

# CLACKAMAS COUNTY NOTICE OF PUBLIC IMPROVEMENT CONTRACT OPPORTUNITY

### INVITATION TO BID #2019-07 Carver Sanitary Lateral CA2 Project March 4, 2019

Clackamas County ("County") on behalf of Water Environment Services through their Board of County Commissioners is accepting sealed bids for the Carver Sanitary Lateral CA2 Project until March 26, 2019, 2:00 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 or via email to procurement@clackamas.us.

Bidding Documents can be downloaded from ORPIN at the following address: <a href="http://orpin.oregon.gov/open.dll/welcome">http://orpin.oregon.gov/open.dll/welcome</a>, Document No.C01010-2019-07-19. Prospective Bidders will need to sign in to download the information and that information will be accumulated for a Plan Holder's List. Prospective Bidders are responsible for obtaining any Addenda

Engineers Estimate: \$125,000.00

from Website listed above.

### **Contact Information**

Procurement Process and Technical Questions: Ryan Rice, 503-742-5446, rrice@clackamas.us.

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.

### **Prevailing Wage**

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, January 1, 2019, which can be downloaded at the following web address: <a href="http://www.oregon.gov/boli/WHD/PWR/Pages/pwr\_state.aspx">http://www.oregon.gov/boli/WHD/PWR/Pages/pwr\_state.aspx</a>

The Work will take place in Clackamas County, Oregon.

Clackamas County encourages bids from Minority, Women, and Emerging Small Businesses.



# 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. 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 "Owner."

### **Article 1. Scope of Work**

The work contemplated under this contract with the Owner, 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 Project Manual which includes, but is not necessarily limited to, the Notice of Public Improvement Contract Opportunity, Instructions to Bidders, Supplemental Instructions to Bidders, Bid Form, Bid Bond, Public Improvement Contract Form, Performance Bond, Payment Bond, Clackamas County General Conditions for Public Improvement Contracts (1/1/2017), Supplemental General Conditions, and Plans, Specifications and Drawings.

### **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. The Bidder shall also make a careful examination of the Project Manual including the plans, specifications, and drawings and other contract documents, and shall be fully informed as to the quality and quantity of materials and the sources of supply of the materials. Failure to take these steps will not release the successful Bidder from entering into the contract nor excuse the Bidder from performing the work in strict accordance with the terms of the contract at the price established by the Bid.

The Owner will not be responsible for any loss or for any unanticipated costs, which may be suffered by the successful Bidder, as a result of such Bidder's failure to be fully informed in advance with regard to all conditions pertaining to the work and the character of the work required, including site conditions. No statement made by an elected official, officer, agent, or employee of the Owner in relation to the physical or other conditions pertaining to the site of the work will be binding on the Owner, unless covered by the Project Manual or an Addendum.

### Article 3. Interpretation of Project Manual 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, specifications or forms of contract documents, or detects discrepancies or omissions, such Bidder may submit to the Architect (read "Engineer" throughout in lieu of Architect as appropriate) a 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 Architect in the Project Manual, the Bidder may submit to the Architect 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 Architect may request.

To establish a basis of quality, certain processes, types of machinery and equipment or kinds of materials may be specified in the Project Manual 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 Project Manual 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/bid) will become a part of the Project Manual. The Owner will not be responsible for any other explanation or interpretation of the Project Manual nor for any other approval of a particular manufacturer's process or item for any Bidder.

When the Architect 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.

# 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 Owner, 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. The successful Bidder's check or Bid bond will be retained until the Bidder has entered into a contract satisfactory to Owner and furnished a one hundred percent (100%) performance bond and one hundred percent (100%) payment bond. The Owner 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 Owner, 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 Owner. The date of the acceptance of the Bid and the award of the contract as contemplated

by the Project Manual 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 Owner.
- 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 Form

Each Bid shall be made in accordance with: (i) the sample Bid Form 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 Form relates to Bids on a specific Project Manual. Only the amounts and information asked for on the Bid Form furnished will be considered as the Bid. Each Bidder shall Bid upon the work exactly as specified and provided in the Bid Form. The Bidder shall include in the Bid a sum to cover the cost of all items contemplated by the Contract. The Bidder shall Bid upon all alternates that may be indicated on the Bid Form. When Bidding on an alternate for which there is no charge, the Bidder shall write the words "No Charge" in the space provided on the Bid Form. If one or more alternates are shown on the Bid Form, the Bidder shall indicate whether each is "add" or "deduct."

### 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 form or other portions of the Project Manual, may be rejected in Owner's sole and absolute discretion.

### Article 8. Submission of Bid

Each Bid shall be sealed in an envelope, properly addressed to the Owner, 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 Owner 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.

Generally, Bid results will be posted to the Procurement Website within a couple hours of the opening.

# Article 10. Acceptance or Rejection of Bids by Owner

Unless all Bids are rejected, the Owner will award a contract based on the lowest responsive Bid from a responsible Bidder. If that Bidder does not execute the contract, it will be awarded to the next lowest responsible Bidder or Bidders in succession.

The Owner 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 Owner 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 opening 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.

In determining the lowest Bidder, the Owner reserves the right to take into consideration any or all authorized base Bids as well as alternates or combinations indicated in the Bid Form.

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. Withdrawal of Bid

At any time prior to the Bid Closing, a Bidder may withdraw its Bid. This will not preclude the submission of another Bid by such Bidder prior to the time set for the Bid Closing.

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 Owner will provide the successful Bidder with contract forms 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 seven (7) calendar days after receipt of the contract forms. The contract forms shall be delivered to the Owner in the number called for and to the location as instructed by the Owner.

### **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**

Owner 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 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

Within two (2) working hours after the Bid Closing, all Bidders shall submit to the County a disclosure form identifying any first-tier subcontractors (those entities that would be contracting directly with the prime contractor) that will be furnishing labor and materials on the contract, if awarded, whose subcontract value would be equal to or greater than: (a) Five percent (5%) of the total contract price, but at least \$15,000; or (b) \$350,000, regardless of the percentage of the total contract price.

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



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

Project Name: #2019-07 Carver Sanitary Lateral CA2 Project

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.

- 1. Submission of Bids by email: Complete Bids (including all attachments) may be emailed and must be electronically received by the closing time and date 2:00PM p.m. Pacific Time, March 26, 2019. If emailed, the Bid must be emailed to the following address: Procurement@clackamas.us. The email subject line must be "Bid for Carver Sanitary Lateral CA2 Project." Bidders are strongly encouraged to telephone and confirm electronic receipt of the complete emailed document(s) before the above time and date deadline. Bids delayed or lost by email system filtering or failures may be considered at Clackamas County's sole and absolute discretion.
- 2. 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.

Bidders must perform Good Faith Effort (defined below) and submit Form 1 and Form 2 for the Bidders 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: **Total Contract Amount:** Project Name: #2019-07 Carver Sanitary Lateral CA2 Project PRIME SELF-PERFORMING: Identify below ALL GFE Divisions of Work (DOW) to be self-performed. Good Faith Efforts are otherwise required. DOW BIDDER WILL SELF-PERFORM (GFE not required) PRIME CONTRACTOR SHALL DISCLOSE AND LIST ALL SUBCONTRACTORS, including those Minority-owned, Woman-owned, and Emerging Small Businesses ("M/W/ESB") that you intend to use on the project. Hand delivery to Procurement, 2051 Kaen Road, Oregon City, OR 97045 or email to procurement@clackamas.us within 2 hours of the BID/Quote Closing Date/Time If Certified or DOLLAR self-reporting Division of Work LIST ALL SUBCONTRACTORS BELOW MBE/WBE/ESB (Painting, electrical, **AMOUNT OF** Use **correct legal name** of Subcontractor landscaping, etc.) **SUBCONTRACT** Subcontractor (No Assumed Business Names) List ALL DOW performed by Subcontractors 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#

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

Prime Contractor Name:

**Total Contract Amount:** 

Project Name: #2019-07 Carver Sanitary Lateral CA2 Project

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	Certified of the contract of t	ng SB tor
			MBE	WBE	ESB
Name Address City/St/Zip Phone# OCCB#			IVIDE	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#					

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

Prime Contractor:

Project: #2019-07 Carver Sanitary Lateral CA2 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.

quired information. All columns shall be completed where applicable. Additional forms may be copied if needed.										
NAME OF M/W/ESB	Divisions of Work	Date Solicitation	PHONE CONTACT			BID ACTIVIT Check Yes of			JECTED BIDS eceived & not used)	Materia
SUBCONTRACTOR	(Painting, electrical, landscaping, etc.)	Letter / Fax Sent	Date of Call	Person Receiving Call	Will Bid	Bid Received	Bid Used	Bid Amount	Reason Not Used (Price, Scope or Other. If Other, explain in Notes>>)	Notes
					Yes	Yes	Yes		- curer, expression in recession,	
					□ No	No	□ No			
					Yes	☐ Yes	Yes			
					□ No	□ No	No			
					Yes	Yes	Yes			
					□ No	☐ No	☐ No			
						Yes	Yes			
					□ No	□ No	□ No			
					Yes	Yes	Yes			
					□ No	No	□ No			
						☐ Yes	Yes			
					□ No	No	No			
					☐ Yes	Yes	Yes			
					□ No	No	□ No			

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

Total Contract Amount: **Prime Contractor Name:** 

Project Name: #2019-07 Carver Sanitary Lateral CA2 Project

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	Certified ( If-reporte E/WBE/E bcontract	ed SB
			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	EN UTILIZED BY OUR COMPANY		SENTED AL	BOVE AND	THAT



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### **BID BOND**

Project Name: #2019-07 Carver Sanitary Lateral CA2

We,	, as "Principal,"	
(Name of Principal)	, as "Principal,"	
and	, an	Corporation,
(Name of Surety)		
ourselves, our respective heirs, exe	siness in Oregon, as "Surety," hereby ecutors, administrators, successors and he sum of (\$	assigns to pay unto Wate
		dollars.
bid to an agency of the Obligee in project identified above which proporequired to furnish bid security in ar pursuant to the procurement docum	oligation of this bond is that Principal hat response to Obligee's procurement do osal or bid is made a part of this bond by a mount equal to ten (10%) percent of nent.  e shall accept the bid of the Principal a	cument (No. ) for the yreference, and Principal in the total amount of the bi
as may be specified in the bidding of performance of such Contract and prosecution thereof, or in the event bond or bonds, if the Principal shall between the amount specified in sa	accordance with the terms of such bid, and or Contract Documents with good and sund for the prompt payment of labor and of the failure of the Principal to enter so I pay to the Obligee the difference not to aid bid and such larger amount for which perform the Work covered by said bid,	nd give such bond or bond fficient surety for the faithful material furnished in the uch Contract and give such exceed the penalty here the Obligee may in goother.
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Phone

Fax



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### **BID FORM**

BID CL	CCT: #2019-07 Carver Sanitary Lateral CA2 LOSING: March 26, 2019, 2:00 PM, Pacific Time PENING: March 26, 2019, 2:05 PM, Pacific Time		
FROM:			
	Bidder's Name (must be full legal name, not ABN/DBA)		
	Clackamas County Procurement Division – Attention George Marlton, Direct 2051 Kaen Road Oregon City, OR 97045	or	
1.	Bidder is (check one of the following and insert information	on requested):	
	a. An individual; or		
	b. A partnership registered under the laws of the Stat	te of	<u>;</u> or
	c. A corporation organized under the laws of the Sta	te of	_; or
	d. A limited liability corporation organized under the of the State of		
	and authorized to do business in the State of Oregon hereby and perform all work hereinafter indicated for the above pro- Documents for the Basic Bid as follows:		
		Dollars (\$	)
	and the Undersigned agrees to be bound by the following of	documents:	
		ge Rates	
	• ADDENDA numbered through, inclus	sive (fill in blanks)	

- 2. The Undersigned proposes to add to or deduct from the Base Bid indicated above the items of work relating to the following Alternate(s) as designated in the Specifications: N/A.
- 3. The Undersigned proposes to add to or deduct from the Base Bid indicated above the items or work relating to the following Unit Price(s) as designated in the Specifications, for which any adjustments in the Contract amount will be made in accordance with Section D of the Clackamas County General Conditions: **Provide the attached Bid Schedule with bid.**
- 4. The work shall be completed within the time stipulated and specified in the contract documents.
- 5. Accompanying herewith is Bid Security which is equal to ten percent (10%) of the total amount of the Basic Bid.
- 6. The Undersigned agrees, if awarded the Contract, to execute and deliver to Clackamas County, within twenty (20) calendar days after receiving the Contract forms, a Contract Form, 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 Owner. 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 Owner concerning the Undersigned's ability to supply a Performance Bond and Payment Bond each in the amount of the Contract.

- 7. 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 Owner 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 twenty (20) calendar days after receiving the Contract forms, then the Bid Security shall become the property of the Owner at the Owner'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.
- 8. 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.
- 9. The undersigned HAS, HAS NOT (check one) paid unemployment or income taxes in Oregon within the past 12 months and DOES, DOES NOT (check one) 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 Contract Form.
- 10. 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.
- 11. Contractor's CCB registration number is \_\_\_\_\_\_\_. As a condition to submitting a bid, a Contractor must be registered with the Oregon Construction Contractors Board in accordance with ORS 701.035 to 701.055, and disclose the registration number. Failure to register and

disclose the number will make the bid unresponsive and it will be rejected, unless contrary to federal law.

The successful Bidder hereby certifies that all subcontractors who will perform construction work as

			gistered with the Construction Contractors Board in a e subcontractor(s) made a bid to work under the contra	
13. the Sta Policy	te of Oregon, its Worker's	s Comp	certifies that, in compliance with the Worker's Compensation Insurance provider is	,
14.	Contractor's Key Indivi	duals f	for this project (supply information as applicable):	
	Project Executive: Project Manager: Job Superintendent: Project Engineer:		, Cell Phone: , Cell Phone:	
15. busine	The Undersigned certifi		it has not discriminated against minority, women, or east for this project.	emerging small
REMI	NDER: Bidder must sub	mit the	below First-Tier Subcontractor Disclosure Form.	
By sign	nature below, Contractor	agrees	to be bound by this Bid.	
	NAME OF FIR	M		
	ADDRESS			
	TELEPHONE	NO		
	EMAIL			
	SIGNATURE	1)	Sole Individual	
	or	2)	Partner	
	or	3)	Authorized Officer or Employee of Corporation	

\*\*\*\*\* END OF BID \*\*\*\*\*

12.

	Bid Schedule					
Item No.	Bid Item Description & written unit price	Quantity	Unit Price	Total		
	TEMPORARY FEATURES & APPURTENANCES					
10	Mobilization (not to exceed 5% of all other Bid Items)  \$	All	Lump Sum	\$		
20	All work, as defined in Contract Documents  \$	All	Lump Sum	\$		
		TOTAL B	ID ALL ITEMS:	\$		

DECEMBER 2018 BID FORM 1

# FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM PROJECT: #2019-07 Carver Sanitary Lateral CA2 Project

BID OPENING: March 26, 2019, 2:00 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 on the advertised Bid Closing, and 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.

SUBCONTRACTOR NAME	DOLLAR VALUE	CATEGORY OF WORK
1.		
2. 3.		
4.		
5.	<u> </u>	
6.	<u> </u>	
The above listed first-tier subcontractor(s	) are providing labor, or la	bor and material, with a
Dollar Value equal to or greater than:		
a) 5% of the total Contract Price, \$15,000 do not list the subcon	ŕ	e Dollar Value is less than
b) \$350,000 regardless of the per	centage of the total Contra	ct Price.
Firm Name:		
Bidder Signature:	Phone	#



### WATER ENVIRONMENT SERVICES PUBLIC IMPROVEMENT CONTRACT

This Public Improvement Contract (the "Contract"), is made by and between Water Environment Services, a political subdivisions of the State of Oregon, hereinafter called "Owner," 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.

Project Name: #2019-07 Carver Sanitary Lateral CA2 Project

### 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 Owner 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 the Clackamas County General Conditions for Public Improvement Contracts (11/1/2017) ("General Conditions") referenced within the Instructions to Bidders), 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 amount contemplated by the Base Bid adjusted for Alternates [Identify accepted Alternates], as indicated in the accepted Bid.

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

- Notice of Contract Opportunity
- Supplemental Instructions to Bidders
- Public Improvement Contract Form
- Clackamas County General Conditions
- Prevailing Wage Rates
- Plans, Specifications and Drawings
- Instructions to Bidders
- Bid Bond
- Performance Bond and Payment Bond
- Supplemental General Conditions
- Payroll and Certified Statement Form
- [Addenda]

### 2. Representatives.

Contractor has named as its' Authorized Representative to act on its behalf. Owner designates, or shall designate, its Authorized Representative as indicted below (check one):

Unless otherwise specified in the Contract Documents, the Owner designates <u>Jessica Rinner</u> 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 Owner.

Name of Owner's Authorized Representative shall be submitted by Owner in a separate writing.

