

# CLACKAMAS COUNTY NOTICE OF PUBLIC IMPROVEMENT CONTRACT OPPORTUNITY

### INVITATION TO BID #2017-60 Springwater Road at Clackamas River Bridge August 3, 2017

Clackamas County ("County") through its Board of County Commissioners is accepting sealed bids for the **Springwater Road at Clackamas River Bridge** Project until **August 24, 2017, 2:30 PM,** Pacific Time, ("Bid Closing") at the following location:

<u>DELIVER BIDS TO:</u> Clackamas County Procurement Division, Attention George Marlton, Director, Clackamas County Public Services Building, 2051 Kaen Road, Oregon City, OR 97045.

Bid packets are available from 7:00 AM to 6:00 PM Monday through Thursday at the above address or may be obtained at the Clackamas County Procurement Website at <a href="http://www.clackamas.us/bids/">http://www.clackamas.us/bids/</a>.

### **Contact Information**

Procurement Process and Technical Questions: Ryan Rice, 503-742-5446 or vial email at <a href="mailto:rrice@clackamas.us">rrice@clackamas.us</a>.

Bids will be opened and publicly read aloud at the above Delivery address after the Bid Closing. Bid results will also be posted to the Clackamas County Procurement Website shortly after the opening.

To be eligible for award under this Invitation to Bid, bidders (prime contractors) must submit a prequalification application to the County at least two business days prior to the Bid Closing. County will reject bids from bidders who are not prequalified for the class of work indicated prior to the Bid Closing.

Bidders must be prequalified in the areas of Earthwork and Drainage (EART); Asphalt Concrete Paving and Oiling (ACP).

### **State Prevailing Wage Rates**

Prevailing Wage Rates requirements apply to this Project because the maximum compensation for all Owner-contracted Work is more than \$50,000. Contractor and all subcontractors shall comply with the provisions of ORS 279C.800 through 279C.870, relative to Prevailing Wage Rates. The Bureau of Labor and Industries (BOLI) wage rates and requirements set forth in the following BOLI booklet (and any listed amendments to that booklet), which are incorporated herein by reference, apply to the Work authorized under this Agreement:

PREVAILING WAGE RATES for Public Works Contracts in Oregon, July 1, 2017, which can be downloaded at the following web address:

http://www.oregon.gov/boli/WHD/PWR/JULY2017/July\_1\_2017\_PWR.pdf.

The Work will take place in Clackamas County, Oregon.



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT OPPORTUNITY

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# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT INSTRUCTIONS TO BIDDERS

Clackamas County Local Contract Review Board Rules ("LCRB Rules") govern this procurement process and are in accordance with state and federal requirements. LCRB Rules may be found at: <a href="http://www.clackamas.us/code/documents/appendixc.pdf">http://www.clackamas.us/code/documents/appendixc.pdf</a>. The Instructions to Bidders is applicable to the procurement process for Clackamas County, or any component unit thereof identified on the Notice of Public Improvement Contract Opportunity, herein after referred to as the "County."

# Article 1. Scope of Work/Bidder Prequalification

The work contemplated under this contract with the County, includes all labor, materials, transportation, equipment and services necessary for, and reasonably incidental to, the completion of all construction work in connection with the project described in the Contract Documents. The Contract Documents are defined in Section 00110.20 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.

Only Bidders prequalified through ODOT for the classes of work described in the Contract Documents will be accepted. See Section 00120.00 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County. Under ORS 279C.430, proof of prequalification for the classes of work described in the Notice of Public Improvement Contract Opportunity must be submitted to the County prior to Bid Closing. IF YOU ARE UNCERTAIN REGARDING YOUR PREQUALIFICATION STATUS, PLEASE CONTACT PROCUREMENT AT 503-742-5441.

# **Article 2. Examination of Site and Conditions**

Before making a Bid, the Bidder shall examine the site of the work and ascertain all the physical conditions in relation thereto. See Section 00120.15 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.

### Article 3. Interpretation of Contract Documents and Approval of Materials Equal to Those Provided in the Specifications

If any Bidder contemplating submitting a Bid for the proposed contract is in doubt as to the true meaning of any part of the Plans, Special Provisions or forms of Contract Documents, or detects discrepancies or omissions, such Bidder may submit to the Engineer written request for an interpretation thereof at least ten (10) calendar days prior to the date set for the Bid Closing.

When a prospective Bidder seeks approval of a particular manufacturer's material, process or item of equal value, utility or merit other than that designated by the Engineer in the Contract Documents, the Bidder may submit to the Engineer a written request for approval of such substitute at least ten (10) calendar days prior to the date set for the Bid Closing. The prospective Bidder submitting the request will be responsible for its prompt delivery.

Requests of approval for a substitution from that specified shall be accompanied by samples, records of performance, certified copies of tests by impartial and recognized laboratories, and such other information as the Engineer may request.

To establish a basis of quality, certain processes, types of machinery and equipment or kinds of materials may be specified in the Contract Documents either by description of process or by designating a manufacturer by name and referring to a brand or product designation or by specifying a kind of material. Whenever a process is designated or a manufacturer's name, brand or item designation is given, or whenever a process or material covered by patent is designated or described, it shall be understood that the words "or approved equal" follow such name, designation or description, whether in fact they do so or not.

Any interpretation of the Contract Documents or approval of manufacturer's material will be made only by an Addendum duly issued. All Addenda will be posted to the Clackamas County Procurement Website (www.clackamas.us/bids/) will become a part of the Contact Documents. The County will not be responsible for any other explanation or interpretation of the Contract Documents nor for any other approval of a particular manufacturer's process or item for any Bidder.

When the Engineer approves a substitution by Addendum, it is with the understanding that the Contractor guarantees the substituted article or material to be equal or better than the one specified.

Unless the Engineer has approved substitutions of Materials, Equipment, and/or methods prior to opening of Bids, the Bidder shall furnish the items specified in the Contract. Substitution after Award is specified in 00180.31(b), 00180.31(c), and 00180.31(d).

# Article 4. Security to Be Furnished by Each Bidder

Each Bid must be accompanied by either 1) a cashier's check or a certified check drawn on a bank authorized to do business in the State of Oregon, or 2) a Bid Bond described hereinafter, executed in favor of the County, for an amount equal to ten percent (10%) of the total amount Bid as a guarantee that, if awarded the contract, the Bidder will execute the contract and provide a Performance Bond and Payment Bond as required or 3) Irrevocable letter of credit issued by an insured institution as defined in ORS 706.008. The successful Bidder's check or Bid

Bond will be retained until the Bidder has entered into a contract satisfactory to County and furnished a one hundred percent (100%) performance bond and one hundred percent (100%) Payment Bond. The County reserves the right to hold the Bid security as described in Article 10 hereof. Should the successful Bidder fail to execute and deliver the contract as provided for in Article 12 hereof, including a satisfactory performance bond and payment bond within twenty (20) calendar days after the Bid has been accepted by the County, then the contract award made to such Bidder may be considered canceled and the Bid security may be forfeited as liquidated damages at the option of the County. The date of the acceptance of the Bid and the award of the contract as contemplated by the Contract Documents shall mean the date of acceptance specified in the Notice of Intent to Award.

### Article 5. Execution of Bid Bond

Should the Bidder elect to utilize a Bid Bond as described in Article 4 in order to satisfy the Bid security requirements, such form must be completed in the following manner:

- A. Bid bonds must be executed on the County forms, which will be provided to all prospective Bidders by the County.
- B. The Bid Bond shall be executed on behalf of a bonding company licensed to do business in the State of Oregon.
- C. In the case of a sole individual, the bond need only be executed as principal by the sole individual. In the case of a partnership, the bond must be executed by at least one of the partners. In the case of a corporation, the bond must be executed by stating the official name of the corporation under which is placed the signature of an officer authorized to sign on behalf of the corporation followed by such person's official capacity, such as president, etc. The corporation seal should then be affixed to the bond.
- D. The name of the surety must be stated in the execution over the signature of its duly

authorized attorney-in-fact and accompanied by the seal of the surety corporation.

## Article 6. Execution of the Bid Proposal and Bid Schedule of Prices

Each Bid shall be made in accordance with: (i) the sample Bid Form and Bid Schedule of Prices accompanying these instructions; (ii) the appropriate signatures for a sole individual, partnership, corporation or limited liability corporation shall be added as noted in Article 5C above; (iii) numbers pertaining to base Bids shall be stated both in writing and in figures; and (iv) the Bidder's address shall be typed or printed.

The Bid Schedule of Prices relates to Bids on specific Contract Documents. Only the amounts and information asked for on the Bid Schedule of Prices furnished will be considered as the Bid. Each Bidder shall Bid upon the work exactly as specified and provided in the Bid Schedule of Prices. The Bidder shall include in the Bid a sum to cover the cost of all items contemplated by the Contract.

Bidders shall complete the certifications and statements included in the Bid Section of the Bid Booklet according to the instructions. The Bid Form shall be signed by an authorized representative certifying that the Statements in the Bid Form are accurate.

### Article 7. Prohibition of Alterations to Bid

Bids that are incomplete, or contain ambiguities or have differing conditions required by the Bidder, including requested changes or exceptions to the Public Improvement Contract Agreement Form or other portions of the Contract Documents, may be rejected in County's sole and absolute discretion. Refer to Section 00120.68 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.

### Article 8. Submission of Bid

Each Bid shall be sealed in an envelope, properly addressed to the County, showing on

the outside of the envelope the name of the Bidder and the name of the project. Bids will be received at the time and place stated in the Notice of Public Improvement Contract Opportunity.

### Article 9. Bid Closing and Opening of Bids

All Bids must be received by the County at the place and time set for the Bid Closing. Any Bids received after the scheduled Bid Closing time for receipt of Bids will be rejected.

At the time of opening and reading of Bids, each Bid received will be publicly opened and read aloud, irrespective of any irregularities or informalities in such Bids. Refer to Section 00120.65 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.

Generally, Bid results will be posted to the Procurement Website within two business days of the Bid Closing.

# **Article 10. Acceptance or Rejection of Bids by County**

Unless all Bids are rejected, the County will award a contract based on the lowest responsive Bid from a responsible Bidder. Refer to Section 00130.00 and 00130.10 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County. If that Bidder does not execute the contract, it will be awarded to the next lowest responsible Bidder or Bidders in succession.

The County reserves the right to reject all Bids and to waive minor informalities. The procedures for contract awards shall be in compliance with the provisions of the LCRB Rules in effect at that time.

The County reserves the right to hold the Bid and Bid security of the three lowest Bidders for a period of thirty (30) calendar days from and after the time of Bid Closing pending award of the contract. Following award of the contract the Bid security of the three lowest Bidders may be held twenty (20) calendar days pending

execution of the contract. All other Bids will be rejected and Bid security will be returned.

If no Bid has been accepted within thirty (30) calendar days after the opening of the Bids, each of the three lowest Bidders may withdraw the Bid submitted and request the return of the Bid security.

### Article 11. Revision or Withdrawal of Bids

At any time prior to the Bid Closing, a Bidder may revise or withdraw its Bid. This will not preclude the submission of another Bid by such Bidder prior to the time set for the Bid Closing. Information entered into the paper Bid Form by the Bidder may be changed after the paper Bid has been delivered to the County Procurement Department, provided that:

Changes are prepared according to the instructions identified in the Bid Form identified in Article 8; and changes are received at the same offices, addresses, and times identified in the paper Bid Form for submitting Bids; and the changes are submitted in writing or by electronic mail to the email address provided in the Notice of Public Improvement Contract Opportunity, signed by an individual authorized to sign the Bid.

A Bidder may withdraw its paper Bid after it has been delivered to the County Procurement Department, provided that:

The written withdrawal request is submitted on the Bidder's letterhead, received at the same offices, addresses, and times identified in the paper Bid Form for submitting Bids, either by hand delivery or by electronic mail; and the request is signed by an individual who is authorized to withdraw the Bid, and proof of authorization to sign the Bid accompanies the withdrawal request.

After the time set for the Bid Closing, no Bidder will be permitted to withdraw its Bid within the time frames specified in Article 10 for award and execution, except as provided for in that Article.

### Article 12. Execution of Contract, Performance Bond and Payment Bond

The County will provide the successful Bidder with Contract Documents within seven (7) calendar days after the completion of the award protest period. The Bidder is required to execute the contract forms as provided, including a performance bond and a payment bond from a surety company licensed to do surety business in the State of Oregon, within ten (10) calendar days after receipt of the contract forms. The Contract Documents shall be delivered to the County in the number called for and to the location as instructed by the County. For Execution by the County, refer to Section 00130.50(b) of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.

### **Article 13. Recyclable Products**

Contractors will use recyclable products to the maximum extent economically feasible in the performance of the Contract.

# Article 14. Clarification or Protest of the Solicitation Document or Specifications

Any request for clarification or protest of the solicitation document or specifications must be submitted in the manner provided for in the applicable section of the LCRB Rules to the Procurement Representative referenced in the Notice of Public Improvement Contract Opportunity.

A protest of the Solicitation Document must be received within seven (7) business days of the issuance of the Bid or within three (3) business days of issuance of an addendum.

Requests for clarification may be submitted no less than five (5) business days prior to the Bid Closing Date.

### Article 15. Protest of Intent to Award

County will name the apparent successful Bidder in a "Notice of Intent to Award" letter. Identification of the apparent successful Bidder is procedural only and creates no right in the named Bidder to the award of the contract. Competing Bidders will be notified by publication of the Notice of Intent to Award on the Clackamas County Procurement Website of the selection of the apparent successful Bidder(s) and Bidders shall be given seven (7) calendar days from the date on the "Notice of Intent to Award" letter to review the file at the Procurement Division office and file a written protest of award, pursuant to LCRB C-049-0450. Any award protest must be in writing and must be delivered by hand delivery or mail to the Procurement Division Director at: Procurement Division, 2051 Kaen Road, Oregon City, OR 97045.

# Article 16. Disclosure of First-Tier Subcontractors

Without regard to the amount of a Bidder's Bid, if the Agency's cost range for a public improvement Project in the Notice of Public Improvement Contract Opportunity, or in other advertisement or solicitation documents, exceeds \$100,000, the Bidder shall, within 2 working hours of the time Bids are due to be submitted, submit to the Agency, on a form provided by the Agency, a disclosure identifying any first-tier Subcontractors that will furnish labor or labor and Materials, and whose contract value is equal to or greater than:

- 5% of the total Project Bid, but at least \$15,000; or
- \$350,000, regardless of the percentage of the total Project Bid.

For each Subcontractor listed, Bidders shall state:

- The name of the Subcontractor;
- The dollar amount of the subcontract and
- The category of Work that the Subcontractor would be performing.

If no subcontracts subject to the above disclosure requirements are anticipated, a Bidder shall so indicate by entering "NONE" or by filling in the appropriate check box. For each Subcontractor listed, Bidders shall provide all requested information. An incomplete form will be cause for rejection of the Bid.

Disclosures may be submitted with the Bid or may be hand delivered to the Bid Closing address or emailed to procurement@clackamas.us.

Subcontractor Disclosure Forms submitted by any method will be considered late if not received by the Agency within two 2 working hours of the time designated for receiving Bids.

In the event that multiple Subcontractor Disclosure Forms are submitted, the last version received prior to the deadline will be considered to be the intended version.

Bids not in compliance with the requirements of this Subsection will be considered non-responsive.

### **Article 17. Wage Rates**

This project is subject to both federal and State prevailing wage rate requirements. Not less than the higher of the applicable federal or existing State prevailing wage rates shall be paid to workers according to 00170.65(b) and 00170.65(e) of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.

Applicable Wages – Prevailing wage rates published in the following wage determinations and any applicable modifications or amendments apply to this Project and are incorporated by reference:

- 1. U.S. Department of Labor, "General Wage Determinations Issued under the Davis\_Bacon and Related Acts: Oregon Highway Construction Projects", available at <a href="http://www.wdol.gov/">http://www.wdol.gov/</a> (Wage Determinations OnLine.gov). and
- 2. Oregon Bureau of Labor and Industries (BOLI), "Prevailing Wage Rates for Public Works Contracts in Oregon" available at http://www.oregon.gov/boli/WHD/PWR/pages/index.aspx (Oregon Prevailing Wage Rate Publications).

The applicable federal prevailing wage rates and the existing State prevailing wage rates last published prior to the time of Bid Closing, which is stated on the Notice of Public Contract Opportunity page, apply to this Project. Modifications or amendments to the Davis-Bacon and BOLI wage rates applicable to this Project may occur any time before Bid Closing. Bidders are responsible to monitor the respective web page(s) for modifications and amendments up to Bid Closing.

The applicable Davis-Bacon and BOLI wage rates will be included in the Contract.

Article 18. Employee Drug Testing Program Pursuant to ORS 279C.505(2), that the bidder has an employee drug testing program in place, and will maintain such program for the entire period of this contract. Failure to maintain such program shall constitute a material breach of contract.

### **Article 19. Additional Terms**

Sections 00120 and 00130 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County are hereby incorporated into these Instructions. In the event of a conflict between Sections 00120 and 00130 of the General Conditions for Construction for (Certified LPA) Clackamas County and terms contained in these Instructions, the terms contained in these Instructions shall control.



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

Project Name #2017-60 Springwater Road at Clackamas River Bridge

The following modify the Clackamas County "Instructions to Bidders" for this Project. Where a portion of the Instructions to Bidders has been modified by these Supplemental Instructions to Bidders, the unaltered portions shall remain in effect.

Good Faith Effort: Clackamas County encourages participation in contracts by Historically Underrepresented Businesses. "Historically Underrepresented Businesses" are State of Oregon-certified and self-identified minority, women and emerging small business as well as firms that are certified federally or by another state or entity with substantially similar requirements as the State of Oregon.

Bid to be considered responsive. Form 1 and Form 2 must be submitted within two (2) hours after the Closing Date and Time. Form 1 and Form 2 may be submitted by hand delivery to the location the Bid was due or may email the completed Forms to Procurement@clackamas.us. "Good Faith Effort" is a requirement of a prime contractor to reach out to at least three Historically Underrepresented Business Subcontractors for each division of work that will be subcontracted out and to complete the required forms. If fewer than three Historically Underrepresented Business Subcontractors are reasonably available for a particular division of work, the Bidder must specifically note the reason for there being fewer than three contacts. The outreach should be performed with sufficient time to give the subcontractors at least 5 calendar days to respond to the opportunity. Form 3, which documents the actual amount of subcontractors on the project, must be submitted with the project final pay application. Compliance with the Good Faith Effort and submission of Forms 1, 2 and 3 is a contractual requirement for final payment.

The sufficiency of the documentation or the performance of Good Faith Effort shall be in the sole and absolute determination of Clackamas County. Only those Bidders that Clackamas County has determined have not sufficiently performed Good Faith Effort shall have protest rights of the determination for such Bidder. No Bidder shall have protest rights of the sufficiency of any other Bidder completing Good Faith Effort.

# CLACKAMAS COUNTY GOOD FAITH EFFORT SUBCONTRACTOR AND SELF-PERFORMED WORK LIST (FORM 1)

Prime Contractor Name: Project Name:	,	Total Contract An			
PRIME SELF-PERFORMING: Identify below ALL GFE Divisions of	·		orts are oth	nerwise re	quired.
DOW BIDDER WILL SI	ELF-PERFORM (GFE not re	<u>quired)</u>		_	
				-	
				-	
				<u>-</u>	
PRIME CONTRACTOR SHALL DISCLOSE AND LIST ALL SUBCO Emerging Small Businesses ("M/W/ESB") that you intend to use on t 97045 or email to <a href="mailto:procurement@clackamas.us">procurement@clackamas.us</a> within 2 hours of the	ne project. Hand delivery to	Procurement, 2051 Ka			ity, OR
LIST ALL SUBCONTRACTORS BELOW Use correct legal name of Subcontractor (No Assumed Business Names)	Division of Work (Painting, electrical, landscaping, etc.) List ALL DOW performed by Subcontractors	DOLLAR AMOUNT OF SUBCONTRACT	se MB Su	Certified of the contraction of	g SB
	.,			eck box A	FCD
Name			MBE	WBE	ESB
Address					
City/St/Zip					
Phone#					
OCCB#					
Name					
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Phone#					Ш
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Name					
Address					
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Phone#					
OCCB#					
Name					
Address					
City/St/Zip					
Phone#					

OCCB#

### GFE SUBCONTRACTOR AND SELF-PERFORMED WORK LIST (FORM 1) cont'd

Prime Contractor Name:

**Total Contract Amount:** 

Project Name:

LIST ALL SUBCONTRACTORS BELOW Use correct legal name of Subcontractor (No Assumed Business Names)	Division of Work (Painting, electrical, landscaping, etc.) List ALL DOW performed by Subcontractors	DOLLAR AMOUNT OF SUBCONTRACT	se MBI Su	If Certified or self-reporting MBE/WBE/ESB Subcontractor Check box	
			MBE	WBE	ESB
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					

# Clackamas County GFE (11/2016)

CLACKAMAS COUNTY
GOOD FAITH EFFORT
M/W/ESB CONTACT / BIDS RECEIVED LOG
(FORM 2)

Prime Contractor:
Project:

Prime Contractor must contact or endeavor to contact at least 3 M/W/ESB Subcontractors for each Division of Work. Prime Contractor shall record its contacts with M/W/ESB Subcontractors through use of this log (or equivalent) entering all

required information. All columns shall be completed where applicable. Additional forms may be copied if needed NAME OF M/W/ESB SUBCONTRACTOR Divisions of Work (Painting, electrical, landscaping, etc.) Date Solicitation Letter / Fax Date of Call PHONE CONTACT Person Receiving Call No No No No No Yes Yes ☐ Yes No Will Bid Yes Yes Yes Yes BID ACTIVITY
Check Yes or No No Yes Received Yes Yes Yes Yes Yes Yes Bid No No No No No No No ☐ Yes | Yes No No No No Yes Yes Yes Yes Yes Bid Used **Bid Amount** REJECTED BIDS (if bid received & not used) (Price, Scope or Other. If Other, explain in Notes>>) Reason Not Used Notes

### CLACKAMAS COUNTY GOOD FAITH EFFORT PROJECT COMPLETION REPORT (FORM 3)

Prime Contractor Name:

Total Contract Amount:

Complete this form and submit with your request for final payment upon the project completion. Please list all subcontractors used for the project. Use additional sheets as necessary.

LIST ALL SUBCONTRACTORS BELOW Use correct legal name of Subcontractor (No Assumed Business Names)	Division of Work (Painting, electrical, landscaping, etc.) List ALL DOW performed by Subcontractors	FINAL DOLLAR AMOUNT OF SUBCONTRACT	se MBI Sul	If Certified or self-reported MBE/WBE/ESB Subcontractor Check box	
			MBE	WBE	ESB
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
Name Address City/St/Zip Phone# OCCB#					
BY SIGNING BELOW, I HEREBY CERTIFY THAT THE ABOVE LISTED FIRMS HAVE BE THE INFORMATION CONTAINED HEREIN IS COMPLETE AND ACCURATE  Authorized Signature of Contractor Representative	_	IN THE AMOUNTS REPRE	SENTED AL	BOVE AND	THAT



### CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### **BID BOND**

Project Name: #2017-60 Springwater Road at Clackamas River Bridge

We,	, as "Princi	pal,"	
We,(Name of Principal)		-	
and(Name of Surety)	, an _		Corporation,
(Name of Surety)			
authorized to transact Surety busine ourselves, our respective heirs, execut County ("Obligee") the sum of (\$	ors, administrators, succ	essors and assig	•
			dollars.
<b>WHEREAS</b> , the condition of the oblig for			
, which bid proposal is made a bid proposal security in an amount expursuant to the Contract Documents	part of this bond by refequal to ten (10%) percent	erence, and Princ nt of the total ar	cipal is required to furnismount of the bid propos
sufficient Performance Bond and Payr then this obligation shall be void; othe payment under this bond if Principa conditions set forth on the form of co of the notice of intent to award. IN WITNESS WHEREOF, we have authorized legal representatives this _	rwise, it shall remain in all fails to enter into a ntract published with the caused this instrument	full force and ef contract with C e bid solicitation at to be execute	fect. Obligee may requipolities on the terms and within twenty (20) days days days and sealed by our du
	Surety:		
ориг			
Signature	By: Attorney-In-F	act	
Official Capacity		Name	
st:Corporation Secretary		Address	
corporation decreasing		7.00.000	
	City	State	Zip
	Phone		 -ax



### CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### **BID PROPOSAL FORM**

BID C	ECT #: ECT NAME: LOSING: PENING:	2017-60 Springwater Road a August 24, 2017, 2 August 24, 2017, 2	2:30 PM, Paci	fic Time		
FROM		ne (must be full lega	I name not A	RN/DRA)		
TO:	Clackamas C		manic, noi 11.	DIV/DBII)		
10.	Procurement 2051 Kaen R Oregon City,	Division oad				
1.	Bidder is (che	eck one of the follow	ing and insert	information requeste	<i>d</i> ):	
	a. An in	dividual; or				
	b. A par	tnership registered u	nder the laws	of the State of		; or
	c. A cor	poration organized u	nder the laws	of the State of		; or
		nited liability corpora				
	labor and per		after indicated	Oregon hereby proposed for the above projects:		
				Dollars (\$_		)
	nents as de		00110.20	the following docum of Section 12,	•	
Oppor		provement Contract		<ul><li>First-Tier Subcont</li><li>Performance Bond</li><li>Prevailing Wage F</li></ul>	l and Payment B	
<ul><li>Supp</li><li>Bid F</li><li>Bid F</li></ul>	lemental Instru Bond Proposal and Se	actions to Bidders		<ul> <li>Plans, Special Pro</li> <li>General Condition (Certified LPA) Cla</li> </ul>	visions and Drav s for Construction	
• Publi	-	at Contract Form	through	, inclusive (fill in	blanks)	

- 2. The Undersigned proposes to accept the total Bid in the attached Schedule of Prices, subject to adjustment for actual quantities completed during the course of work and any Amendment between the parties, for the items or work designated in the Contract Documents, for which any adjustments in the Contract amount will be made in accordance with Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.
- 3. The work shall be completed within the time stipulated and specified in Section 00180.50(h) of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County.
- 4. Accompanying herewith is Bid Security which is equal to ten percent (10%) of the total amount of the Basic Bid.
- 5. The Undersigned agrees, if awarded the Contract, to execute and deliver to Clackamas County, within ten (10) calendar days after receiving the Contract forms, a Contract Form, a Federal Tax Identification Number for the Contractor, and a satisfactory Performance Bond and Payment Bond each in an amount equal to one hundred percent (100%) of the Contract sum, using forms provided by the County. The surety requested to issue the Performance Bond and Payment Bond will be:

\_\_\_\_\_

(name of surety company - not insurance agency)

The Undersigned hereby authorizes said surety company to disclose any information to the County concerning the Undersigned's ability to supply a Performance Bond and Payment Bond each in the amount of the Contract.

