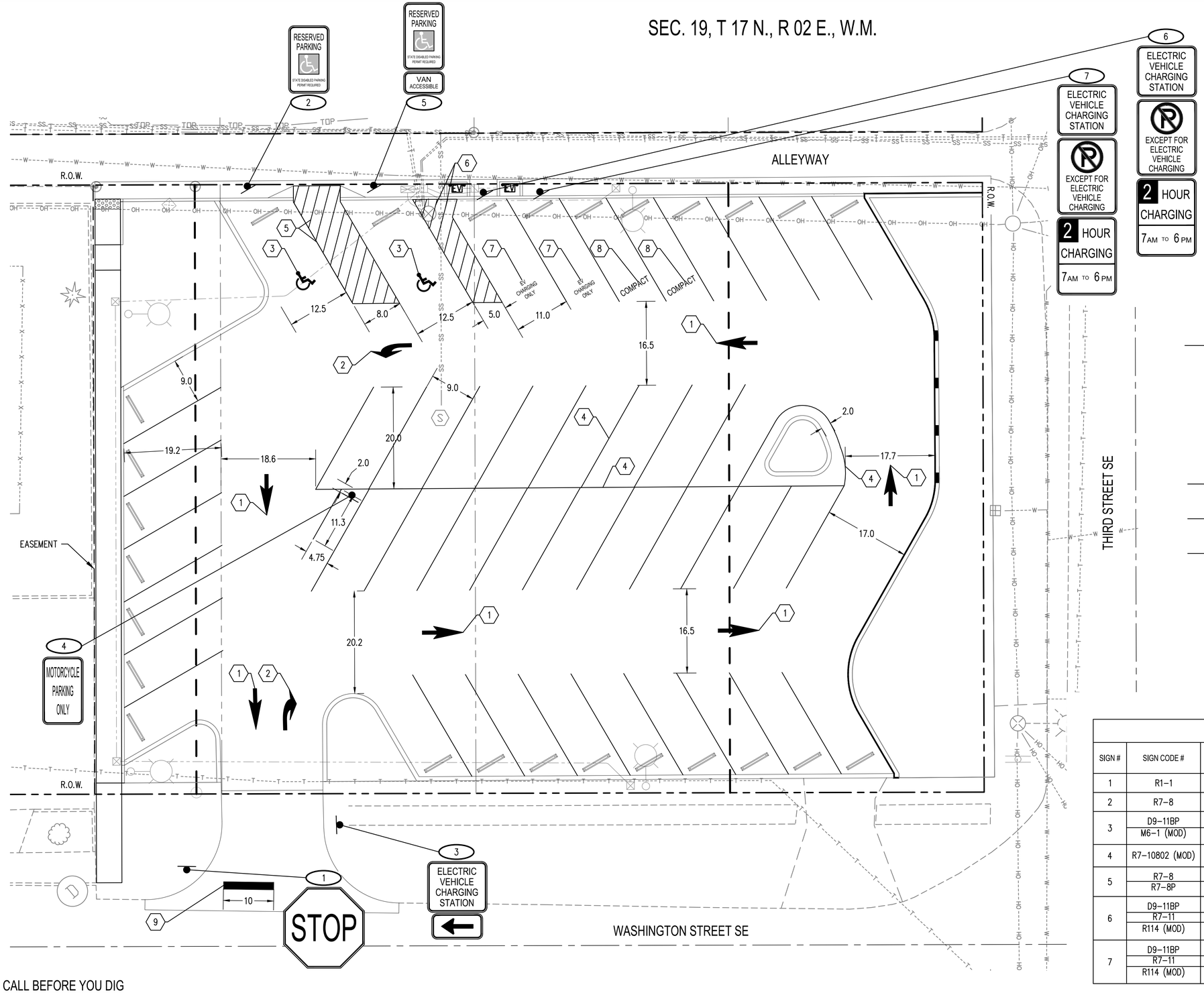

0 10 20
SCALE IN FEET

SIGN LEGEND

X SIGN NOTE

NEW SIGN ON POST

PAVING MARKING LEGEND

1. TYPE 1S PLASTIC ARROW (PER WSDOT STD PLAN M-24.40)
2. TYPE 2SR & TYPE 2SL PLASTIC ARROW (PER WSDOT STD PLAN M-24.20)
3. ACCESS PARKING SPACE SYMBOL (PER WSDOT STD PLAN M-24.60)
4. 4" WHITE PAINT LINE (PER WSDOT STD PLAN M-17.10)
5. 4" YELLOW PAINT LINE (PER WSDOT STD PLAN M-17.10)
6. 4" BLUE PAINT LINE (PER PSRC ELECTRIC VEHICLE GUIDANCE)
7. ELECTRIC VEHICLE PAINT MARKING LETTERS (1.0' TEXT HEIGHT) — EV CHARGING ONLY
8. COMPACT STALL PAINT MARKING LETTERS (1.5' TEXT HEIGHT) — COMPACT
9. PLASTIC STOP LINE (PER WSDOT STD PLAN M-24.60)