### 3. Key Persons.

The Contractor's personnel identified below shall be considered Key Persons and shall not be replaced during the project without the written permission of Owner, which shall not be unreasonably withheld. If the Contractor intends to substitute personnel, a request must be given to Owner at least 30 days prior to the intended time of substitution. When replacements have been approved by Owner, 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 written permission of Owner. 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.

COMMENCEMENT DATE: Upon Issuance of Notice to Proceed ("NTP")

SUBSTANTIAL COMPLETION DATE: 90 days from NTP

FINAL COMPLETION DATE: 120 days from NTP

Time is of the essence for this Contract. It is imperative that the Work in this Contract reach Substantial Completion and Final Completion by the above specified dates.

### 5. Change Order Authorization.

Throughout the performance of the Work under this Agreement, the Owner's Project Manager is hereby granted the authority to verbally authorize change orders in the field for an amount up to \$10,000. As soon as possible following the authorization, the Owner's Project Manager shall complete the change order form provided by Clackamas County Procurement ("Procurement"), obtain the signature of Owner's Director or other authorized signatory, and submit the form to Procurement for processing. As soon as the Director signs off on the change order form, the Project Manager may then authorize another change order in the future for up to \$10,000 following the same procedure above. Each change order should include the cumulative cost of the entire change and may not be artificially broken up into multiple change orders to fall under the dollar threshold listed above. The authority granted to the Project Manager is limited by the Director's authorization to amend the Agreement under Clackamas County's Local Contract Review Board Rules and is subject to the discretion of the Director, who may suspend or restrict the Project Manager's ability to authorize change orders at any time for any reason.

### 6. Insurance Certificates.

In accordance with Section G.3.5 of the General Conditions, Contractor shall furnish proof of the required insurance naming Clackamas County and Water Environment Services as additional insureds. Insurance certificates may be returned with the signed Contract or may emailed to <a href="mailto:Procurement@clackamas.us">Procurement@clackamas.us</a>.

### 7. 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 Owner's setoff right, without penalty; and (C) Initiation of an action or proceeding for damages, specific performance, declaratory or injunctive relief. Owner 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, inclidental 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 Owner 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.

### 8. 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 Owner. 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 Owner ("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.

### 9. 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.

### 10. Integration.

All provisions of state law required to be part of this Contract, whether listed in the General or Special Conditions or otherwise, are hereby integrated and adopted herein. Contractor acknowledges the obligations thereunder and that failure to comply with such terms is a material breach of this Contract.

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.

### 11. Liquidated Damages

The Contractor acknowledges that the Owner will sustain damages as a result of the Contractor's failure to substantially complete the Project in accordance with the Contract Documents. 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.

- 11.1 Liquidated Damages shall be as follows if the actual Substantial Completion exceeds the required date of Final Completion:
  - 11.1.1. \$415.00 per Calendar day past the Final Completion as identified in the Supplemental General Conditions H.1.

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

Contractor DATA:

(Insert Contractor Name & Address)

Contractor CCB # Expiration Date:

Oregon Business Registry # Entity Type: State of Formation:

Signature page to follow.

Payment information will be reported to the IRS under the name and taxpayer ID# provided by the Contractor. Information must be provided prior to contract approval. Information not matching IRS records could subject Contractor to 28 percent backup withholding.

Contractor Name (No DBA/AB	BN)	Water Environment Services		
Signature	Date	Chair	Date	
Name / Title Printed		Recording Secretary		
		APPROVED AS TO FOR	M	
		County Counsel	Date	



# CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT SUPPLEMENTAL GENERAL CONDITIONS

PROJECT: #2019-07 Carver Sanitary Lateral CA2

The following modifies the November 1, 2017 Clackamas County General Conditions for Public Improvement Contracts ("County General Conditions") for this Contract. Except as modified below, all other terms and conditions of the County General Conditions shall remain in effect.

The terms used in these Supplemental Conditions have the meanings stated in the Clackamas County General Conditions. Additional terms used in these Supplemental Conditions have the meanings stated below, which are applicable to both the singular and plural thereof. The address system used in these Supplemental Conditions is the same as the address system used in the Clackamas County General Conditions, with the prefix "SC" added thereto.

### SC A.3.1(a). Replace A.3.1 (a) through A.3.1 (e) with the following:

- a) Permits from outside agencies;
- b) The Contract including: exhibits (and addenda and any amendments thereto), Change Orders, engineer's written interpretation and clarification, and the Notice to Proceed, with those of later date having precedence over those of an earlier date;
- c) Supplemental General Conditions;
- d) Clackamas County General Conditions (11/01/2017);
- e) Specifications Division 01;
- f) Specifications Division 02
- g) Construction Drawings (Construction Plans);
- h) Bonds

Design Details: Figure dimensions, and dimensions that can be computed, on plans shall take precedence over scale dimensions. The Drawings with the higher level of detail take precedence over less detailed Drawings.

### **SC B.4** Replace the Paragraph under B.4 Permits with the following:

Contractor will be responsible for obtaining all required permits and maintaining compliance with those permits throughout the course of the Work. Owner will pay the cost of obtaining all permits. The Contractor shall be responsible for any penalties or fines that result from Contractor's noncompliance with the terms of the permits. The Contractor will be responsible for compliance with the terms of all permits throughout the performance of the Work.

**SC D.2** Delete first sentence of D.2.2 and entries D.2.2(a) and D.2.2(b)

**SC E.5.1.1** Delete everything after the first sentence.

**SC F.2**. Add the following after Paragraph F.2.8

- F.2.9 The following notice is applicable to Contractors who perform excavation Work: ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0090. You may obtain copies of the rules by calling the center at (877) 668-4001.
- F.2.10 Contractor shall be aware that permit-required confined spaces exist in or near the Project Site. Entry to these spaces must be accomplished in compliance with the requirements of OAR 166-150-0190 (29 CFR 1910.146). Examples of permit-required confined spaces include but are not limited to the following:
- 1. Open tanks beyond the handrails including clarifiers, aeration basins, channels, etc.
- 2. Manholes.
- 3. Flow control structures which have the potential to contain sewage.
- 4. Enclosed tanks including digesters, clarifiers, grit basins, chemical tanks, etc.
- 5. Wet well and dry wells of pump stations.
- 6. Headworks channels.
- 7. Electrical vaults.

The hazards associated with these confined spaces may include but are not limited to:

- 1. Oxygen deficiency.
- 2. Combustible vapors including methane.
- 3. Slip hazards.
- 4. Fall/retrieval hazard.
- 5. Engulfment hazard.
- 6. Lockout required of mechanical and electrical devices.
- 7. Toxic or hazardous chemicals including hydrogen sulfide and process chemicals.
- 8. Traffic hazards.
- 9. Hot work and ignition sources.
- 10. Potential for rapid changes in working conditions.
- 11. Painting or coating application activities often pose temporary hazards.

Prior to beginning Work in permit-required confined spaces, Contractor shall provide Owner with a copy of Contractor's permit-required confined space entry plan/program including a copy of the permit forms that will be used by Contractor. Upon request by Contractor, Owner will review with Contractor, Owner's permit-required confined space program and specific procedures Owner would incorporate in spaces entered. Owner will coordinate any of its entries into the same spaces with Contractor. When the permit-required confined space Work is completed, Contractor shall inform Owner, in writing, of any hazards encountered or changes made resulting in different hazards within the space.

### **SC H.1** Add the following after Paragraph H.1.5

H.1.6 As indicated in H.1.1, time is of the essence in the performance of this Contract. If Contractor fails to complete the Work within the Contract time, the actual damage to Owner for the delay will be substantial, but will be difficult or impractical to determine. It is therefore agreed, that Contractor will pay to Owner, not as a penalty, but as liquidated damages, the amount of \$415 each and every day that the date of final completion extends beyond the Contract Time.

Payment of liquidated damages shall not release Contractor from its obligation in respect to the complete performance of the Work, nor shall the payment of liquidated damages constitute a waiver of Owner's right to collect any additional damages that it may sustain by failure of Contractor to fully perform the Work, as it is the intent of the parties that the liquidated damages are a full and complete payment only for failure of Contractor to complete the Work on time. Owner expressly reserves the right to make claims for any and all other damages that Owner may incur due to contractor's failure to perform in strict accordance with this Contract.

### **SC K.3** Add the following after Paragraph K.3.2

K.3.3 Contractor shall provide Owner completed Certificate of Compliance (attached) at the time of Final Completion and before final payment will be released.

### CERTIFICATE OF COMPLIANCE

### Water Environment Services

### CARVER SANITARY LATERAL CA2 PROJECT

ΓO: <u>Wat</u>	er Environment Services				
PROJECT NO: P632239 / #2019-07					
CONTRACT	FOR:				
CONTRACT	DATE:				
	y certify that all work has been performs, and Contract Documents for the above	med and materials supplied in accordance with the Plans, we work, and that:			
		ges as ascertained by the governing body of the contracting orkmen, and mechanics employed on this work.			
	B. There have been neither unauthorized substitutions of subcontractors nor have any subcontracts been entered into without the name of the subcontractors having been submitted to the Engineer prior to the start of such subcontractor work.				
	C. No subcontract was assigned or transferred or performed by any subcontractor other than the original subcontractor, without prior notice having been submitted to the Engineer together with the names of all subcontractors.				
		and other services performed in connection with these ther claims will be made and all liens have been satisfied			
E.		Accident Funds, the State Unemployment Compensation n, hospital associations, and/or others have been paid.			
CERTIFIED	BY:				
CONTRACT	OR	DATE			
ΓITLE	_				
Subscribed a	nd sworn to before me this day of	, 2018			
		Notary Public for the State of			
		My Commission Expires			

### **END OF SECTION**



# CLACKAMAS COUNTY GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS

### **November 1, 2017**

INSTRUCTIONS: The attached Clackamas County General Conditions for Public Improvement Contracts ("County General Conditions") apply to all designated Public Improvement contracts. Changes to the County General Conditions (including any additions, deletions or substitutions) should only be made by attaching Public Improvement Supplemental General Conditions. The text of these County General Conditions should not otherwise be altered.

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- A.2 SCOPE OF WORK
- A.3 INTERPRETATION OF CONTRACT DOCUMENTS
- A.4 EXAMINATION OF PLANS, SPECIFICATIONS, AND PROJECT
- A.5 INDEPENDENT CONTRACTOR STATUS
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# CLACKAMAS COUNTY GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS

("County General Conditions")

## SECTION A GENERAL PROVISIONS

### A.1 DEFINITION OF TERMS

In the Contract Documents the following terms shall be as defined below:

**APPLICABLE LAWS**, means all federal, state and local laws, codes, rules, regulations and ordinances, as amended applicable to the Work, to the Contract, or to the parties individually.

ARCHITECT/ENGINEER, means the Person appointed by the Owner to make drawings and specifications and, to provide contract administration of the Work contemplated by the Contract to the extent provided herein or by supplemental instruction of Owner (under which Owner may delegate responsibilities to the Architect/Engineer), in accordance with ORS Chapter 671 (Architects) or ORS Chapter 672 (Engineers) and administrative rules adopted thereunder.

AVOIDABLE DELAYS, mean any delays other than Unavoidable Delays, and include delays that otherwise would be considered Unavoidable Delays but that: (a) Could have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors; (b) Affect only a portion of the Work and do not necessarily prevent or delay the prosecution of other parts of the Work nor the completion of the whole Work within the Contract Time; (c) Do not impact activities on the accepted critical path schedule; and (d) Are associated with the reasonable interference of other contractors employed by the Owner that do not necessarily prevent the completion of the whole Work within the Contract Time.

**BIDDER**, means a bidder in connection with Instructions to Bidders or a proposer in connection with a Request for Proposals, or Solicitation Document. May also be referenced as "Offeror," "Quoter" or "Proposer" based on the type of Solicitation Document.

**CHANGE ORDER**, means a written order which, when fully executed by the Parties to the Contract, constitutes a change to the Contract Documents. Change Orders shall be issued in accordance with the changes provisions in Section D and, if applicable, establish a Contract Price or Contract Time adjustment. A Change Order shall not be effective until executed by both parties.

**CLAIM**, means a demand by Contractor pursuant to Section D.3 for review of the denial of Contractor's initial request for an adjustment of Contract terms, payment of money, extension of Contract Time or other relief, submitted in accordance with the requirements and within the time limits established for review of Claims in these County General Conditions.

**CONTRACT**, means the written agreement between the Owner and the Contractor comprised of the Contract Documents which describe the Work to be done and the obligations between the parties.

CONTRACT DOCUMENTS, means the Contract, County General Conditions, Supplemental General Conditions if any, Plans, Specifications, the accepted Offer, Solicitation Document and addenda thereto, Instructions to Offerors, and Supplemental Instructions to Offerors

**CONTRACT PERIOD**, as set forth in the Contract Documents, means the total period of time beginning with the full execution of a Contract and, if applicable, the issuance of a Notice to Proceed and concluding upon Final Completion.

**CONTRACT PRICE**, means the total price reflected in the Contract.

<u>CONTRACT TIME</u>, means any incremental period of time allowed under the Contract to complete any portion of the Work as reflected in the Project schedule.

**CONTRACTOR**, means the Person awarded the Contract for the Work contemplated.

 $\underline{\mathbf{DAYS}}$ , are calendar days, including weekdays, weekends and holidays, unless otherwise specified.

**<u>DEFECTIVE WORK</u>**, means Work that is not completed in accordance with the Specifications or the requirements of the Contract.

**DIRECT COSTS**, means, unless otherwise provided in the Contract Documents: the cost of materials, including sales tax and the cost of delivery; cost of labor which shall only include the applicable prevailing wage and fringe benefit (if applicable, and if paid to or on behalf of the employee) rate plus a maximum of a twelve percent (12%) markup on the prevailing wage (but not the fringe benefit) to cover Contractor's labor burden including but not limited to social security, Medicare, unemployment insurance, workers' compensation insurance, sick leave pay; substantiated Project cost increases for specific insurance (including, without limitation, Builder's Risk Insurance and Builder's Risk Installation Floater) or bond premiums; rental cost of equipment, and machinery required for execution of the Work; and the additional costs of field personnel directly attributable to the Work; travel expense reimbursement only if specifically authorized and only to the extent allowable under the County Contractor Travel Reimbursement Policy, hereby incorporated by reference.

FINAL COMPLETION, means the final completion of all requirements under the Contract, including Contract Closeout as described in Section K but excluding Warranty Work as described in Section I.2, and the final payment and release of all retainage, if any.

**FORCE MAJEURE**, means an act, event or occurrence caused by fire, riot, war, acts of God, terrorism, nature, sovereign, or public enemy, strikes, freight embargoes or any other act, event or occurrence that is beyond the control of the party to the Contract who is asserting Force Majeure.

NOTICE TO PROCEED, means the official written notice from the Owner stating that the Contractor is to proceed with the Work defined in the Contract Documents.

**OFFER**, means a bid in connection with Instructions to Bidders or a proposal in connection with a Request for Proposals, or Solicitation Document to do the work stated in the Solicitation Document at the price quoted. May also be referenced as "Bid," "Quote," or "Proposal" based on the type of Solicitation Document.

OVERHEAD, means those items which may be included in the Contractor's markup (general and administrative expense and profit) and that shall not be charged as Direct Cost of the Work, including without limitation such Overhead expenses as wages or salary of personnel above the level of foreman (i.e., superintendents and project managers), labor rates and fringe benefits above the applicable prevailing wage and fringe benefit (if applicable, and if paid to or on behalf of the employee), Contractor's labor burden for fringe benefit if paid to the employee, expenses of Contractor's offices and supplies at the Project Site (e.g. job trailer) and at Contractor's principal place of business and including expenses of personnel staffing the Project Site office and Contractor's principal place of business, and Commercial General Liability Insurance and Automobile Liability Insurance.

OWNER, means, Clackamas County or any component unit thereof including Clackamas County Development Agency, Clackamas County Service District No. 1, Surface Water Management Agency of Clackamas County, Tri-City Service District, Water Environment Services, North

Clackamas Parks and Recreation District, Clackamas County Extension & 4-H Service District, Library Service District of Clackamas County, Enhanced Law Enforcement District, and Clackamas County Service District No. 5. Owner may elect, by written notice to Contractor, to delegate certain duties to more than one agent, including without limitation, to an Architect/Engineer. However, nothing in these County General Conditions is intended to abrogate the separate design professional responsibilities of Architects under ORS Chapter 671 or of Engineers under ORS Chapter 672.

**PERSON**, means a natural person or entity doing business as a sole proprietorship, a partnership, a joint venture, a corporation, a limited liability company or partnership, a nonprofit, a trust, or any other entity possessing the legal capacity to contract.

<u>PLANS</u>, means the drawings which show the location, type, dimensions, and details of the Work to be done under the Contract.

**PRODUCT DATA**, means illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work

**PROJECT**, means the total undertaking to be accomplished for Owner by architects/engineers, contractors, and other others, including planning, study, design, construction, testing, commissioning, start-up, of which the Work to be performed under the Contract Documents is a part.

**PROJECT SITE.** means the specific real property on which the Work is to be performed, including designated contiguous staging areas, that is identified in the Plans, Specifications and Drawings.