- 6. The Undersigned further agrees that the Bid Security accompanying the Bid is left in escrow with Clackamas County; that the amount thereof is the measure of liquidated damages which the County will sustain by the failure of the Undersigned to execute and deliver the above-named Contract Form, Performance Bond and Payment Bond, each as published, and that if the Undersigned defaults in either executing the Contract Form or providing the Performance Bond and Payment Bond within ten (10) calendar days after receiving the Contract forms, then the Bid Security shall become the property of the County at the County's option; but if the Bid is not accepted within thirty (30) calendar days of the time set for the opening of the Bids, or if the Undersigned executes and timely delivers said Contract Form, Performance Bond and Payment Bond, the Bid Security shall be returned.
- 7. The Undersigned certifies that: (i) This Bid has been arrived at independently and is being submitted without collusion with and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment or services described in the invitation to bid designed to limit independent bidding or competition; and (ii) the contents of the Bid have not been communicated by the Undersigned or its employees or agents to any person not an employee or agent of the Undersigned or its surety on any Bond furnished with the Bid and will not be communicated to such person prior to the official opening of the Bid.
- 8. The undersigned **HAS, HAS NOT** (*circle applicable status*) paid unemployment or income taxes in Oregon within the past 12 months and **HAS, HAS NOT** (*circle applicable status*) a business address in Oregon. The undersigned acknowledges that, if the selected bidder, that the undersigned will have to pay all applicable taxes and register to do business in the State of Oregon before executing the Public Improvement Contract Agreement Form.
- 9. The Undersigned agrees, if awarded a contract, to comply with the provisions of ORS 279C.800 through 279C.870 pertaining to the payment of the prevailing rates of wage.

submitting a bid, a Contractor must accordance with ORS 701.035 to 70	n number is As a condition to be registered with the Oregon Construction Contractors Board in 1.055, and disclose the registration number. Failure to register and d unresponsive and it will be rejected, unless contrary to federal law.
as described in ORS 701.005(2) were	certifies that all subcontractors who will perform construction work e registered with the Construction Contractors Board in accordance time the subcontractor(s) made a bid to work under the contract.
of the State of Oregon,	certifies that, in compliance with the Worker's Compensation Law its Worker's Compensation Insurance provider is , Policy No, and that Contractor shall submit
13. Contractor's Key Individuals	for this project (supply information as applicable):
Project Manager: Job Superintendent:	
discriminate against a disadvantaged business, a business that a service-dis required subcontracts. The Bidder und improvement project if the Agency fi	ORS 279A.110, the Bidder has not discriminated and will not business enterprise, a minority-owned business, a woman-owned abled veteran owns, or an emerging small business in obtaining any derstands that it may be disqualified from Bidding on this public nds that the Bidder has violated subsection (1) of ORS 279A.110.
By signature below, Contractor agree	First-Tier Subcontractor Disclosure Form. es to be bound by this Bid.
NAME OF FIRM	
ADDRESS	
TELEPHONE NO	
EMAIL	
SIGNATURE 1)	Sole Individual
or 2)	Partner
or 3)	Authorized Officer of Corporation
* * * *	•

### **BID SCHEDULE - 07/12/2017**

Spec No.	Item No.	vater Rd at Clackamas River Bridge - Br	UNIT	AMOUNT	UNIT PRICE	TOTAL PRICE
	ZATION AND TRA		ONIT	AWOON	ONIT FRICE	TOTAL PRICE
0196	1	EXTRA WORK AS AUTHORIZED	FA	-	-	\$15,000.00
0210	2	MOBILIZATION	LS	ALL		
TRAFFIC	C CONTROL					
0225	3	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	1		
0225	4	TEMPORARY SIGNS	SQFT	230		
0225	5	STRIPE REMOVAL	FOOT	1200		
0225	6	PORTABLE CHANGEABLE MESSAGE SIGNS	EACH	3		
0225	7	FLAGGERS	HOUR	600		
0225	8	FLAGGERS STATION LIGHTING	EACH	3		
0225	9	TRAFFIC CONTROL SUPERVISOR	LS	1		
EROSIO	N CONTROL					
0280	10	EROSION CONTROL	LS	1		
0280	11	MATTING, TYPE C	SQYD	100		
0280	12	CHECK DAM, TYPE 1	EACH	8		
0280	13	INLET PROTECTION, TYPE 3	EACH	7		
0280	14	SEDIMENT BARRIER, TYPE 8	FOOT	100		
0290	15	POLLUTION CONTROL PLAN	LS	1		
ROADW	ORK					
0305	16	CONSTRUCTION SURVEY WORK	LS	ALL		
0310	17	REMOVAL OF PIPES	FOOT	40		
0310	18	REMOVAL OF SURFACINGS	SQYD	1200		
0310	19	ASPHALT PAVEMENT SAW CUTTING	FOOT	75		
0310	20	REMOVAL AND DISPOSAL OF EXISTING SILT/WORK FENCING	LS	ALL		
0320	21	CLEARING AND GRUBBING	LS	ALL		
0330	22	GENERAL EXCAVATION	CUYD	850		
0330	23	GENERAL EXCAVATION (Existing Staging Area)	CUYD	400		
0330	24	GENERAL EXCAVATION (Asphalt Surfacings)	CUYD	50		
0350	25	SUBGRADE GEOTEXTILE (TYPE II GEOGRID)	SY	1,200		
DRAINA	GE AND SEWER	s				
0445	26	12 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	30		
0470	27	CONCRETE INLETS, TYPE GB-2	EACH	1		
0470	28	REPLACEMENT AND ADJUSTMENT OF EXISTING CATCH BASIN TOP/RIM	EACH	3		
0490	29	CONNECTION TO EXISTING STRUCTURES	EACH	1		
STRUCT	TURES					
0587	30	CONCRETE RAIL REFINISHING AND REPAINTING	SQFT	3,000		

Spec No.	Item No.	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT PRICE	TOTAL PRICE
0587	31	GALVANIZED RAILING COMPLETION	FOOT	4,000		
BASES						
0620	32	COLD PLANE PAVEMENT REMOVAL, 0 - 3 INCH DEEP	SQYD	800		
0620	33	COLD PLANE PAVEMENT REMOVAL, 3 - 6 INCH DEEP	SQYD	800		
0640	34	AGGREGATE BASE	TON	620		
WEARIN	G SURFACES					
0744	35	LEVEL 3, 1/2 INCH DENSE MHMAC MIXTURE (Base /Leveling)	TON	600		
0744	36	LEVEL 3, 1/2 INCH DENSE MHMAC MIXTURE (Wearing Course)	TON	850		
0749	37	EXTRA FOR ASPHALT APPROACHES	EACH	1		
0759	38	CONCRETE CURBS, STANDARD CURB	FOOT	90		
0759	39	CONCRETE WALKS	SQFT	500		
0759	40	EXTRA FOR NEW SIDEWALK RAMPS	EACH	1		
PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES						
0860	41	THERMOPLASTIC, EXTRUDED OR SPRAYED, SURFACE, NON-PROFILED	FOOT	7,100		
0867	42	PAVEMENT LEGEND, TYPE AB: ARROWS	EACH	4		
0867	43	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE STENCIL	EACH	4		
0867	44	PAVEMENT BAR, TYPE AB	SQFT	26		
0905	45	REMOVE AND REINSTALL EXISTING SIGNS	LS	1		
0910	46	WOOD SIGN POSTS	FBM	10		
0930	47	PERFORATED STEEL SQUARE TUBE SIGN SUPPORTS	LS	1		
0940	48	TYPE "R" SIGNS IN PLACE	SQFT	13		
0940	49	TYPE "G2" SIGNS IN PLACE	SQFT	14		
RIGHT-C	F-WAY DEVELOR	PMENT AND CONTROL				
1030	50	PERMANENT SEEDING, NATIVE (HYDROSEEDING)	ACRE	0.4		
1030	51	PERMANENT SEEDING, LAWN (HYDROSEEDING)	ACRE	0.2		
1040	52	TOP SOIL	CY	140		

PROPOSED COST	
	(Numerically)
PROPOSED COST	
	(Written in Words)
COMPANY NAME	
AUTHORIZED SIGNATURE	

# FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM PROJECT: #2017-60 Springwater Road at Clackamas River Bridge

BID OPENING: August 24 2017, 2:30 PM, Pacific Time

Failure to submit this Form by the disclosure deadline will result in a nonresponsive bid.

### **INSTRUCTIONS:**

This First-Tier Subcontractor Disclosure Form ("Form") must be submitted and received at the location specified in the Notice of Public Improvement Contract Opportunity by the advertised Bid Closing, or within two working hours after the advertised Bid Closing Time.

The Form may be mailed, hand-delivered or emailed to: <a href="mailto:Procurement@clackamas.us">Procurement@clackamas.us</a>. It is the responsibility of Bidders to submit this Form and any additional sheets with the Project name clearly marked on the envelope or the subject line of the email.

Subcontractor lists may be submitted with the bid in the same envelope or email at the Bid Closing date and time. Subcontractor lists <u>MUST</u> be submitted within **two (2) hours** of the Bid Closing date and time.

List below the name of each subcontractor that will be furnishing labor, or labor and materials, for which disclosure is required, the category of work that the subcontractor will be performing, and the dollar value of the subcontract. Enter "NONE" if the value of the project bid is less than \$100,000 or there are no subcontractors that need to be disclosed. ATTACH ADDITIONAL SHEETS IF NECESSARY.

DOLLAR VALUE

CATEGORY OF WORK

1.			
2.			
3.			
4.			
5.			
6.			
Value e	equal to or greater than:	<i>,</i>	
Firm Na	ame:		
Bidder	Signature:	Phone #	

SUBCONTRACTOR NAME



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### PERFORMANCE BOND

Bond No.:		
Solicitation: 2017-60		
Project Name: Springwater Road at Clack	amas River Bridge	
(Surety #1)	Bond Amount No. 1:	¢
(Surety #1) (Surety #2)*	Bond Amount No. 1:  Bond Amount No. 2:*	\$ <b>¢</b>
\	Total Penal Sum of Bond:	\$ \$
* If using multiple sureties	Total Felial Sulli of Bolid.	Φ
We,	as Princ	cipal, and the above identified
Surety(ies), authorized to transact surety l		1 '
ourselves, our respective heirs, executors,	<u> </u>	• • •
to pay unto Clackamas County, the State	of Oregon and the Oregon Der	partment of Transportation, the
sum of (Total Penal Sum of Bond)		1
(Provided, that we the Sureties bind ourse		everally" as well as "severally"
only for the purpose of allowing a joint ac		•
each Surety binds itself, jointly and sever	•	1 1
set forth opposite the name of such Suret	•	
or some of some	J / , 44.14	

WHEREAS, the Principal has entered into a contract with Clackamas County, along with the plans, specifications, terms and conditions of which are contained in the above-referenced Solicitation; and

WHEREAS, the terms and conditions of the contract, including, but not limited to applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Performance Bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and all authorized modifications of the Contract which increase the amount of the work, the amount of the Contract, or constitute an authorized extension of the time for performance, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal herein shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things undertaken by Contractor to be performed under the Contract, upon the terms set forth therein, and within the time prescribed therein, or as extended as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless Clackamas County, the State of Oregon and the Oregon Department of Transportation, and their respective elected officials, officers, employees and agents, against any direct or indirect damages or claim of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Principal or its subcontractors, and shall in all respects perform said contract according to law, then this obligation is to be void; otherwise, it shall remain in full force and effect for so long as any term of the Contract remains in effect.

If the County determines that any of the above conditions have not been met, the County may require payment under this bond at its sole and absolute discretion and Surety shall issue prompt payment of the full value of this bond without set-off or dispute or requirement for an opportunity to cure.

Nonpayment of the bond premium will not invalidate this bond nor shall Clackamas County, be obligated for the payment of any premiums.

This bond is given and received under authority of Oregon Revised Statutes Chapter 279C and the Clackamas County Local Contractor Review Board Rules, the provisions of which hereby are incorporated into this bond and made a part hereof.

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND

City

Phone

Signature

Address

State

Fax

Zip



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### PAYMENT BOND

Bond No.:			
Solicitation: 2017-60			
Project Name: Springw	ater Road at Clac	kamas River Bridge	
(	Surety #1)	Bond Amount No. 1:	\$
(	Surety #2)*	Bond Amount No. 2:*	\$
* If using multiple sur		Total Penal Sum of Bond:	\$
Surety(ies), authorized ourselves, our respective pay unto Clackamas Co (Total Penal Sum of (Provided, that we the Stor the purpose of allow	to transact surety e heirs, executors ounty, the State of Bond) ureties bind ourse ving a joint action tly and severally	, as Prince business in Oregon, as Surety, he administrators, successors and as Toregon and the Oregon Department of the sum "jointly and seven or actions against any or all of us with the Principal, for the payment	ereby jointly and severally binds signs firmly by these presents the ent of Transportation, the sum of trally" as well as "severally" onlys, and for all other purposes each

WHEREAS, the Principal has entered into a contract with Clackamas County, along with the plans, specifications, terms and conditions of which are contained in above-referenced Solicitation; and

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Payment Bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and schedule of contract prices which are set forth in the Contract and any attachments, and all authorized modifications of the Contract which increase the amount of the work, or the cost of the Contract, or constitute authorized extensions of time for performance of the Contract, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by it undertaken to be performed under said Contract and any duly authorized modifications that are made, upon the terms set forth therein, and within the time prescribed therein, or as extended therein as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless Clackamas County, the State of Oregon and the Oregon Department of Transportation, and their respective elected officials, officers, employees and agents, against any claim for direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Contractor or its subcontractors, and shall promptly pay all persons supplying labor, materials or both to the Principal or its subcontractors for prosecution of the work provided in the Contract; and shall promptly pay all contributions due the State Industrial Accident Fund and the State Unemployment Compensation Fund from the Principal or its subcontractors in connection with the performance of the Contract; and shall pay over to the Oregon Department of Revenue all sums required to be deducted and retained from the wages of employees of the Principal and its subcontractors pursuant to ORS 316.167, and shall permit no lien nor claim to be filed or

prosecuted against Clackamas County on account of any labor or materials furnished; and shall do all things required of the Principal by the laws of this State, then this obligation shall be void; otherwise, it shall remain in full force and effect for so long as any term of the Contract remains in effect.

If the County determines that any of the above conditions have not been met, the County may require payment under this bond at its sole and absolute discretion and Surety shall issue prompt payment of the full value of this bond without set-off or dispute or requirement for an opportunity to cure.

Nonpayment of the bond premium will not invalidate this bond nor shall Clackamas County be obligated for the payment of any premiums.

This bond is given and received under authority of Oregon Revised Statutes Chapter 279C and the Clackamas County Local Contractor Review Board Rules, the provisions of which hereby are incorporated into this bond and made a part hereof.

Dated this	day of			
		PRINCIPAL	:	
		Ву:		
			Signatur	re
				Capacity
		Attest:	Corpora	tion Secretary
		[Add signatures for each if using multiple both BY ATTORNEY-IN-FACT:		g multiple bonds]
		[Power-of-Attorney must accompany each bot		
			Name	
			Signatur	re
			Address	
		City	State	Zip
		Phone	Fax	



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### AGREEMENT FORM

This Public Improvement Contract for the **Springwater Road at Clackamas River Bridge** Project (the "Contract"), is made by and between the Clackamas County, a political subdivision of the State of Oregon, hereinafter called "County," and Contractor Name (No DBA/ABN), hereinafter called the "Contractor" (collectively the "Parties"), shall become effective on the date this Contract has been signed by all the Parties and all County approvals have been obtained, whichever is later.

### WITNESSETH:

### 1. Contract Price, Contract Documents and Work.

The Contractor, in consideration of the sum of Dollars (\$ ) (the "Contract Price"), to be paid to the Contractor by County in the manner and at the time hereinafter provided, and subject to the terms and conditions provided for in the Instructions to Bidders and other Contract Documents as defined in Section 12. General Conditions for Construction for (Certified LPA) Clackamas County, all of which are incorporated herein by reference, hereby agrees to perform all Work described and reasonably inferred from the Contract Documents. The Contract Price is the prices fixed in the Contractor's Bid Proposal for said work as set forth herein under the Schedule of Bid Prices.

Also, the following documents are incorporated by reference in this Contract and made a part hereof:

- Notice of Public Improvement Contract Opportunity
- Instructions to Bidders
- Supplemental Instructions to Bidders
- Bid Bond
- Bid Proposal and Schedule of Prices
- Public Improvement Contract Form

- First-Tier Subcontractor Disclosure Form
- Performance Bond and Payment Bond
- Prevailing Wage Rates
- Plans, Special Provisions and Drawings
- General Conditions for Construction for (Certified LPA) Clackamas County

### 2. Representatives.

Contractor has named as its' Authorized Representative to act on its behalf.

The County designates Joel Howie as its Authorized Representative in the administration of this Contract. The above-named individual shall be the initial point of contact for matters related to Contract performance, payment, authorization, and to carry out the responsibilities of the County.

### 3. Key Persons.

The Contractor's personnel identified below shall be considered Key Persons and shall not be replaced during the project without the prior written permission of County, which shall not be unreasonably withheld. If the Contractor intends to substitute personnel, a request must be given to County at least 30 days prior to the intended time of substitution. When replacements have been approved by County, the Contractor shall provide a transition period of at least 10 working days during which the original and replacement personnel shall be working on the project concurrently. Once a replacement for any of these staff members is authorized, further replacement shall not occur without the prior written permission of County. The Contractor's project staff shall consist of the following personnel:

**Project Executive:** shall be the Contractor's project executive, and will provide oversight and guidance throughout the project term.

**Project Manager**: shall be the Contractor's project manager and will participate in all meetings throughout the project term.

**Job Superintendent**: shall be the Contractor's on-site job superintendent throughout the project term.

**Project Engineer:** shall be the Contractor's project engineer, providing assistance to the project manager, and subcontractor and supplier coordination throughout the project term.

### 4. Contract Dates.

CONTRACT COMPLETION DATE 1: Complete all work by November 3, 2017, except for concrete walks, sidewalk ramps, and seeding establishment.

COMPLETION DATE 2: Complete all remaining Work prior to November 17, 2017, except for seeding establishment.

COMPLETION DATE (except for seeding and planting establishment): April 15, 2018.

Time is of the essence for this Contract. It is imperative that the Work in this Contract reach Second Notification and Third Notification by the above specified dates.

### 5. Insurance Certificates.

In accordance with Section 00170.70 of Section 12, General Conditions for Construction for (Certified LPA) Clackamas County, Contractor shall furnish proof of the required insurance naming Clackamas County and the State of Oregon and the Oregon Department of Transportation as an additional insured. Insurance certificates may be returned with the signed Contract or may emailed to Procurement@clackamas.us.

### 6. Tax Compliance.

Contractor must, throughout the duration of this Contract and any extensions, comply with all tax laws of this state and all applicable tax laws of any political subdivision of this state. Any violation of this section shall constitute a material breach of this Contract. Further, any violation of Contractor's warranty in this Contract that Contractor has complied with the tax laws of this state and the applicable tax laws of any political subdivision of this state also shall constitute a material breach of this Contract. Any violation shall entitle County to terminate this Contract, to pursue and recover any and all damages that arise from the breach and the termination of this Contract, and to pursue any or all of the remedies available under this Contract, at law, or in equity, including but not limited to:

(A) Termination of this Contract, in whole or in part; (B) Exercise of the right of setoff, and withholding of amounts otherwise due and owing to Contractor, in an amount equal to County's setoff right, without penalty; and (C) Initiation of an action or proceeding for damages, specific performance, declaratory or injunctive relief. County shall be entitled to recover any and all damages suffered as the result of Contractor's breach of this Contract, including but not limited to direct, indirect, incidental and consequential damages, costs of cure, and costs incurred in securing replacement performance. These remedies are cumulative to the extent the remedies are not inconsistent, and County may pursue any remedy or remedies singly, collectively, successively, or in any order whatsoever.

The Contractor represents and warrants that, for a period of no fewer than six calendar years preceding the effective date of this Contract, has faithfully complied with: (A) All tax laws of this state, including but not limited to ORS 305.620 and ORS chapters 316, 317, and 318; (B) Any tax provisions imposed by a political subdivision of this state that applied to Contractor, to Contractor's property, operations, receipts, or income, or to Contractor's performance of or compensation for any work performed by Contractor; (C) Any tax provisions imposed by a political subdivision of this state that applied to Contractor, or to goods, services, or property, whether tangible or intangible, provided by Contractor; and (D) Any rules, regulations, charter provisions, or ordinances that implemented or enforced any of the foregoing tax laws or provisions.

### 7. Confidential Information.

Contractor acknowledges that it and its employees or agents may, in the course of performing their responsibilities under this Contract, be exposed to or acquire information that is confidential to County or the State of Oregon. Any and all information of any form obtained by Contractor or its employees or agents in the performance of this Contract shall be deemed confidential information of County and of State ("Confidential Information"). Contractor agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Contractor uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce,

sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purpose unless specifically authorized in writing under this Contract.

### 8. Counterparts.

This Contract may be executed in several counterparts, all of which when taken together shall constitute an agreement binding on all Parties, notwithstanding that all Parties are not signatories to the same counterpart. Each copy of the Contract so executed shall constitute an original.

### 9. Integration.

The Contract Documents constitute the entire agreement between the parties. There are no other understandings, agreements or representations, oral or written, not specified herein regarding this Contract. Contractor, by the signature below of its authorized representative, hereby acknowledges that it has read this Contract, understands it, and agrees to be bound by its terms and conditions.

### 10. Liquidated Damages

The Contractor acknowledges that the County will sustain damages as a result of the Contractor's failure to substantially complete the Project in accordance with the Contract Documents and Special Provision Section 00180.85. These damages may include, but are not limited to delays in completion, use of the Project, and costs associated with Contract administration and use of temporary facilities.

**In witness whereof**, Clackamas County executes this Contract and the Contractor does execute the same as of the day and year first above written.

### 11. Contractor DATA:

Contractor CCB #

(Insert Contractor Name & Address)

Expiration Date:

Oregon Business Registry #	Entity Typ	e: State of For	rmation:
Payment information will be report Information must be provided prior Contractor to 28 percent backup wi	r to contract appr		•
Contractor Name (No DBA/ABN)		Clackamas County Board of	f County Commissioners
	Date	Chair	Date
Name / Title Printed		Recording Secretary	
		APPROVED AS TO FORM	1
		County Counsel	Date



## CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT PROJECT INFORMATION, PLANS, SPECIFICATIONS AND DRAWINGS

PROJECT: #2017-60 Springwater Road at Clackamas River Bridge

#### **Project Scope:**

The Clackamas County Department of Transportation completed construction of the Clackamas River (Springwater Rd) Bridge in 2015, except for the roadway approaches to the bridge, minor sidewalk construction and final striping. The focus of this project will be on completing the bridge approach reconstruction, minor storm sewer construction, sidewalk and ramp construction work, permanent seeding and final striping.

The sanitary sewer will include mobilization; complete bypass pumping system; 8" D3034 SDR 35 PVC pipe to include trenching, backfill, and repaving; 8" Cured-in-place-pipe (CIPP) liner; 48" diameter manhole replacement; lateral top hat; and all associated traffic control.

Road improvements will include mobilization, temporary traffic control, construction survey, drainage work, irrigation system repair, permanent traffic control, base work; and asphalt and concrete wearing surfaces.

#### **Key Dates:**

- All Basic Bid Work may begin as soon as the Notice to Proceed is issued and all Work must be completed prior to November 3, 2017, except for concrete walks, sidewalk ramps, and seeding and plant establishment.
- Complete all remaining Work prior to November 17, 2017, except for seeding establishment.

#### Engineers Estimate: \$490,000.00

Time is of the essence for this Project. Note the Liquidated Damages requirements as described in the Special Provisions for Highway Construction 00180.85(b).

The Scope further includes the following Plans, Specifications and Drawings:

- SPECIAL PROVISIONS FOR HIGHWAY CONSTRUCTION DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT CLACKAMAS COUNTY; SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE; BRIDGE APPROACH CONSTRUCTION dated July 2017;
- CLACKAMAS RIVER BRIDGE SPRINGWATER ROAD DRAWING SET: SHEET NO. 1; G2; T1; T2; 3-6; ER1; ER2; SR1; ST1; ST2; SG1-SG3.

## SPECIAL PROVISIONS FOR HIGHWAY CONSTRUCTION

# DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT CLACKAMAS COUNTY, OREGON

## SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE BRIDGE APPROACH CONSTRUCTION

EARTHWORK AND DRAINAGE AND ASPHALT CONCRETE PAVING AND OILING

**JULY 2017** 

## SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE BRIDGE APPROACH CONSTRUCTION

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### CLACKAMAS COUNTY DEPARTMENT OF TRANSPORTATION & DEVELOPMENT SPECIAL PROVISIONS

FOR

#### Springwater Road at Clackamas River Bridge

Clackamas County

#### PROFESSIONAL OF RECORD CERTIFICATION(s):



Date Signed: 7/13/2019

I certify the Special Provision Sections listed below are applicable to the design for the subject project for Bridge No. 21160. Modified Special Provisions were prepared by me or under my supervision.

Sections: 00210, 00220, 00225, 00280, 00290, 00305, 00310, 00320, 00330, 00350, 00405, 00445, 00470, 00490, 00495, 00587, 00620, 00640, 00730, 00744, 00749, 00759, 00850, 00865, 00867, 00905, 00910, 00930, 00940, 01030, 01040

#### **SPECIAL PROVISIONS**

#### APPLICABLE SPECIFICATIONS

The Specification that is applicable to the Work on this Project is the 2015 edition of the "Oregon Standard Specifications for Construction".

All number references in these Special Provisions shall be understood to refer to the Sections and subsections of the Standard Specifications and Supplemental Specifications bearing like numbers and to Sections and subsections contained in these Special Provisions in their entirety.

### SECTION 00110 - ORGANIZATION, CONVENTIONS, ABBREVIATIONS AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications supplemented and/or modified as follows:

00110.05(d) References to Laws, Acts, Regulations, Rules, Ordinances, Statutes, Orders, and Permits

Add the following to the first bullet (Statutes and Rules):

Clackamas County's Local Contract Review Board (LCRB) Rules are accessible online on the County's website (<a href="http://www.clackamas.us/code/documents/appendixc.pdf">http://www.clackamas.us/code/documents/appendixc.pdf</a>).