SIGN INSTALLATION SCHEDULE

SIGN #	SIGN CODE #	SIGN DESCRIPTION	SIGN SIZE X (INCH) - Y (INCH)
1	R1-1	STOP	30 30
2	R7-8	RESERVED PARKING FOR PERSONS WITH DISABILITIES	12 18
3	D9-11BP	ELECTRIC VEHICLE CHARGING STATION	12 12
	M6-1 (MOD)	EV DIRECTIONAL ARROW	12 6
4	R7-10802 (MOD)	MOTORCYCLE PARKING ONLY	12 18
5	R7-8	RESERVED PARKING FOR PERSONS WITH DISABILITIES	12 18
	R7-8P	VAN ACCESSIBLE	18 9
6	D9-11BP	ELECTRIC VEHICLE CHARGING STATION	12 12
	R7-11	NO PARKING EXCEPT FOR ELECTRIC VEHICLE CHARGING	12 18
	R114 (MOD)	# HOUR CHARGING	12 18
7	D9-11BP	ELECTRIC VEHICLE CHARGING STATION	12 12
	R7-11	NO PARKING EXCEPT FOR ELECTRIC VEHICLE CHARGING	12 18
	R114 (MOD)	# HOUR CHARGING	12 18

NOTE: SIGN POSTS SHALL BE STEEL SIGN SUPPORT TYPE AS PER WSDOT STANDARD PLAN G-24.20.

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SCJ ALLIANCE
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8730 TALLON LANE NE, SUITE 300, LACEY, WA 98516
360.352.1465
SCJALLIANCE.COM

SHEET TITLE: CHANNELIZATION PLAN

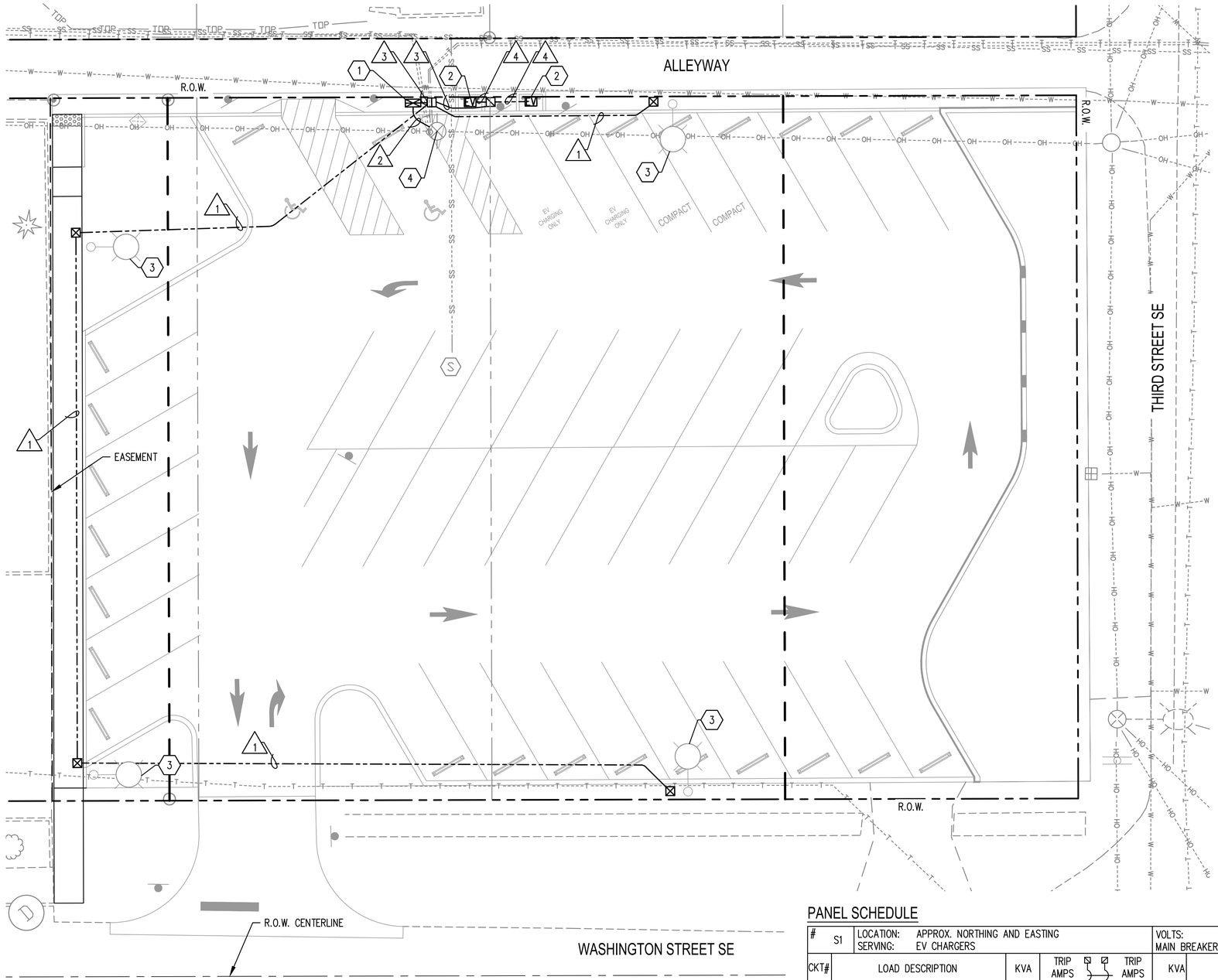
PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