<u>PUNCH LIST</u>, means the list of Work yet to be completed or deficiencies which need to be corrected in order to achieve Final Completion of the Contract.

**RECORD DOCUMENT,** means the as-built Plans, Specifications, testing and inspection records, product data, samples, manufacturer and distributor/supplier warranties evidencing transfer of ownership to Owner, operational and maintenance manuals, shop drawings, correspondence, certificate(s) of occupancy, and other documents listed in Subsection B.9.1 of these County General Conditions, recording all Services performed.

<u>SAMPLES</u>, means physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

SHOP DRAWINGS, means drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor (including any subsubcontractor), manufacturer, supplier, or distributor to illustrate some portion of the Work.

<u>SOLICITATION DOCUMENT</u>, means an Invitation to Bid, Request for Proposals, Request for Quotes, or other written document issued by Owner that outlines the required Specifications necessary to submit an Offer.

SPECIFICATION, means any description of the physical or functional characteristics of the Work, or of the nature of a supply, service or construction item included in the Solicitation Document. Specifications may include a description of any requirement for inspecting, testing or preparing a supply, service or construction item for delivery and the quantities or qualities of materials to be furnished under the Contract. Specifications generally will state the results or products to be obtained and may, on occasion, describe the method and manner of doing the Work to be performed. Specifications may be incorporated by reference and/or may be attached to the Contract.

<u>SUBCONTRACTOR</u>, means a Person having a direct contract with the Contractor, or another Subcontractor of any tier, to perform one or more items of the Work.

SUBSTANTIAL COMPLETION, means the date when the Owner accepts in writing the construction, alteration or repair constituting the Work or any designated portion thereof as having reached that state of completion when it may be used or occupied for its intended purpose. Substantial Completion of facilities with operating systems occurs only after thirty (30) continuous Days of successful, trouble-free operation of the operating systems as provided in Section K.3.2.

SUBSTITUTIONS, means items that in function, performance, reliability, quality, and general configuration are the same or better than the product(s) specified. Substitutions also means the performance of the Work by a labor force other than what is submitted in the Offer.

SUPPLEMENTAL GENERAL CONDITIONS, means those conditions that remove from, add to, or modify these County General Conditions. Public Improvement Supplemental General Conditions may be included in the Solicitation Document or may be a separate attachment to the Contract.

UNAVOIDABLE DELAYS, mean delays other than Avoidable Delays that are: (a) to the extent caused by any actions of the Owner, or any other employee or agent of the Owner, or by a separate contractor employed by the Owner; (b) to the extent caused by any Project Site conditions which differ materially from the conditions that would normally be expected to exist and inherent to the construction activities defined in the Contract Documents; or (c) to the extent caused by Force Majeure acts, or events or occurrences.

**WORK**, means the furnishing of all materials, equipment, labor, transportation, services, incidentals, those permits and regulatory approvals not provided by the owner necessary to successfully complete any individual item or the entire Contract and the carrying out of duties and obligations imposed by the Contract Documents for the Project.

### A.2 SCOPE OF WORK

The Work contemplated under the Contract includes all labor, materials, transportation, equipment and services for, and incidental to, the completion of all work in connection with the Project described in the Contract Documents. The Contractor shall perform all Work necessary so that the Project can be legally occupied and fully used for the intended use as set forth in the Contract Documents.

### A.3 INTERPRETATION OF CONTRACT DOCUMENTS

- A.3.1 Unless otherwise specifically defined in the Contract Documents, words which have well-known technical meanings or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Contract Documents are intended to be complementary. Whatever is called for in one, is interpreted to be called for in all. However, in the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following descending order of precedence:
  - (a) The Contract and any amendments thereto, including Change Orders, with those of later date having precedence over those of an earlier date;
  - (b) The Supplemental General Conditions;
  - (c) County General Conditions;
  - (d) Plans and Specifications;
  - (e) The Solicitation Document, and any addenda thereto.
- A.3.2 In the case of an inconsistency between Plans and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance

- with the Owner's interpretation in writing as determined in Owners sole discretion.
- A.3.3 If the Contractor finds discrepancies in, or omissions from the Contract Documents, or if the Contractor is in doubt as to their meaning, the Contractor shall at once notify the Owner. Matters concerning and interpretation of requirements of the Contract Documents will be decided by the Owner in the Owner's sole discretion, who may delegate that duty in some instances to the Architect/Engineer. Responses to Contractor's requests for interpretation of Contract Documents will be made in writing by Owner (or the Architect/Engineer) within any time limits agreed upon or otherwise with reasonable promptness. Contractor shall not proceed without direction in writing from the Owner (or Architect/Engineer).
- A.3.4 References to standard specifications, manuals, codes of any technical society, organization or association, to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws or regulations in effect in the jurisdiction where the Project Site is located on the first published date of the Solicitation Document, except as may be otherwise specifically stated.

# A.4 EXAMINATION OF PLANS, SPECIFICATIONS, AND PROJECT SITE

- A.4.1 It is understood that the Contractor, before submitting an Offer, has made a careful examination of the Contract Documents; has become fully informed as to the quality and quantity of materials and the character of the Work required; and has made a careful examination of the location and conditions of the Work and the sources of supply for materials. The Owner will in no case be responsible for any loss or for any unanticipated costs that may be suffered by the Contractor as a result of the Contractor's failure to acquire full information in advance in regard to all conditions pertaining to the Work. No oral agreement or conversation with any officer, agent, or personnel of the Owner, or with the Architect/Engineer either before or after the execution of the Contract, shall affect or modify any of the terms or obligations herein contained. Contractor shall at all times be responsible for all utility locates regardless of the ownership of such utility infrastructure or service.
- A.4.2 Should the Plans or Specifications fail to particularly describe the materials, kind of goods, or details of construction of any aspect of the Work, Contractor shall have the duty to make inquiry of the Owner and Architect/Engineer as to what is required prior to performance of the Work. Absent Specifications to the contrary, the materials or processes that would normally be used to produce first quality finished Work shall be considered a part of the Contract requirements.
- A.4.3 Any design errors or omissions noted by the Contractor shall be reported promptly to the Owner, including without limitation, any nonconformity with Applicable Laws.
- A.4.4 If the Contractor believes that adjustments to cost or Contract Time are involved because of clarifications or instructions issued by the Owner (or Architect/Engineer) in response to the Contractor's notices or requests for information, the Contractor must submit a written request to the Owner, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than thirty (30) Days after receipt by Contractor of the clarifications or instructions issued. If the Owner denies Contractor's request for additional compensation, additional Contract Time, or other relief that Contractor believes results from the clarifications or instructions, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process. If the Contractor fails to

- perform the obligations of Sections A.4.1 to A.4.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations.
- A.4.5 If the Contractor believes that adjustments to cost or Contract Time are involved because of an Unavoidable Delay caused by differing Project Site conditions, the Contractor shall notify the Owner immediately of differing Project Site conditions before the area has been disturbed. The Owner will investigate the area and make a determination as to whether or not the conditions differ materially from either the conditions stated in the Contract Documents or those which could reasonably be expected in execution of this particular Contract. If Contractor and the Owner agrees that a differing Project Site condition exists, any adjustment to compensation or Contract Time will be determined based on the process set forth in Section D.2.2 for adjustments to or deletions from Work. If the Owner disagrees that a differing Project Site condition exists and denies Contractor's request for additional compensation or Contract Time, Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

#### A.5 INDEPENDENT CONTRACTOR STATUS

The service or services to be performed under the Contract are those of an independent contractor as defined in ORS 670.600. Contractor represents and warrants that it is not an officer, employee or agent of the Owner as those terms are used in ORS 30.265.

### A.6 <u>RETIREMENT SYSTEM STATUS AND TAXES</u>

Contractor represents and warrants that it is not a contributing member of the Public Employees' Retirement System and will be responsible for any federal or state taxes applicable to payment received under the Contract. Contractor will not be eligible for any benefits from these Contract payments of federal Social Security, employment insurance, workers' compensation or the Public Employees' Retirement System, except as a self-employed individual. Unless the Contractor is subject to backup withholding, Owner will not withhold from such payments any amount(s) to cover Contractor's federal or state tax obligations.

### A.7 GOVERNMENT EMPLOYMENT STATUS

A.7.1 If this payment is to be charged against federal funds, Contractor represents and warrants that it is not currently employed by the Federal Government. This does not preclude the Contractor from holding another contract with the Federal Government.

# SECTION B ADMINISTRATION OF THE CONTRACT

### B.1 OWNER'S ADMINISTRATION OF THE CONTRACT

- B.1.1 The Owner shall administer the Contract as described in the Contract Documents throughout the term of the Contract, including the one-year period for correction of Work. The Owner will act as provided in the Contract Documents, unless modified in writing in accordance with other provisions of the Contract. In performing these tasks, the Owner may rely on the Architect/Engineer or other agents to perform some or all of these tasks.
- B.1.2 The Owner may visit the Project Site at intervals appropriate to the stage of the Contractor's operations (1) to become generally familiar with and to keep the Owner informed about the progress and quality of the portion of the Work completed, (2) to endeavor to guard the Owner against defects and deficiencies in the Work, and (3) to determine in general if Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. The Owner will not make exhaustive or continuous on-Project Site inspections to check the quality or quantity of the Work. Unless otherwise required in a Change Order, the Owner will neither have control over or charge

- of, nor be responsible for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work.
- B.1.3 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, the Owner and Contractor shall communicate with each other within a reasonable time frame about matters arising out of or relating to the Contract. Communications by and with the Architect/Engineer's consultants shall be through the Architect/Engineer. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.
- B.1.4 Based upon the Architect/Engineer's evaluations of the Contractor's Application for Payment, or unless otherwise stipulated by the Owner, the Architect/Engineer will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

# B.2 CONTRACTOR'S MEANS AND METHODS; MITIGATION OF IMPACTS

- B.2.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the Project Site safety thereof and, except as stated below, shall be fully and solely responsible for the Project Site safety of such means, methods, techniques, sequences or procedures.
- B.2.2 The Contractor is responsible to protect and maintain the Work during the course of construction and to mitigate any adverse impacts to the Project, including those caused by authorized changes, which may affect cost, schedule, or quality.
- B.2.3 The Contractor is responsible for the actions of all its personnel, laborers, suppliers, agents, and Subcontractors on the Project. The Contractor shall enforce strict discipline and good order among Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of persons who are unfit or unskilled for the tasks assigned to them.

### **B.3** MATERIALS AND WORKMANSHIP

- B.3.1 The intent of the Contract Documents is to provide for the construction and completion of every detail of the Work described. All Work shall be performed in a professional manner and, unless the means or methods of performing a task are specified elsewhere in the Contract Documents, Contractor shall employ methods that are generally accepted and used by the industry, in accordance with industry standards.
- B.3.2 The Contractor is responsible to perform the Work as required by the Contract Documents. Defective Work shall be corrected at the Contractor's sole expense and within a reasonable time frame.
- B.3.3 Work done and materials furnished may be subject to inspection and/or observation and testing by the Owner to determine if they conform to the Contract Documents. Inspection of the Work by the Owner does not relieve the Contractor of responsibility for the Work in accordance with the Contract Documents.
- B.3.4 Contractor shall furnish adequate facilities, as required, for the Owner to have safe access to the Work including without limitation walkways, railings, ladders, tunnels, and platforms.

- Producers, suppliers, and fabricators shall also provide proper facilities and access to their facilities.
- B.3.5 The Contractor shall furnish Samples of materials for testing by the Owner and include the cost of the Samples in the Contract Price.

### **B.4 PERMITS**

Contractor shall obtain and pay for all necessary permits, licenses and fees, except for those specifically excluded in the Supplemental General Conditions, as required for the project. Contractor shall be responsible for all violations of the law. Contractor shall give all requisite notices to public authorities.

### B.5 COMPLIANCE WITH GOVERNMENT REGULATIONS

- B.5.1 Contractor shall comply with Applicable Laws, as amended pertaining to the Work and the Contract. Failure to comply with such requirements shall constitute a breach of Contract and shall be grounds for Contract termination. Without limiting the generality of the foregoing, Contractor expressly agrees to comply with the following, as applicable and as may be amended from time to time: (i) Title VI and VII of Civil Rights Act of 1964, as amended; (ii) Section 503 and 504 of the Rehabilitation Act of 1973, as amended; (iii) the Health Insurance Portability and Accountability Act of 1996; (iv) the Americans with Disabilities Act of 1990, as amended; (v) ORS Chapter 659A; as amended; (vi) all regulations and administrative rules established pursuant to any applicable laws; and (vii) all other applicable requirements of federal, state, county or other local government entity statutes, rules and regulations.
- B.5.2 Contractor shall comply with all applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations, and
  - (a) Contractor shall not discriminate against Disadvantaged, Minority, Women or Emerging Small Business enterprises, as those terms are defined in ORS 200.005, or a business enterprise that is owned or controlled by or that employs a disabled veteran, as that term is defined in ORS 408.225, in the awarding of subcontracts.
  - (b) Contractor shall maintain, in current and valid form, all licenses and certificates required by Applicable Laws or the Contract when performing the Work.
- B.5.3 Contractor shall certify that it shall not accept a bid from Subcontractors to perform Work unless such Subcontractors are registered with the Construction Contractors Board in accordance with ORS 701.021 at the time they submit their bids to the Contractor.
- B.5.4 Contractor shall certify that each landscape contracting business, as defined in ORS 671.520(2), performing Work under the Contract holds a valid landscape construction professional license issued pursuant to ORS 671.560.
- B.5.5 The following notice is applicable to Contractors who perform excavation Work. 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 952-001-0090. You may obtain copies of the rules by calling the center at (877) 668-4001.
- B.5.6 Failure to comply with any or all of the requirements of B.5.1 through B.5.5 shall be a material breach of Contract and constitute grounds for Contract termination. Damages or costs resulting from such noncompliance shall be the responsibility of Contractor.

### **B.6 SUPERINTENDENCE**

Contractor shall keep on the Project Site, during the progress of the Work, a competent superintendent and any necessary assistants who shall be satisfactory to the Owner and who shall represent the Contractor on the Project Site. Directions given to the superintendent by the Owner shall be confirmed in writing to the Contractor.

### **B.7 INSPECTION**

- B.7.1 Owner shall have access to the Work at all times.
- B.7.2 Inspection of the Work will be made by the Owner at its discretion. The Owner will have authority to reject Work that does not conform to the Contract Documents in the Owner's sole discretion. Any Work found to be not in conformance with the Contract Documents, in the discretion of the Owner, shall be removed and replaced at the Contractor's expense.
- B.7.3 Contractor shall make or obtain at the appropriate time all tests, inspections and approvals of portions of the Work required by the Contract Documents or by Applicable Laws or orders of public authorities having jurisdiction. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work. The Contractor shall give the Owner timely notice of when and where tests and inspections are to be made so that the Owner may be present for such procedures. Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Owner.
- B.7.4 As required by the Contract Documents, Work done or material used without required inspection or testing and/or without providing timely notice to the Owner may be ordered removed at the Contractor's expense.
- B.7.5 If directed to do so by Owner or other permitting authority any time before the Work is accepted, the Contractor shall uncover portions of the completed Work for inspection. After inspection, the Contractor shall restore such portions of Work to the standard required by the Contract. If the Work uncovered is unacceptable or was done without required testing or inspection or sufficient notice to the Owner, the uncovering and restoration shall be done at the Contractor's expense. If the Work uncovered is acceptable and was done with sufficient notice to the Owner, the uncovering and restoration will be paid for pursuant to a Change Order.
- B.7.6 If any testing or inspection reveals failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Owner's and Architect/Engineer's services and expenses, shall be at the Contractor's expense.
- B.7.7 In Owner's sole discretion, it may authorize other interested parties to inspect the Work affecting their interests or property. Their right to inspect shall not make them a party to the Contract and shall not interfere with the rights of the parties of the Contract. Instructions or orders of such parties shall be transmitted to the Contractor, through the Owner.

### B.11 SUBCONTRACTS AND ASSIGNMENT

B.11.1 Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound by the terms and conditions of these General Conditions and

Supplemental General Conditions, and to assume toward the Contractor all of the obligations and responsibilities which the Contractor assumes toward the Owner thereunder, unless (1) the same are clearly inapplicable to the subcontract at issue because of legal requirements or industry practices, or (2) specific exceptions are requested by Contractor and approved in writing by Owner. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with subsubcontractors at any level.

- B.11.2 At Owner's request, Contractor shall submit to Owner prior to their execution either Contractor's form of subcontract, or the subcontract to be executed with any particular Subcontractor. If Owner disapproves such form, Contractor shall not execute the form until the matters disapproved are resolved to Owner's satisfaction. Owner's review, comment upon or approval of any such form shall not relieve Contractor of its obligations under this Agreement or be deemed a waiver of such obligations of Contractor.
- B.11.3 Contractor shall not assign, sell, or transfer its rights, or delegate its responsibilities under the Contract, in whole or in part, without the prior written approval of the Owner. No such written approval shall relieve Contractor of any obligations of the Contract, and any transferee shall be considered the agent of the Contractor and bound to perform in accordance with the Contract Documents. Contractor shall remain liable as between the original parties to the Contract as if no assignment had occurred.