#### 00110.10 Abbreviations

Add the following:

CCDA - Clackamas County Development Agency

DTD - Clackamas County Department of Transportation and Development

LCRB - Local Contract Review Board

ODFW - Oregon Department of Fish and Wildlife ODOT - Oregon Department of Transportation

PCC - Portland Cement Concrete
UNS - Utility Notification System

WES - Water Environment Services of Clackamas County

#### 00110.20 Definitions

Add or modify definitions as follows:

**Agreement Form** – The written agreement between the Owner and Contractor covering the work to be performed under the contract.

**Amendment** – A contract modification for Additional Work, Changed Work, Extra Work, Field Directives, or other changes. An Amendment changes the contract value, scope, and/or time. Amendments require formal approval by the Board of County Commissioners, pursuant to LCRB Rule Division 160, prior to approval of such work.

**Approved Equal** - Materials or services proposed by the contractor and approved by the County as equal substitutes for those materials or services specified.

Award - Same as "Notice to Award".

**BCC** – The Clackamas County Board of County Commissioners

**Bid** - A written offer by a bidder on forms furnished by the County to do work stated in the bid documents at the prices quoted. "Bid" is synonymous with "proposal" in these bid documents.

Bid Booklet - The bound paper version included in the Solicitation Documents.

**Bid Documents**- The following documents together comprise the Bid Documents:

- Invitation to Bid, Instructions to Bidders, Bid Form, Bid Proposal, Schedule of Prices, Bid
- Bond, Performance Bond
- Certificate of Insurance, Prevailing Wage Rates
- The "Oregon Standard Specifications for Construction" by ODOT and APWA, 2015 edition.
- Plans and drawings
- Other bid documents included or referenced in the bid documents
- Addenda, if any
- The Agreement Form and Special Provisions

**Bonds** - The bond or surety bond is a written document given by the surety and principal to the obligee to guarantee a specific obligation.

**Change Order** - A price agreement for Extra Work, Changed Work, Field Directives, or other changes. A Change Order does not change the contract value, scope, or time until it is incorporated into an Amendment. Change Orders will be agreed upon, in writing, by the County Project Manager and the Contractor's designated representative.

Contract Documents - The Invitation to Bid, the Instructions to Bidders, the accepted Bid Proposal and Schedule of Prices, the Subcontractor List, the Bid Bond, the Performance and Payment Bond, the Certificate of Insurance, the Prevailing Wage Rates, the Standard Specifications and Special Provisions, Amendments, the Plans and Drawings, the Agreement, as well as all documents incorporated by reference therein, and any and all addenda prepared by or at the direction of and adopted by the County and further identified by the signature of the parties and all modifications thereof incorporated in the documents before their execution.

**County** - The term "County" shall mean Clackamas County, including the Board of County Commissioners, employees and agents of the County authorized to administer the conditions of these contract documents.

**Department** – A subdivision of the Agency.

**Engineer** - The County's Project Manager either acting directly or through an authorized representative(s). When referring to approval of extra work or other Contract modifications, "Engineer" also refers to the County's legal authority according to the LCRB rules.

**Invitation to Bid** - The public announcement (Notice to Contractors) inviting bids for work to be performed or materials to be furnished.

**Legal Holiday** - As defined in ORS 279C.540.

**Lump Sum** - A method of payment providing for one all-inclusive cost for the work or for a particular portion of the work.

**Notice of Intent to Award** - A written notice from the County notifying bidders that the County intends to award to the responsible bidder submitting lowest responsive bid.

**ODOT Procurement Office** – Clackamas County Purchasing Department.

Owner - Synonymous with Agency.

**Plan Holder's List** – A list of contractor's names, contact names, phone and fax numbers that the County's Purchasing Department creates during bidding of the Project.

**Project Manager** – The Owner's representative who directly supervises the engineering and administration of the contract.

**Shop Drawings** – Synonymous with Working Drawings.

**Solicitation Document** – Synonymous with Bid Documents.

**Standard Drawings** – The Agency-prepared detailed drawings for Work or methods of construction that normally do not change from project to project. The Standard Drawings include the ODOT Standard Drawings.

**Standard Specifications** - "Oregon Standard Specifications for Construction", current edition, published by the Oregon Department of Transportation and as amended by **the Agency**.

**State** - Where the term "State" or "State of Oregon" or "ODOT" appears in the contract documents it shall mean "Clackamas County", "State of Oregon", or "ODOT" as applicable because of context.

**Work Day** - Any and every calendar day from January 1 to December 31 of every year, excluding Saturdays, Sundays and Legal Holidays

#### **SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES**

Comply with Section 00120 of the Standard Specifications supplemented and/or modified as follows:

**00120.00** Prequalification of Bidders - Delete and replace with the following:

The Oregon Department of Transportation (ODOT) will prequalify Bidders according to OAR 734-010 and OAR 731-005-0450. A Bidder must file for prequalification and pay a fee. Prequalification must be renewed annually. Bidders shall make application for prequalification on standard forms furnished by ODOT's Procurement Office - Construction Contracts Unit, 455 Airport Road SE, Building K, Salem, Oregon 97301-5348 (telephone 503-986-2710). Bidders shall return the completed application and fee to the ODOT Procurement Office - Construction Contracts Unit. Contracts will only be awarded to Bidders who, at the time of Bid Opening, are prequalified in the Class or Classes of Work specified in the Special Provisions, except that a Bidder whose pregualification has been revoked or revised as provided in ORS 279C.430(4) may also be eligible for Award under that statute if the Project was advertised prior to the revocation or revision. The Agency will consider a Bid from a Bidder whose complete application for pregualification has been received by the ODOT Procurement Office - Construction Contracts Unit at least 10 Calendar Days before the opening of Bids. Bidders shall submit Bids in the same company name used on the prequalification application; provided however, if Bidder's legal name has changed since the submittal of its application for prequalification, it shall submit its Bid under its current legal name with the former name referenced by "formerly known as".

The Agency will regularly evaluate the performance of Contractors on its projects for purposes of responding to reference checks, future prequalification and determinations of responsibility. Also, see Instructions to Bidders.

**00120.01** General Bidding Requirements – Delete and replace with the following:

See Instructions to Bidders.

**00120.05** Requests for Solicitation Documents – Delete and replace with the following:

Bid documents may be obtained from the Clackamas County Purchasing Department as indicated in the Notice of Public Improvement Contract Opportunity. Anyone requesting Bid Documents will receive the electronic versions of the Bid Documents and Construction Plans and Drawings.

Electronic version of the 2015 edition of the "Oregon Standard Specifications for Construction" might be found on the Oregon Department of Transportation website at:

http://www.oregon.gov/ODOT/Business/Pages/Standard\_Specifications.aspx

00120.15 Examination of Work Site and Solicitation Documents; Consideration of Conditions to be Encountered – Delete the third paragraph.

**00120.16 Material, Equipment, and Method Substitutions** - Delete this section and replace with the following:

See Instructions to Bidders.

00120.17 Use of Agency-Owned Land for Staging or Storage Areas – Add the following:

Ther is adjacent property adjacent to the bridge available as a staging area. Refer to Special Provision Section 00290.10.

**00120.25 Subsurface Investigations** - Replace the first two sentences of the first paragraph with the following:

The Agency's consultant has conducted subsurface or geologic investigation of the Project Site, and the results of these investigations are available at the Engineer's office.

**00120.30** Changes to Plans, Specifications, or Quantities before Opening of Bids - Delete and replace with the following:

See Instructions to Bidders.

**00120.40** Preparation of Bid – Delete and replace paragraphs (a), (d), (e) and (f) with the following:

See Instructions to Bidders.

**00120.45** Submittal of Bids - Delete and replace with:

See Instructions to Bidders.

**00120.50** Submitting Bids for More than One Contract – Delete this subsection.

**00120.60** Revision or Withdrawal of Bids - Replace with the following:

**00120.60** Revision or Withdrawal of Proposals – See Instructions to Bidders.

**00120.68 Mistakes in Bids** - Delete and replace with the following:

See instructions to Bidders.

**00120.70** Rejection of Bids – Delete and replace with the following:

• See Instructions to Bidders.

**00120.95** Opportunity for Cooperative Arrangement – Delete this section.

#### **SECTION 00130 – AWARD AND EXECUTION OF CONTRACT**

Comply with Section 00130 of the Standard Specifications supplemented and/or modified as follows:

00130.00 Consideration of Bids - Delete third paragraph.

**00130.10** Award of Contract – Delete and replace with the following:

See Instructions to Bidders.

#### **00130.15** Right to Protest Award Replace with the following:

See Instructions to Bidders.

#### **00130.30** Contract Booklet – Add the following:

Other documents are part of the contract documents by reference. These include, but are not limited to:

- The "Oregon Standard Specifications for Construction", 2015 Edition, as published by the Oregon Department of Transportation (ODOT).
- "Oregon Standard Drawings" latest edition, as published by ODOT.
- Clackamas County Service District No. 1 "Surface Water Standard Specifications", latest edition.

### **00130.40** Contract Bonds, Certificates, and Registrations - Delete and replace with the following:

• See Instructions to Bidders.

**00130.50(a)** By the Bidder - Delete and replace with the following:

See Instructions to Bidders.

**00130.50(b)** By the Agency - Delete and replace with the following:

Within 10 Working Days after the Agency has received and verified the properly executed documents specified in the Instructions to Bidders, and received legal sufficiency approval from the Agency's attorney, the Agency will request Clackamas County Board of Commissioners or County Administrator's Approval of the Contract. Approval will occur within 21 Calendar Days after the Agency has received and verified the properly executed documents. The Agency will then send a fully executed Public Improvement Contract (Contract Form) to the successful Bidder, who then officially becomes the Contractor.

**00130.70** Release of Bid Guaranties – Delete and replace with the following:

Security deposited by unsuccessful bidders will be returned as soon as practicable after the bid opening.

**00130.80** Restrictions on Commencement of Work - Replace the paragraph that begins "Until the Agency sends...", with the following paragraph:

Until the Agency sends the Contractor written Notice to Proceed with the Work, and the Contractor has filed the public works bonds required in 00170.20, the Contractor shall not go onto the property on which the Work is to be done, nor move Materials, Equipment or workers onto that property.

#### SECTION 00140 - SCOPE OF WORK

Comply with Section 00140 of the Standard Specifications supplemented and/or modified as follows:

**00140.30** Agency-Required Changes in the Work – Replace the last paragraph with the following:

Upon receipt of an Engineer's written order modifying the Work, the Contractor shall perform the Work as modified via Change Order, which may be subject to approval as an Amendment.

If an Amendment incorporating changes to the Work increases the Contract amount, the Contractor shall notify its Surety of the increase and shall provide the Agency with a copy of any resulting modification to bond documents. The Contractor's performance of Work pursuant to Amendments shall neither invalidate the Contract nor release the Surety. Payment for changes in the Work shall be made in accordance with 00195.20. Contract Time adjustments shall be made in accordance with 00180.80.

#### **00140.31** "As-Built" Records - Add the following section:

Maintain a current and accurate record of the work completed during the course of this contract. This may be in the form of "as-built" drawings kept by accurately marking a designated set of the contract plans with the specified information as the Work proceeds. Accurate, complete and current "as-built" drawings are a specified requirement for full partial payment of the work completed. At project completion and as a condition of final payment, the Contractor shall deliver to the Project Manager a complete and legible set of "as-built" drawings.

The "as-built" drawings must show the information listed below. Where the term "locate" or "location" is used, it shall mean record of position with respect to both the construction vertical datum and either construction horizontal datum or a nearby permanent improvement.

- 1) Record location of underground services and utilities as installed.
- 2) Record location of existing underground utilities and services that are to remain and that are encountered during the course of the work.
- 3) Record changes in dimension, location, grade or detail to that shown on the plans.
- 4) Record changes made by change order.
- 5) Record details not in the original plans.
- 6) Provide fully completed shop drawings reflecting all revisions.

#### **SECTION 00150 - CONTROL OF WORK**

Comply with Section 00150 of the Standard Specifications supplemented and/or modified as follows:

**00150.00** Authority of the Engineer –Replace the first sentence with the following:

Except as indicated elsewhere in the Contract (e.g. Amendment approval by the BCC), the Engineer has full authority over the Work and its suspension.

**00150.05** Cooperative Arrangements – Delete this section.

#### 00150.10 Coordination of Contract Documents

(a) Order of Precedence – Delete this section and replace with the following:

The Engineer will resolve any discrepancies between these documents in the following order of precedence:

- Approved Amendments;
- Approved Change Orders
- Bid Schedule with Schedule of Prices;
- Permits from governmental agencies
- Special Provisions;
- Agency-prepared drawings specifically applicable to the Project and bearing the Project title;
- Reviewed and accepted, stamped Working Drawings;
- Agreement Form;
- Standard Drawings;
- Approved Unstamped Working Drawings;
- Standard Specifications:
- All other Contract Documents not listed above.

Notes on a drawing shall take precedence over drawing details.

Dimensions shown on the drawings, or that can be computed, shall take precedence over scaled dimensions.

**00150.15(b) Agency Responsibilities** - Replace this subsection, except for the subsection number and title, with the following:

The Engineer will perform the Agency responsibilities described in the ODOT Construction Surveying Manual for Contractors, Chapter 1.5 (see Section 00305).

**00150.15(c) Contractor Responsibilities** - Replace this subsection, except for the subsection number and title, with the following:

The Contractor shall perform the Contactor responsibilities described in the ODOT Construction Surveying Manual for Contractors, Chapter 1.6 (see Section 00305) and the following:

Perform earthwork slope staking including intersections and matchlines, set stakes for defining the lines and grades of the storm systems and approach work construction, and set stakes defining limits for clearing which approximate right-of-way and easements.

**00150.50** Cooperation with Utilities: Add the following to the end of Paragraph (a):

There may be other utility servers who are not specifically listed in these Special Provisions or on the Plans that may be adjusting or inspecting their facilities within the project limits.

**00150.50(c) Contractor Responsibilities** - Replace this subsection, except for the subsection number and title, with the following:

The Contractor shall:

- Hold a utility scheduling meeting and monthly utility coordination meetings (see also 00180.42)
- Determine the exact location before excavating within the reasonable accuracy zone according to OAR 952-001-0090(2)(c);
- Backfill any exposed utilities as recommended and approved by the Utility representative. Obtain utility locate warning tape from the Utility and replace damaged or removed warning tape. Utility locate warning tape may not be present at all existing utilities:
- Stake, place warning tape, and maintain no work limits around critical Utility facilities as shown or directed by the Engineer and the Utility;
- In addition to the notification required in OAR 952-001-0090(5), notify the Engineer and the Utility as soon as the Contractor discovers any previously unknown Utility conflicts or issues. Contrary to the OAR, stop excavating until directed by the Engineer and allow the Utility a minimum of two weeks to relocate or resolve the previously unknown utility issues; and

The existing underground utilities shown on the Plans have been determined by as-built records and field surveys, but are not guaranteed to be complete or accurate. The Contractor shall be responsible for contacting the individual utility companies to mark locations, and arranging with them for any relocation work that should be required.

The Contractor shall make excavations and borings ahead of the work where necessary to determine the exact location of underground pipes or other features, which might interfere with construction. The Contractor shall support and protect pipes or other services where they cross the trench and shall be responsible for all damages incidental in interruptions of service that may be caused by Contractor operations. Where a new utility line crosses an existing pipeline or other conduit, the trench backfill shall be well compacted in a manner that provides for the required backfill and compaction standards while protecting the utility in question.

#### **00150.50 Cooperation with Utilities** - Add the following subsection:

#### (f) Utility Information:

There are no anticipated conflicts with the Utilities listed below. Contact those Utilities having buried facilities and request that they locate and mark them for their protection prior to construction.

#### Utility

1. Portland General Electric (PGE)

1705 NE Burnside Gresham, OR 97030

Contact Person: Carl Waters Phone No. (503) 669-5276 Email: <u>carl.waters@pgn.com</u>

2. Northwest Natural Gas (NW Natural)

220 NW 2<sup>nd</sup>

Portland, OR 97209

Contact Person: Jodi Wright Phone No. (503) 367-4984

Email: <u>Jodi.Wright@nwnatural.com</u> Alternate Contact Person: Ray Stauss

Phone No. (503) 789-6652 Email: rgs@nwnatural.com

3. Clear Creek Telephone

18328 S. Fisher Mills Rd Oregon City, OR 97045

Contact Person: Kerry Lawson Phone No. (503)631-2101

Email: klawson@clearcreek.coop

Alternate Contact Person: Brad Cheney

Phone No. (503) 708-6960 Email: <u>bcheney@intelepoint.com</u>

4. Verizon

150 NW 20<sup>th</sup>

Gresham, OR 97030

Contact Person: Adam Hollanshead

Phone No. (503) 667-9780

Email: Adam.n.hollanshead@verizon.com

5. Comcast Tigard, OR 97223

Contact Person: Scott Sarber Phone No. (503) 596-3767

Email: Scott sarber@cable.comcast.net

6. Clackamas River Water

10831 Cascade Ave.

PO Box 2439 Clackamas, OR 97015-2439 Contact Person: Robert George Phone No. (503) 722-9228 Email: bgeorge@crwater.com

Energized power lines overhang portions of the Work with a minimum vertical clearance of 18 feet. Contractor shall maintain at least 10 feet of safety clearance.

This Project is located within the Oregon Utility Notification Center area which is a Utilities notification system for notifying owners of Utilities about Work being performed in the vicinity of their facilities. The Utilities notification system telephone number is 811 (or use the old number which is 1-800-332-2344).

#### **00150.70 Detrimental Operations** – Add the following:

Portions of this project will be constructed in close proximity to existing private improvements. All private improvements disturbed by the Contractor's operations shall be repaired or replaced to equal or better condition, as determined by the County or County representative, at the Contractor's expense. In addition, prior to construction at the preconstruction meeting the Contractor shall provide to the Engineer videotape showing private property, which may be disturbed during construction.

See section 00295 for additional preconstruction survey and vibration monitoring requirements.

#### **SECTION 00160 - SOURCE OF MATERIALS**

Comply with Section 00160 of the Standard Specifications supplemented and/or modified as follows:

**00160.05 Qualified Products List (QPL)** - Replace this subsection, except for the subsection number and title, with the following:

The QPL is a listing of manufactured products available on the market (shelf items) that ODOT has evaluated and found suitable for a specified use in highway construction. The QPL is available from ODOT's Construction Section website at:

#### http://www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx

The most current published PDF version of the QPL on ODOT's Construction Section website at the time of Advertisement is the version in effect for the Project. The Engineer may approve for use a conditionally qualified product, or a product qualified for inclusion in a later edition of the QPL, if the Engineer finds the product acceptable for use on the Project.

Use of listed products shall be restricted to the category of use for which they are listed. The Contractor shall install all products as recommended by the manufacturer. The Contractor shall replace qualified products not conforming to Specifications or not properly handled or installed at no additional cost to the Agency.

**00160.20** Preferences for Materials – Add "Federal highway funds are NOT involved on this Project."

#### **SECTION 00165 – QUALITY OF MATERIALS**

Comply with Section 00165 of the Standard Specifications modified as follows.

**00165.04 Costs of Testing** – Replace this section with the following sentence: All testing required to be performed by the Contractor will be at the Contractor's expense.

**00165.10(a)** Field-Tested Materials – Add the following sentence: The County follows the MFTP on its projects:

**00165.10(b) Nonfield-Tested Materials** - Add the following sentence:

The County follows the NTMAG on its projects.

**00165.91 Fabrication Inspection Expense** - In the paragraph that begins "Fabrication of certain items...", replace the sentence that begins "Therefore, each time that..." with the following sentence:

Therefore, each time that inspection by or on behalf of the Agency is necessary, payment to the Contractor will be reduced by an amount computed at the following rates:

In the paragraph that begins "This Subsection applies to all...", replace the first sentence, but not the bullet list, with the following sentence:

This Subsection applies to all fabricated items or manufactured Materials that are inspected by or on behalf of the Agency, which include, but are not limited to:

#### **SECTION 00170 – LEGAL RELATIONS AND RESPONSIBILITIES**

Comply with Section 00170 of the Standard Specifications supplemented and/or modified as follows:

**00170.00 General** - Add the following two paragraphs after the paragraph that begins "In any litigation, the entire...":

The characterization of provisions of the Contract as material provisions or the failure to comply with certain provisions as a material breach of the Contract shall in no way be construed to mean that any other provisions of the Contract are not material or that failure to comply with any other provisions is not a material breach of the Contract.

All rights and remedies available to the Agency under applicable Laws are incorporated herein by reference and are cumulative with all rights and remedies under the Contract.

**00170.01(a)** Federal Agencies - Add the following to the list of Federal Agencies:

National Oceanic and Atmospheric Administration

**00170.02 Permits, Licenses, and Taxes** – Add the following:

This project is to be constructed in Clackamas County road right of way and streets. There are no separate road opening permits required from Clackamas County to perform the work required under this contract. Required ODOT permits for work on Hwy 224 shall be the responsibility of the Contractor.

**00170.61(a)** Workers' Compensation - In the paragraph, replace "00170.70(d)" with "the Agreement".

Add the following subsection:

**00170.67 Fees** - The fee required by ORS 279C.825(1) will be paid by the Agency to the Commissioner of the Oregon Bureau of Labor and Industries under the administrative rules of the Commissioner.

**00170.70 Insurance** - Replace with the following:

See Clackamas County Public Improvement Contract.

Add the following as Additional Insureds under the Contract:

- Clackamas County and its officers, agents, and employees
- Clackamas County Board of Commissioners

**00170.72 Indemnity/Hold Harmless** - Delete and replace with the following:

See Clackamas County Public Improvement Contract.

Extend indemnity and hold harmless to the Agency and the following:

- Clackamas County and its officers, agents, and employees
- Clackamas County Board of Commissioners

**00170.85(b-1) Warranties for ODOT Projects** – Change the title and first sentence of this paragraph to the following:

**00170.85(b-1) Warranties for ODOT Projects and Federally-funded Local Agency Projects** – For those Contracts that are awarded by or through ODOT, or Contracts for Federally-funded projects that are awarded by the County, this 00170.85(b-1) warranty applies.

#### **SECTION 00180 - PROSECUTION AND PROGRESS**

Comply with Section 00180 of the Standard Specifications supplemented and/or modified as follows:

**O0180.06** Assignment of Funds Due Under the Contract - Delete first bulleted item.

**Subcontracting** - Add the following to subsection (a):

All contracts with subcontractors or suppliers shall have provisions making the contract assignable to the County, at the option of the County, if the Contractor terminates, goes out of business, declares bankruptcy, or otherwise is unable to perform provided that the County gives the subcontractor notice of assignment within fourteen (14) days of learning of the inability of the Contractor to perform.

The Engineer may revoke consent to subcontract. If the Engineer revokes consent to subcontract, the subcontractor shall be immediately removed from the Project Site.

**00180.40 Limitation of Operations** - Add the following to subsection (a):

The Contractor must provide, at a minimum, a 48-hour notice to the Clackamas County Project Manager in order to perform any work on Saturdays. Contractor shall obtain a permit from the City of Happy Valley in order to perform any work on Saturdays.

#### **00180.40(a) In General** - Add the following bullet:

- Work shall be performed between the hours of 7:00 AM and 7:00 PM Monday thru
  Friday and between the hours of 8:00 AM and 7:00 PM on weekends or holidays. If
  Contractor elects to allow traffic to travel on an aggregate surface, 24-hour flagging
  shall be required during this period.
- Contractor shall not perform any work on Sundays.

Add the following subsection:

**00180.40(c) Specific Limitations** - Limitations of operations specified in these Special Provisions include, but are not limited to, the following:

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Limitations	Subsection
Cooperation with Utilities	00150.50
Contract Completion Time	00180.50(h)
Traffic Lane Restrictions	00220.40(e)
In-water Work Restrictions	00290.34(a)
Noise Control	00290.32
Maintenance Under Traffic	00620.43

Be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this Subsection.

#### **00180.41** Project Work Schedules – Add the following:

1 :--:

A Type "B" schedule as detailed in the Supplemental Specifications is required on this Contract. In addition, a three-week look ahead schedule shall be prepared by the Contractor on a weekly basis and submitted to the Engineer. It shall include all construction activities planned for the following three-week period. The three-week look ahead schedule can be hand-written and shall be in a format agreed upon by the Contractor and the Engineer.

#### **00180.42** Preconstruction Conference - Add the following:

Before meeting with the Engineer for the preconstruction conference, hold a group utilities scheduling meeting with representatives from the utility companies involved with this project. Incorporate the utilities time needs into the Contractor's schedule submitted prior to the preconstruction conference.

Submit the following during the preconstruction conference unless otherwise directed:

- The names, addresses, and telephone numbers of two or more persons employed by the Contractor who can be reached day or night to handle emergency matters.
- Subcontractor's list including contact list for each subcontractor with phone numbers and addresses and work to be performed.
- List of personnel authorized to sign change orders and receive progress payment warrants.
- Videotape of private properties affected by construction per 00150.70.

A representative of each subcontractor shall be required to attend the pre-construction conference.

#### **00180.43** Commencement and Performance of Work - Add the following bullet item:

Conduct the work at all times in a manner and sequence that will insure minimal
interference with traffic. The Contractor shall not begin work that will interfere with
work already started. If it is in the County's best interest to do so, the County may
require the Contractor to finish a portion or unit of the project on which work is in
progress or to finish a construction operation before work is started on an additional
portion or unit of the project.

Add the following subsection:

**00180.50(h) Contract Time** - Complete all Work to be done under the Contract, except for seeding establishment, not later than November 3, 2017, except for concrete walks, sidewalk ramps and seeding establishment. Complete all remaining Work prior to November 17, 2017, except for seeding establishment.

#### **00180.70** Suspension of Work - Add the following to the first bullet item:

If the Inspector has reason to believe that any safety provisions are not being adhered to, the Inspector will immediately notify the Contractor's site foreman and/or the appropriate person and the County Project Manager. The purpose of this discussion is to determine the validity

of the alleged violation. This will also allow the Contractor a reasonable amount of time to correct or improve any of the provisions for the safety on this project. If the County Project Manager finds the problem still unresolved or uncorrected, they will notify the Contractor's Project Manager and the County's Risk Management Safety Analyst. If the County's Risk Management Safety Analyst finds that the job site contains any unresolved safety issues they will take appropriate action up to and including suspension of the Contractor's operations on all or part of the Work.

#### **00180.85(b) Liquidated Damages** - Add the following paragraph:

The liquidated damages for failure to complete the Work on time required by 00180.50(h) will be \$800 per Calendar Day \*.

\* Calendar Day amounts are applicable when the Contract time is expressed on the Calendar Day or fixed date basis.