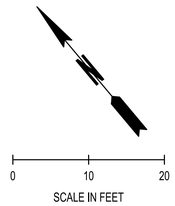
SEAL:
DAVID HARVEY ROWLAND
STATE OF WASHINGTON
36661
REGISTERED
PROFESSIONAL ENGINEER
Date: 03/22/2024

DESIGNER:	T. BECK
DRAWN BY:	T. BECK
APPROVED BY:	D. ROWLAND
DATE:	MARCH 2024
JOB NO:	22-000630
DRAWING FILE NO:	22-000630 PM-01
DRAWING NO:	PM-01
SHEET NO:	10 OF 11

Mar 22, 2024, 5:40:24pm - User: david.rowland
N:\PROJECTS\605 CITY OF YELM\22-000630 YELM WASHINGTON & MCKENZIE COUPLET\CAD_AMEND 2 - PARKING LOT\22-000630 PM-01.DWG

SEC. 19, T 17 N., R 02 E., W.M.





ELECTRICAL LEGEND

- TYPE 1 JUNCTION BOX, J-40.10
- TYPE 2 JUNCTION BOX, J-40.10
- TYPE 8 JUNCTION BOX, J-40.30
- ELECTRICAL SERVICE CABINET
- EV CHARGING STATION
- CONDUIT
- LIGHT STANDARD

CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-10.10 AND INSTALL TYPE D MODIFIED SERVICE CABINET PER WSDOT STD PLAN J-10.21. SEE PANEL SCHEDULE, THIS SHEET.
2. INSTALL ONE TESLA UNIVERSAL WALL MOUNT CONNECTOR AND ONE TESLA PEDESTAL FOR WALL CONNECTOR PER MANUFACTURER RECOMMENDATION. INSTALL FOOTING AND BOLLARDS PER PAVING PLAN AND DETAILS.
3. PROPOSED SOLAR POWER PARKING LIGHTS TO BE INSTALLED BY OTHERS.
4. LOCATION OF EXISTING POLE MOUNTED TRANSFORMER. INSTALL CONDUIT RISER ON THE POLE PER FIGURE 5 OF THE PUGET SOUND ENERGY ELECTRICAL SERVICE HANDBOOK AND INSTALL WIRE PER WIRING SCHEDULE, THIS SHEET. COORDINATE POWER HOOK UP WITH THE POWER COMPANY.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF YELM STANDARDS.
2. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. FINAL LOCATIONS OF ALL FEATURES SHALL BE CONFIRMED WITH THE ENGINEER IN THE FIELD.
3. CONDUIT LOCATION IS SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
4. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS. ALL JUNCTION BOXES INSTALLED IN LANDSCAPING SHALL HAVE A CONCRETE COLLAR PER WSDOT STD PLAN J-40.01.
5. ALL MATERIAL SUBMITTALS SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO CONSTRUCTION OF THE LIGHTING SYSTEM.

PANEL SCHEDULE

# S1	LOCATION: APPROX. NORTHING AND EASTING SERVING: EV CHARGERS			VOLTS: 120/240 PHASE: 1 MAIN BREAKER: 100 AMPS WIRE: 3		
CKT#	LOAD DESCRIPTION	KVA	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT#
1	EV CHARGER 1	7.6	40 — 1, 3	1.8	GFR	2
			TRIP AMPS — 2, 4 — 20	0.3	CONTROL (PHOTOCELL)	4
5	EV CHARGER 1	7.6	40 — 5, 7	–	SPARE	6
			6, 8	–	SPARE	8
9	SPARE	–	9, 10	–	SPARE	10
11	SPARE	–	11, 12	–	SPARE	12
POWER SOURCE LOCATION: APPROXIMATELY 9.5 FT SOUTH-EAST OF PROPOSED SERVICE CABINET				CONNECTED LOAD: 17.3 KVA 72.1 AMPS DEMAND LOAD (125%): 21.6 KVA 90.0 AMPS		

WIRING SCHEDULE

RUN NO.	CONDUIT SIZE	WIRE/CABLE #1 AWG	WIRE/CABLE #6 AWG	REMARKS
1	2" PVC			SPARE
2	2" PVC	3		SERVICE
3	2" PVC		6	POWER
4	1.5" PVC		3	POWER

NOTES:
1. ALL CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (EXCEPT FEEDER WIRE). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR OR MIN. #8 AWG.
2. ALL CONDUITS SHALL HAVE DETECTABLE PULL TAPE

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P: (360) 352-1465
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SHEET TITLE: ELECTRICAL PLAN

PROJECT NAME: DOWNTOWN PARKING LOT PROJECT
YELM, WA

SEAL:
DAVID HARVEY ROWLAND
STATE OF WASHINGTON
36661
REGISTERED
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SHEET NO:	11 OF 11