### B.13 OWNER'S RIGHT TO DO WORK

Owner reserves the right to perform other or additional work at or near the Project Site with other agents than those of the Contractor. If such work takes place within or next to the Project Site, Contractor shall coordinate work with the other contractors or agents, cooperate with all other contractors or forces, carry out the Work in a way that will minimize interference and delay for all agents involved, place and dispose of materials being used so as not to interfere with the operations of another, and join the Work with the work of the others in an acceptable manner and perform it in proper sequence to that of the others. The Owner will resolve any disagreements that may arise between or among Contractor and the other contractors over the method or order of doing all work (including the Work). In case of unavoidable interference, the Owner will establish work priority (including the Work) in the Owner's sole discretion.

### **B.14 OTHER CONTRACTS**

In all cases and at any time, the Owner has the right to execute other contracts related to or unrelated to the Work of the Contract. The Contractor of the Contract shall fully cooperate with any and all other contractors without additional cost to the Owner in the manner described in Section B.13.

### B.17 ALLOWANCES

- B.17.1 The Contractor shall include in the Contract Price all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct.
- B.17.2 Unless otherwise provided in the Contract Documents:
  - (a) when finally reconciled, allowances shall cover the cost of the Contractor's materials and equipment delivered at the Project Site and all required taxes, less applicable trade discounts;
  - (b) Contractor's costs for unloading and handling at the Project Site, labor, installation costs, Overhead, profit and other

- expenses contemplated for stated allowance amounts shall be included in the Contract Price but not in the allowances;
- (c) whenever costs are more than or less than allowances, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (i) the difference between actual costs and the allowances under Section B.17.2(a) and (ii) changes in Contractor's costs under Section B.17.2(b);
- (d) Unless Owner requests otherwise, Contractor shall provide to Owner a proposed fixed price for any allowance work prior to its performance.

# $\begin{array}{l} \textbf{B.18 } \underline{\textbf{SUBMITTALS}}, \underline{\textbf{SHOP DRAWINGS}}, \underline{\textbf{PRODUCT DATA AND}} \\ \underline{\textbf{SAMPLES}} \end{array}$

- B.18.1 The Contractor shall prepare and keep current, for the Architect's/Engineer's approval (or for the approval of Owner if approval authority has not been delegated to the Architect/Engineer), a schedule and list of submittals which is coordinated with the Contractor's construction schedule and allows the Architect/Engineer reasonable time to review submittals. Owner reserves the right to finally approve the schedule and list of submittals. Submittals include, without limitation, Shop Drawings, Product Data, and Samples.
- B.18.2 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents. Review of submittals by the Architect/Engineer is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, or for approval of safety precautions or, unless otherwise specifically stated by the Architect/Engineer, of any construction means, methods, techniques, sequences or procedures, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect/Engineer's review of the Contractor's submittals shall not relieve the Contractor of its obligations under the Contract Documents. The Architect/Engineer's approval of a specific item shall not indicate approval of an assembly of which the item is a component. Informational submittals upon which the Architect/Engineer is not expected to take responsive action may be so identified in the Contract Documents. Submittals which are not required by the Contract Documents may be returned by the Architect/Engineer without action.
- B.18.3 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect/Engineer Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Architect/Engineer without action.
- B.18.4 By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents that the Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

- B.18.5 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect/Engineer.
- B.18.6 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect/Engineer's review or approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect/Engineer in writing of such deviation at the time of submittal and (i) the Architect/Engineer has given written approval to the specific deviation as a minor change in the Work, or (ii) a Change Order has been executed by Owner authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect/Engineer's review or approval thereof.
- B.18.7 In the event that Owner elects not to have the obligations and duties described under this Section B.18 performed by the Architect/Engineer, or in the event no Architect/Engineer is employed by Owner on the Project, all obligations and duties assigned to the Architect/Engineer hereunder shall be performed by the Owner.

#### **B.19 SUBSTITUTIONS**

The Contractor may make Substitutions only with the written consent of the Owner, after evaluation by the Owner and only in accordance with a Change Order. Substitutions shall be subject to the requirements of the Solicitation Document. By making requests for Substitutions, the Contractor represents that the Contractor has personally investigated the proposed substitute product; represents that the Contractor will provide the same warranty for the Substitution that the Contractor would for the product originally specified unless approved otherwise; certifies that the cost data presented is complete and includes all related costs under the Contract including redesign costs, and waives all claims for additional costs related to the Substitution which subsequently become apparent; and will coordinate the installation of the accepted Substitution, making such changes as may be required for the Work to be completed in all respects.

### **B.20 USE OF PLANS AND SPECIFICATIONS**

Plans, Specifications and related Contract Documents furnished to Contractor by Owner or Owner's Architect/Engineer shall be used solely for the performance of the Work under the Contract. Contractor and its Subcontractors and suppliers are authorized to use and reproduce applicable portions of such documents appropriate to the execution of the Work, but shall not claim any ownership or other interest in them beyond the scope of the Contract, and no such interest shall attach. Unless otherwise indicated, all common law, statutory and other reserved rights, in addition to copyrights, are retained by Owner.

### SECTION C WAGES AND LABOR

### C.1 PREVAILING WAGE RATES ON PUBLIC WORKS

Contractor shall comply fully with the provisions of ORS 279C.800 through 279C.870. Pursuant to ORS 279C.830(1)(d), Contractor shall pay workers at not less than the specified minimum hourly rate of wage, and shall include that requirement in all subcontracts. If the Work is subject to both the state prevailing wage rate law and the federal Davis-Bacon Act, Contractor shall pay the higher of the applicable state or federal prevailing rate of wage. Contractor shall provide written notice to all workers of the number of hours per day and days per week such workers may be required to work.

### C.2 PAYROLL CERTIFICATION AND FEE REQUIREMENTS

- In accordance with ORS 279C.845, the Contractor and every Subcontractor shall submit written certified statements to the Owner on the form prescribed by the Commissioner of the Bureau of Labor and Industries ("BOLI"), certifying the hourly rate of wage paid each worker which the Contractor or the Subcontractor has employed on the Project and further certifying that no worker employed on the Project has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract, which certificate and statement shall be verified by the oath of the Contractor or the Subcontractor that the Contractor or Subcontractor has read the certified statement, that the Contractor or Subcontractor knows the contents of the certified statement, and, that to the Contractor's or Subcontractor's best knowledge and belief, the certified statement is true. The certified statements shall set out accurately and completely the payroll records for the prior week, including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid. Certified statements for each week during which the Contractor or Subcontractor has employed a worker on the Project shall be submitted once a month, by the fifth (5<sup>th</sup>) business day of the following month. The Contractor and Subcontractors shall preserve the certified statements for a period of ten (10) years from the date of completion of the Contract.
- C.2.2 Pursuant to ORS 279C.845(7), the Owner shall retain 25 percent of any amount earned by the Contractor on the Project until the Contractor has filed the certified statements required by section C.2.1. The Owner shall pay to the Contractor the amount retained under this subsection within 14 days after the Contractor files the required certified statements, regardless of whether a Subcontractor has failed to file certified statements.
- C.2.3 Pursuant to ORS 279C.845(8), the Contractor shall retain 25 percent of any amount earned by a first-tier Subcontractor on this Project until the first-tier Subcontractor has filed with the Owner the certified statements required by C.2.1. Before paying any amount retained under this subsection, the Contractor shall verify that the first-tier Subcontractor has filed the certified statement. Within 14 days after the first-tier Subcontractor files the required certified statement the Contractor shall pay the first-tier Subcontractor any amount retained under this subsection.
- C.2.4 In accordance with statutory requirements and administrative rules promulgated by the Commissioner of the Bureau of Labor and Industries, the fee required by ORS 279C.825(1) will be paid by Owner to the Commissioner.

### C.3 PROMPT PAYMENT AND CONTRACT CONDITIONS

- C.3.1 As a condition to Owner's performance hereunder, the Contractor shall:
- C.3.1.1 Make payment promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the Work provided for in the Contract.
- C.3.1.2 Pay all contributions or amounts due the State Industrial Accident Fund or successor program from such Contractor or Subcontractor incurred in the performance of the Contract.
- C.3.1.3 Not permit any lien or claim to be filed or prosecuted against the Owner on account of any labor or material furnished. Contractor will not assign any claims that Contractor has against Owner, or

- assign any sums due by Owner, to Subcontractors, suppliers, or manufacturers, and will not make any agreement or act in any way to give Subcontractors a claim or standing to make a claim against the Owner.
- C.3.1.4 Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.
- C.3.2 As a condition to Owner's performance hereunder, if Contractor fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to the Contractor of a Subcontractor by any person in connection with the Project as such claim becomes due, the proper officer(s) representing the Owner may pay the claim and charge the amount of the payment against funds due or to become due Contractor under the Contract. Payment of claims in this manner shall not relieve the Contractor or the Contractor's surety from obligation with respect to any unpaid claims.
- C.3.3 Contractor shall include in each subcontract for property or services entered into by the Contractor and a first-tier subcontractor, including a material supplier, for the purpose of performing a construction contract, a payment clause that obligates the Contractor to pay the first-tier Subcontractor for satisfactory performance under its subcontract within ten (10) Days out of such amounts as are paid to the Contractor by the Owner under such contract.
- C.3.4 All employers, including Contractor, that employ subject workers who work under the Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its Subcontractors complies with these requirements.

### C.4 PAYMENT FOR MEDICAL CARE

As a condition to Owner's performance hereunder, Contractor shall promptly, as due, make payment to any person, co-partnership, association or corporation furnishing medical, surgical, and hospital care or other needed care and attention, incident to sickness or injury, to the employees of the Contractor, of all sums of which the Contractor agrees to pay for the services and all moneys and sums that the Contractor collected or deducted from the wages of employees under any law, contract or agreement for the purpose of providing or paying for the services.

### C.5 HOURS OF LABOR

As a condition to Owner's performance hereunder, no person shall be employed to perform Work under the Contract for more than ten (10) hours in any one day or forty (40) hours in any one week, except in cases of necessity, emergency or where public policy absolutely requires it. In such instances, Contractor shall pay the employee at least time and a half pay:

- (a) For all overtime in excess of eight (8) hours a day or forty (40) hours in any one week when the work week is five consecutive Days, Monday through Friday; or
- (b) For all overtime in excess of ten (10) hours a day or forty (40) hours in any one week when the work week is four consecutive Days, Monday through Friday; and
- (c) For all Work performed on Saturday and on any legal holiday specified in ORS 279C.540.

This Section C.5 will not apply to Contractor's Work under the Contract to the extent Contractor is currently a party to a collective bargaining agreement with any labor organization.

This Section C.5 shall not excuse Contractor from completion of the Work within the time required under the Contract.

## SECTION D CHANGES IN THE WORK

### D.1 CHANGES IN WORK

- D.1.1 The terms of the Contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, without prior written agreement and then only after any necessary approvals have been obtained. A Change Order is required to modify the Contract, which shall not be effective until its execution by the parties to the Contract and all approvals required by public contracting laws have been obtained.
- D.1.2 It is mutually agreed that changes in Plans, quantities, or details of construction may be necessary or desirable during the course of construction. Within the general scope of the Contract, the Owner may at any time, without notice to the sureties and without impairing the Contract, require changes it deems necessary or desirable within the scope of this Project and consistent with this Section D.1. All changes to the Work shall be documented and Change Orders shall be executed under the conditions of the Contract Documents. Such changes may include, but are not limited to:
  - (a) Modification of specifications and design.
  - (b) Increases or decreases in quantities.
  - (c) Increases or decreases to the amount of Work.
  - (d) Addition or elimination of any Work item.
  - (e) Change in the duration of the Project.
  - (f) Acceleration or delay in performance of Work.
  - (g) Deductive changes.

Deductive changes are those that reduce the scope of the Work, and shall be made by mutual agreement whenever feasible. In cases of suspension or partial termination under Section J, Owner reserves the right to unilaterally impose a deductive change and to self-perform such Work, for which the provisions of Section B.13 (Owner's Right to Do Work) shall then apply. Adjustments in compensation shall be made under Section D.1.3, in which costs for deductive changes shall be based upon a Direct Costs adjustment together with the related percentage markup specified for profit, Overhead and other indirect costs, unless otherwise agreed to by Owner.

- D.1.3 The Owner and Contractor agree that adjustments to or deletions from the Work shall be administered and compensated according to the following:
- (a) Unit Pricing: Unit pricing may be utilized at the Owner's option when unit prices or solicitation alternates were provided that established the cost for adjustments to Work, and a binding obligation exists under the Contract on the parties covering the terms and conditions of the adjustment to Work.
- (b) Fixed Fee: If the Owner elects not to utilize unit pricing, or in the event that unit pricing is not available or appropriate, fixed pricing may be used for adjustments to or deletions from the Work. In fixed pricing, the basis of payments or total price shall be agreed upon in writing between the parties to the Contract, and shall be established before the Work is done whenever feasible. Notwithstanding the foregoing, the mark-ups set forth in Section D.1.3(c) shall be utilized in establishing fixed pricing, and such mark-ups shall not be exceeded. Cost and price data relating to adjustments to or deletions from the Work shall be supplied by Contractor to Owner upon request, but Owner shall be under no obligation to make such requests.

(c) Time and Material: In the event that unit pricing and fixed pricing are not utilized, then adjustments to or deletions from the Work shall be performed on a cost reimbursement basis for Direct Costs. Such Work shall be compensated on the basis of the actual, reasonable and allowable cost of labor, equipment, and material furnished on the Work performed. The Contractor or Subcontractor who performs the Work shall be allowed to add up to ten percent (10%) markup to the Direct Costs as full compensation for profit, Overhead and other indirect costs for Work performed with the Contractor's or Subcontractor's own agents

Each ascending tier Subcontractor or the Contractor that did not perform the Work, will be allowed to add up to five percent (5%) supplemental markup on the Direct Costs of the Work (but not the above allowable markups) covered by a Change Order. No additional markup shall be permitted for any third tier or greater descending Subcontractor.

Example: \$20,000 of Direct Costs Work performed by a  $2^{nd}$  Tier Subcontractor

	Markup	Allowed Total Fee Plus Markup
General Contractor	5%	\$1,000.00
1st Tier Sub Contractor	5%	\$1,000.00
2 <sup>nd</sup> Tier Sub Contractor	10%	\$22,000.00

- (d) Payments made to the Contractor shall be complete compensation for Overhead, profit, and all costs that were incurred by the Contractor or by other agents furnished by the Contractor, including Subcontractors, for adjustments to or deletions from the Work pursuant to a Change Order. Owner may establish a maximum cost for additional Work under this Section D.1.3, which shall not be exceeded for reimbursement without additional written authorization from Owner in the form of a Change Order. Contractor shall not be required to complete such additional Work without additional authorization.
- D.1.4 Any necessary adjustment of Contract Time that may be required as a result of adjustments to or deletions from the Work must be agreed upon by the parties before the start of the revised Work unless Owner authorizes Contractor to start the revised Work before agreement on Contract Time adjustment.

Contractor shall submit any request for additional compensation (and additional Contract Time if Contractor was authorized to start Work before an adjustment of Contract Time was approved) as soon as possible but no later than thirty (30) Days after receipt of Owner's request for additional Work. If Contractor's request for additional compensation or adjustment of Contract Time is not made within the thirty (30) Day time limit, Contractor's requests pertaining to that additional Work shall be barred. The thirty (30) Day time limit for making requests shall not be extended for any reason, including without limitation Contractor's claimed inability to determine the amount of additional compensation or adjustment of Contract Time, unless an extension is granted in writing by Owner. If the Owner denies Contractor's request for additional compensation or adjustment of Contract Time, Contractor may proceed to file a Claim under Section D.3, Claims Review Process. No other reimbursement, compensation, or payment will be made, except as provided in Section D.1.5 for impact claims.

D.1.5 If any adjustment to Work under Section D.1.3 causes an increase or decrease in the Contractor's cost of, or the Contract Time required for the performance of any other part of the Work under the Contract, Contractor shall submit a written request to the Owner, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than thirty (30) Days after receipt of Owner's request for adjustments to or deletions from the Work by Contractor.

The thirty (30) Day time limit applies to claims of Subcontractors, suppliers, or manufacturers who may be affected by Owner's request for adjustments to or deletions from the Work and who request additional compensation or an extension of Contract Time to perform; Contractor has responsibility for contacting its Subcontractors, suppliers, or manufacturers within the thirty (30) Day time limit, and including their requests with Contractor's requests. If the request involves Work to be completed by Subcontractors, or materials to be furnished by suppliers or manufacturers, such requests shall be submitted to the Contractor in writing with full analysis and justification for the adjustments to compensation and Contract Time requested. The Contractor shall analyze and evaluate the merits of the requests submitted by Subcontractors, suppliers, and manufacturers to Contractor prior to including those requests and Contractor's analysis and evaluation of those requests with Contractor's requests for adjustments to compensation or Contract Time that Contractor submits to the Owner. Failure of Subcontractors, suppliers, manufacturers or others to submit their requests to Contractor for inclusion with Contractor's requests submitted to Owner within the time period and by the means described in this section shall constitute a waiver of these Subcontractor claims. The Owner will not consider direct requests or claims from Subcontractors, suppliers, manufacturers or others not a party to the Contract. The consideration of such requests and claims under this section does not give any Person, not a party to the Contract the right to bring a claim against Owner, whether in this claims process, in litigation, or in any dispute resolution process.