#### **SECTION 00190 - MEASUREMENT OF PAY QUANTITIES**

Comply with Section 00190 of the Standard Specifications supplemented and/or modified as follows:

**00190.20** Contractor to Provide Vehicle Weigh Scales: Delete and replace subsection (g) with the following:

The Contractor must provide a weigh technician. The Agency will not provide one for the Contractor.

#### **SECTION 00195 - PAYMENT**

Comply with Section 00195 of the Standard Specifications supplemented and/or modified as follows:

Add the following subsection:

**00195.11 Fuel Cost Price Escalation/De-escalation** - There will be No fuel escalation/de-escalation clause in effect during the life of the Contract.

**00195.12(a) Steel Material Price Escalation/De-Escalation Participation** There will be no Steel Material Escalation /de escalation in this project

**00195.20(b) Significant Changed Work** - Replace the paragraph that begins "Any such adjustments..." with the following paragraph:

Any such adjustments may be less than, but will not be more than the amount justified by the Engineer on the basis of the established procedures set out in Section 00197 for determining rates. This does not limit the application of Section 00199.

Significant is defined as:

- a) An increase or decrease of more than 25 percent of the total cost of the Work calculated from the original proposal quantities and the unit contract prices; or,
- b) An increase or decrease of more than 25 percent in the quantity of any one major contract item.

For condition b) above, a major item is defined as any item that amounts to 10 percent or more of the original total contract price.

**00195.50** Progress Payments and Retained Amounts - Modify as follows:

00195.50(a) Progress Payments - Modify as follows:

(1) Progress Estimates - Delete the first sentence and replace with the following:

At a regular period each month to be determined at the Preconstruction Conference, the Contractor will make an estimate of the amount and value of pay item work completed and in place. This estimate will be submitted to the Project Manager for approval.

- (2) Value of Material on Hand Delete the section and replace with the following:
- (2) Value of Material on Hand The Contractor will also make an estimate of the amount and value of acceptable material to be incorporated in the completed work which has been delivered and stored as given in 00195.60(a).
- **(4) Limitations on Value of Work Accomplished** In the first sentence, change "Engineer's estimate" to "Contractor's estimate".

**00195.50 (b) Retainage** - Delete the first paragraph and replace with:

The amount to be retained from progress payments will be 5.0% of the value of Work accomplished, and will be retained in one of the forms specified in Subsection (c) below. The County will withhold Retainage from all force account and change order work.

**00195.50(c)** Forms of Retainage – Delete first paragraph and replace with:

Forms of acceptable retainage are set forth below in Subsections (1) through (3). "Cash, Alternate A" or "Cash, Alternate B" are the Agency-preferred forms of retainage. Unless the Contractor notifies the County otherwise in writing, the County will automatically hold retainage per paragraph (2) "Cash, Alternate B (No Interest Earned). If the Agency incurs additional costs as a result of the Contractor's election to use "Bonds and Securities", the Agency may recover such costs from the Contractor by a reduction of the final payment.

Delete and replace paragraph (2) with the following:

(2) Cash, Alternate B (No Interest Earned) – Retainage will be deducted from progress payments and held by the Agency until final payment is made in accordance with 00195.90, unless otherwise specified in the Contract.

**00195.50(c-1) Cash, Alternate A** - In the paragraph that begins "Any retainage withheld on...", replace "00195.90(d)" with "00195.50(d)".

**00195.50(d)** Release of Retainage – Delete this section and replace with the following:

(d) Release of Retainage - As the Work progresses, release of the amounts to be retained under (b) of this Subsection will only be considered for Pay Items that have been satisfactorily completed. For purposes of this Subsection, a Pay Item will be considered satisfactorily completed only if all of the Work for the Pay Item is complete and all contractual requirements pertaining to the Pay Item and Work have been satisfied. Work not included in a Pay Item, or which constitutes part of an uncompleted Pay Item, will not be regarded as satisfactorily completed Work for the purposes of this Subsection.

When the Work is 50% completed and upon written application of the Contractor and written approval of the Surety, the Engineer or Project Manager may reduce or eliminate retainage on remaining progress payments if the Work is progressing satisfactorily.

A determination of satisfactory completion of Pay Items or Work or release of retainage shall not be construed as acceptance or approval of the Work and shall not relieve the Contractor of responsibility for defective Materials or workmanship or for latent defects and warranty obligations.

#### **SECTION 00196 – PAYMENT FOR EXTRA WORK**

Comply with Section 00196 of the Standard Specifications supplemented and/or modified as follows:

**00196.91** Extra Work Allowance – Add the following new section:

The Bid Schedule of Prices contains a bid item for a pre-determined amount of Engineer ordered extra work. All Bidders shall reflect this same amount in their total Bid. No Bidder shall presume in the preparation of the bid or in the course of contract work that there will be a certain payment under that item or a certain order for extra work.

#### SECTION 00197 - PAYMENT FOR FORCE ACCOUNT WORK

Comply with Section 00197 of the Standard Specifications modified as follows:

**00197.20(a) General** - Replace the paragraph that begins "Except as modified by these..." with the following paragraph:

Except as modified by these provisions, Equipment use approved by the Engineer will bepaid at the rental rates given in the most current edition of the EquipmentWatch Cost Recovery (Blue Book) published by EquipmentWatch, a division of Penton Business Media, Inc., and available from EquipmentWatch (phone 1-800-669-3282) (http://equipmentwatch.com).

**00197.20(c-3) Rate Adjustment Factor** - Replace this subsection, except for the subsection number and title, with the following:

The rate adjustment factor used above will be determined by applying only the Model Year Adjustment to the Blue Book Rates. The Regional and User Defined Ownership/Operating Adjustments shall not apply.

00197.20(c-5) Limitations - Delete the paragraph that begins "The Blue Book..."

#### SECTION 00199 - DISAGREEMENTS, PROTESTS AND CLAIMS

Comply with Section 00199 of the Standard Specifications supplemented and/or modified as follows:

**O0199.40** Claim Decision; Review; Exhaustion of Administrative Remedies - Delete the entire section and replace with the following:

The Contractor must properly submit a claim as detailed in 00199.30.

(a) Engineer Claim Review - The Engineer or Project Manager will, as soon as practicable, consider and investigate a Contractor's properly submitted claim for additional compensation, Contract Time, or for a combination of additional compensation and Contract Time. Once the Engineer or Project Manager determines the Agency is in receipt of a properly submitted claim, the Engineer or Project Manager will arrange a meeting, within 28 Calendar Days, or as otherwise agreed by the parties, with the Contractor in order to present the claim for formal review and discussion. A person authorized by the Contractor to execute Change Orders on behalf of the Contractor must be present and attend all claim meetings.

If the Engineer or Project Manager determines that the Contractor must furnish additional information, records, or documentation to allow proper evaluation of the claim, the Engineer will schedule a second meeting, to be held within 14 calendar days, or as otherwise agreed by the parties, at which the Contractor shall present the requested information, records and documentation.

The Engineer or Project Manager will advise the Contractor of the decision to accept or reject the claim. If the Engineer or Project Manager finds the claim has merit, an equitable adjustment will be offered. If the Engineer or Project Manager finds the claim has no merit, no offer of adjustment will be made and the claim will be denied. The County intends to resolve claims at the lowest possible level.

If, at any step in the claim decision or review process, the Contractor fails to promptly submit requested information or documentation that the Agency deems necessary to analyze the claim, the Contractor is deemed to have waived its right to further review, and the claim will not be considered properly filed and preserved.

If the Engineer or Project Manager has denied a claim, in full or in part, for Contract Time only according to 00180.80, or has denied a claim, in full or in part, for correction of final compensation according to 00195.95, those disputed claims may then be resolved, in full or in part, at either of the two progressive steps of claim review procedure as specified in this Subsection. For all claims, all of the actions and review under each step of the review process shall occur before the review can be advanced to the next higher step.

**(b) Director Claim Review** - Upon request by the Contractor, the Department Director will review the Engineer or Project Manager's decision on the claim and advise the Contractor of the decision in writing. If the Director finds the claim has merit, and equitable adjustment will be offered. If the Director finds the claim has no merit, no offer of adjustment will be made and the claim will be denied.

Once the Engineer determines the Agency is in receipt of a properly submitted claim, the Engineer will arrange a meeting, within 21 Calendar Days or as otherwise agreed by the parties, with the Contractor in order to present the claim for formal review and discussion.

If the Engineer determines that the Contractor must furnish additional information, records or documentation to allow proper evaluation of the claim, the Engineer will schedule a second meeting, to be held within 14 Calendar Days or as otherwise agreed by the parties, at which the Contractor shall present the requested information, records and documentation.

The Director shall evaluate the claim based on the information provided by the Contractor to the Engineer or Project Manager. However, if the Department Director (or designee) determines that the Contractor must furnish additional information, records or documentation to allow proper evaluation of the claim, the Department Director (or designee) will schedule a meeting, to be held within 14 Calendar Days, or as otherwise agreed by the parties, at which the Contractor shall present the requested information, records and documentation.

The claim is subject to records review, if not all of the records requested by the Department Director (or designee) were furnished. If applicable, advancement of the claim is subject to the provisions regarding waiver and dismissal of the claim or portions of the claim.

The decision of the Department Director shall be the final decision of the Agency.

(c) Commencement of Litigation - If the Contractor does not accept the Director's decision, then the Contractor shall commence any suit or action to collect or enforce any claim filed in accordance with 00199.30 within a period of one (1) year following the mailing of the decision or within one (1) year following the date of "Second Notification", whichever is later. If said suit or action is not commenced in said one (1) year period, the Contractor expressly waives any and all claims for additional compensation and any and all causes of suit or action for the enforcement thereof that he might have had.

The Contractor must follow each step in order, and exhaust all available administrative remedies before resorting to litigation. Litigation of a claim that cannot be resolved through the process described above shall be initiated by filing a complaint in the Clackamas County Circuit Court for the State of Oregon.

In any litigation, the entire text of any order or permit issued by the County or any other governmental or regulatory authority, as well as any documents referenced or incorporated therein by reference, shall be admissible for purposes of Contract interpretation.

The Contract shall not be construed against either party regardless of which party drafted it. Other than as modified by the Contract, the applicable rules of contract construction and evidence shall apply. This Contract shall be governed by and construed according to the laws of the State of Oregon without regard to principles of conflict of laws.

The Contractor shall comply with 00170.00.

**00199.50 Mediation** - Delete the entire section.

#### **SECTION 00210 - MOBILIZATION**

Comply with Section 00210 of the Standard Specifications.

#### SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications modified as follows:

**00220.02** Public Safety and Mobility - Add the following bullets to the end of the bullet list:

- When performing trench excavation or other excavation across or adjacent to a travel lane on a roadway having a pre-construction posted speed greater than 35 mph, backfill the excavation, install surfacing, and open the roadway to traffic by the end of each work shift. Install a "BUMP" (W8-1-48) sign approximately 100 feet before the backfilled area and a "ROUGH ROAD" (W8-8-48) sign approximately 500 feet ahead of the "BUMP" sign. If this requirement is not met, maintain all necessary lane or shoulder closures and provide additional TCM, including flagging, at no additional cost to the Agency. Do not use temporary steel plating to reopen the roadway.
- Do not place work zone signs or supports that will block existing walkways or existing bikeways.

**00220.40(e)** Lane Restrictions - Replace the paragraph that begins "Do not close any..." with the following paragraph:

Do not close any traffic lanes and remove all barricades and objects from the roadway during the following periods:

Replace subsections (1) and (2) with the following:

#### (1) Weekdays:

- Between 7:00 a.m. and 8:30 a.m. and between 4:00 p.m. and 6:00 p.m. Monday through Friday
- (2) Weekends No Lane Restrictions

**00220.41 Bridge Work** - Before starting any grading or pavement removal at bridge ends, arrange so that all equipment, labor, and materials required to complete the pavement replacement work are on hand or are guaranteed to be delivered. Once grading and pavement removal begins, vigorously prosecute and complete this work. If Contractor elects to allow traffic to travel on an aggregate surface, 24-hour flagging shall be required during this period. Complete paving work in the shortest possible time.

Temporarily taper or bevel longitudinal and transverse grade changes or drop-offs resulting from grading and pavement removal work with asphalt concrete mixture to provide a smooth and safe transition. Construct and maintain a 1V:10H or flatter slope along longitudinal joints. Construct and maintain a 50 feet per 1 inch or flatter taper across transverse joints.

**00220.60(a-1) Contractor Responsibility** – Replace the bullet that begins "Maintain all detour..." with the following bullet:

Maintain all detour or stage construction surfacings.

**00220.60(a-2) Agency Responsibility** – Delete the bullet that begins "Maintain surfaces of detours and intermediate..."

Delete the bullet that begins "Maintain existing surfaces and shoulders..."

#### **SECTION 00225 - WORK ZONE TRAFFIC CONTROL**

Comply with Section 00225 of the Standard Specifications modified as follows:

**00225.01(c) Standards** - Add the following bullet to the end of the bullet list:

 ODOT "Traffic Control Plans Design Manual", available on the ODOT Traffic Control Plans Unit website.

**00225.02 General Requirements** - Add the following after the last paragraph of this subsection:

On post mounted signs, install a "ROAD WORK AHEAD" (W20-1-48) sign with "FINES DOUBLE" (R2-6-36) rider on the Springwater Road and Highway 224, according to the "TCD Spacing Table" shown on the standard drawings or as modified by the supplemental drawings. Also, install beyond each end of the Project, facing outgoing traffic, an "END ROAD WORK" (CG20-2A-24) sign a distance of  $(A \div 2)$  according to the "TCD Spacing Table" shown on the standard drawings or as modified by the supplemental drawings.

**00225.10 General** - In the paragraph that begins "Evaluate the condition...", replace the first sentence with the following sentence:

Evaluate the condition of TCD using the criteria shown in the most current version in effect of the American Traffic Safety Services Association (ATSSA) publication titled "Quality Guidelines for Temporary Traffic Control Devices and Features", available from the ATSSA website at www.atssa.com.

**00225.11(c-1) Temporary Signs** - Replace the bullet that begins "Type 2 riprap geotextile..." with the following bullet:

Geotextile fabric

**00225.17 Flagger Station Lighting** - Add the following paragraph to the end of this subsection:

In addition to the products listed on the QPL, tripod mounted or cart mounted flagger station lights that were purchased on or before January 1, 2014 and that were on the QPL before January 1, 2014 may also be used. Provide proof of the original purchase date to the Engineer.

00225.32 Traffic Control Supervisor –

In the paragraph that begins "The TCS duties include the...", replace the first two bullets with the following bullets:

- Monitor work zone traffic control measures, operations, activities, and conditions, including lane closures, lane or traffic shifts, detours, flagging operations, rolling slowdowns, and temporary traffic signal work.
- Review all applicable requirements of the Contract to ensure the convenience, safety and orderly movement of motor vehicle, bicycle, and pedestrian traffic.

In the paragraph that begins "The TCS duties include the...", replace the bullet that begins "Submit stamped working drawings that include..." with the following bullet:

 If the Contractor is using a modified Agency TCP or not using the Agency TCP, ensure stamped working drawings that include the revisions are submitted according to 00225.05 and 00150.35.

In the paragraph that begins, "The TCS duties include the...", replace the bullet that begins "Provide supervision and oversight..." with the following bullet:

Provide oversight in maintaining all TCM on the Project Site.

Replace the paragraph that begins "Do not designate the Project Superintendent..." with the following paragraph:

When the bid schedule includes an item for a TCS, do not designate the Project superintendent as the TCS.

**00225.41(b-4) Temporary Sign Supports** - Replace the bullet that begins "Do not tip over TSS..." with the following bullet:

• Do not tip over any TSS that is exposed to traffic, unless approved by the Engineer or the TSS is protected from traffic by a barrier system.

**00225.41(c) Sign Flag Boards and Sign Flags** - Replace this subsection, including subsections 00225.41(c-1) and 00225.41(c-2), with the following subsection:

**00225.41(c)** Sign Flag Boards - Install two sign flag boards, as shown or specified.

**00225.41(e) Inconsistent Temporary Signs** - Replace the paragraph that begins "Ensure that all temporary..." with the following paragraph:

Ensure that all temporary signs are properly used and consistent with the work zone. Cover all inconsistent temporary signing until the sign messages are applicable to the Work that is beginning. When signage is no longer required for staging or shift Work, remove all temporary signs, sign flag boards, supports, sign covers, and ballast associated with the staging or shift Work.

**00225.88 Traffic Control Supervisor** - Replace this subsection, except for the subsection number and title, with the following:

The quantities of the TCS will be measured on the unit basis, and will be measured when a Traffic Control Inspection Report is submitted according to 00225.32 and one or more of the following occur:

- Work is performed in roadways or shoulders of roadways with an ADT greater than 10,000.
- TCS performs duties described in 00225.32 as requested by the Engineer.

A maximum quantity of two TCS will be allowed for each 24 hour period. A maximum of one TCS will be allowed for a single construction work shift unless otherwise approved.

**00225.96 Temporary Electrical Signs** - Replace the paragraph that begins "Items (a) and (b)..." with the following paragraph:

Items (a) and (b) include furnishing, mounting, operating, moving, and removing signs and supports, regardless of whether the signs are mounted on supports, trailers, vehicles, or equipment.

#### **SECTION 00280 - EROSION AND SEDIMENT CONTROL**

Comply with Section 00280 of the Standard Specifications modified as follows:

**00280.00 Scope** - Add the following paragraph to the end of this subsection:

The Agency's NPDES 1200-CA Permit is applicable to the Project.

**00280.30 Erosion and Sediment Control Manager** - Replace the paragraph that begins "Designate and provide an ESCM..." with the following paragraph:

If the Agency's NPDES 1200-CA Permit is applicable to the Project, designate and provide an ESCM that possesses a valid ODOT ESCM certificate or has successfully completed an erosion control training that is acceptable to the Engineer.

**00280.42(a) Soil Exposure Limitations** - Replace this subsection, except for the subsection number and title, with the following:

Stabilize all exposed areas within 4 Calendar Days of disturbance using methods that do not rely solely upon germination to control erosion.

**00280.42(b) Temporary Stabilization** - Delete the bullet that begins "Every 14 days...' and delete the bullet that begins "Upon approval, active work areas...".

**00280.48 Emergency Materials** - Add the following paragraphs after the paragraph that begins "Provide, stockpile, and protect...":

Provide and stockpile the following emergency materials on the Project site:

Item	Quantity
Matting, Type C	
Sediment Barrier, Type 8	100 Foot
Check Dam, Type 1	2 Each

**00280.80(d)** Area Basis - Replace this subsection, except for the subsection number and title, with the following:

Area basis items will be measured on the area basis along the lines and grades of the surface area actually covered as shown or as required.

**00280.90 Payment** - Replace pay item(s) (e), (f), (h), (l), (n), (o), (r), and (s) with the following pay item(s):

(e)	Temporary Mulching,	Acre
	Matting, Type	
(h)	Check Dam, Type	Each
(I)	Compost Filter Sock, Inch	Foot
(n)	Construction Entrance, Type	Each
(o)	Tire Wash Facility, Type	Each
(r)	Inlet Protection, Type	Each

(5	<ul><li>Sediment Barrier, Type</li></ul>	Each or Foot
12	) Seulitietii Dattiet, Type	Lacii di i doi

Add the following paragraph(s) after the paragraph that begins "Item (b) includes protecting...":

In item (e), the word "Hydromulch", "Straw", or "Compost" will be inserted in the blank.

In item (I), the diameter of the compost filter sock will be inserted in the blank.

In item(s) (f)), (h), (n), (o), (r), and (s), the type will be inserted in the blank.

Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for constructing laps, seams, joints, wraps, overlaps, joint overlaps, or patches unless the Engineer orders additional amounts in excess of the minimum. For laps, wraps, or overlaps that that have been ordered by the Engineer and exceed the minimum or specified length or width, payment will be made for the added lap, overlap, or wrap length or width at the Contract unit price.

#### **SECTION 00290 - ENVIRONMENTAL PROTECTION**

Comply with Section 00290 of the Standard Specifications modified as follows:

**00290.10 Staging and Disposal Sites** - Add the following to the end of this subsection:

Use the following staging (disposal) site(s):

- Site Type Staging
- Location Springwater Rd under existing Bridge
- Access Ingress/egress via Carver Mobile Home Park Private Drive
- Available Area Approximately 1000 square feet

No other sites may be used on this Project, including non-Agency sites. Delineate the limits of the site with orange plastic mesh fencing from the QPL for the duration of the Project. Remove the fencing when the Project is complete and the site has been restored to preconstruction conditions.

#### Restore the site by:

- Removing all imported fabric, rock, and other construction debris.
- Smoothing the ground.
- · Reseeding all disturbed earth.

#### **00290.30(a)** Pollution Control Measures - Add the following subsections and bullets:

#### (7) Water Quality:

- Do not discharge contaminated or sediment-laden water, including drilling fluids and waste, or water contained within a work area isolation, directly into any waters of the State or U.S. until it has been satisfactorily treated (for example: bioswale, filter, settlement pond, pumping to vegetated upland location, bio-bags, dirt-bags). Treatment shall meet the turbidity requirements below.
- Do not cause turbidity in waters of the State or U.S. During construction, monitor instream turbidity and inspect all erosion controls daily during the rainy season and weekly during the dry season, or more often as necessary, to ensure the erosion controls are working adequately meeting treatment requirements.
- Document all turbidity monitoring efforts and maintain documentation on-site.
- If construction discharge water is released using an outfall or diffuser port, do not exceed velocities more than 4 feet per second, and do not exceed an aperture size of 1 inch.
- If monitoring or inspection shows that the erosion and sediment controls are ineffective, mobilize work crews immediately to make repairs, install replacements, or install additional controls as necessary.
- Underwater blasting is not allowed.
- Implement containment measures adequate to prevent pollutants or construction and demolition materials, such as waste spoils, fuel or petroleum products, concrete cured less than 24 hours, concrete cure water, silt, welding slag and grindings,

- concrete saw cutting by-products, sandblasting abrasives and paint or coatings, from entering waters of the state or U.S.
- End-dumping of riprap within the waters of the state or U.S. is not allowed. Place riprap from above the bank line.
- Cease project operations under high flow conditions that may result in inundation of the project area, except for efforts to avoid or minimize resource damage.
- The Project Manager retains the authority to temporarily halt or modify the Project in case of excessive turbidity or damage to natural resources.

**00290.30(b) Pollution Control Plan (PCP)** – Add the following to the beginning of the bullet list:

 Contractor's name and project identification information including those responsible for implementing the PCP.

**00290.34(a)** Regulated Work Areas - Add the following to the end of this subsection:

The regulated work area is the area within the ordinary high water (OHW) elevation that is shown on the plans.

• For this Project, the regulated work area is the area at or below 87.6 feet. No work shall be performed within this work area (below OHW).

**00290.34(b) Prohibited Operations** - Add the following bullets to the end of this subsection:

Allow entry within the Regulated Work Area.

## **SECTION 00305 - CONSTRUCTION SURVEY WORK**

Section 00305, which is not a Standard Specification, is included for this Project by Special Provision.

## **Description**

**00305.00 Scope** - This work consists of all surveying activities necessary to control the many phases of work required to construct the Project to the lines and grades as shown, specified, or established.

Make all supporting computations and field notes required for control of the work and as necessary to establish the exact position, orientation, and elevation of the work from control stations, including furnishing and setting construction stakes and marks, reference marks, and additional control stations.

Plans, specifications and other data necessary to lay out the work will be available for inspection at the Project Manager's office.

## 00305.01 Definitions:

**Control Network** - An array of control stations either established by the Contractor or provided by the Agency.

**Control Station** - Any item identified in the Project records as having a position and/or elevation on the Project datum and intended to be used to control the many phases of the construction work.

**Reference Stakes** - Stakes set away from but with information relating back to the intended location and/or grade.

**Slope Catch** - The location where a design slope intersects the existing ground and where excavation or embankment work should begin to provide the intended earthwork.

**Slope Staking** - The process of using measurements and calculations in the field to determine the slope catch. Slope staking shall normally include setting stakes to mark the slope catch and setting a reference stake for every catch stake.

**Stakes** - Stakes, nails, marks, string lines, or other devices or mechanisms set or established for the purpose of indicating or controlling the location, orientation, or grade of any feature intended for construction, or for the purpose of limiting or influencing the construction work.

**Staking** - The act of placing stakes.

**Survey Marker** - Any survey monument, control station, or stake.

**Survey Monument** - Any natural or man-made item specified or identified in a property deed, boundary survey, government document, or other instrument of public record, when the purpose of said item is to mark or reference a property boundary, geographical location, elevation, or other position.

**Surveyor** - The individual designated by the Contractor and licensed in the state of Oregon as a Professional Land Surveyor and placed in "responsible charge" of the survey work as defined in ORS 672.002(6)(b).

**Temporary Bench Mark (TBM)** - A control station established for the purpose of providing vertical control for the Project. A TBM may or may not have an established horizontal position.

**00305.02 Mandatory Pre-Survey Conference** - The prime Contractor, subcontractors, surveyor, survey crew leader, and all surveying personnel who are to be involved in the survey work shall meet with the Project Manager two weeks prior to beginning survey work. The purpose of this meeting will be to discuss methods and practices of accomplishing required survey work.

**00305.03 Review by the Engineer** - The Engineer may periodically review the notes, calculations and layout work, including field locations, for compliance with these specifications. Survey work that does not meet the tolerances in 00305.40 may be rejected, and the work redone at the Contractors expense to meet the tolerances.

Review by the Engineer does not constitute approval or acceptance of the work, nor does it relieve the Contractor of responsibility for performing work in conformance with the plans and specifications.

## 00305.04 Agency Responsibilities:

- Provide copies of plans and specifications
- Establish initial horizontal and vertical control stations in the proximity of the Project
- Provide horizontal and vertical alignment data
- Provide cross section finish grade elevations
- Perform final "as constructed" measurements
- Indicate on the plans any survey monuments that are likely to be disturbed during construction

## **00305.05** Contractor Responsibilities - Perform or provide the following items of work:

- Make calculations, field notes and survey drawings for the layout and control of the work as are necessary to construct the Project as specified
- Provide original or copies of notes, calculations and drawings as requested
- Preserve survey monuments and control stations according to 00305.70 and as governed by applicable law
- Check and augment control stations as necessary to control the Project
- Establish additional control stations as necessary to control the Project
- Perform slope staking necessary for construction of earthwork including intersections and matchlines
- Set stakes defining limits for clearing. Set stakes defining approximate right-of-way and easements. Tie all survey monuments that are within the limits of construction.
- Set stakes to define construction centerline, centerline offsets, detour lines, or other lines necessary for control of the Project work
- Set stakes to define the work, that may include but is not limited to the following:

- Roadway location and grade
- Fences and gates
- Guardrail, barrier, barricades, and associated features
- Traffic delineators, reflectors, and guide devices
- Temporary and permanent signing \*
- Temporary and permanent pavement striping and pavement marking devices
- Poles and footings, cabinets, junction boxes, sensors, and other features associated with illumination and signal facilities \*
- Curbs, walks, stairs, walls, mailboxes, and other miscellaneous structures \*
- Pipes, manholes, inlets, weirs, settlement basins and other drainage and water quality structures and facilities \*
- Landscaping items
- Earthwork features including guardrail flares and mounds, berms, and mounds
- Buildings and other structures and facilities
- Environmental impact mitigation features
  - \* including field verification of fit and functionality or as instructed by the Engineer
- Remove and dispose of all flagging, lath, stakes and other temporary staking material after the Project is completed

**00305.06 Survey Methods** - Survey procedures shall be appropriate for the equipment being used and be according to acceptable standards and practices.