If the Owner denies the Contractor's request for adjustment to compensation or Contract Time, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

- D.1.6 No request or Claim by the Contractor for additional costs or an adjustment of Contract Time shall be allowed if made after receipt of final payment application under the Contract. Final payment application must be made by Contractor within the time required under Section E.6.4.
- D.1.7 It is understood that changes in the Work are inherent in construction of this type. The number of changes, the scope of those changes, and the effect they have on the progress of the original Work cannot be defined at this time. The Contractor agrees that it will work in good faith with Owner to undertake changes, when agreed upon by execution of a Change Order. Each change will be evaluated for extension of Contract Time and increase or decrease in compensation based on its own merit.

### D.2 DELAYS

- D.2.1 Contractor shall not be entitled to additional compensation or additional Contract Time for Avoidable Delays.
- D.2.2 In the event of Unavoidable Delays, Contractor may be entitled to the following:
  - (a) Contractor may be entitled to additional compensation or additional Contract Time, or both, for Unavoidable Delays described in Section D.2.1.2 (a) and (b).
  - (b) Contractor may be entitled to additional Contract Time for Unavoidable Delays described in Section D.2.1.2(c) and (d).

In the event of any requests for additional compensation or additional Contract Time, or both, as applicable, arising under this Section D.2.2 for Unavoidable Delays, other than requests for additional compensation or additional Contract Time for differing Project Site conditions for which a review process is established under Section A.4.5, Contractor shall submit a written notification of the delay to the Owner within two (2) Days of the occurrence of the cause of the delay. This written notification shall state the

cause of the potential delay, the Project components impacted by the delay, and the anticipated additional Contract Time extension or the additional compensation, or both, as applicable, resulting from the delay. Within seven (7) Days after the cause of the delay has been mitigated, or in no case more than thirty (30) Days after the initial written notification, the Contractor shall submit to the Owner, a complete and detailed request for additional compensation or additional Contract Time, or both, as applicable, resulting from the delay. If the Owner denies Contractor's request for additional compensation or adjustment of Contract Time, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

If Contractor does not timely submit the notices required under this Section D.2, Contractor's Claim shall be barred.

### D.3 CLAIMS REVIEW PROCESS

- D.3.1 All Contractor Claims shall be referred to the Owner for review. Contractor's Claims, including Claims for adjustments to compensation or Contract Time, shall be submitted in writing by Contractor to the Owner within five (5) Days after a denial of Contractor's initial request for an adjustment of Contract terms, payment of money, extension of Contract Time or other relief, provided that such initial request has been submitted in accordance with the requirements and within the time limits established in these County General Conditions. Within thirty (30) Days after the initial Claim, Owner shall receive from Contractor a complete and detailed description of the Claim (the "Detailed Notice") that includes all information required by Section D.3.2. Unless the Claim is made in accordance with these time requirements, it shall be barred.
- D.3.2 The Detailed Notice of the Claim shall be submitted in writing by Contractor and shall include all information, records and documentation necessary for the Owner to properly and completely evaluate the claim, including, but not limited to a detailed, factual statement of the basis of the Claim, pertinent dates, Contract provisions which support or allow the Claim, reference to or copies of any documents which support the Claim, the dollar value of the Claim, and the Contract Time adjustment requested for the Claim. If the Claim involves Work to be completed by Subcontractors, the Contractor will analyze and evaluate the merits of the Subcontractor claim prior to forwarding it and that analysis and evaluation to the Owner. The Owner will not consider direct claims from Subcontractors, suppliers, manufacturers, or others not a party to the Contract. Contractor agrees that it will make no agreement, covenant, or assignment, nor will it commit any other act that will permit or assist any Subcontractor, supplier, manufacturer, or other to directly or indirectly make a claim against Owner.
- D.3.3 The Owner, through the Architect/Engineer (or other employee or agent assigned by the Owner) will review all Claims and take one or more of the following preliminary actions within ten (10) Days of receipt of the Detailed Notice of a Claim: (1) request additional supporting information from the Contractor; (2) inform the Contractor and Owner in writing of the time required for adequate review and response; (3) reject the Claim in whole or in part and identify the reasons for rejection; (4) recommend approval of all or part of the Claim; (5) arrange a meeting with the Contractor for formal review of the Claim; or (6) propose an alternate resolution.
- D.3.4 Once the Engineer or Project Manager determines the Owner is in receipt of a properly submitted claim, the Engineer or Project Manager may arrange a meeting, as 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.

- D.3.5 The Owner's decision, through the Architect/Engineer (or other employee or agent assigned by the Owner), shall be final and binding on the Contractor unless appealed by written notice to the Owner within fifteen (15) Days of receipt of the decision. The Contractor must present written documentation supporting the Claim within fifteen (15) Days of the notice of appeal. After receiving the appeal documentation, the Owner, through the appropriate department director, shall review the materials and render a decision within thirty (30) Days after receiving the appeal documents.
- D.3.6 If, at any step in the claim decision or review process, the Contractor fails to promptly submit requested information or documentation that the Owner 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.
- D.3.7 Both parties agree to exercise their best efforts in good faith to resolve all disputes within sixty (60) Days of the issuance of the appeal in Section D. 3.4 above. If the parties are unable to resolve their issues through mediation or otherwise, either party may seek redress through all available remedies in equity or in law.
- D.3.8 Unless otherwise directed by Owner, Contractor shall proceed with the Work while any Claim, or mediation or litigation arising from a Claim, is pending. Regardless of the review period or the final decision of the Owner, the Contractor shall continue to diligently pursue the Work as identified in the Contract Documents. In no case is the Contractor justified or allowed to cease or delay Work, in whole or in part, without a written stop work order from the Owner.

# SECTION E PAYMENTS

#### E.1 SCHEDULE OF VALUES

The Contractor shall submit, by or before the pre-construction conference (as described in Section H.1.3), a schedule of values ("Schedule of Values") for the Contract Work. This schedule shall provide a breakdown of values for the Contract Work and will be the basis for progress payments. The breakdown shall demonstrate reasonable, identifiable, and measurable components of the Work. Unless objected to by the Owner, this schedule shall be used as the basis for reviewing Contractor's applications for payment. If objected to by Owner, Contractor shall revise the schedule of values and resubmit the same for approval of Owner.

#### **E.2 APPLICATIONS FOR PAYMENT**

- E.2.1 Owner shall make progress payments on the Contract monthly as Work progresses, in accordance with the requirements of this Section E.2 and ORS 279C.570. Applications for payment shall be based upon estimates of Work completed and the Schedule of Values. As a condition precedent to Owner's obligation to pay, all applications for payment shall be approved by the Owner. A progress payment shall not be considered acceptance or approval of any Work or waiver of any defects therein. Owner shall pay to Contractor interest in accordance with ORS 279C.570 for overdue invoices, not including retainage, due the Contractor. Overdue invoices will be those that have not been paid within the earlier of:
  - (a) Thirty (30) days after receipt of the invoice; or
  - (b) Fifteen (15) days after the payment is approved by the County.

Notwithstanding the foregoing, in instances when an application for payment is filled out incorrectly, or when there is any defect or impropriety in any submitted application or when there is a good faith dispute, Owner shall so notify the Contractor within fifteen (15) Days stating the reason or reasons the application for payment is defective or improper or the reasons for the dispute. A defective or improper application for payment, if corrected by the Contractor within seven (7) Days of being notified by the Owner, shall not cause a payment to be made later than specified in this section unless interest is also paid. Payment of interest will be postponed when payment on the principal is delayed because of disagreement between the Owner and the Contractor.

Owner reserves the right, instead of requiring the Contractor to correct or resubmit a defective or improper application for payment, to reject the defective or improper portion of the application for payment and pay the remainder of the application for such amounts which are correct and proper.

Owner, upon written notice to the Contractor, may elect to make payments to the Contractor only by means of Electronic Funds Transfers ("EFT") through Automated Clearing House ("ACH") payments. If Owner makes this election, the Contractor shall arrange for receipt of the EFT/ACH payments.

- E.2.2 Contractor shall submit to the Owner an application for each payment and, if required, receipts or other vouchers showing payments for materials and labor including payments to Subcontractors. Contractor shall include in its application for payment a schedule of the percentages of the various parts of the Work completed, based on the Schedule of Values which shall aggregate to the payment application total, and shall include, on the face of each copy thereof, a certificate in substantially the following form:
  - "I, the undersigned, hereby certify that the above bill is true and correct, and the payment therefore, has not been received.

Signed:	 _
Dated:	,,

- E.2.3 Generally, applications for payment will be accepted only for materials that have been installed. Under special conditions, applications for payment for stored materials will be accepted at Owner's sole discretion. Such a payment, if made, will be subject to the following conditions:
  - (a) The request for stored material shall be submitted at least thirty (30) Days in advance of the application for payment on which it appears. Applications for payment shall be entertained for major equipment, components or expenditures only.
  - (b) The Contractor shall submit applications for payment showing the quantity and cost of the material stored.
  - (c) The material shall be stored in a bonded warehouse and Owner shall be granted the right to access the material for the purpose of removal or inspection at any time during the Contract Period.
  - (d) The Contractor shall name the Owner as co-insured on the insurance policy covering the full value of the property while in the care and custody of the Contractor until it is installed. A certificate noting this coverage shall be issued to the Owner.
  - (e) Payments shall be made for materials and equipment only. The submitted amount in the application for payment shall be reduced by the cost of transportation from the storage site to the Project Site and for the cost of an inspector to verify delivery and condition of the goods at the storage site. The cost of storage and inspection shall be borne solely by the Contractor.
  - (f) Within sixty (60) Days of the application for payment, the Contractor shall submit evidence of payment covering the

- material and/or equipment stored and of payment for the storage site.
- (g) Payment for stored materials and/or equipment shall in no way indicate acceptance of the materials and/or equipment or waive any rights under the Contract for the rejection of the Work or materials and/or equipment not in conformance with the Contract Documents.
- (h) All required documentation shall be submitted with the respective application for payment.
- E.2.4 The Owner reserves the right to withhold all or part of a payment, or may nullify in whole or part any payment previously made, to such extent as may be necessary in the Owner's opinion to protect the Owner from loss because of:
  - (a) Work that is defective and not remedied, or that has been demonstrated or identified as failing to conform with Applicable Laws or the Contract Documents;
  - (b) third party claims filed or evidence reasonably indicating that such claims will likely be filed unless security acceptable to the Owner is provided by the Contractor;
  - (c) failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment (in which case Owner may issue checks made payable jointly to Contractor and such unpaid persons under this provision, or directly to Subcontractors and suppliers at any level under Section C.3.2);
  - (d) reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Price;
  - (e) damage to the Work, Owner or Owner's agent;
  - (f) reasonable evidence that the Work will not be completed within the Contract Time required by the Contract, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay;
  - (g) failure to carry out the Work in accordance with the Contract Documents; or
  - (h) assessment of liquidated damages, when withholding is made for offset purposes.
- E.2.5 Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:
  - (a) Take that portion of the Contract Price properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Price allocated to that portion of the Work in the Schedule of Values, less retainage as provided in Section E.5. Pending final determination of cost to the Owner of changes in the Work, no amounts for changes in the Work can be included in applications for payment until the Contract Price has been adjusted by a Change Order;
  - (b) Add that portion of the Contract Price properly allocable to materials and equipment delivered and suitably stored at the Project Site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner pursuant to Section E.2.3, suitably stored off the Project Site at a location agreed upon in writing), less retainage as provided in Section E.5;

- (c) Subtract the aggregate of previous payments made by the Owner: and
- (d) Subtract any amounts for which the Owner has withheld or nullified payment as provided in the Contract Documents.
- E.2.6 Contractor's applications for payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay to a Subcontractor or material supplier.
- E.2.7 The Contractor warrants to Owner that title to all Work covered by an application for payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an application for payment all Work for which payments are received from the Owner shall be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided financing, labor, materials and equipment relating to the Work.
- E.2.8 If Contractor disputes any determination by Owner with regard to any application for payment, Contractor nevertheless shall continue to expeditiously perform the Work. No payment made hereunder shall be or be construed to be final acceptance or approval of that portion of the Work to which such partial payment relates or shall relieve Contractor of any of its obligations hereunder.

# E.3 PAYROLL CERTIFICATION REQUIREMENT

Owner's receipt of payroll certification pursuant to Section C.2 of the Contract shall be a condition precedent to Owner's obligation to pay any progress payments or final payment otherwise due.

#### E.4 DUAL PAYMENT SOURCES

Contractor shall not be compensated for Work performed under the Contract from any state agency other than the agency that is a party to the Contract

#### E.5 RETAINAGE

- E.5.1 Retainage shall be withheld and released in accordance with the requirements set forth in Local Contract Review Board Rules or the applicable County standard.
- E.5.1.1 Owner may reserve as retainage from any progress payment in an amount not to exceed five percent of the payment. As Work progresses, Owner may reduce the amount of retainage on or may eliminate retainage on any remaining monthly Contract payments after fifty (50) percent of the Work under the Contract is completed if, in the Owner's discretion, such Work is progressing satisfactorily. Elimination or reduction of retainage shall be allowed only upon written application by the Contractor, which application shall include written approval of Contractor's surety; except that when the Work is ninety-seven and a half percent (97.5%) completed in Owner's estimation, the Owner may, at its discretion and without application by the Contractor, reduce the retained amount to hundred (100) percent of the value of the Work remaining to be done. Upon receipt of written application by the Contractor, Owner shall respond in writing within a reasonable time.
- E.5.1.2 Contractor may request in writing:
  - (a) to be paid amounts which would otherwise have been retained from progress payments where Contractor has deposited acceptable bonds and securities of equal value with Owner or in a custodial account or other mutually agreed account satisfactory to Owner, with an approved bank or trust company to be held in lieu of the cash retainage for the benefit of Owner;

- (b) for construction projects over \$1,000,000, that retainage be deposited in an interest bearing account, established through the County Treasurer for county agencies, in a bank, savings bank, trust company or savings association for the benefit of Owner, with earnings from such account accruing to the Contractor; or
- (c) that the Owner allow Contractor to deposit a surety bond for the benefit of Owner, in a form acceptable to Owner, in lieu of all or a portion of funds retained, or to be retained. Such bond and any proceeds therefrom shall be made subject to all claims in the manner and priority as set forth for retainage.

When the Owner has accepted the Contractor's election of option (a) or (b), Owner may recover from Contractor any additional costs incurred through such election by reducing Contractor's final payment. Where the Owner has agreed to Contractor's request for option (c), Contractor shall accept like bonds from Subcontractors and suppliers on the Project from which Contractor has required retainages.

- E. 5.1.3 The retainage held by Owner shall be included in and paid to the Contractor as part of the final payment of the Contract Price. The Owner shall pay to Contractor interest at the rate of two thirds of one percent per month on the final payment due Contractor, interest to commence forty-five (45) Days after the date which Owner receives Contractor's final approved application for payment and Work under the Contract has been completed and accepted and to run until the date when final payment is tendered to Contractor. The Contractor shall notify Owner in writing when the Contractor considers the Work complete and deliver to Owner its final application for payment and Owner shall, within fifteen (15) Days after receiving the written notice and the application for payment, either accept the Work or notify the Contractor of Work yet to be performed on the Contract. If Owner does not within the time allowed notify the Contractor of Work yet to be performed to fulfill contractual obligations, the interest provided by this subsection shall commence to run forty-five (45) Days after the end of the fifteen (15) Day period.
- E.5.1.4 Owner will reduce the amount of the retainage if the Contractor notifies the Owner that the Contractor has deposited in an escrow account with a bank or trust company, in a manner authorized by the Owner, bonds and securities of equal value of a kind approved by the Owner and such bonds and securities have in fact been deposited.
- E.5.1.5 Contractor agrees that if Contractor elects to reserve a retainage from any progress payment due to any Subcontractor or supplier, such retainage shall not exceed five percent of the payment, and such retainage withheld from Subcontractors and suppliers shall be subject to the same terms and conditions stated in Subsection E.5 as apply to Owner's retainage from any progress payment due to Contractor.

#### E.6 FINAL PAYMENT

E.6.1 Upon completion of all the Work under the Contract, the Contractor shall notify the Owner, in writing, that Contractor has completed Contractor's obligations under the Contract and shall prepare its application requesting final payment. The amount of final payment will be the difference between the total amount due the Contractor pursuant to the Contract Documents and the sum of all payments previously made. Upon receipt of such notice and application for payment, the Owner will inspect the Work, and, if acceptable, submit to Contractor a recommendation as to acceptance of the completed Work and the final estimate of the amount due the Contractor. If the Work is not acceptable, Owner will notify Contractor within fifteen (15) Days of Contractor's request for final payment. Upon approval of this final application

- for payment by the Owner and compliance by the Contractor with provisions in Section K, and Contractor's satisfaction of other provisions of the Contract Documents as may be applicable, the Owner shall pay to the Contractor all monies due under the provisions of these Contract Documents.
- E.6.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Owner (1) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least thirty (30) Days' prior written notice has been given to the Owner, (2) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (3) consent of surety, if any, to final payment and (4), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien.
- E.6.3 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final application for payment.
- E.6.4 Contractor agrees to submit its final payment application within ninety (90) Days after Substantial Completion, unless written extension is granted by Owner. Contractor shall not delay final payment application for any reason, including without limitation nonpayment of Subcontractors, suppliers, manufacturers or others not a party to the Contract, or lack of resolution of a dispute with Owner or any other person of matters arising out of or relating to the Contract. If Contractor fails to submit its final payment application within ninety (90) Days after Substantial Completion, and Contractor has not obtained written extension by Owner, all requests or Claims for additional costs or an extension of Contract Time shall be barred.

# SECTION F PROJECT SITE CONDITIONS

#### F.1 USE OF PREMISES

Contractor shall confine equipment, storage of materials and operation of Work to the limits indicated by Contract Documents, Applicable Laws, permits or directions of the Owner. Contractor shall follow the Owner's instructions regarding use of premises, if any.

# F.2 PROTECTION OF WORKERS, PROPERTY AND THE PUBLIC

- F.2.1 Contractor shall maintain continuous and adequate protection of all of the Work from damage and shall protect the Owner, workers and property from injury or loss arising in connection with the Contract. Contractor shall remedy acceptably to the Owner any damage, injury, or loss, except such as may be directly due to errors in the Contract Documents or caused by authorized representatives or personnel of the Owner. Contractor shall adequately protect adjacent property as provided by law and the Contract Documents.
- F.2.2 Contractor shall take all necessary precautions for the safety of all personnel on the Project Site or otherwise engaged in the undertaking of the Work and shall comply with the Contract Documents, best practices and all applicable provisions of federal,

state and municipal safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and progress of the Work, all necessary safeguards for protection of workers and the public against any hazards created by construction. Contractor shall designate a responsible employee or associate on the Project Site, whose duty shall be the prevention of accidents. The name and position of the person designated shall be reported to the Owner. The Owner has no responsibility for Project Site safety. Project Site safety shall be the responsibility of the Contractor.

- F.2.3 Contractor shall not enter upon private property without first obtaining permission from the property owner or its duly authorized representative. Contractor shall be responsible for the preservation of all public and private property along and adjacent to the Work contemplated under the Contract and shall use every precaution necessary to prevent damage thereto. In the event the Contractor damages any property, the Contractor shall at once notify the property owner and make, or arrange to make, full restitution. Contractor shall, immediately and in writing, report to the Owner, all pertinent facts relating to such property damage and the ultimate disposition of the claim for damage.
- F.2.4 Contractor shall be responsible for protection of adjacent work areas including impacts brought about by activities, equipment, labor, utilities, vehicles and materials on the Project Site.
- F.2.5 Contractor shall at all times direct its activities in such a manner as to minimize adverse effects on the environment. Handling of all materials shall be conducted so no release will occur that may pollute or become hazardous.
- F.2.6 In an emergency affecting the safety of life or limb or of the Work or of adjoining property, the Contractor, without special instruction or authorization from the Owner, shall act reasonably to prevent threatened loss or injury, and shall so act, without appeal, if instructed by the Owner. Any compensation claimed by the Contractor on account of emergency work shall be determined in accordance with section D.
- F.2.7 Contractor shall comply with all Owner safety rules and regulations, if applicable. Prior to commencement of any Work, Contractor and Subcontractors shall be required to complete an Owner Contractor Safety Orientation and submit all Owner required safety plans.
- F.2.8 Contractor shall demonstrate that an employee drug testing program is in place.

#### F.3 CUTTING AND PATCHING

- F.3.1 If applicable, Contractor shall be responsible for coordinating all cutting, fitting, or patching of the Work to make its several parts come together properly and fit to receive or be received by work of other contractors or Subcontractors shown upon, or reasonably implied by, the Contract Documents.
- F.3.2 If applicable, Contractor shall be responsible for restoring all cut, fitted, or patched surfaces to an original condition; provided, however, that if a different condition is specified in the Contract Documents, then Contractor shall be responsible for restoring such surfaces to the condition specified in the Contract Documents.

# F.4 CLEANING UP

From time to time as may be prudent or ordered by the Owner and, in any event, immediately after completion of the Work, the Contractor shall, at its own expense, clean up and remove all refuse and unused materials of any kind resulting from the Work. If Contractor fails to do so within

twenty-four (24) hours after notification by the Owner the work may be done by others and the cost charged to the Contractor and deducted from payment due the Contractor.

#### F.5 ENVIRONMENTAL CONTAMINATION

- F.5.1. Contractor shall be held responsible for and shall indemnify, defend (with counsel of Owner's choice), and hold harmless Owner from and against any costs, expenses, damages, claims, and causes of action, or any of them, resulting from all spills, releases, discharges, leaks and disposal of environmental pollution, including storage, transportation, and handling during the performance of the Work or Contractor's obligations under the Contract which occur as a result of, or are contributed by, the negligence or actions of Contractor or its personnel, agents, or Subcontractors or any failure to perform in accordance with the Contract Documents (except to the extent otherwise void under ORS 30.140). Nothing in this section F.5.1 shall limit Contractor's responsibility for obtaining insurance coverages required under Section G.3 of the Contract, and Contractor shall take no action that would void or impair such coverages.
- F.5.1.1 Contractor agrees to promptly dispose of such spills, releases, discharge or leaks to the satisfaction of Owner and regulatory agencies having jurisdiction in a manner that complies with Applicable Laws. Cleanup shall be at no cost to the Owner and shall be performed by properly qualified and, if applicable, licensed personnel.
- F.5.1.2 Unless otherwise approved in the Solicitation Document,
  Contractor shall obtain the Owner's written consent prior to
  bringing onto the Project Site any (i) environmental pollutants or
  (ii) hazardous substances or materials, as the same or reasonably
  similar terms are used in any Applicable Laws. In any event,
  Contractor shall provide prior written notice to Owner when
  hazardous materials are brought on to the Project Site. The
  Contractor, at all times, shall:
  - (a) properly handle, use and dispose of all environmental pollutants and hazardous substances or materials on the Project Site, in accordance with all Applicable Laws;
  - (b) be responsible for any and all spills, releases, discharges, or leaks of (or from) environmental pollutants or hazardous substances or materials which Contractor has brought onto the Project Site; and
  - (c) promptly clean up and remediate, without cost to the Owner, such spills, releases, discharges, or leaks to the Owner's satisfaction and in compliance with all Applicable Laws.
- F.5.2 Contractor shall report all reportable quantity releases, as such releases are defined in Applicable Laws. Upon discovery, regardless of quantity, Contractor must verbally report all releases to the Owner in a prompt manner. A written follow-up report shall be submitted to Owner within 48 hours of the telephonic report. Such written report shall contain, as a minimum:
  - (a) Description of items released (identity, quantity, manifest numbers, and any and all other documentation required by law).
  - (b) Whether amount of items released is EPA/DEQ reportable, and, if so, when reported.
  - (c) Exact time and location of release, including a description of the area involved.
  - (d) Containment procedures initiated.

- (e) Summary of communications about the release between Contractor and State, local or federal officials other than Owner. Any communication to the press will be done by Owner and Contractor will defer to Owner.
- (f) Description of cleanup procedures employed or to be employed at the Project Site, including disposal location of spill residue.
- (g) Personal injuries, if any, resulting from, or aggravated by, the release

# F.6 ENVIRONMENTAL CLEAN-UP

- F.6.1 Unless disposition of environmental pollution is specifically a part of the Contract, or was caused by the Contractor (reference F.5 Environmental Contamination), Contractor shall immediately notify Owner of any hazardous substance(s) which Contractor discovers or encounters during performance of the Work required by the Contract. "Hazardous substance(s)" means any hazardous, toxic and radioactive materials and those substances defined as "hazardous substances," "hazardous materials," "hazardous wastes," "toxic substances," or other similar designations in any federal, state, or local law, regulation, or ordinance, including without limitation asbestos, polychlorinated biphenyl ("PCB"), or petroleum, and any substances, materials or wastes regulated by 40 CFR, Part 261 and defined as hazardous in 40 CFR S 261.3. In addition to notifying Owner of any hazardous substance(s) discovered or encountered, Contractor shall immediately cease working in any particular area of the Project where a hazardous substance(s) has been discovered or encountered if continued work in such area would present a risk or danger to the health or wellbeing of Contractor's or any Subcontractor's work force, property or the environment.
- F.6.2 Upon being notified by Contractor of the presence of hazardous substance(s) on the Project Site, not brought on to the Project Site by Contactor, Owner shall arrange for the proper disposition of such hazardous substance(s).

# SECTION G INDEMNITY, BONDING, AND INSURANCE

#### G.1 RESPONSIBILITY FOR DAMAGES / INDEMNITY

- G.1.1 Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay that may be caused by, or result from, the carrying out of the Work to be done under the Contract, or from any act, omission or neglect of the Contractor, its Subcontractors, employees, guests, visitors, invitees and agents.
- G.1.2 To the fullest extent permitted by law, Contractor shall indemnify, defend (with counsel approved by Owner) and hold harmless the Owner and its elected officials, officers, directors, agents, and employees (collectively "Indemnitees") from and against all liabilities, damages, losses, claims, expenses, demands and actions of any nature whatsoever which arise out of, result from or are related to: (a) any damage, injury, loss, expense, inconvenience or delay described in this Section G.1; (b) any accident or occurrence which happens or is alleged to have happened in or about the Project Site or any place where the Work is being performed, or in the vicinity of either, at any time prior to the time the Work is fully completed in all respects; (c) any failure of the Contractor to observe or perform any duty or obligation under the Contract Documents which is to be observed or performed by the Contractor, or any breach of any agreement, representation or warranty of the Contractor contained in the Contract Documents or in any subcontract; (d) the negligent acts or omissions of the Contractor, a Subcontractor or anyone directly or indirectly

employed by them or any one of them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder (except to the extent otherwise void under ORS 30.140); and (e) any lien filed upon the Project or bond claim in connection with the Work. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section G.1.2.

G.1.3 In claims against any person or entity indemnified under Section G.1.2 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section G.1.2 shall not be limited on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

# G.2 PERFORMANCE AND PAYMENT SECURITY; PUBLIC WORKS BOND

- G.2.1 When the Contract Price is \$50,000 or more, the Contractor shall furnish and maintain in effect at all times during the Contract Period a performance bond in a sum equal to the Contract Price and a separate payment bond also in a sum equal to the Contract Price. Contractor shall furnish such bonds even if the Contract Price is less than the above thresholds if otherwise required by the Contract Documents.
- G.2.2 Bond forms furnished by the Owner and notarized by Contractor's surety company authorized to do business in Oregon are the only acceptable forms of performance and payment security, unless otherwise specified in the Contract Documents.
- G.2.3 Before execution of the Contract, the Contractor shall file with the Construction Contractors Board, and maintain in full force and effect, the separate public works bond required by Oregon Revised Statutes, Chapter 279C.830 and 279C.836, unless otherwise exempt under those provisions. The Contractor shall also include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before starting Work, unless otherwise exempt, and shall verify that the Subcontractor has filed a public works bond before permitting any Subcontractor to start Work.

# G.3 INSURANCE

- G.3.1 Primary Coverage: Insurance carried by Contractor under the Contract shall be the primary coverage. The coverages indicated are minimums unless otherwise specified in the Contract Documents.
- G.3.2 Workers' Compensation: All employers, including Contractor, that employ subject workers who work under the Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. This shall include Employer's Liability Insurance with coverage limits of not less than the minimum amount required by statute for each accident. Contractors who perform the Work without the assistance or labor of any employee need not obtain such coverage if the Contractor certifies so in writing. Contractor shall ensure that each of its Subcontractors complies with these requirements. The Contractor shall require proof of such Workers' Compensation coverage by receiving and keeping on file a certificate of insurance from each Subcontractor or anyone else directly employed by either the Contractor or its Subcontractors.
- G.3.3 Builder's Risk Insurance:
- G.3.3.1 Builder's Risk: During the term of the Contract, for new construction the Contractor shall obtain and keep in effect

Builder's Risk insurance on an all risk forms, including earthquake and flood, for an amount equal to the full amount of the Contract, plus any changes in values due to modifications, Change Orders and loss of materials added. Such Builder's Risk shall include, in addition to earthquake and flood, theft, vandalism, mischief, collapse, transit, debris removal, and architect's fees "soft costs" associated with delay of Project due to insured peril. Any deductible shall not exceed \$50,000 for each loss, except the earthquake and flood deductible which shall not exceed 2 percent of each loss or \$50,000, whichever is greater. The deductible shall be paid by Contractor. The policy will include as loss payees Owner, the Contractor and its Subcontractors as their interests may appear.

- G.3.3.2 Builder's Risk Installation Floater: For Work other than new construction, Contractor shall obtain and keep in effect during the term of the Contract, a Builder's Risk Installation Floater for coverage of the Contractor's labor, materials and equipment to be used for completion of the Work performed under the Contract. The minimum amount of coverage to be carried shall be equal to the full amount of the Contract. The policy will include as loss payees Owner, the Contractor and its Subcontractors as their interests may appear. Owner may waive this requirement at its sole and absolute discretion
- G.3.3.3 Such insurance shall be maintained until Owner has occupied the facility.
- G.3.3.4 A loss insured under the Builder's Risk insurance shall be adjusted by the Owner and made payable to the Owner as loss payee. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner. The Owner shall have power to adjust and settle a loss with insurers.
- G.3.4 General Liability Insurance:
- G.3.4.1 Commercial General Liability: Upon execution of a Contract, Contractor shall obtain, and keep in effect at Contractor's expense for the term of the Contract, Commercial General Liability Insurance ("CGL") covering bodily injury and property damage in the amount of not less than \$1,000,000 per claim and \$2,000,000 per occurrence in a form satisfactory to Owner. This insurance shall include personal injury liability, products and completed operations, and contractual liability coverage for the indemnities provided under the Contract (to the extent contractual liability coverage for the indemnity is available in the marketplace), and shall be issued on an occurrence basis written on ISO Form GC 00 01 (12 04 or later) or an equivalent form approved in advance by Owner. The CGL shall provide separation of insured language. The policy or policies obtained by Contractor for purposes of fulfilling the requirements of this section shall be primary insurance with respect to the Owner. Any insurance or self-insurance maintained by the County shall be excess and shall not contribute to it.
- G.3.4.2 Automobile Liability: Contractor shall obtain, at Contractor's expense, and keep in effect during the term of the Contract, Automobile Liability Insurance covering owned, and/or hired vehicles, as applicable. The coverage may be written in combination with the Commercial General Liability Insurance. Contractor shall provide proof of insurance of not less than \$1,000,000 per claim and \$2,000,000 per occurrence. Contractor and its Subcontractors shall be responsible for ensuring that all non-owned vehicles maintain adequate Automobile Liability insurance while on Project Site.
- G.3.4.3 Owner may adjust the insurance amounts required in Section G.3.4.1 and G.3.4.2 based upon institution specific risk

- assessments through the issuance of Supplemental General Conditions and a Contract.
- G.3.4.4 To the extent that the Contract Documents require the Contractor to provide professional design services, design-build, or certifications related to systems, materials, or equipment, the Contractor shall (1) purchase and maintain professional liability/errors-and-omissions insurance with limits of not less than \$1,000,000 for each claim and \$2,000,000 general annual aggregate and (2) cause those Subcontractors (of any tier) who are providing professional design services including any designbuild services to procure and maintain professional liability/errors-and-omissions insurance with limits of not less than \$1,000,000 for each claim and \$2,000,000 general annual aggregate. This policy shall be for the protection of the Owner, its elected officials, officers, agents and employees against liability for damages because of personal injury, bodily injury, death, or damage to property, including loss of use thereof, and damages because of negligent acts, errors and omissions in any way related to the Contract. The Owner, at its option, may require a complete copy of the above policy.
- G.3.4.5 "Tail" Coverage: If any of the required liability insurance is arranged on a "claims made" basis, "tail" coverage will be required at the completion of the Contract for a duration of 36 months or the maximum time period available in the marketplace if less than 36 months. Contractor shall furnish certification of "tail" coverage as described or continuous "claims made" liability coverage for 36 months following Final Completion. Continuous "claims made" coverage will be acceptable in lieu of "tail" coverage, provided its retroactive date is on or before the effective date of the Contract. Owner's receipt of the policy endorsement evidencing such coverage shall be a condition precedent to Owner's obligation to make final payment and to Owner's final acceptance of Work or services and related warranty (if any).
- G.3.4.6 Umbrella Liability (if required by Owner through issuance of Supplemental General Conditions): Contractor shall obtain, at Contractor's expense, and keep in effect during the term of the Contract, Umbrella liability Insurance over and above the general liability, automobile liability and workers' compensation coverage if required by Owner in specified limits at time of requirement.
- G.3.4.7 Pollution Liability may be required by Owner through issuance of Supplemental General Conditions.
- G.3.5 Additional Insured: The general liability insurance coverage, automobile liability, umbrella, and pollution liability if required, shall include the Owner as additional insureds but only with respect to the Contractor's activities to be performed under the Contract. The additional-insured endorsement for CGL insurance must be written on ISO Form CG 20 10 (10 01) and CG 20 37 (10 01), or their equivalent, but shall not use either of the following forms: CG 20 10 (10 93) or CG 20 10 (03 94). Proof of insurance must include a copy of the endorsement showing "Clackamas County, its elected officials, agents, officers, and employees" as scheduled insureds.