New survey procedures that are not according to acceptable standards and practices shall be submitted to the Engineer for review 21 days prior to conducting the work. The surveyor may be required to demonstrate the capabilities, accuracy, and reliability of the intended procedure. The Engineer will evaluate the procedure and intended application and provide approval or rejection within 21 days. Work may proceed immediately upon approval of procedures by the Engineer.

**00305.07 Survey Work Records** - Contractor's survey personnel shall maintain a Project daily record of work performed by the survey crew. The daily record shall contain the date, crew names, type and location of work, and work accomplished. Upon request, furnish a copy of diary entries to the Engineer. Furnish a final copy of the diary when the Project is complete.

Contractor's survey personnel shall make all field notes and calculations in a manner consistent with current Agency practices and on forms provided or approved by the Engineer. Computations, survey notes and other records necessary to accomplish the work shall be neat, legible and complete. Furnish copies of computations, notes and other records when requested by the Engineer.

Upon completion of construction staking and prior to final acceptance of the Contract, furnish to the Engineer, computations, survey notes, Project records and other data used to accomplish the work. Include an itemized list of the data.

All data and original documentation associated with this Project will become the property of the Agency.

**00305.08 Communication With the Surveyor** - The Engineer has the right to communicate directly with the surveyor.

**00305.09 Electronic Data** - The Engineer will not be responsible for any data translations. Compressed data provided by the Engineer or the Contractor will be in a "self-expanding executable" format. The method of exchange of electronic data will be mutually agreed upon at the pre-survey conference.

## (a) Data Formats Provided by the Engineer:

- CAD (graphics) Files Autodesk Land desktop v.3 format
- Horizontal Control Coordinates ASCII Coordinate File format
- Elevations ASCII Elevation File format
- Horizontal Alignments Autodesk Land desktop v.3 format
- Vertical Alignments Autodesk Land desktop v.3 format
- Cross Section Data Cross Section or Station, Offset and Elevation (SOE) File Format

## (b) Data Formats Provided by the Contractor:

- CAD (graphics) Files Autodesk Land desktop v.3 format
- "As Staked" Coordinate Data ASCII Coordinate File format
- Confidence Points ASCII Coordinate File format
- Vertical Control Point Elevations ASCII Elevation File format
- Coordinates of Miscellaneous Survey Points Set ASCII Coordinate File format
- **(c) Data Format Details** Data exchanged between the Agency and the Contractor will be in the following formats as referred to in this subsection:

## (1) ASCII Coordinate File Format:

Point ID Northing Easting Elevation Feature Description

- Point IDs are alphanumeric up to 8 characters long
- Coordinates/Elevations are decimal numbers in the units required by the Project
- Feature names are up to 8 character alphanumeric codes
- Descriptions may be up to 27 characters and may contain any combination of printable ASCII characters.
- Columns may be separated by spaces or commas
- Name all ASCII coordinate files with an extension of .CRD

Example: 105 216473.675 576231.905 102.562 SET\_NTW (13 mm) iron rod

## (2) ASCII Elevation File Format:

Point ID Elevation Description

- Point IDs are alphanumeric up to 8 characters long
- Elevations are decimal numbers in the units required by the Project

- Descriptions may be up to 27 characters and may contain any combination of printable ASCII characters
- Columns may be separated by spaces or commas
- Name all ASCII elevation files with an extension of .ELV

Example: 425 542.768 TBM12, n.w. bolt on lum.

#### **Materials**

**00305.10 Materials** - Furnish all materials including supplies, clothing, and incidentals required to accomplish the work. Use materials of good quality and suitable for the purpose intended. Stakes, hubs, and guinnies are to be of sufficient length to provide a solid set in the ground. Mark the stakes in such a way as to remain legible for the intended duration. Provide and use safety equipment required by State and federal regulations.

## **Equipment**

**00305.20 Survey Equipment** - Furnish survey equipment required to accomplish the work that meets the following requirements:

- Components designed to work together
- Suitable for the purpose intended
- Capable of achieving specified tolerances
- In good operating condition
- Maintained to meet manufacturer's specifications
- Kept in proper adjustment throughout the duration of the Project

Submit documentation on survey equipment that is new to the industry, to the Engineer for review 21 days prior to its use. The Engineer will evaluate the equipment and intended application and provide approval or rejection within 21 days. Equipment may be used immediately upon approval by the Engineer.

## Labor

**00305.30 Personnel** - Provide technically qualified personnel capable of performing required tasks in a timely and accurate manner. Perform work under the direction and review of the Surveyor.

The Surveyor is responsible for:

- Maintaining registration as a Professional Land Surveyor in the State of Oregon
- Performing or validating requirements for procedures and testing of equipment
- Maintaining familiarity with the site conditions and progress of the Project
- Becoming familiar with the plans and specifications
- Determining notes and documentation required for types of survey work
- Determining the accuracy required for each survey stake
- Using appropriate equipment and methods
- Keeping close communication with the Project inspector(s), Project Manager, and Agency survey crews working on the Project

- Being familiar with the varying construction survey requirements of each aspect of the Project
- Notifying the Project inspector of conflicts and changes necessary due to utilities, match point variations, design revisions, or other variables

The survey crew leader is responsible for:

- becoming familiar with the plans and specifications
- keeping close communication with the Project inspector(s), Project Manager, and Agency survey crews working on the Project
- Notifying the Project inspector of conflicts and changes necessary due to utilities, match point variations, design revisions, or other variables

#### Construction

**00305.40 Construction Staking Tolerances** - Set stakes or other devices at an adequate frequency and within the following tolerances:

Item	Horizontal	Vertical
Box Culverts	± 30 mm (± 0.10 ft.)	± 15 mm (± 0.05 ft.)
Bridge Substructures	$\pm$ 10 mm ( $\pm$ 0.03 ft.)	± 10 mm (± 0.03 ft.)
Bridge Superstructures	$\pm$ 5 mm ( $\pm$ 0.02 ft.)	$\pm$ 5 mm ( $\pm$ 0.02 ft.)
Clearing and Grubbing Stakes	$\pm$ 300 mm ( $\pm$ 1.00 ft.)	n/a
Construction Centerline Control Points	$\pm$ 15 mm ( $\pm$ 0.05 ft.)	n/a
Construction Centerline Station Points	$\pm$ 30 mm ( $\pm$ 0.10 ft.)	n/a
Curbs, Walks, and Bikepaths	$\pm$ 10 mm ( $\pm$ 0.03 ft.)	$\pm$ 5 mm ( $\pm$ 0.02 ft.)
Grade Stakes - Roadway Subgrade	$\pm$ 50 mm ( $\pm$ 0.20 ft.)	$\pm$ 15 mm ( $\pm$ 0.05 ft.)
Grade Stakes - Top of Rock	$\pm$ 50 mm ( $\pm$ 0.20 ft.)	$\pm$ 10 mm ( $\pm$ 0.03 ft.)
Grade Stakes - Roadway Finish	$\pm$ 30 mm ( $\pm$ 0.10 ft.)	$\pm$ 5 mm ( $\pm$ 0.02 ft.)
Manholes, Inlets, and Culverts	$\pm$ 30 mm ( $\pm$ 0.10 ft.)	$\pm$ 10 mm ( $\pm$ 0.03 ft.)
PCC Pavement	$\pm$ 30 mm ( $\pm$ 0.10 ft.)	$\pm$ 5 mm ( $\pm$ 0.02 ft.)
Slope Stakes and References	$\pm$ 100 mm ( $\pm$ 0.30 ft.)	$\pm$ 30 mm ( $\pm$ 0.10 ft.)
Traffic Markings	$\pm$ 50 mm ( $\pm$ 0.20 ft.)	n/a
Walls - Retaining, MSE, Sound, etc.	$\pm$ 30 mm ( $\pm$ 0.10 ft.)	$\pm$ 15 mm ( $\pm$ 0.05 ft.)
Wetland Mitigation Control Stakes	$\pm$ 50 mm ( $\pm$ 0.20 ft.)	$\pm$ 50 mm ( $\pm$ 0.20 ft.)
Luminaire and Signal Poles (incl. ftgs.)	$\pm$ 50 mm (± 0.20 ft.)	$\pm$ 10 mm ( $\pm$ 0.03 ft.)

Miscellaneous items not listed above will have a horizontal and vertical tolerance of 50 mm (0.20 foot), unless otherwise directed. Features that are to be constructed flush to another surface should take on the same tolerance as that surface.

Tolerances for special circumstances will be discussed at the pre-survey meeting.

**00305.41 Slope Stakes and References** - Set slope stakes and references on both sides of centerline at 20 m (50 foot) stations and at terrain breaks and changes in the typical section. Establish slope stakes in the field as the actual point of intersection of the design roadway slope with the existing ground line. Direct staking of the theoretical (computer generated) slope stake catch point requires prior approval of the Engineer.

Set slope stake references farther out from centerline than the actual catch point. Include all reference point and slope stake information on the reference stakes.

If an automated slope staking routine is intended to be used, the system shall be able to perform the proper superelevation, lane transitions, and benching, as well as duplicate other details in the design surface. The system shall record field modifications made to the final catch slopes. Any modifications shall be recorded and provided to the Engineer.

Record the actual as staked (three dimensional) position of the slope and reference stakes. Prepare field notes showing slope stake and reference information, and provide to the Engineer.

**00305.42 Clearing Limits** - Set clearing limit stakes according to Section 00320. Space clearing limit stakes at intervals not greater than 20 m (50 feet) or as directed.

**00305.43 Grade Stakes** - Set grade stakes or other control for grade elevation and horizontal alignment. Set grade stakes at each grade break line. Set additional points at intervals, as necessary, not to exceed the width of the grading equipment, or as approved by the Engineer. Set these rows at 20 m (50 foot) stations or as required in special situations, as in road connections and other areas where conditions require tighter spacing of grade stakes to assure grade and alignment.

**00305.45 Pipes and Culverts** - Stake pipes and culverts to fit field conditions. Their location may be different from the plans. Perform the following:

- Determine the roadbed slope catch points at the inlet and outlet of pipes and culverts
- Set reference point offsets to pipes and culverts. Record information necessary to determine structure length and end treatments.
- Stake ditches or grade to make pipes and culverts functional
- Submit a copy of the field notes to the Engineer by the next working day following completion of the staking work

**00305.47 Manholes and Inlets** - Determine the location of manholes, inlets, siphon boxes, slope protectors, and other similar structures. This may require an approved field adjustment to the planned location in order to avoid obstacles or assure placement at the low point. Determine the elevation of the center of the grate.

Set a stake referencing the center of the structure. Set a guard stake with the following information written on it:

- Type of structure
- Centerline station
- Centerline offset
- Reference distance
- Cut or fill to top of structure
- Center of structure elevation

Establish a reference line to control the alignment of the structure.

**00305.52 Pavements** - Set stakes or other control devices to control the location and elevation of asphalt and PCC pavement as shown. Provide surveying or survey-related activity necessary to control grade, thickness, and smoothness as required.

**00305.53 Signs, Signals, and Illumination** - Determine the exact location of posts, poles, cabinets, junction boxes, detectors and other similar appurtenances and their relative location to roadway features such as edge of pavement, curbs, sidewalks, sidewalk ramps, lane lines, etc., by means of field measurements. This may require an approved field adjustment to the planned location in order to avoid obstacles or ensure its placement in a functional location. Field verify length of poles, posts, mast arms, and tenon locations and field verify orientation of triangular bases for poles, and submit documentation to the Engineer.

Set a stake referencing the center of the item. Set a guard stake with the following information written on it:

- Description of item (by plan number if applicable)
- Centerline station
- Centerline offset distance
- Cut or fill from reference point (and what point the cut or fill is to)
- Intended elevation

If the orientation of the item is significant and is not clear, establish a reference line for the skew of the item.

## **Temporary**

**00305.60 Temporary Protection and Direction of Traffic** - Provide all work zone signing conforming to "ODOT Signing and Flagging Standards for Short Term Work Zones 1998" and "Short Term Traffic Control Handbook for ODOT Survey Crews 1998".

Signs for use by the survey crew may be constructed of plywood, sheet aluminum or fabric. Signs, flaggers and flagger equipment shall conform to the requirements of Section 00225.

#### **Maintenance and Monumentation**

## 00305.70 Preservation of Survey Markers:

- (a) Project Control Points Established by the Engineer Maintain, relocate or replace existing survey monuments, control points, and stakes, as determined by the Engineer. Perform the work to produce the same level of accuracy as the original monument(s) in a timely manner, and at the Contractor's expense.
- **(b) Monuments of Record** Preserve survey monuments according to 00170.90, and ORS 209.140 and 209.150. If such monuments are to be disturbed or destroyed, comply with requirements of these ORS at the Contractor's expense.

## Measurement

**00305.80** General - No separate measurement will be made for construction survey work.

## **Payment**

**00305.90** General - Payment for performing all construction survey work will be made at the Contract lump sum amount for the item "Construction Survey Work".

Payment will be payment in full for furnishing all material, equipment, labor, and incidentals necessary to complete the work as specified. Payment includes all temporary protection and direction of traffic measures including flaggers and signing necessary for the performance of the construction survey work.

No separate payment will be made for preparing surveying documents including but not limited to office time, preparing and checking survey notes, and all other related preparation work.

The amount to be allowed for "Construction Survey Work" in the progress payments will not be in excess of the reasonable value of the surveying work performed under this specification as said reasonable value is estimated by the Engineer.

Costs incurred as a result of survey errors will be borne by the Contractor. Such costs include price adjustments for failure to meet requirements of the construction specifications, repair or removal and replacement of deficient product, and over-run of material.

## SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications modified as follows:

**00310.41(a) General** - Replace this subsection, except for the subsection number and title, with the following:

Where an abutting structure or part of a structure is to be left in place, make clean, smooth, vertical cuts with a saw or other approved cutting device. Avoid operations that may damage any portion of the remaining structure.

**00310.80 Measurement** - Add the following to the end of the length and area bullet:

Asphalt pavement cutting will be the length of the actual cut based on a depth of 10 inches. If the depth is greater than 10 inches, the length will be adjusted by converting to an equivalent number of feet on a proportionate length basis.

**00310.92 Separate Item Basis** - Add the following pay item to the pay item list:

## **SECTION 00320 - CLEARING AND GRUBBING**

Comply with Section 00320 of the Standard Specifications modified as follows:

**00320.90 Payment** - Replace the paragraph that begins "No separate or additional payment..." with the following paragraph:

No separate or additional payment will be made for work zone fencing.

## **SECTION 00330 - EARTHWORK**

Comply with Section 00330 of the Standard Specifications modified as follows:

**00330.03 Basis of Performance** - Add the following paragraph to the end of this subsection:

Perform all earthwork under this section on the excavation basis.

**00330.41(a-5) Waste Materials** - Replace this subsection, except for the subsection number and title, with the following:

Unless otherwise specifically allowed and subject to the requirements of 00280.03, dispose of materials, classed as waste materials in 00330.41(a-3) and 00330.41(a-4), outside and beyond the limits of the Project and Agency controlled property according to 00290.20. Do not dispose of materials on wetlands, either public or private, or within 300 feet of rivers or streams.

**00330.94 Embankment Basis Payment** - Delete the paragraph that begins "Excavation of unsuitable...".

## **SECTION 00350 - GEOSYNTHETIC INSTALLATION**

Comply with Section 00350 of the Standard Specifications modified as follows:

**00350.10 Materials** - Add the following to the end of this subsection:

Provide manufacturer's certifications complying with 02320.10(c) for the following geosynthetic(s):

	Certification		
Geotextile	Level A	Level B	
Geogrid			
Tensar, Type 2 or equ	ivalentX		

## SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL

Comply with Section 00405 of the Standard Specifications.

## **SECTION 00440 - COMMERCIAL GRADE CONCRETE**

Comply with Section 00440 of the Standard Specifications modified as follows:

**00440.13 Field-Mixed Concrete** - Add the following paragraph to the end of this subsection:

Pre-packaged dry blended concrete from the QPL may be used for work items listed in 00440.14(a).

## SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications modified as follows:

**00445.11(e) Tracer Wire** - Replace the sentence that begins "Use 12-gauge stranded..." with the following sentence:

Use 12-gauge stranded or solid copper insulated high molecular weight polyethylene (HMW-PE) tracer wire or 12-guage copper clad steel reinforced insulated HMW-PE tracer wire.

## SECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS

Comply with Section 00470 of the Standard Specifications.

## SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES

Comply with Section 00490 of the Standard Specifications.

## **SECTION 00495 – TRENCH RESURFACING**

Comply with Section 00495 of the Standard Specifications.

## **SECTION 00587 - BRIDGE RAILS**

Comply with Section 00587 of the Standard Specifications modified as follows:

Add the following subsection:

**00587.20 Working Drawings** – For metal rails the previous stamped drawings will be provided upon request.

**00587.42** Concrete Rails – Modify this subsection as follows:

**Surface Finish** – Replace this paragraph with the following paragraph:

- Bridge concrete railing was finished and painted, however light surface /cosmtic damage has occurred and will need to be refinished and painted to match as needed and directed. (from the top outside edge to the bottom inside edge where it joins to the sidewalk)
- The galvanized railing will require adjustment, completion of bolting, removal of overspray paint, removal of rust and field regalvanization.

**00587.90 Payment** - The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item
(a) Concrete Rail Refinishing and Repainting.
(b) Galvanized Railing Completion

Unit of Measurement
Square Foot
Linear Foot

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

## **SECTION 00620 - COLD PLANE PAVEMENT REMOVAL**

Comply with Section 00620 of the Standard Specifications modified as follows:

**00620.40(a) General** - Replace this subsection, except for the subsection number and title, with the following:

Remove the existing pavement to the depth, width, grade and cross section shown or as directed. The use of a heating device to soften the pavement is not allowed.

**00620.43 Maintenance Under Traffic** - Replace this subsection, except for the subsection number and title, with the following:

Traffic will be allowed on the cold planed surface up to 3 Calendar Days after removing the existing surface. Sweep and clean the cold planed surface before opening to traffic.

Before beginning paving operations, make repairs to the existing cold planed surface as directed. Payment for the repairs will be made according to 00195.20.

#### SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications modified as follows:

**00640.44 Surface Tolerance** - Replace the paragraph that begins "The finished surface and the surface of each underlying..." with the following paragraph:

The finished surface and the surface of each underlying layer of the aggregate shall parallel the established grade and cross section for the finished surface within 0.04 foot.

## **SECTION 00730 - EMULSIFIED ASPHALT TACK COAT**

Comply with Section 00730 of the Standard Specifications modified as follows:

**00730.90 Payment** - Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for emulsified asphalt tack coat. Approximately 5 tons of emulsified asphalt in tack coat will be required on this Project.

## SECTION 00744 - MINOR HOT MIXED ASPHALT CONCRETE (MHMAC) PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

**00744.11(a) Asphalt Cement** - Add the following to the end of this subsection:

Provide PG 70-22 grade asphalt cement for this Project.

**00744.49 Compaction** - In the paragraph that begins "Determine compliance with...", replace "WAQTC T 8" with "AASHTO T 355".

Add the following subsection:

**00744.51 Opening Sections to Traffic** - Schedule work so that, during the same shift, the surfaces being paved are paved full width and length through the top base course before opening to traffic. Traffic will be allowed on the top base course up to 2 Calendar Days.

Before beginning wearing course paving operations, make repairs to the existing surface as directed. Payment for the repairs will be made according to 00195.20.

## SECTION 00749 - MISCELLANEOUS ASPHALT CONCRETE STRUCTURES

Comply with Section 00749 of the Standard Specifications.

## SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications.

Add the following subsections:

**00759.02 Required Submittals** - Before the preplacement conference, submit the following:

(a) Working Drawings - Before the preplacement conference, submit six copies of unstamped working drawings according to 00150.35 for all sidewalk ramp work. Include field verification of each ramp location, and all dimensions and grades necessary to demonstrate compliance with the Standard Drawings and Plans. Notify the Engineer of

any deficiencies or non-compliance with the Standard Drawings or Plans. The Engineer will provide additional or modified Plans as needed.

- **(b) Sidewalk Ramp Plan** At least 12 Calendar Days before the sidewalk ramp work is scheduled to begin, submit a plan for accomplishing all phases of the sidewalk ramp work, including the following:
  - Surface preparation
  - Compliance with working drawings and details submitted under 00759.02
  - Compliance with current Standard Drawings and Plans
  - Waste handling and disposal
  - All other pertinent information

Do not begin any sidewalk ramp work before the plan for completing the work has been approved.

Material ordered or work done before the Engineer reviews and returns the documents will be at the Contractor's risk.

Add the following subsection:

**00759.03 Preplacement Conference** - Before beginning any sidewalk ramp work, meet with the Contractor's supervisory personnel and quality control manager, any sidewalk ramp subcontractors' supervisory personnel, and the Engineer at a mutually agreed upon time.

If the Contractor's personnel change, or if the Contractor proposes a significant revision to the plan for accomplishing the sidewalk ramp work, the Engineer may require additional preplacement conferences.

Add the following subsection:

**00759.22 Smart Level** - Slopes will be verified with the use of a 24 inch SmartTool level model 92379, a 6 inch SmartTool level model 92346. The 6 inch level will only be used to measure counter slope when there is a concrete gutter. All other locations will use the 24 inch level to measure slopes.

**00759.46 Concrete** - Add the following sentence after the first sentence:

Before placing concrete, verify that forms are correctly positioned to produce sidewalk ramps with proper slopes and dimensions to comply with the Standard Drawings and Plans.

**00759.50(c) Driveways, Walks, and Surfacings** - Add the following paragraph to the end of this subsection:

In addition, finish concrete surfaces of sidewalk ramps to be within the established slopes and dimensions allowed by the Standard Drawings and Plans. Repair or remove and replace sidewalk ramps not meeting the Standard Drawings and Plans at no additional cost to the Agency.

**00759.80 Measurement** - Add the following sentence(s) to the bullet that begins "Area Basis - Measurement...":

Measurement of concrete walks will include the total area of concrete walk, including the area of new concrete sidewalk ramps within the footprint of the concrete walk.

## **00759.90 Payment** - Add the following pay items:

## Pay Item Unit of Measurement

(n) Extra for New Sidewalk Ramps..... Each

Replace the paragraph that begins "Items (e) and (f) include..." with the following paragraph:

Items (e) and (f) include the area of new concrete sidewalk ramps within the footprint of the Concrete Walks or Monolithic Curb and Sidewalks.

Add the following paragraph(s) after the paragraph that begins "In item (k)...":

Item (n) includes the additional work required to construct a new sidewalk ramp in a new concrete sidewalk or monolithic curb and sidewalk. Payment for the area of the new sidewalk ramp will be made under the concrete walk or sidewalk pay item.

Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for Sidewalk Ramp Working Drawings, Sidewalk Ramp Plan, Preplacement Conference, concrete form verification, and any necessary repair or removal and replacement of Sidewalk Ramps.

## **SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS**

Comply with Section 00850 of the Standard Specifications.

## SECTION 00865 - LONGITUDINAL PAVEMENT MARKINGS - DURABLE

Comply with Section 00865 of the Standard Specifications.

## SECTION 00867 - TRANSVERSE PAVEMENT MARKINGS - LEGENDS AND BARS

Comply with Section 00867 of the Standard Specifications modified as follows:

**00867.90 Payment** - Replace this subsection, except for the subsection number and title, with the following:

The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

## Pay Item

## **Unit of Measurement**

- (a) Pavement Legend, Type AB: Arrows ...... Each
- (b) Pavement Legend, Type B-HS: Bicycle Lane Stencil ...... Each
- (c) Pavement Bar, Type AB ......Square Foot

In items (a) through (c), the type of pavement marking material will be inserted in the first blank.

- Item (a) includes single or multiple headed arrows as required.
- Item (b) includes the bike lane stencil and arrow.

Item (c) includes all transverse pavement markings that are defined as a "BAR", including but not limited to, stop bars, crosswalk bars, chevron bars, transverse median bars, and transverse shoulder bars.

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

Payment for work under this Section will be limited to 75% of the amount due until the Agency has received the signed warranty.

## SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications.

## **SECTION 00910 - WOOD SIGN POSTS**

Comply with Section 00910 of the Standard Specifications.

## **SECTION 00930 - METAL SIGN SUPPORTS**

Comply with Section 00930 of the Standard Specifications modified as follows:

**00930.10 Materials** - Replace the paragraph that begins "Except for perforated steel square tube..." with the following paragraph:

Except for perforated steel square tube slip base sign supports and for perforated steel square tube anchor sign supports, galvanizing shall conform to the requirements of Section 02530. Galvanize perforated steel square tube slip base sign supports and perforated steel square tube anchor sign supports according to ASTM A653 G90, zinc coat corner seam weld after scarfing, apply a conversion coating, and apply a final clear polymer coating.

**00930.40(c) Welding** - Replace the paragraph that begins "AWS D1.1, Clause 3..." with the following bullets:

- AWS D1.1, Clause 3 prequalified welds for complete joint penetration (CJP) are not allowed.
- Qualify CJP welds according to AWS D1.1, Clause 4. Perform V-notch (CVN) testing at 70 °F meeting the requirements of the absorbed energy values of Table 4.14.

**00930.40(d-2-a) Direct Tension Indicator Tightening** - Replace this subsection, except for the subsection number and title, with the following:

Install new and unused direct tension indicator washers at each bolt. Install so that the direct tension indicator protrusions are in contact with a hardened washer.

Bring the connection to a snug-tight condition. Snug-tight is defined as the condition when all plies of the connection are in firm contact and can be attained by applying the full effort of a worker on the end of a 12 inch long wrench to each bolt in the connection. Tighten all fasteners in the connection by progressing systematically from the most rigid part of the connection to the free edges in a manner that will minimize relaxation of previously tightened fasteners. In some cases, proper tensioning of the bolts may require more than a single cycle of systematic partial tightening.