If Contractor cannot obtain an insurer to name the Owner as additional insureds, Contractor shall obtain at Contractor's expense, and keep in effect during the term of the Contract, Owners and Contractors Protective Liability Insurance, naming the Owner as additional insureds with not less than a \$2,000,000 limit per occurrence. This policy must be kept in effect for 36 months following Final Completion. As evidence of coverage, Contractor shall furnish the actual policy to Owner prior to execution of the Contract.

G.3.6 Notice of Cancellation or Change: If the Contractor receives a non-renewal or cancellation notice from an insurance carrier affording coverage required herein, or receives notice that coverage no longer complies with the insurance requirements herein, Contractor agrees to notify Owner by fax within five (5) business days with a copy of the non-renewal or cancellation notice, or written specifics as to which coverage is no longer in compliance. When notified by Owner, the Contractor agrees to stop Work pursuant to the Contract at Contractor's expense, unless all required insurance remain in effect. Any failure to comply with the reporting provisions of this insurance, except for the potential exhaustion of aggregate limits, shall not affect the coverages provided to the Owner and its institutions, divisions, officers, and employees.

Owner shall have the right, but not the obligation, of prohibiting Contractor from entering the Project Site until a new certificate(s) of insurance is provided to Owner evidencing the replacement coverage. The Contractor agrees that Owner reserves the right to withhold payment to Contractor until evidence of reinstated or replacement coverage is provided to Owner.

Certificate(s) of Insurance/Insurance Carrier Qualification: As evidence of the insurance coverage required by the Contract, the Contractor shall furnish certificate(s) of insurance to the Owner prior to execution of the Contract. The certificate(s) will specify all of the parties who are additional insureds or loss payees for the Contract. A renewal certificate shall be sent to Owner at least 10 days prior to coverage expiration. Insurance coverage required under the Contract shall be obtained from insurance companies or entities acceptable to the Owner and that are eligible to provide such insurance under Oregon law. Eligible insurers include admitted insurers that have been issued a certificate of authority from the Oregon Department of Consumer and Business Services authorizing them to conduct an insurance business and issue policies of insurance in the state of Oregon, and certain non-admitted surplus lines insurers that satisfy the requirements of applicable Oregon law and which are subject to approval by the Owner. The Contractor shall be financially responsible for all deductibles, self-insured retentions and/or selfinsurance included hereunder. Any deductible, self-insured retention and/or self-insurance in excess of \$50,000 shall be subject to approval by the Owner in writing and shall be a condition precedent to the effectiveness of any Contract.

# SECTION H SCHEDULE OF WORK

### H.1 CONTRACT PERIOD

- H.1.1 Time is of the essence. The Contractor shall at all times carry on the Work diligently, without delay and punctually fulfill all requirements herein.
- H.1.2 Notice to Proceed. Unless otherwise directed in the Contract Documents, Contractor shall commence Work on the Project Site within fifteen (15) Days of the Notice to Proceed. Notwithstanding the Notice to Proceed, Contractor shall not be authorized to proceed with the Work until all initial Contract requirements, including the Contract, performance bond and payment bond, and certificates of insurance, have been fully executed and submitted in a form acceptable to Owner.
- H.1.3 Unless otherwise not required in the Construction Documents, Contractor shall participate in a pre-construction conference with the Owner's representative and designated design team. The purpose of this pre-construction conference is to review the Contractor's proposed Schedule of Values and to review any other Project logistics to be coordinated between the parties.

- H.1.4 Unless specifically extended by a Change Order, all Work shall be complete by the date contained in the Contract Documents. The Owner shall have the right to accelerate the completion date of the Work, which may require the use of overtime. Such accelerated Work schedule shall be an acceleration in performance of Work under Section D.1.2(f) and shall be subject to the provisions of Section D.1.
- H.1.5 The Owner shall not waive any rights under the Contract by permitting the Contractor to continue or complete in whole or in part the Work after the date described in Section H.1.2 above.

#### H.2 SCHEDULE

- H.2.1 Contractor shall provide, by or before the pre-construction conference, the initial as-planned schedule for review and acceptance by the Owner. The submitted schedule must illustrate Work by Project components, labor trades, and long lead items broken down by building and/or floor where applicable. If Owner shall so elect, Contractor shall provide the schedule in CPM format showing the graphical network of planned activities, including i) a reasonably detailed list of all activities required to complete the Work; ii) the time and duration that each activity will take to completion; and iii) the dependencies between the activities. Schedules lacking adequate detail, or unreasonably detailed, will be rejected. The schedule shall include the following: Notice to Proceed or the date the Work commences, if no Notice to Proceed is issued by Owner, Substantial Completion, and Final Completion. Schedules shall be updated monthly, unless otherwise required by the Contract Documents, and submitted with the monthly application for payment. Acceptance of the Schedule by the Owner does not constitute agreement by the Owner as to the Contractor's sequencing, means, methods, or durations. Any positive difference between the Contractor's scheduled completion and the Contract completion date is float owned by the Owner. Owner reserves the right to negotiate the float if it is deemed to be in Owner's best interest to do so. In no case shall the Contractor make a claim for delays if the Work is completed within the Contract Time but after Contractor's scheduled completion.
- H.2.2 All Work shall be completed during normal weekdays (Monday through Friday) between the hours of 7:00 a.m. and 5:00 p.m. unless otherwise specified in the Contract Documents. Unless otherwise specified in the Contract Documents, no Work shall be performed during the following holidays:
  - · New Year's Day
  - Martin Luther King Day
  - Memorial Day
  - Independence Day
  - Labor Day
  - Veterans Day
  - Thanksgiving Day
  - · Christmas Day
  - President's Day

When a holiday falls on a Sunday, the following Monday shall be recognized as a legal holiday. When a holiday falls on Saturday, the preceding Friday shall be recognized as a legal holiday.

#### H.3 PARTIAL OCCUPANCY OR USE

The Owner may occupy or use any completed or partially completed portion of the Work at any stage, provided such occupancy or use is consented to by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have reasonably accepted in writing the responsibilities assigned to each of them. Approval by

the Contractor to partial occupancy or use shall not be unreasonably withheld. Immediately prior to such partial occupancy or use, the Owner and Contractor shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work. Partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

# SECTION I CORRECTION OF WORK

#### I.1 CORRECTION OF WORK BEFORE FINAL PAYMENT

The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects, and that the Work will conform to the requirements of the Contract Documents. Work failing to conform to these requirements shall be deemed defective. Contractor shall promptly remove from the premises and replace all defective materials and equipment as determined by the Owner, whether incorporated in the Work or not. Removal and replacement shall be without loss or expense to the Owner, and Contractor shall bear the cost of repairing all Work destroyed or damaged by such removal or replacement. Contractor shall be allowed a period of no longer than thirty (30) Days after Substantial Completion for completion of defective (Punch List) work. At the end of the thirty-day period, or earlier if requested by the Contractor, Owner shall arrange for inspection of the Work by the Architect/Engineer. Should the work not be complete, and all corrections made, the costs for all subsequent reinspections shall be borne by the Contractor. If Contractor fails to complete the Punch List work within the thirty (30) Day period, Owner may perform such work and Contractor shall reimburse Owner all costs of the same within ten (10) Days after demand without affecting Contractor's obligations.

#### I.2 WARRANTY WORK

I.2.1 Neither the final certificate of payment nor any provision of the Contract Documents shall relieve the Contractor from responsibility for Defective Work and, unless a longer period is specified, Contractor shall correct all defects that appear in the Work within a period of one year from the date of issuance of the written notice of Substantial Completion by the Owner except for latent defects which will be remedied by the Contractor at any time they become apparent. The Owner shall give Contractor notice of defects with reasonable promptness. Contractor shall perform such warranty work within a reasonable time after Owner's demand and at Contractors sole expense. If Contractor fails to complete the warranty work within such period as Owner determines reasonable, or at any time in the event of warranty work consisting of emergency repairs, Owner may perform such work and Contractor shall reimburse Owner all costs of the same within ten (10) Days after demand, without affecting Contractor's obligations. The Contractor shall perform the warranty Work by correcting defects within twenty-four (24) hours of notification by Owner, unless otherwise specified in the Contract Documents. Should the Contractor fail to respond within the specified response time, the Owner may, at its option, complete the necessary repairs using another contractor or its agents. If Owner completes the repairs using Owner's agent, Contractor shall pay Owner at the rate of one and one-half (1½) times the standard hourly rate of Owner's agent, plus related overhead and any direct non-salary costs. If Owner completes the repairs using another contractor, Contractor shall pay Owner the amount of Owner's direct costs billed by the other contractor for the work, plus the direct salary costs and related overhead and direct non-salary expenses of Owner's agents who are required to monitor that contractor's work. Work performed by Owner using Owner's own agents or those of another contractor shall not affect the Contractor's contractual duties under these provisions, including warranty provisions.

- I.2.2 Nothing in this Section I.2 provision shall negate guarantees or warranties for periods longer than one year including without limitation, such guarantees or warranties required by other sections of the Contract Documents for specific installations, materials, processes, equipment or fixtures.
- I.2.3 In addition to Contractor's warranty, manufacturer's warranties shall pass to the Owner and shall not take effect until such portion of the Work covered by the applicable warranty has been accepted in writing by the Owner.
- 1.2.4 The one-year period for correction of Work shall be extended with respect to portions of Work performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of the Work, and shall be extended by corrective Work performed by the Contractor pursuant to this Section, as to the Work corrected. The Contractor shall remove from the Project Site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.
- I.2.5 Nothing contained in this Section I.2 shall be construed to establish a period of limitation with respect to other obligations which the Contractor might have under the Contract Documents.

  Establishment of the period for correction of Work as described in this Section I.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.
- I.2.6 If the Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Price will be reduced as appropriate and equitable as determined by Owner. Such adjustment shall be effected whether or not final payment has been made.

#### SECTION J SUSPENSION AND/OR TERMINATION OF THE WORK

#### J.1 OWNER'S RIGHT TO SUSPEND THE WORK

- J.1.1 The Owner has the authority to suspend portions or all of the Work due to the following causes:
  - (a) Failure of the Contractor to correct unsafe conditions;
  - (b) Failure of the Contractor to carry out any provision of the Contract;
  - (c) Failure of the Contractor to carry out orders;
  - (d) Conditions, in the opinion of the Owner, which are unsuitable for performing the Work;
  - (e) Time required to investigate differing Project Site conditions; or
  - (f) Any reason considered to be in the public interest.
- J.1.2 The Owner shall notify Contractor and the Contractor's Surety in writing of the effective date and time of the suspension, and Owner shall notify Contractor and Contractor's surety in writing to resume Work.

#### J.2 CONTRACTOR'S RESPONSIBILITIES

- J.2.1 During the period of the suspension, Contractor is responsible to continue maintenance at the Project just as if the Work were in progress. This includes, but is not limited to, protection of completed Work, maintenance of access, protection of stored materials, temporary facilities, and clean-up.
- J.2.2 When the Work is recommenced after the suspension, the Contractor shall replace or renew any Work damaged during the suspension, remove any materials or facilities used as part of temporary maintenance, and complete the Work in every respect as though its prosecution had been continuous and without suspension.

#### J.3 COMPENSATION FOR SUSPENSION

Depending on the reason for suspension of the Work, the Contractor or the Owner may be due compensation by the other party. If the suspension was required due to acts or omissions of Contractor, the Owner may assess the Contractor actual costs of the suspension in terms of administration, remedial work by the Owner's agents or another contractor to correct the problem associated with the suspension, rent of temporary facilities, and other actual costs related to the suspension, and any liquidated damages arising from the delay. If the suspension was caused by acts or omissions of the Owner, the Contractor may be due compensation which shall be defined using Section D, Changes in Work. If the suspension was required through no fault of the Contractor or the Owner, neither party shall owe the other for the impact.

#### J.4 OWNER'S RIGHT TO TERMINATE CONTRACT

- J.4.1 The Owner may, without prejudice to any other right or remedy, and after giving Contractor seven (7) Days' written notice and an opportunity to cure, terminate the Contract in whole or in part under the following conditions:
  - (a) If Contractor should, voluntarily or involuntarily, seek protection under the United States Bankruptcy Code and Contractor as debtor-in-possession or the Trustee for the estate fails to assume the Contract within a reasonable time;
  - (b) If Contractor should make a general assignment for the benefit of Contractor's creditors;
  - (c) If a receiver should be appointed on account of Contractor's insolvency;
  - (d) If Contractor should repeatedly refuse or fail to supply an adequate number of skilled workers or proper materials to carry on the Work as required by the Contract Documents, or otherwise fail to perform the Work in a timely manner;
  - (e) If Contractor should repeatedly fail to make prompt payment to Subcontractors or for material or labor, or should disregard laws, ordinances or the instructions of the Owner;
  - If Contractor is otherwise in breach of any part of the Contract; or
  - (g) If Contractor is in violation of Applicable Laws, either in the conduct of its business or in its performance of the Work.
- J.4.2 At any time that any of the above occurs, Owner may exercise all rights and remedies available to Owner at law or in equity, and, in addition, Owner may take possession of the premises and of all materials and appliances and finish the Work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive further payment until the Work is completed. If the Owner's cost of finishing the Work exceeds the unpaid balance

of the Contract Price, Contractor shall pay the difference to the Owner.

#### J.5 TERMINATION FOR CONVENIENCE, NONAPPROPRIATION OF FUNDS, OR FORCE MAJEURE

- J.5.1 Owner may terminate the Contract in whole or in part whenever Owner determines: (a) that termination of the Contract is in the best interest of Owner or the public; (b) that the Owner failed to receive funding, appropriations, allocations or other expenditure authority as contemplated by Owner's budget and Owner determines, in its sole determination, and its assessment and ranking of the policy objectives explicit or implicit in Owner's budget, Owner may determine it is necessary to and may terminate the Contract.; or (c) in the event of Force Majeure.
- J.5.2 The Owner shall provide the Contractor with seven (7) Days prior written notice of a termination for Owner's or for public convenience. After such notice, the Contractor shall provide the Owner with immediate and peaceful possession of the premises and materials located on and off the premises for which the Contractor received progress payment under Section E. Compensation for Work terminated by the Owner under this provision will be according to Section E. In no circumstance shall Contractor be entitled to lost profits for Work not performed due to termination. If the Contract is terminated for public convenience, neither the Contractor not its Surety shall be relieved of liability for damages or losses suffered by the Owner as a result of defective, unacceptable or unauthorized Work completed or performed.

#### J.6 ACTION UPON TERMINATION

- J.6.1 Upon receiving a notice of termination, and except as directed otherwise by the Owner, Contractor shall immediately cease placing further subcontracts or orders for materials, services, or facilities. In addition, Contractor shall terminate all subcontracts or orders to the extent they relate to the Work terminated and, with the prior written approval of the Owner, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts and orders.
- J.6.2 As directed by the Owner, Contractor shall, upon termination, transfer title and deliver to the Owner all Record Documents, information, and other property that, if the Contract had been completed, would have been required to be furnished to the Owner.
- J.6.3 Upon Owner's notice of termination pursuant to either Section J.4 or J.5, if Owner shall so elect, Contractor shall assign to the Owner such subcontracts and orders as Owner shall specify. In the event Owner elects to take assignment of any such subcontract or order, Contractor shall take such action and shall execute such documents as Owner shall reasonably require for the effectiveness of such assignment and Contractor shall ensure that no contractual arrangement between it and its subcontractors or suppliers of any tier or sub-tier shall prevent such assignment.

# SECTION K CONTRACT CLOSE OUT

# K.1 RECORD DOCUMENTS

As a condition of final payment (refer also to section E.6), Contractor shall comply with the following: Contractor shall provide Record Documents for the entire Project to Owner. Record Documents shall depict the Project as constructed and shall reflect each and every change, modification, and deletion made during the construction. Record Documents are part of the Work and shall be provided prior to the Owner's issuance of final payment. Record Documents include all modifications to the Contract Documents unless otherwise directed.