After attaining a snug-tight condition, tighten all fasteners in the connection by progressing systematically from the most rigid part of the connection to the free edges until all of the

spaces between the direct tension indicator protrusions refuse entry to a 0.005 inch feeler gauge.

**00930.40(e-2) Direct Tension Indicator Method** - Replace this subsection, except for the subsection number and title, with the following:

Provide the Engineer full opportunity to witness installation of bolted connections. The Engineer will periodically observe the installation and tightening operations to ensure that proper procedures are being adhered to.

Upon completion of a bolted joint, the Engineer will determine that all bolts have been tightened. A minimum of 10 percent, but not less than two bolts in each joint, will be inspected. The joint will be accepted as properly tightened when all spaces between the direct tension indicator protrusions refuse entry to a 0.005 inch feeler gauge. If there are any spaces between the direct tension indicator protrusions that do not refuse entry to a 0.005 inch feeler gauge, re-inspect all bolts, retighten bolts in the joint as required, and resubmit the joint for inspection.

**00930.80 Measurement** - Add the following to the end of this subsection:

The estimated quantities of structural steel are as follows:

Item Estimated Quantity (Pound)

Perforated Steel Square Tube Sign Supports

562

**00930.90 Payment** - Replace pay item (q) with the following pay item:

(g) Perforated Steel Square Tube Sign Supports ...... Lump Sum

Replace the paragraph that begins "No separate or additional payment..." with the following paragraph:

No separate or additional payment will be made for route marker frames, wind bracing, pole clamps, stainless steel clamps, mast arm street name sign mounts, or special sign brackets.

## **SECTION 00940 - SIGNS**

Comply with Section 00940 of the Standard Specifications.

## **SECTION 01030 - SEEDING**

Comply with Section 01030 of the Standard Specifications modified as follows:

**01030.13(f)** Types of Seed Mixes - Add the following to the end of this subsection:

Provide the following seed mix formulas:

## Permanent Native Seeding (Hydroseed):

Botanical Name (Common Name)		· (% Purity x (minimum)	% Germination) = (minimum)	Amount (lb/acre)
Lolium perenne				
(Perennial Ryegrass)	51			
Festuca ovina duriuscula	a			
(Eureka II Hard Fescue)	13			
Yarrow millefolium				
(Dwarf Yarrow)	7			
Trifolium repens 'Pipolina	a'			
(Pipolina MicroClover)	7			
Trifolium fragiferum				
'O'Connor's'				
(O'Connor's Strawberry				
Clover)	4			
Alyssum maritimum				
(Sweet Alyssum)	3			

<sup>\*</sup> Oregon Certified Seed

## · Lawn Seeding (Hydroseed):

Name		- (% Purity x (minimum)	( % Germination) = (minimum)	Amount (lb/acre)
Fine Fescue**	48			
Perennial Ryegrass**	160			
Regal 5 Pernnial Ryegra	ass 112			

<sup>\*\*</sup> Acceptable varieties (All of these varieties are trademarked):

## Fine Fescues:

Creeping Red Fescue: Fortress, Ensylva

Chewings Fescue: Banner, Highlight, Koket, and Jamestown. Pennlawn and Cascade are acceptable only in Eastern Oregon.

## Perennial Ryegrass:

Citation, Derby, Diplomat, Manhattan, Omega, Pennfine, Regal, and Yorktown II. Only Manhattan and Pennfine are acceptable east of the Cascades.

## **SECTION 01040 - PLANTING**

Comply with Section 01040 of the Standard Specifications modified as follows:

## **01040.14 Topsoil** – Add the following:

Topsiol used on this project shall be imported topsoil conforming to section "01040.14 Topsoil, (b) Imported Topsoil' - applied a nominal 6" deep in the reclamation of the "staging areas" or as doirected.

\*Topsoil estimated: 140 cubic

## **SECTION 02010 - PORTLAND CEMENT**

Comply with Section 02010 of the Standard Specifications modified as follows:

**02010.10(b) Specifications** - Replace this subsection, except the subsection number and title, with the following:

Portland cement shall conform to the requirements of AASHTO M 85 or ASTM C150 for low alkali cement except as follows:

- Cement shall have a total alkali content (sodium and potassium oxide calculated as Na<sub>2</sub>O + 0.658 K<sub>2</sub>O) not exceeding 0.60 percent.
- All cement types shall contain a maximum of 8 percent tricalcium aluminate(C<sub>3</sub>A).
- The time-of-setting tests will be by either the Gillmore test or the Vicat test.
- Types I and II maximum fineness (specific surface) as determined by AASHTO T153 air permeability test shall be 430 m<sup>2</sup>/kg. If C<sub>3</sub>S + 4.75 C<sub>3</sub>A is less than or equal to 90, the fineness criteria does not apply.

**02010.20 Blended Hydraulic Cement** - Replace this subsection, except for the subsection number and title, with the following:

Blended hydraulic cement shall be either Type IS-portland blast-furnace slag cement, Type IP-portland-pozzolan cement, Type IL-portland-limestone cement, or Type IT-ternary blended cement according to AASHTO M 240.

Furnish blended hydraulic cement from the QPL.

## **SECTION 02050 - CURING MATERIALS**

Comply with Section 02050 of the Standard Specifications modified as follows:

**02050.00 Scope** - Replace this subsection, except for the subsection number and title, with the following:

This Section includes the requirements for liquid compounds, polyethylene films, and curing blankets used to cover concrete and other surfaces to retain moisture and to cure.

**02050.10 Liquid Compounds** - Replace this subsection, except for the subsection number and title, with the following:

Furnish liquid membrane-forming curing compounds from the QPL and meeting the requirements of ASTM C309, except that testing will be done according to ODOT TM 721.

All compounds shall be Type 1-D or Type 2, Class A or B.

Only Type 2, Class B resins will be allowed for the following concrete pavement applications:

- · Plain concrete pavement repair.
- · Continuously reinforced concrete pavement.
- · Plain concrete pavement.
- · Reinforced concrete pavement repair.

Before using liquid compounds, submit one quart samples of each lot for testing, except samples are not required for commercial grade concrete.

**02050.40** Liquid Evaporation Reducer Compounds - Delete this subsection.

## SECTION 02190 - PRESERVATIVE TREATMENT OF LUMBER

Comply with Section 02190 of the Standard Specifications modified as follows:

**02190.20 Drying Time** - Replace this subsection with the following subsection:

**02190.20 Drying After Treatment** - When using waterborne preservatives, as defined in AWPA P5, dry items according to AWPA T1, Section 7.

During the drying period and until the treated items are installed on the Project, separate each layer of treated items using spacers that are at least 1/2 inch thick.

The maximum moisture content shall be 19 percent prior to installation.

Collect all spacers and other treated wood waste from the construction site and dispose of them according to 00290.20.

## **SECTION 02320 - GEOSYNTHETICS**

Comply with Section 02320 of the Standard Specifications modified as follows:

**02320.10(c-1-a) Geotextiles** - Replace the bullet that begins "Minimum average roll values..." with the following bullet:

 Minimum average roll values for each of the specified properties from the same production run as the delivered material.

Table 02320-3 Geotextile Property Values for Sediment Fence 1

			Geotexti	le Property Requ	irements
Geotextile Property	ASTM	ASTM Test Method Units	Supported	Unsupported	
Coolexine Property	Test Method			_	Elongation <sup>2</sup> ≥ 50%
Grab Tensile Strength (minimum) Machine and Cross Machine Directions	D 4632	lb	90 90	120 100	120 100
Apparent Opening Size (AOS) (maximum) U.S. Standard Sieve	D 4751	_	30	30	30
Permittivity (minimum)	D 4491	sec <sup>-1</sup>	0.05	0.05	0.05
Ultraviolet Stability Retained Strength (minimum)	D 4355 (at 500 hours)	%	70	70	70

<sup>&</sup>lt;sup>1</sup> All geotextile properties are Minimum Average Roll Values (MARV). The test results for any sampled roll in a lot shall meet or exceed the values shown in the table.

Table 02320-4 Geotextile Property Values for Subgrade Geotextile (Separation) 1

Geotextile Property	ASTM	Units	Geotextile Property Requirements		
. ,	Test Method		Woven	Nonwoven	
Grab Tensile Strength (minimum) Machine and Cross Machine Directions	D 4632	lb	180	113	
Grab Failure Strain (minimum) Machine and Cross Machine Directions	D 4632	%	< 50	≥ 50	
Tear Strength (minimum)	D 4533	lb	68	41	
Puncture Strength (minimum)	D 6241	lb	371	223	
Apparent Opening Size (AOS) (maximum) U.S. Standard Sieve	D 4751	_	30	30	
Permittivity (minimum)	D 4491	sec <sup>-1</sup>	0.05	0.05	
Ultraviolet Stability Retained Strength (minimum)	D 4355 (at 500 hours)	%	50	50	

All geotextile properties are Minimum Average Roll Values (MARV). The test results for any sampled roll in a lot shall meet or exceed the values shown in the table.

<sup>&</sup>lt;sup>2</sup> Measured according to ASTM D 4632.

## **SECTION 02440 – JOINT MATERIALS**

Comply with Section 02440 of the Standard Specifications modified as follows:

**02440.15** Lubricant/Adhesive - Replace this subsection, except for the subsection number and title, with the following:

Furnish a lubricant/adhesive conforming to ASTM D4070 and according to the recommendations of the seal manufacturer.

## **SECTION 02450 - MANHOLE AND INLET MATERIALS**

Comply with Section 02450 of the Standard Specifications modified as follows:

Add the following Subsection:

**02450.15 Precast Concrete Catch Basins and Inlets** - Furnish precast concrete catch basins and inlet conforming to the requirements of ASTM C 913.

## **SECTION 02510 - REINFORCEMENT**

**02510.40 Welded Wire Reinforcement** - Replace this subsection, except for the subsection number and title, with the following:

Welded wire reinforcement and deformed welded wire reinforcement shall conform to the requirements of ASTM A1064.

**02510.60 Wire Reinforcement** - Replace this subsection, except for the subsection number and title, with the following:

Wire reinforcement and deformed wire reinforcement shall conform to the requirements of ASTM A1064.

## **SECTION 02530 - STRUCTURAL STEEL**

Comply with Section 02530 of the Standard Specifications modified as follows:

**02530.71 Repair of Hot-Dip Galvanizing** - Add the following sentence after the sentence that begins "Repair damaged...":

Furnish galvanizing repair material from the QPL.

## **SECTION 02560 - FASTENERS**

Comply with Section 02560 of the Standard Specifications modified as follows:

**02560.30 Tie Rods and Anchor Bolts** - Replace this subsection with the following subsection:

## 02560.30 Tie Rods, Anchor Bolts, and Anchor Rods:

- (a) Steel Tie Rods, Anchor Bolts, and Anchor Rods Steel tie rods, anchor bolts, and anchor rods shall conform to: AASHTO M 314, Grade 36 or 55; ASTM F 1554, Grade 36 or 55.
- **(b)** High-Strength Tie Rods, High-Strength Anchor Bolts, and High-Strength Anchor Rods High-strength tie rods, high-strength anchor bolts, and high-strength anchor rods shall conform to: AASHTO M 314, Grade 105; ASTM F 1554, Grade 105; or ASTM A 449, Type 1.
- **(c) Nuts** Nuts for tie rods, anchor bolts, and anchor rods shall conform to the requirements of the following, or equivalent:

## Plain Steel Tie Rods, Anchor Bolts, and Anchor Rods:

All - Heavy Hex AASHTO M 291 (ASTM A 563), Grade A

## Galvanized Steel Tie Rods, Anchor Bolts, and Anchor Rods:

All - Heavy Hex AASHTO M 291 (ASTM A 563), Grade A, C, D, or DH

Plain Or Galvanized High-Strength Tie Rods, High-Strength Anchor Bolts, and High-Strength Anchor Rods:

- All Heavy Hex AASHTO M 291 (ASTM A 563), Grade DH
- (d) Washers Washers for anchor bolts shall conform to ASTM F 436, Type 1.

**02560.40** Galvanizing and Coating of Fasteners, Tie Rods, and Anchor Bolts - Replace this subsection title with the title "Galvanizing and Coating:"

**02560.40(a) Galvanizing of Fasteners, Tie Rods, and Anchor Bolts** - Replace this subsection with the following subsection:

**02560.40(a)** Galvanizing of Fasteners, Tie Rods, Anchor Bolts, and Anchor Rods - Hot-dip galvanize fasteners, tie rods, anchor bolts, anchor rods, nuts, and washers according to AASHTO M 111 (ASTM A 123) or AASHTO M 232 (ASTM A 153) as appropriate to the product.

When specified, mechanically galvanize fasteners according to ASTM B 695, Class 50, Type 1.

Match galvanized bolts, tie rods, anchor bolts, and anchor rods with appropriate galvanized nuts for assembly. Ship nuts in the same container consisting of bolts, tie rods, anchor bolts, or anchor rods.

Overtap nuts for galvanized fasteners, galvanized tie rods, galvanized anchor bolts, and galvanized anchor rods according to AASHTO M 291 (ASTM A 563).

Measure the zinc thickness on the wrench flats or top of bolt head of galvanized bolts and on the wrench flats of galvanized nuts.

**02560.60(a)** Rotational Capacity Test - In the paragraph that begins "Test all high-strength fasteners...", replace the first sentence with the following sentence:

Test all high-strength fasteners, except high-strength tie rods, high-strength anchor bolts, and high-strength anchor rods, according to Method 1 or 2 below, as applicable.

**02560.60(b) Other Test Requirements** - Replace the two paragraphs that begin "Provide three extra high strength bolt assemblies..." and "Provide three extra high strength tie rod and..." with the following two paragraphs:

Provide three high-strength bolt assemblies per size per lot for check testing.

Provide one high-strength tie rod assembly, one high-strength anchor bolt assembly, and one high-strength anchor rod assembly per size per lot for check testing.

## **SECTION 02910 - SIGN MATERIALS**

Comply with Section 02910 of the Standard Specifications modified as follows:

**02910.02 Types of Signs** - Replace this subsection, except for the subsection number and title, with the following:

Traffic signs are classified by sign type as follows:

- "B" Blue Type III or Type IV sheeting background with silver-white Type III or Type IV permanent or removable legend, or silver-white Type III or Type IV sheeting overlaid with blue electronically cuttable film background with legend cut out.
- **"B2"** Blue Type III or Type IV sheeting background with white Type IX removable legend.
- **"B3"** White Type IX sheeting overlaid with blue electronically cuttable film background with legend cut out.
- "B4" Blue Type III or Type IV sheeting background with yellow Type III or Type IV permanent legend, or yellow Type III or Type IV sheeting overlaid with blue electronically cuttable film with legend cut out or blue transparent paste background with retroreflective yellow screened legend or yellow Type III or Type IV permanent legend (County Route Shield).

- "C" Brown Type III or Type IV sheeting background with silver-white Type III or Type IV permanent or removable legend, or silver-white Type III or Type IV sheeting overlaid with brown electronically cuttable film background with legend cut out.
- **"C1"** Brown Type III or Type IV sheeting background with white Type IX removable legend.
- **"C2"** White Type IX sheeting overlaid with brown electronically cuttable film background with legend cut out.
- "F" Silver-white Type III or Type IV sheeting background overlaid with red and blue electronically cuttable film with legend cut out or red and blue transparent paste background with retroreflective silver-white screened legend or silver-white Type III or Type IV permanent legend.
- **"F1"** White Type IX sheeting background overlaid with red and blue electronically cuttable film with legend cut out or red and blue transparent paste background with white Type IX permanent legend.
- "G" Green Type III or Type IV sheeting background with silver-white Type III or Type IV permanent or removable legend, or silver-white Type III or Type IV sheeting overlaid with green electronically cuttable film background with legend cut out.
- **"G1"** Green Type III or Type IV sheeting background with white Type IX removable legend.
- **"G2"** White Type IX sheeting overlaid with green electronically cuttable film background with legend cut out.
- "G5" Green Type III or Type IV sheeting background with white Type IX permanent legend and symbol, or white Type IX sheeting overlaid with green electronically cuttable film background with legend cut out and white Type IX symbol (Combination Lane-use / Destination Overhead Guide Sign).
- **"OO"** Orange Type III or Type IV sheeting background with black nonreflective permanent or removable legend.
- "O3" Fluorescent orange Type VIII or Type IX sheeting background with black nonreflective permanent legend and red retroreflective symbol (Stop or Yield Ahead Symbol Sign).
- **"04"** Fluorescent orange Type VIII or Type IX sheeting background with black nonreflective permanent legend.
- **"O5"** Fluorescent orange Type VIII or Type IX sheeting background with black nonreflective removable legend.
- **"O6"** Fluorescent orange Type VIII or Type IX sheeting background with black nonreflective permanent legend and red, yellow, and green Type VIII and Type IX circles. (Signal Ahead Symbol Sign)

- "O8" Fluorescent orange Type VIII or Type IX sheeting background with black nonreflective screened or cut-out permanent legend and silver-white Type VIII or Type IX symbol. (Speed Reduction Symbol Sign)
- "R" Silver-white Type III or Type IV sheeting background overlaid with red transparent paste background with silver-white Type III or Type IV permanent legend or red electronically cuttable film with legend cut out. (Stop Sign, Wrong Way, Do Not Enter.)
- **"R1"** White Type IX sheeting background overlaid with red transparent paste background with white Type IX permanent legend or red electronically cuttable film with legend cut out.
- "R2" Silver-white Type III or Type IV sheeting background overlaid with red electronically cuttable film with legend and triangle cut out or screened red transparent paste triangle and legend or red Type III or Type IV triangle and permanent legend. (Yield Sign)
- "R3" White Type IX sheeting background overlaid with red electronically cuttable film with legend and triangle cut out or screened red transparent paste triangle and permanent legend.
- "R4" Rubber STOP flap made of natural rubber with a red background and white lettering.
- "R5" Red Type III or Type IV sheeting background overlaid with black nonreflective screened or cut-out permanent legend (OM4-2 Object Marker).
- **"W1"** Silver-white Type III or Type IV sheeting background with black nonreflective screened, cut out permanent or removable legend.
- "W2" Silver-white Type III or Type IV sheeting background with a screened black nonreflective legend overlaid with a screened red transparent paste circle and continuous diagonal bar. (Prohibition)
- **"W3"** Silver-white Type III or Type IV sheeting background with transparent brown screened legend or brown Type III or Type IV cut-out permanent legend.
- **"W4"** Silver-white Type III or Type IV sheeting background with transparent red screened legend or red Type III or Type IV cut-out permanent legend.
- **"W5"** Silver-white Type III or Type IV sheeting background with transparent green screened legend or green Type III or Type IV cut-out permanent legend.
- "W6" White Type IX sheeting background with a screened or cut-out black nonreflective legend overlaid with a screened red transparent paste circle and continuous diagonal bar. (Prohibition sign overhead)
- **"W7"** White Type IX sheeting background with black nonreflective screened or cut-out permanent legend.

- **"W8"** Silver-white Type III or Type IV sheeting background with blue transparent screened legend or blue Type III or Type IV cut-out permanent legend.
- **"W9"** Silver-white Type III or Type IV sheeting background with blue nonreflective screened or cut-out permanent legend.
- "W10" White Type IX sheeting background with black nonreflective removable legend.
- **"W11"** Silver-white Type III or Type IV sheeting background with black nonreflective screened or cut out permanent legend with red Type III or Type IV symbol.
- **"W12"** Silver white Type III or Type IV sheeting background with transparent green screened legend or green Type III or Type IV cut out permanent legend with blue Type III or Type IV symbol.
- "W13" Silver white Type III or Type IV sheeting background with red Type III or Type IV screened or cut-out permanent legend and black nonreflective screened or cut-out permanent legend overlaid with a red transparent paste circle and continuous diagonal bar (Parking Prohibition Symbol Signs).
- **"W14"** Silver white Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend overlaid with a green transparent paste circle (Permissive Trucks and Hazardous Material Symbol Signs).
- "W15" Silver white Type III or Type IV sheeting background with green Type III or Type IV screened or cut-out permanent legend and black nonreflective screened or cut-out permanent legend overlaid with a green transparent paste circle (Permissive Parking Symbol Signs).
- **"W16"** Agency supplied silver-white Type III or Type IV sheeting decal, with multi-colored Oregon State Parks logo, direct applied to sheet aluminum or HDO plywood substrate (Oregon State Parks shield).
- "W17" Silver-white Type III or Type IV sheeting background overlaid with brown transparent paste or electronically cuttable film background, and silver-white Type III or Type IV sheeting background with yellow transparent paste or electronically cuttable film background and black non-reflective screened or cut-out permanent legend and logo (Oregon Trail or California Trail Route Markers). Digital files of the logo graphics may be available on the ODOT Sign Design Information website at: http://www.oregon.gov/ODOT/Engineering/Pages/Signing.aspx
- "W18" Silver-white Type III or Type IV sheeting background overlaid with blue transparent paste background with retroreflective silver-white screened legend or blue electronically cuttable film with legend cut out, and silver-white Type III or Type IV sheeting background with black non-reflective screened or cut-out permanent legend and multi-colored Scenic Byway logo Oregon Scenic Byway Signs). Digital files of the logo graphics may be available on the ODOT Sign Design Information website at:

http://www.oregon.gov/ODOT/Engineering/Pages/Signing.aspx

- "W19" Silver-white Type III or Type IV sheeting background with plum transparent screened legend or plum Type III or Type IV cut-out permanent legend and multicolored Tour Route logo (Oregon Tour Route Signs). Digital files of the logo graphics may be available on the ODOT Sign Design Information website at: http://www.oregon.gov/ODOT/Engineering/Pages/Signing.aspx
- **"Y1"** Yellow Type III or Type IV sheeting background with black nonreflective screened, cut out permanent or removable legend.
- "Y2" Yellow Type III or Type IV sheeting background with a screened or cut-out black nonreflective legend and red and green Type III or Type IV circles. The center yellow circle part shall be part of the background sheeting. (Signal Ahead Symbol Sign)
- **"Y3"** Yellow Type IX sheeting background with black nonreflective screened, cut-out permanent or removable legend.
- "Y4" Yellow Type III or Type IV sheeting background with black nonreflective screened or cut out permanent legend and red Type III or Type IV symbol. (Stop or Yield Ahead Symbol Sign)
- **"Y5"** Fluorescent yellow Type IX sheeting background with black nonreflective screened, cut out permanent or removable legend.
- "Y6" Fluorescent yellow Type IX sheeting background with black nonreflective screened or cut out permanent legend and red and green Type IX circles. The center yellow circle shall be part of the background sheeting. (Signal Ahead Symbol Sign overhead)
- "Y7" Fluorescent yellow Type IX sheeting background with black nonreflective screened or cut out permanent legend and red Type IX symbol. (Stop or Yield Ahead Symbol Sign)
- "Y8" Yellow Type III or Type IV sheeting background with black nonreflective screened or cut out permanent legend and silver-white Type III or Type IV symbol. (Speed Reduction Symbol Sign)
- **"YG"** Fluorescent yellow-green Type IX sheeting background with black non-reflective legend or cut out permanent legend.
- **"YG1"** Fluorescent yellow-green Type IX sheeting background with black nonreflective screened or cut out permanent legend and red Type IX symbols (School Bus Stop Ahead Symbol Sign).
- **"YG2"** Fluorescent yellow-green Type IX sheeting background with black nonreflective screened or cut out permanent legend and fluorescent yellow-green and white Type IX symbol (Reduced School Speed Limit Ahead Symbol Sign).
- **"YGW"** Fluorescent yellow-green Type IX sheeting background with black nonreflective screened or cut out permanent legend and silver-white Type III or Type IV sheeting

background with black nonreflective screened or cut-out permanent legend and red Type III or Type IV symbol. (In Street Pedestrian Crossing Symbol Sign).

- **"YGW1"** Fluorescent yellow-green Type IX sheeting background with black nonreflective screened or cut-out permanent legend, and silver-white Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend (School / Speed Limit 20 Combination Sign).
- "YW" Yellow Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend, and white Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend and red Type III or Type IV symbol.
- **"YW1"** Yellow Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend, and white Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend.
- **"YW2"** Yellow Type IX sheeting background with black nonreflective screened or cut-out permanent legend, and white Type IX sheeting background with black nonreflective screened or cut-out permanent legend and red Type IX symbol.

**02910.33(d) Nonreflective Black Screened Legend** - Replace this subsection, except for the subsection number and title, with the following:

Furnish material for nonreflective black screened legends that is compatible with the sign sheeting, as recommended by the sign sheeting manufacturer.

# CLACKAMAS COUNTY DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE BRIDGE APPROACH CONSTRUCTION

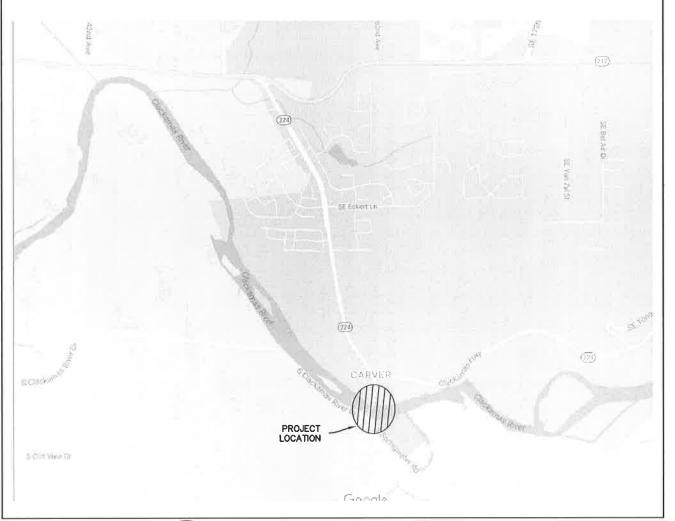
EARTHWORK AND DRAINAGE AND ASPHALT CONCRETE PAVING MAND OILING

CLACKAMAS COUNTY

OREGON

JULY 2017

INDEX OF SHEETS		
1 COVER SHEET		
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T. 2S, R. 2E SEC. 13

## ATTENTION!

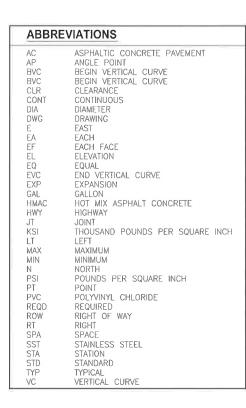
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER, THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0100, YOU MAY OBTAIN COPIES OF THE RULES FROM THE CENTER OR ANSWERS TO OUESTIONS ABOUT THE RULES BY CALLING (503) 232-1987.

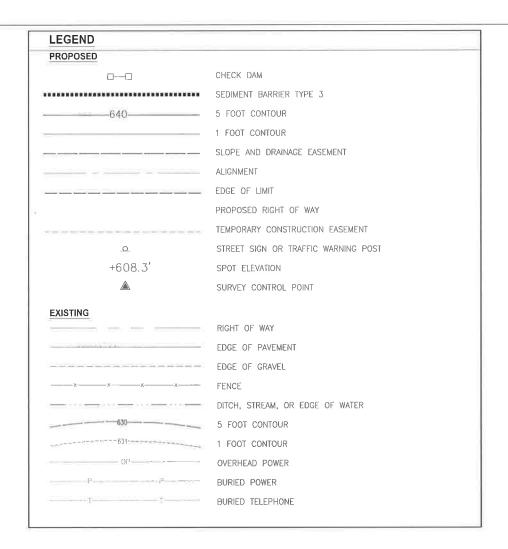
CLACKAMAS RIVER BRIDGE SPRINGWATER ROAD CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION
AND DEPT. OF TRANSPORTATION
150 BEAVERCREK ROAD
OREGON CITY. OR 970.45 REVISIONS

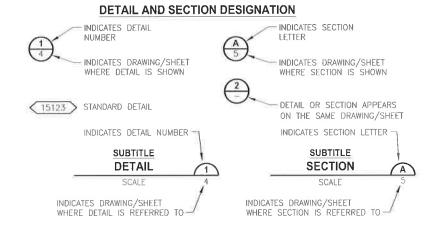
OREGON
OFT PICHARD HOME

EXPIRES: 06-30-19

K CARVER STAKING 2017 COUNTY SHEETS COVER. DWG 7/13/2017







#### **ODOT STANDARD DRAWING NUMBERS** Roadway Cross Slopes Superelevated Sections RD300 RD330 Trench Backfill, Bedding, Pipe Zone and Multiple Installations Metal Pipe Slope Anchors Bore Casing Detail RD308 RD610 Asphalt Pavement Details RD700 Curbs RD705 Islands RD756 Sidewalk Ramp Placement Options Curb Radii ≤15' RD1000 Construction Entrances RD1005 Check Dams Inlet Protection (Type 1,2, and 3) Sediment Barrier (Type 3) RD1035 Sediment Fence, Supported Sediment Fence, Unsupported RD1040 RD1055 Matting TM200 Sign Installation Details Pavement Marking Standard Detail Blocks Pavement Marking Standard Detail Blocks Pavement Marking Standard Detail Blocks Alignment+Layout: General TM500 TM501 TM503 TM560 Alignment+Layout: Left Turn Lane, Centerline and Medians Tables, Abrupt Edge, and PCMS Details Temporary Reflective Pavement Markers TM561 TM800 TM810 TM820 Temporary Barricades Temporary Sign Supports Temporary Concrete Barrier and Rumble Strip Details Temporary Impact Attenuators TM821

TM830

TM831



G2

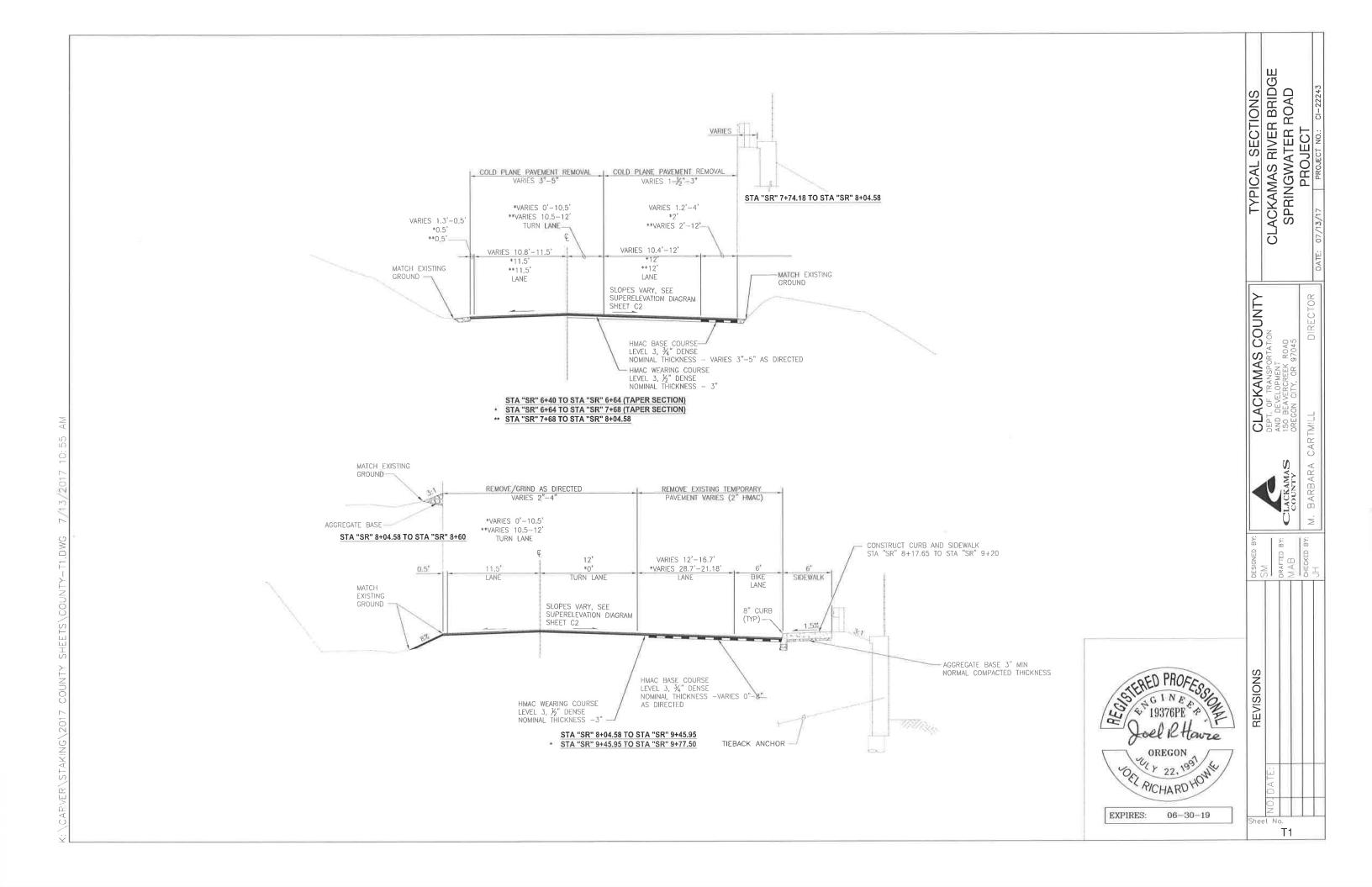
NOTES AND LEGEND

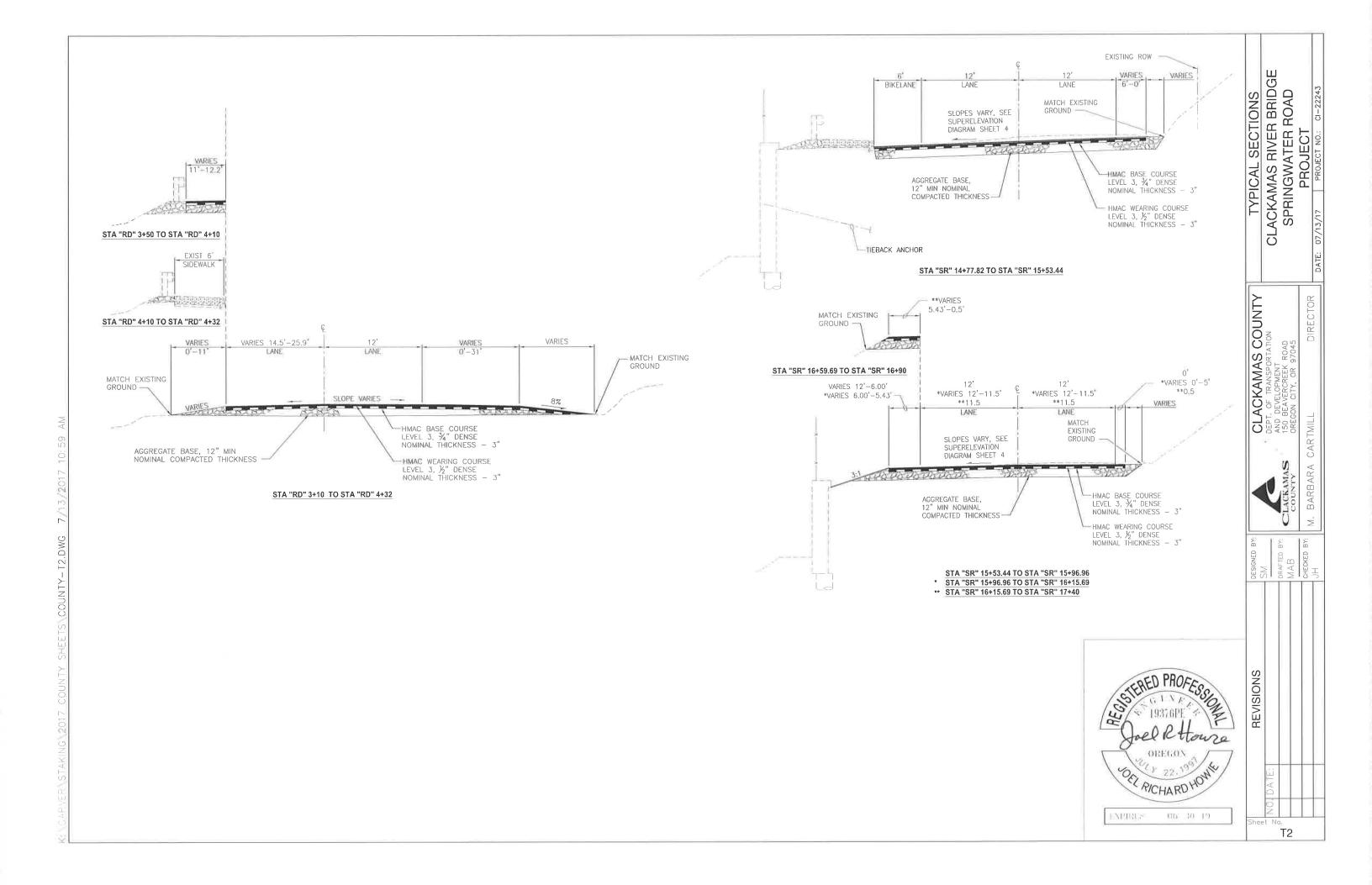
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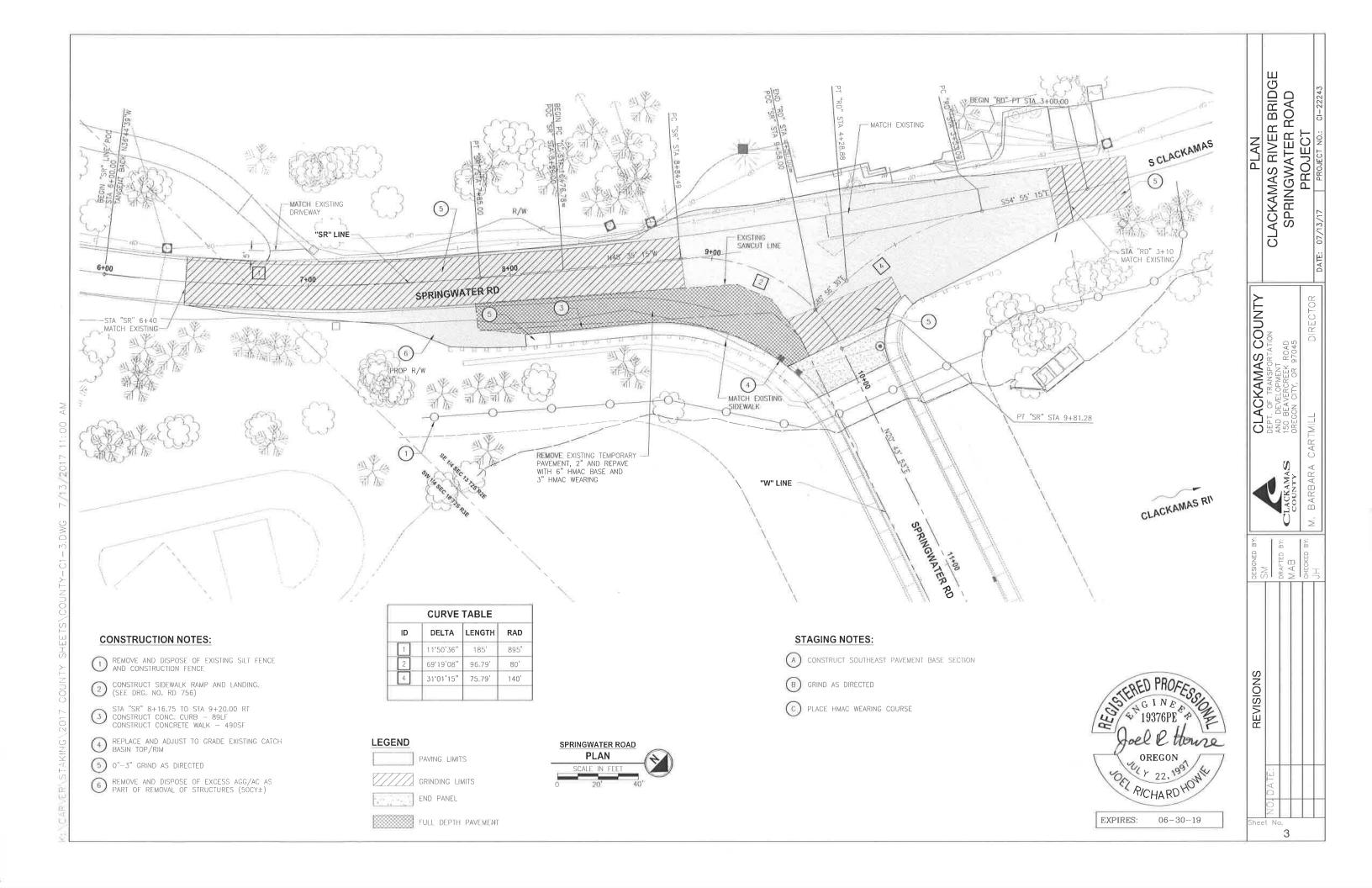
CLACKAMAS COUNTY

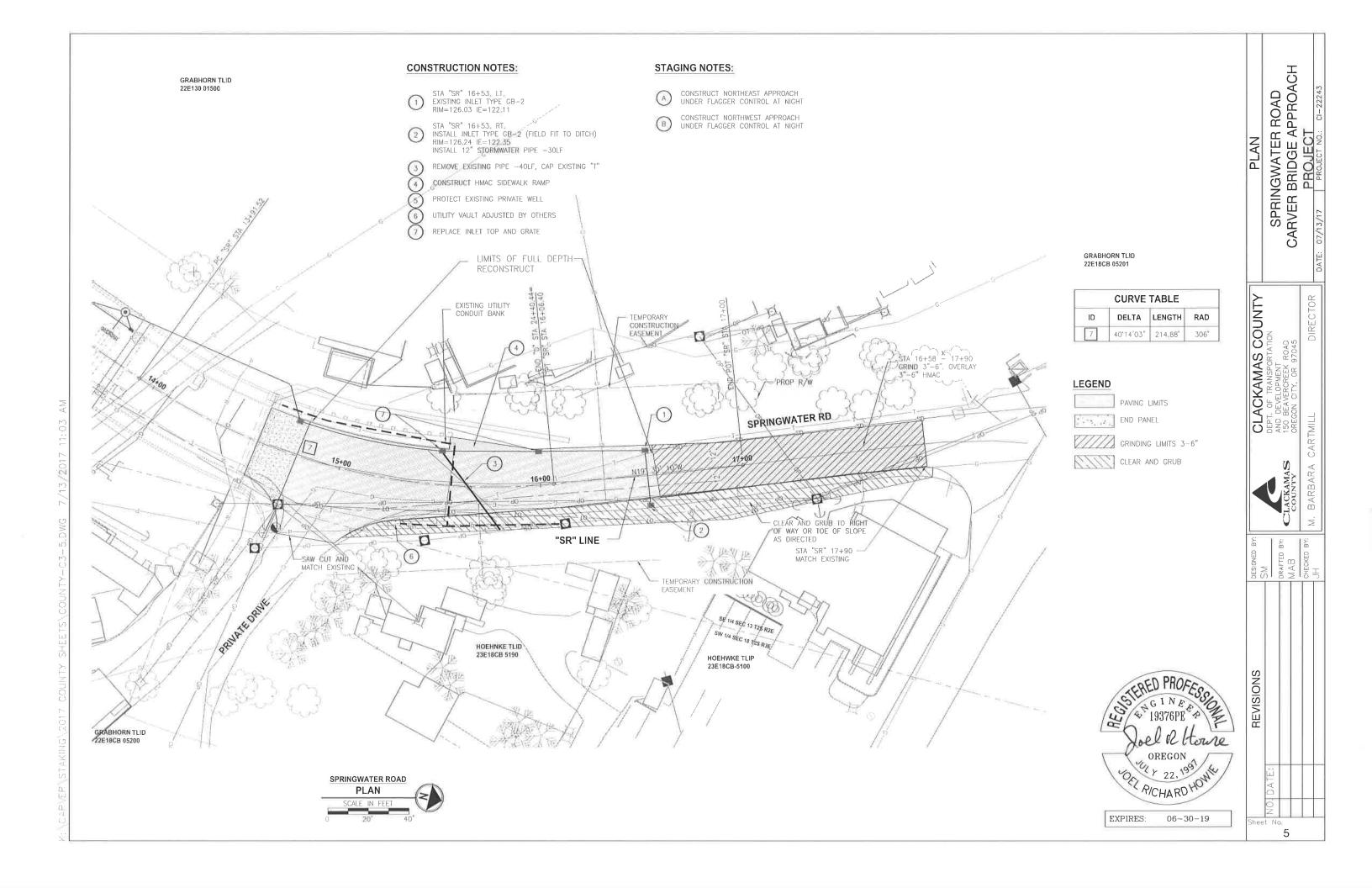
SPRINGWATER ROAD CARVER BRIDGE APPROACH PROJECT

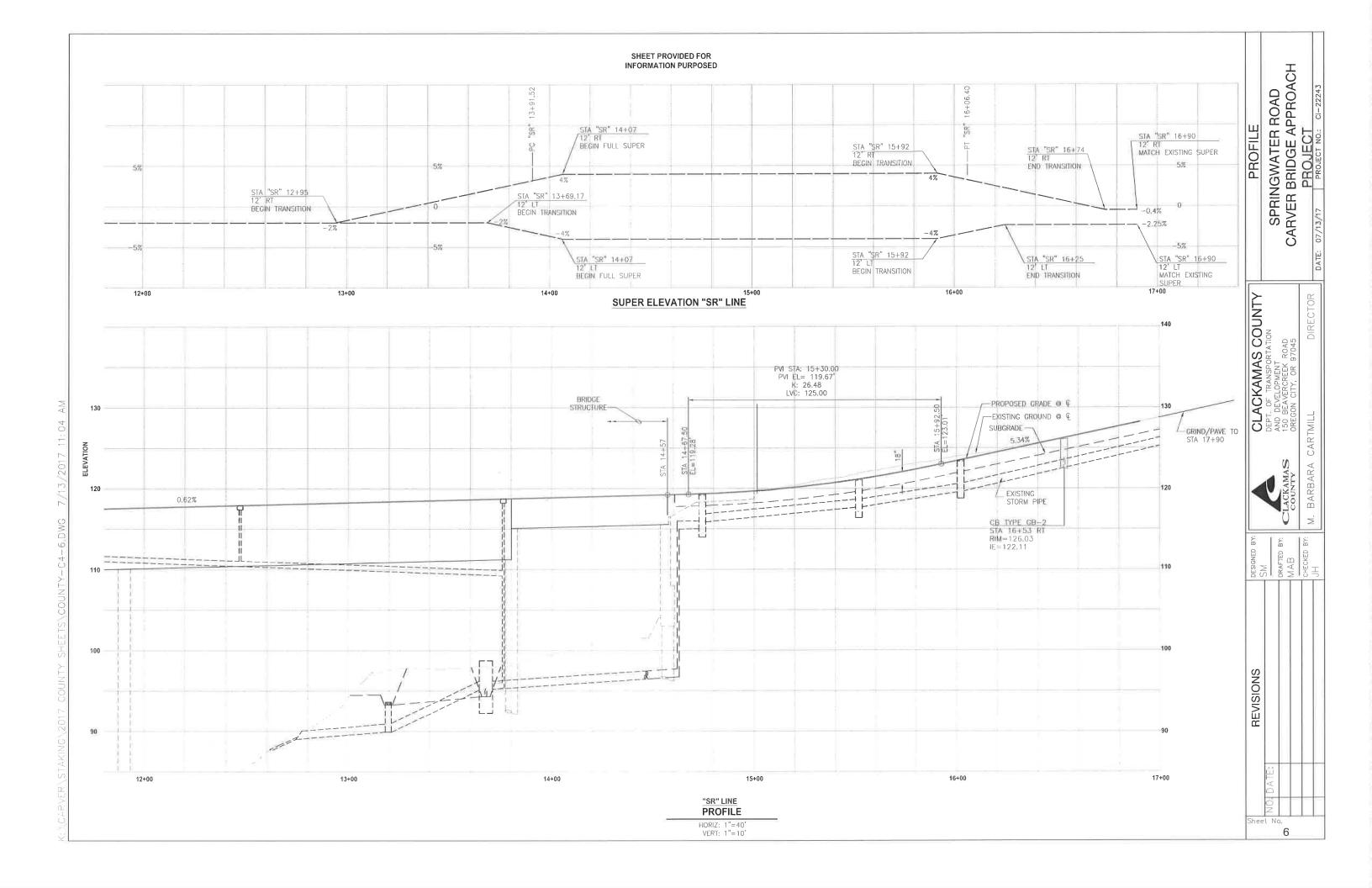
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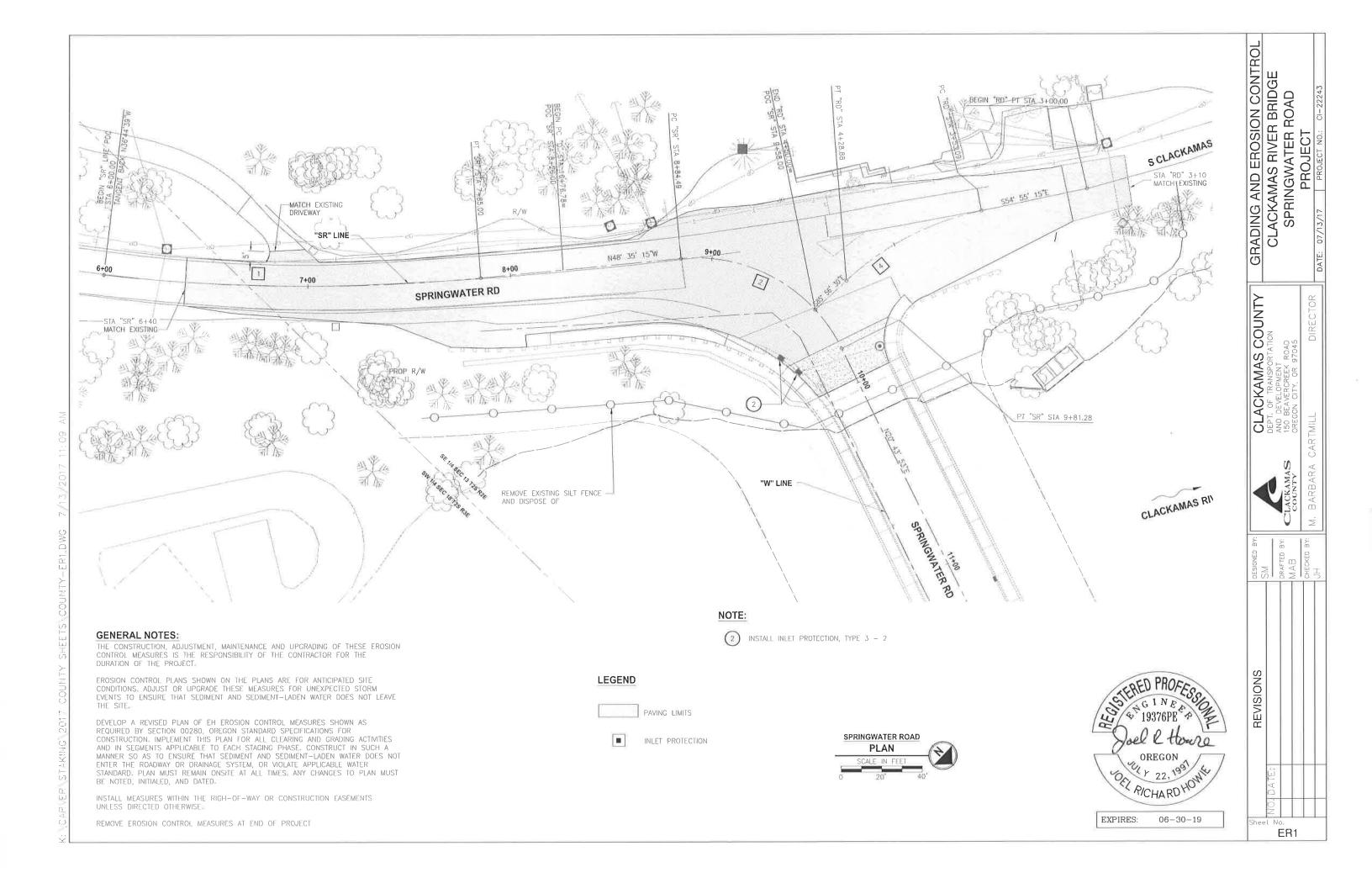


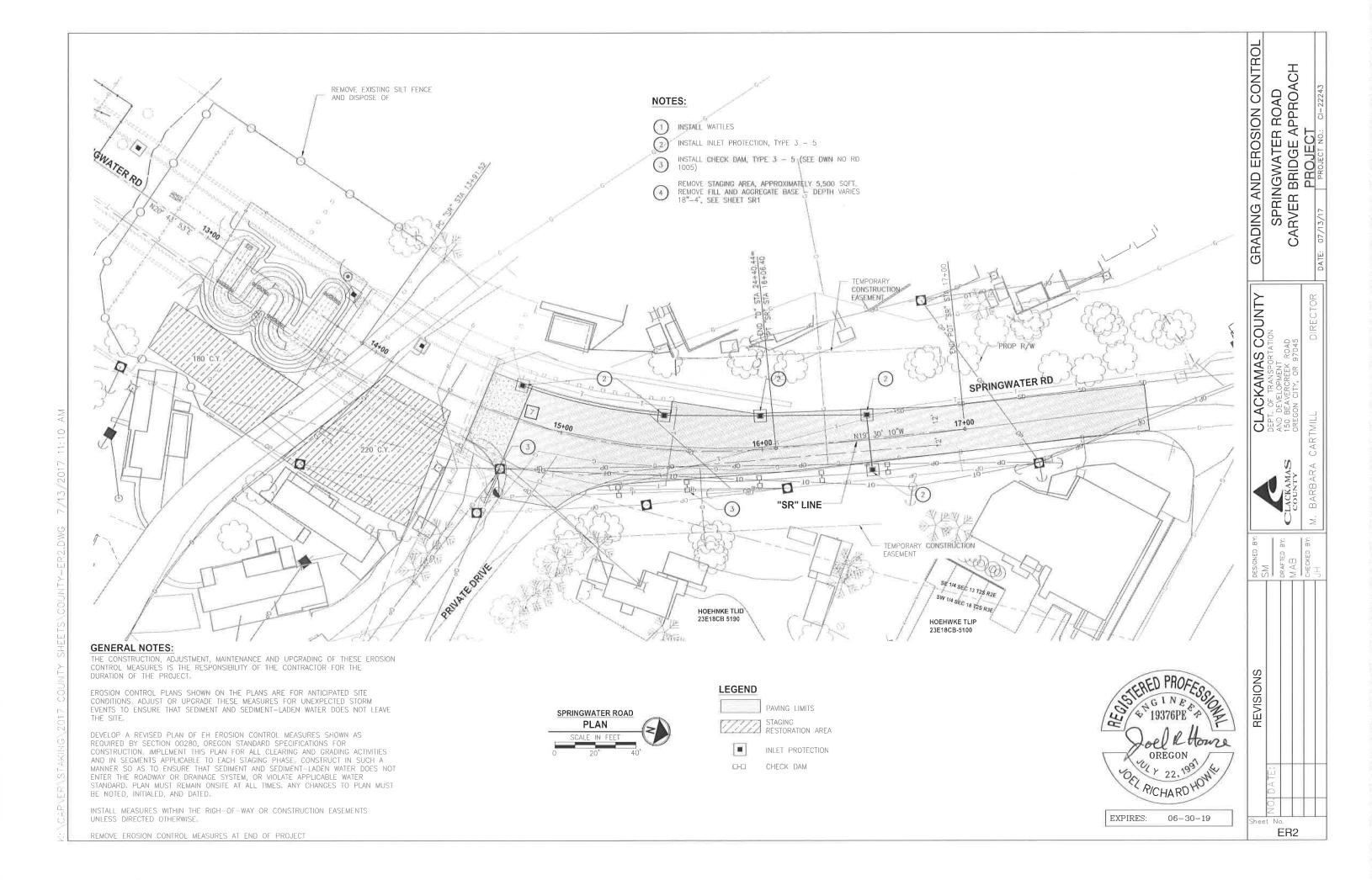


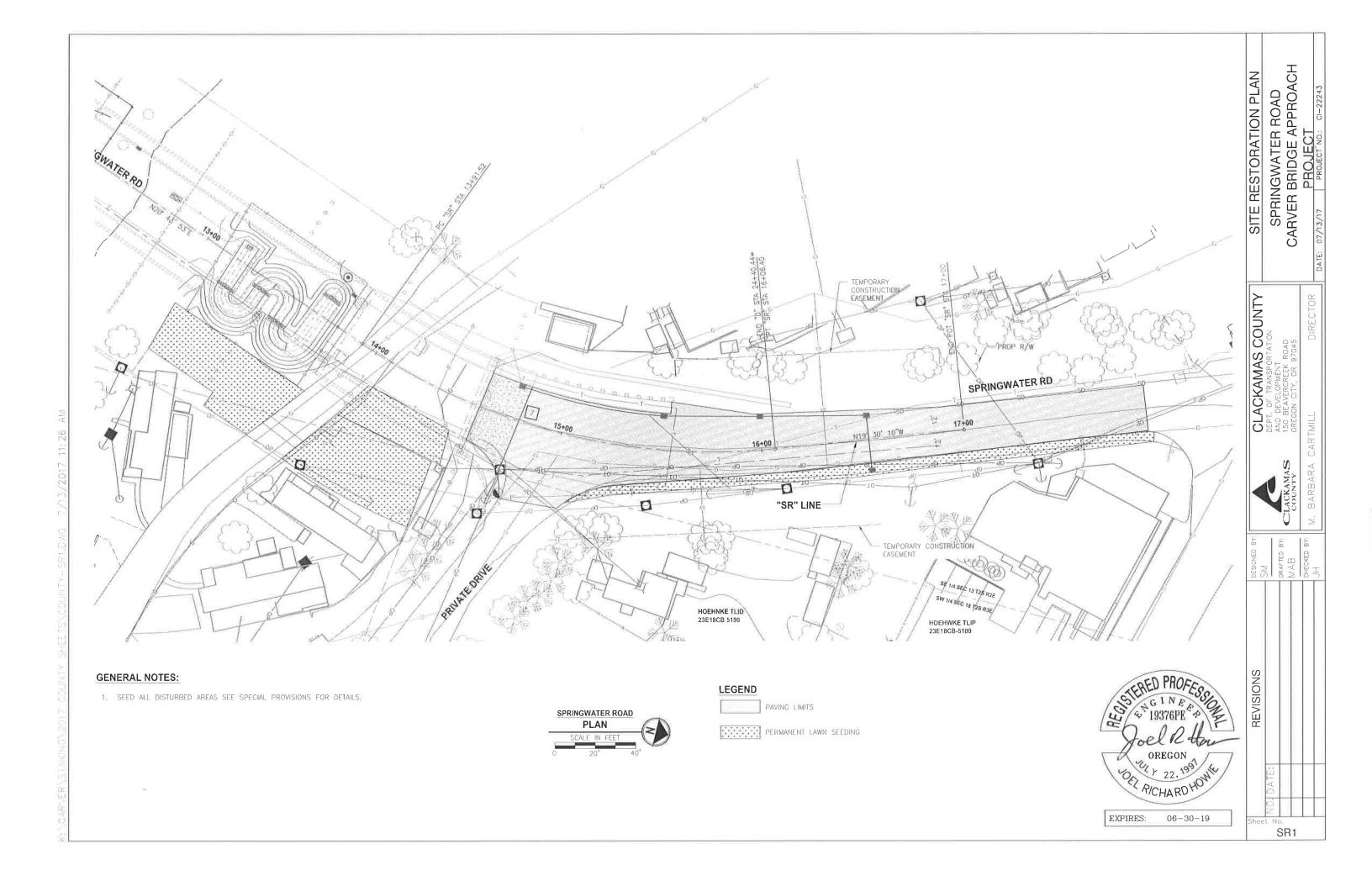


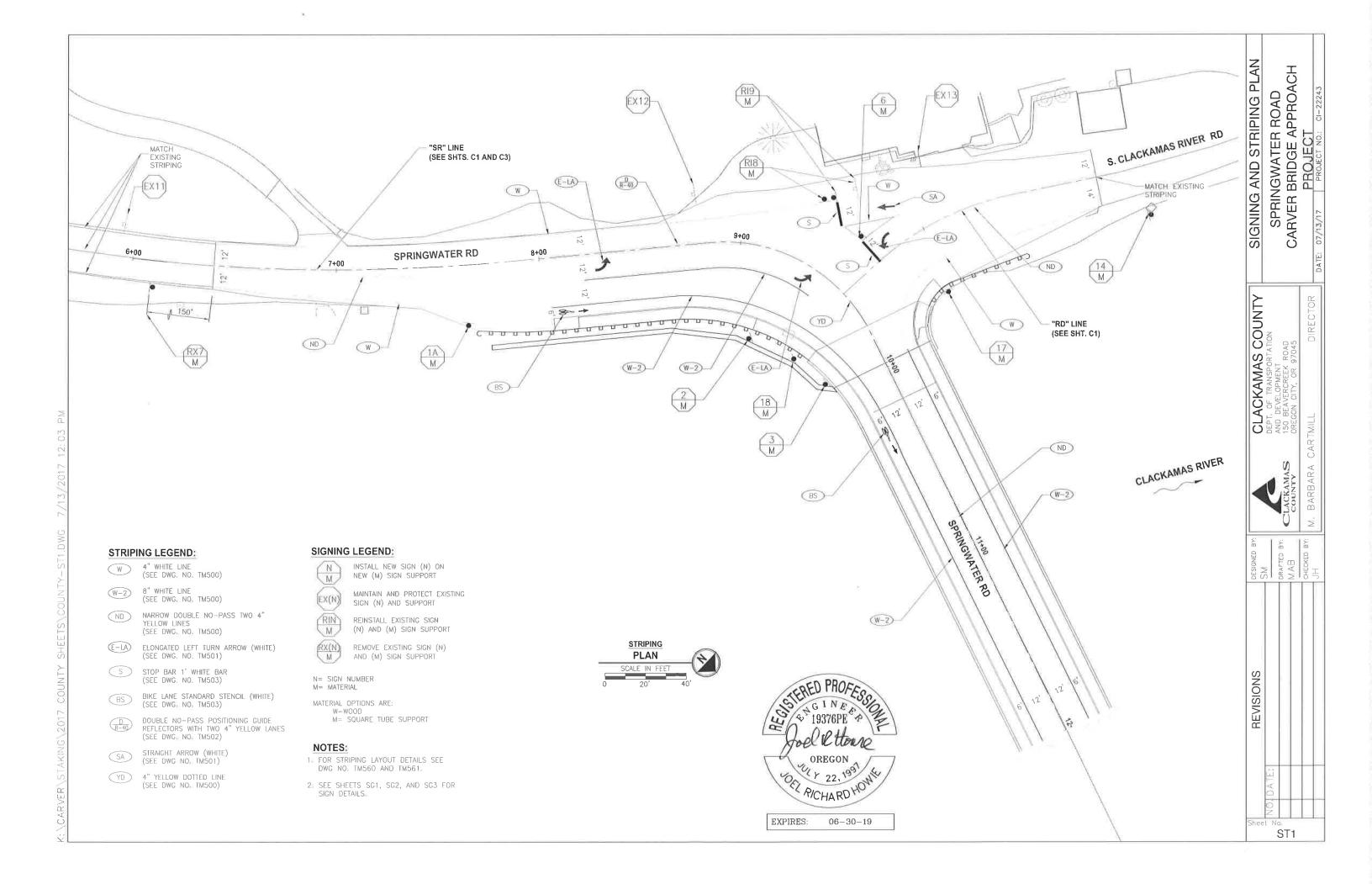


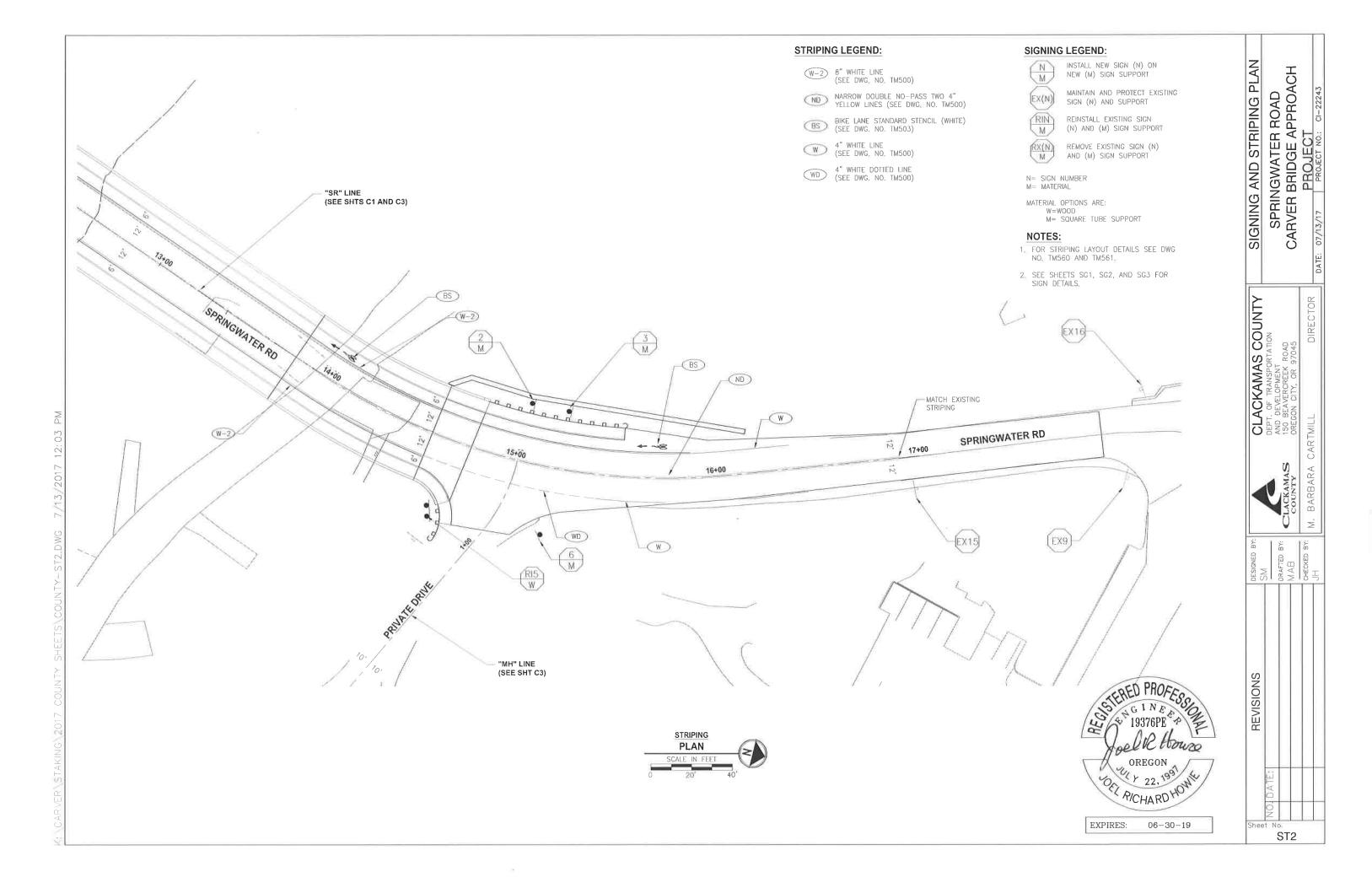












SIGN NO. 1

SIGN NO. 1A



SIGN NO. 2



SIGN NO. 3





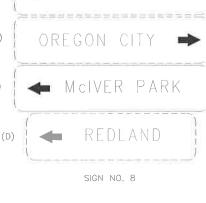






EXPIRES:



















06-30-19



SIGN NO. 11







SIGN NO. 12



SIGN NO. 13

# S CLACKAMAS RIVER DR

SIGN NO. 17 SEE SHEET SG2 FOR STREET NAME SIGN DETAILS



SIGN NO. 18 SEE SHEET SG2 FOR STREET NAME SIGN DETAILS



NO THRU TRUCKS LOCAL DELEVERY ONLY

SIGN NO. 14

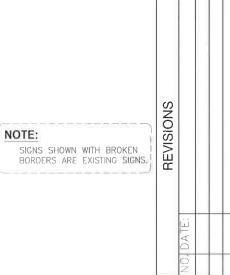




SIGN NO. 15



SIGN NO. 16



SG1

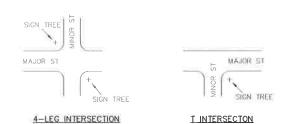
SPRINGWATER ROAD
CARVER BRIDGE APPROACH
PROJECT

CLACKAMAS COUNTY

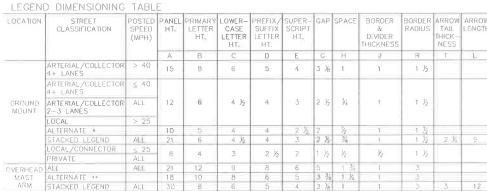
7/13/2017 12:04 SG1.DWG

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# TYPICAL SIGN INSTALLATIONS

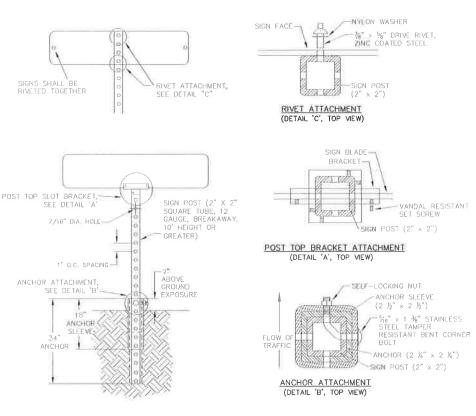


## TYPICAL STREET NAME SIGN LOCATIONS



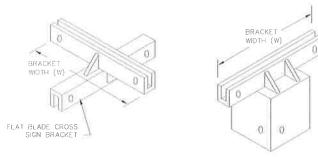
NOTES: ALL UNITS IN INCHES UNLESS SHOWN OTHERWISE.

- \*\* OVERHEAD: MAY BE USED IF 12" LETTERS YIELD SIGNS GREATER THAN 12" LENGTH.



### NOTES

- 1. SIGN COMBINATION AND MINIMUM SIGN MOUNTING HEIGHT SHALL DETERMINE POST LENGTH. A 10' (MIN.) POST SHALL BE USED. A COMBINATION OF SIGNS GREATER THAN 36" IN HEIGHT SHALL REQUIRE A 12' (MIN.) POST.
- 2. NYLON SPACERS SHALL BE USED TO PREVENT CONTACT BETWEEN GALVANIZED STEEL AND ALUMINUM MATERIAL SURFACES.



### FLAT BLADE SIGN BRACKETS

SIGN BRACKET SIZE

SIGN WIDTH (IN.)	MOUNTING
< 30	POST TOP BRACKET, W = 5 %
30 TO 48	POST TOP BRACKET, W = 12"
> 48	RIVET TO POST

- SIGNS TO BE MOUNTED USING REUSABLE BANDING TYPE ADJUSTABLE BRACKET
- (SKY BRACKET OR APPROVED EQUAL) UNLESS OTHERWISE SPECIFIED.

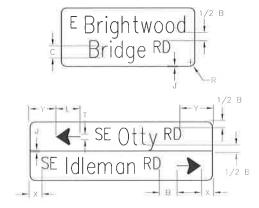
  NEW PROJECTS: SIGNAL MAST ARM SIGNS TO BE INCLUDED ON SIGNING PLANS.

  KISTING SIGNAL POLES: PERFORM POLE STRUCTURAL ANALYSIS PRIOR TO ADDING OR ENLARGING SIGNS.

### ABBREVIATIONS FOR STREET NAME SUFFIXES

AV = Avenue	PKWY = Parkway
BLVD = Boulevard	PL = Place
CIR = Circle	RD = Rood
CT = Court	ST = Street
DR = Drive	TER = Terrace
LN = Lane	WY = Way
LP = Loop	,

# STREET NAME SIGN DETAILS





06-30-19





- ALL SIGN CORNERS SHALL BE ROUNDED.
- BORDERS SHALL BE FLUSH WITH EDGE OF SIGN.
- 3. LEGEND HEIGHT FOR ALL SIGNS AT AN INTERSECTION DICTATED BY THE HIGHEST CLASSIFICATION ROADWAY. SIGN LEGEND
- ALL LEGENDS ARE SUBJECT TO THE ENGINEER'S APPROVAL PRIOR TO FABRICATION.
- ALL LETTERS TO BE SERIES C AT 100% WDTH UNLESS SPECIFIED OTHERWISE.
- LETTERING SHALL BE A COMBINATION OF UPPERCASE AND LOWERCASE LETTERS PER FHWA STANDARDS.
  THE PREFIX SHALL BE ABBREVIATED UPPERCASE LETTERS.
  THE STREET NAME SHALL BE LOWERCASE LETTERS WITH THE FIRST LETTER UPPERCASE.
- THE SUFFIX SHALL BE ABBREVIATED UPPERCASE LETTERS
- THE DESCENDERS OF LOWERCASE LETTERS SHALL NOT BE USED IN THE VERTICAL SPACING OF THE LEGEND. MATERIALS
- 1, ALL SIGN MATERIALS SHALL CONFORM TO THE CURRENT MUTCD AND ODOT STANDARD SPECIFICATIONS,
- GROUND MOUNTED: SIGN SHEETING MATERIAL TO BE ODOT TYPE 'G' AND SHALL BE HIP OR APPROVED EQUAL. MATERIAL FOR PRIVATE STREETS SHALL BE TYPE 'W1'.
- 3. OVERHEAD: SIGN SHEETING MATERIAL TO BE ODOT TYPE 'G1' AND SHALL BE VIP OR APPROVED EQUAL

AFTED . REVISIONS SG<sub>2</sub>

SPRINGWATER ROAD
CARVER BRIDGE APPROACH
PROJECT

SIGN DETAIL

COUNTY

CLACKAMAS C DEPT. OF TRANSPORTAT AND DEVELOPMENT 150 BEAVEREEK ROAI OREGON CITY OR 9701

4_1	DIME	IGN	BOR	DER		ADIUS nches)	ARROW	SIGN	SUB-		COLOR 1_/				LEGEN				T١	YPE OF	SUPPO	RT				PC	OST	FOOTI	ING		REFER			REMARKS		
	LOCATION 4_/	DIMENSION (Inches)		(Incl	ches)		(Inc	(Inches)	TYPE	STRAT	E BA	CKGROUNI	) L	EGENI	D	TYPE			AKAWAY AY MP (SSC)		SUPPORT		BRACKET		ONDA SIGN PPOF		SIZE (Inches)	LENGTH (Feet)	LOCATION 3 /	MIN. DEPTH		EGON S' DRAW				
				WIDTH	HEIGHT	1 5.0	1,0	3.0	6,0 9,0 12,0		(PER SEC. 940 SPEC. PROVISIONS)	PLYWOOD SHEET ALUMINUM		TYPE IV	ASTM TYPE III OR TYPE IV	PE IV	NON-REFLECTIVE	PERMANENT REMOVABLE		WOOD	TRIANGULAR BASE BRI MULTI-POST BREAKAW STAINLESS STEEL CLAI SIGNAL POLF MOLINT		TTILEVER N BRIDGE NUMBER SIGN	FRAME JTE MARKER FF EPOST MARKER	SIGN	C4X7.25		LENGTH	(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)			SG-2 TM602	TM675 TM675 TM677		TM681 & 687 TM200 TM200
1	"SR" 7+64 RT	12	18						W2	1	٧	/	R			V	1										2"-12 ga.	18			Ly -	. √		11	INSTALL NEW NO PARKING SIGNS(2) ON NEW SQUARE TUBE POST	
2	"SR" 9+20 RT	18	24							1	V	, =			BL	√ ·	2										2"-12 ga	18			2			14	INSTALL NEW CLACKAMAS RIVER WATERSHED SIGN ON NEW SQUARE TUBE POS	
	"SR" 15+01 LT	18	24							1	V				8L	7		1									2 -12 ga	18			v			11	INSTALL NEW CLACKAMAS RIVER WATERSHED SIGN ON NEW SQUARE TUBE POS	
															DL.																					
3	"SR" 9+94 RT	18	24							<b>√</b>	٧	/			BK	√	3										2"-12 ga.	18			yo <sup>li</sup> I	W		11	INSTALL NEW NO LOITERING SIGN ON NEW SQUARE TUBE POST	
	"SR" 15+20 LT	18	24							<b>√</b>	٧	/			ВК	✓											2"-12 ga.	18			N.	V.		11	INSTALL NEW NO LOITERING SIGN ON NEW SQUARE TUBE POST	
4	"MH" 0+92 RT																4	i.									2*-12 ga-	20			4	-/		11	PREVIOUSLY REINSTALLED BY OTHERS	
5	"MH" 1+00 RT																5	✓									2-4x6	16			1	<b>V</b>		4	REINSTALL EXISTING CARVER MOBILE RANCH SIGN ON NEW WOOD POSTS(2)	
6	"MH" 0+76.5 LT "RD" 4+26,5 RT	30 30	30 30						"R" "R"	\doldright		R R	SW			1	6	7 5									2"-12 ga. 2"-12 ga.	16			4	<i>y</i>	2	/ / / /	R1-1 R1-1	
8	"SR" 9+38 <sub>1</sub> 3 LT																8										2"-12 ga.	20			1	V	4	11	REINSTALL EXISTING DIRECTIONAL SIGNAGE ON NEW SQUARE TUBE POST	
9	"RD" 4+23 RT																9										2"-12 ga.	18			-/	4		44	REINSTALL EXISTING STOP SIGN AND DIRECTIONAL SIGN ON NEW SQUARE TUBE PO	
10	"RD" X+XX RT "RD" X+XX RT "RD" X+XX RT																10										2"-12 ga. 2"-12 ga. 2"-12 ga.				4. 4.	Ž.		5 5 5 5 5 5	NOT USED NOT USED NOT USED	
17	"SR" 9+80,4 RT	54	21						*G2**	1		G	W			1	17										2"-12 ga	20			7	8		30	SEE SHEET SG2 FOR DETAILS	
18	"SR" 9+71.5 LT	66	12						"G2"	<b>V</b>		G	W			√_  -	18										2"-12 ga	20			W.	7		V V	SEE SHEET SG2 FOR DETAILS	

SIGN AND POST DATA TABLE

BK= BLACK
BL= BLUE
BR= BROWN
G= GREEN
O= ORANGE
R= RED
RB= RED-BLUE
SW= SILVER-WHITE
Y= YELLOW
G= YELLOW-GREEN
W= WHITE

2\_/ NOTE: L,C,R ARE LOCATIONS OF POSTS

FACING THE SIGN...

L= LEFT POST

C= CENTER POST

R= RIGHT POST

3\_/ DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING.

4\_/ NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE EXCEPT FOR SPEED ZONES, SCHOOL ZONES AND MILEPOST MARKERS, EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.



EXPIRES: 06-30-19 SIGN DATA TABLE
SPRINGWATER ROAD
CARVER BRIDGE APPROACH
PROJECT CLACKAMAS COUNTY
DEPT, OF TRANSPORTATION
AND DEVELOPMENT
AND DEVERCREER ROAD
OREGON CITY, OR 97045 MAB CHECKED B REVISIONS

Sheet No. SG3