#### K.2 OPERATION AND MAINTENANCE MANUALS

As part of the Work, Contractor shall submit two completed operation and maintenance manuals ("O & M Manuals") for review by the Owner prior to submission of any pay request for more than 75% of the Work. Owner's receipt of the O & M Manuals shall be a condition precedent to any payment thereafter due. The O & M Manuals shall contain a complete set of all submittals, all product data as required by the specifications, training information, telephone list and contact information for all consultants, manufacturers, installer and suppliers, manufacturer's printed data, record and shop drawings, schematic diagrams of systems, appropriate equipment indices, warranties and bonds. The Owner shall review and return one O & M Manual for any modifications or adjustments required. Prior to submission of its final pay request, Contractor shall deliver two (2) complete and approved sets of O & M Manuals in paper form and one (1) complete and approved set in electronic form to the Owner and Owner's receipt of the O & M Manuals shall be a condition precedent to Owner's obligation to make final payment.

#### K.3 COMPLETION NOTICES

- K.3.1 Contractor shall provide Owner written notice of both Substantial and Final Completion. The certificate of Substantial Completion shall state the date of Substantial Completion, the responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and the time within which the Contractor shall finish all items on the Punch List accompanying the Certificate. Both completion notices must be signed and notarized by the Contractor and signed by the Architect/Engineer (if applicable) and Owner to be valid. The Owner shall provide the final signature on the notices. The notices shall take effect on the date they are signed by the Owner.
- K.3.2 Substantial Completion of a facility with operating systems (e.g., mechanical, electrical, HVAC) shall be that degree of completion that has provided a minimum of thirty (30) continuous Days of successful, trouble-free operation, which period shall begin after all performance and acceptance testing has been successfully demonstrated to the Owner. All equipment contained in the Work, plus all other components necessary to enable the Owner to operate the facility in the manner that was intended, shall be complete on the Substantial Completion date. The Contractor may request that a Punch List be prepared by the Owner with submission of the request for the Substantial Completion notice.

## K.4 TRAINING

As part of the Work, and prior to submission of the final application for payment, the Contractor shall schedule with the Owner training sessions for all equipment and systems as required by the Contract Documents. Contractor shall schedule training sessions at least two weeks in advance of the date of training to allow Owner to provide its personnel with adequate notice. If assignments arise because of termination under Section J.4, then such assignments shall not relieve Contractor of liability hereunder. The O & M Manual shall be used as a basis for training. In addition to any off-Project Site training required by the Contract Documents, training shall include a formal session conducted at the Project Site after the equipment and/or system is completely installed and operational in its normal operating environment.

#### K.5 EXTRA MATERIALS

As part of the Work, Contractor shall provide spare parts, extra maintenance materials, and other materials or products in the quantities specified in the Contract Documents prior to final payment. Delivery point for extra materials shall be designated by the Owner.

#### K.6 ENVIRONMENTAL CLEAN-UP

As part of the Final Completion notice, or as a separate written notice submitted with or before the notice of Final Completion, the Contractor shall notify the Owner that all environmental and pollution clean-up, remediation and closure have been completed in accordance with all Applicable Laws and pursuant to the authority of all agencies having jurisdiction, and Contractor shall provide Owner with any and all documentation related to the same, including but not limited to directives, orders, letters, certificates and permits related to or arising from such environmental pollution. The notice shall reaffirm the indemnification given under Section F.5.1 above. Contractor's completion of its obligations under this Section K.6 and Owner's receipt of documents evidencing such completion shall be a condition precedent to Owner's obligation to make final payment.

#### K.7 CERTIFICATE OF OCCUPANCY

Owner's receipt of an unconditioned certificate of occupancy from the appropriate state and/or local building officials shall be a condition precedent to Owner's obligation to make final payment, except to the extent failure to obtain an unconditional certificate of occupancy is due to the fault or neglect of Owner.

# K.8 OTHER CONTRACTOR RESPONSIBILITIES

The Contractor shall be responsible for returning to the Owner all property of Owner issued to Contractor during construction such as keys, security passes, Project Site admittance badges, and all other pertinent items. Upon notice from Owner, Contractor shall be responsible for notifying the appropriate utility companies to transfer utility charges from the Contractor to the Owner. The utility transfer date shall not be before Substantial Completion and may not be until Final Completion, if the Owner does not take beneficial use of the facility and the Contractor's agents continue with the Work.

The Owner's property is drug free and weapons free areas and the use of tobacco products is only allowed in designated areas. Contractor shall be required to ensure that its employees, Subcontractors and agents shall comply with these requirements.

# K.9 SURVIVAL

All warranty and indemnification provisions of the Contract, and all of Contractor's other obligations under the Contract that are not fully performed by the time of Final Completion or termination, shall survive Final Completion or any termination of the Contract.

# SECTION L GENERAL PROVISIONS

#### L.1 NO THIRD PARTY BENEFICIARIES

Owner and Contractor are the only parties to the Contract and are the only parties entitled to enforce its terms. Nothing in the Contract gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly, or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of the Contract.

#### L.2 SEVERABILITY

If any provision of the Contract is declared by a court to be unenforceable, illegal, or in conflict with any law, the validity of the remaining terms and provisions shall not be affected and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular provision held to be invalid.

#### L.3 ACCESS TO RECORDS

L.3.1 Contractor shall keep, at all times on the Project Site, one record copy of the complete Contract Documents, including the Plans, Specifications, addenda, and Change Orders (if any) in good order and marked currently to record field changes and selections made during construction, and one record copy of Shop Drawings, Product Data, Samples and similar submittals, and shall at all times give the Owner access thereto.

L.3.2 Contractor shall retain and the Owner and its duly authorized representatives shall have access, for a period not less than ten (10) years, to all Record Documents, financial and accounting records, and other books, documents, papers and records of Contractor which are pertinent to the Contract, including records pertaining to Overhead and indirect costs, for the purpose of making audit, examination, excerpts and transcripts. If for any reason, any part of the Work or the Contract shall be subject to litigation, Contractor shall retain all such records until all litigation is resolved and Contractor shall continue to provide Owner and/or its agents with full access to such records until such time as all litigation is complete and all periods for appeal have expired and full and final satisfaction of any judgment, order or decree is recorded and Owner receives a record copy of documentation from Contractor.

#### L.4 WAIVER

Failure of the Owner to enforce any provision of the Contract shall not constitute a waiver or relinquishment by the Owner of the right to such performance in the future nor of the right to enforce any other provision of the Contract.

#### L.5 SUCCESSORS IN INTEREST

The provisions of the Contract shall be binding upon and shall accrue to the benefit of the parties to the Contract and their respective permitted successors and assigns.

#### L.6 GOVERNING LAW

The Contract shall be governed by and construed in accordance with the laws of the State of Oregon without giving effect to the conflict of law provisions thereof.

# L.7 APPLICABLE LAW

Contractor hereto agrees to comply in all ways with applicable local, state and federal ordinances, statutes, laws and regulations.

#### L.8 NON-EXLUSIVE RIGHTS AND REMEDIES

Except as otherwise expressly provided herein, the rights and remedies expressly afforded under the provisions of the Contract shall not be deemed exclusive, and shall be in addition to and cumulative with any and all rights and remedies otherwise available at law or in equity. The exercise by either Party of any one or more of such remedies shall not preclude the exercise by it, at the same or different times, of any other remedies for the same default or breach, or for any other default or breach, by the other Party.

#### L.9 INTERPRETATION

The titles of the sections of the Contract are inserted for convenience of reference only and shall be disregarded in construing or interpreting any of its provisions.

#### L.10 DEBT LIMITATION

The Contract is expressly subject to the debt limitation of Oregon counties set forth in Article XI, Section 10, of the Oregon Constitution, and is contingent upon funds being appropriated therefore. Any provisions herein which would conflict with law are deemed inoperative to that extent.

#### L.11 LITIGATION

Any Claim between Owner and Contractor that arises from or relates to the Contract and that is not resolved through the Claims Review Process in Section D.3 shall be brought and conducted solely and exclusively within the Circuit Court of Clackamas County for the State of Oregon; provided, however, if a Claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the County of any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. CONTRACTOR, BY EXECUTION OF THE CONTRACT, HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF THE COURTS REFERENCED IN THIS SECTION.



"Contract"); and

# WATER ENVIRONMENT SERVICES PUBLIC IMPROVEMENT CONTRACT

#### PERFORMANCE BOND

Bond No.:		
Solicitation: #2019-07		
Project Name: Carver Sanitary Lateral CA2		
•		
(Surety #1)	Bond Amount No. 1:	\$
(Surety #2)*	Bond Amount No. 2:*	\$
* If using multiple sureties	Total Penal Sum of Bond:	\$
We,	as Principal	and the above identified
Surety(ies), authorized to transact surety busin		
ourselves, our respective heirs, executors, adn		
to pay unto Water Environment Services ("Di		
	(Provided, that we the Sure	
sum "jointly and severally" as well as "severa	• • • • • •	0 0
actions against any or all of us, and for all oth	· ·	
with the Principal, for the payment of such sur	m only as is set forth opposite th	ne name of such Surety); and
WHEREAS, the Principal has entered into a c	ontroot with the District clong y	with the plane enecifications
· •		
terms and conditions of which are contained in	if the above-referenced Project C	Contract Documents, and
WHEREAS, the terms and conditions of	the contract, together with	applicable plans, standard
specifications, special provisions, schedule of	performance, and schedule of co	ontract prices, are made a part
of this Performance Bond by reference, wh	nether or not attached to the c	ontract (all hereafter called

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 defend, indemnify, and save harmless the District and Clackamas County and their 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 District determines that any of the above conditions have not been met, the District 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 the District, 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 SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES.

Dated this	day of		, 20	
		PRINCIPAL:		
		By:		
		<b>,</b>	Signature	
		A 444.	Official Capacity	
		Attest:	Corporation Secret	tary
		SURETY: [Add signature	es for each if using multiple	bonds]
		BY ATTORN	EY-IN-FACT: orney must accompany each	ı bond]
			Name	
			Signature	
			Address	
		City	State Zip	
		Phone	Fax	



# WATER ENVIRONMENT SERVICES PUBLIC IMPROVEMENT CONTRACT

### **PAYMENT BOND**

Bond No.:	<del></del>	
Solicitation: #2019-07		
Project Name: Carver Sanitary Lateral CA	Δ2	
(Surety #1)	Bond Amount No. 1:	\$
(Surety #2)*	Bond Amount No. 2:*	\$
* If using multiple sureties	Total Penal Sum of Bond:	\$
We,	y business in Oregon, as Surety, ladministrators, successors and assist ("District"), the sum of ("Pistrict")	hereby jointly and severally bind gns firmly by these presents to pay Fotal Penal Sum of Bond) rovided, that we the Sureties bind
or actions against any or all of us, and for the Principal, for the payment of such sum	r all other purposes each Surety bind	ds itself, jointly and severally with

WHEREAS, the Principal has entered into a contract with the District, along with the plans, specifications, terms and conditions of which are contained in above-referenced Project Contract Documents; 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 defend, indemnify, and save harmless the District and Clackamas County and their 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 the District 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.

Clackamas County Contract Form B-10 (1/2017)

If the District determines that any of the above conditions have not been met, the District 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 the District 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 SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES: Dated this \_\_\_\_\_\_, 20\_\_\_\_. PRINCIPAL: Signature Official Capacity Attest: **Corporation Secretary** SURETY: [Add signatures for each if using multiple bonds] BY ATTORNEY-IN-FACT: [Power-of-Attorney must accompany each bond] Name Signature Address City State Zip Phone Fax



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

PROJECT: #2019-07 Carver Sanitary Lateral CA2

# Project Scope:

This project consists of furnishing and installing approximately 200 linear feet of gravity sanitary sewer pipe to provide service to properties with failing septic systems.

The Carver Sanitary Lateral CA2 Project includes the following:

- Placing 8" diameter SDR-11 HDPE pipe and 12-gauge insulated copper tracer wires by Horizontal Directional Drill (HDD) methods. Approximately 200-feet of 8" HDPE to be installed.
- Installing two 48" diameter concrete manholes with flexible watertight connecting boots to attached pipe.
- Installing one 6-inch service lateral.
- Surface restoration, including gravel, pavement and adjacent landscaping.
- Additional and incidental work as called for by the specifications and plans.

Engineers Estimate: \$125,000.00

# **Key Dates:**

COMMENCEMENT DATE: Upon Issuance of Notice to Proceed ("NTP")

SUBSTANTIAL COMPLETION DATE: 90 days from NTP

FINAL COMPLETION DATE: 120 days from NTP

Time is of the essence for this Project. Note the Liquidated Damages requirements as described in the Supplemental General Conditions. Liquidated Damages are in the amount of \$415.00 each and every day that the date of final completion extends beyond the Contract Time.

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

- CARVER SANITARY LATERAL CA2 SPECIFICATIONS.
- SITE SPECIFIC SAFETY PLAN CERTIFICATION-APPENDIX A.
- CLACKAMAS COUNTY UTILITY PERMIT-APPENDIX B.
- EASEMENT PLAN-APPENDIX C.
- EASEMENT RELEASE FORM-APPENDIX D.
- MANHOLE/PIPELINE TESTING FORMS-APPENDIX E.
- CONSTRUCTION DRAWINGS (PLANS)-APPENDIX F; Drawing C1.
- STANDARD DETAILS WATER ENVIRONMENT SERVICES & CLACKAMAS COUNTY DTD-APPENDIX G; Drawing SAN-003, SAN-004, SAN-005, SAN-006, SAN-008, SAN-009, SAN-011, SAN-012, SAN-013, SAN-014, SAN-016, and SAN-018.
- GEOTECHNICAL BORINGS (BY OTHERS AND FOR REFERENCE ONLY)-APPENDIX H.

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#### SUMMARY OF WORK

#### PART 1 GENERAL

#### 1.01 SUMMARY

- A. This contract consists of furnishing and installing approximately 200 linear feet of 8-inch gravity sanitary sewer pipe by HDD methods, one 6-inch service lateral, two manholes, and includes excavation, backfill, surface restoration, miscellaneous site work, and other work required to properly complete the project in accordance with the Contract Documents.
- B. The accomplishment of all of the above work, if awarded, shall meet the scheduled sequence, milestones, limitations and the final completion dates specified.

## 1.02 WORK OF THIS CONTRACT

- A. The work generally consists of furnishing and installing the following:
  - 1. ASTM D-3035, SDR 11 HDPE Pipe
  - 2. 48- inch standard precast manholes
  - 3. Erosion and Sedimentation Control
  - 4. Surface Restoration
  - 5. Pipe Cleaning and Testing
  - 6. All other ancillary work necessary to complete the sanitary sewer and comply with all easement and permit conditions.

# B. Contractor Duties

- 1. Provide and pay for labor, materials, tools, equipment, superintendence, temporary facilities and services necessary for proper execution and completion of Work.
- 2. All required permits, governmental fees and licenses.
- 3. Maintain ready access for business and private residences adjacent to the Work.
- 4. Comply with ordinances and regulation of public authorities having jurisdiction, including, but not limited to following:
  - a. Clackamas County
  - b. State of Oregon Department of Environmental Quality
  - c. State of Oregon Department of Transportation

#### 1.03 EXISTING UTILITIES

A. In general, the locations of existing major utilities, whether aboveground or underground, are indicated on the Drawings. This information has been obtained from utility maps and

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field surveys. Owner does not guarantee the accuracy or completeness of this information, and it is to be understood that other aboveground or underground facilities not shown on the Drawings may be encountered during the course of the work. In any case, most minor lines such as individual services for water, gas and sprinkler irrigation lines are not indicated.

B. Existing utilities, whether shown on the Drawings or not, shall be maintained, relocated, rerouted, removed and restored as may be necessary by the Contractor in a manner satisfactory to owners and operators of the utilities and to Owner in accordance with the provisions and to the satisfaction of the affected utility or local agency.

# 1.05 SURVEY INFORMATION

A. Contractor will be responsible for staking all manhole locations, pipeline alignment with cut and fill to invert.

#### 1.06 SPECIFICATION LANGUAGE

Portions of the Specifications are written in imperative and streamlined form. This imperative language is directed to the Contractor, unless specifically noted otherwise. The words "shall be" shall be included by inference where a colon (:) is used within sentences or phrases. Example: Aggregate: ASTM C33.

Where the Bidding Documents define methods, materials, or equipment by specifying a trade name, manufacturer and model or catalog number, the intent is not to limit competition but to establish a standard of quality, features, workmanship, reliability, serviceability, compatibility, performance, etc. Unless the specification description expressly states that no substitutions or "equals" will be allowed, the words "or equal" shall be deemed inserted in each such instance.

#### **END OF SECTION**

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## COORDINATION AND PROJECT REQUIREMENTS

#### **PART 1 GENERAL**

# 1.01 PROJECT COORDINATION

A. Coordinate scheduling, submittals and work of various Sections of the Specifications and subcontractors to assure efficient and orderly sequence of interdependent construction.

# 1.02 UNDERGROUND UTILITIES, CONDUITS, OR PROCESS PIPING

- A. Obtain best available current information on location, identification and marking of existing utilities, piping and conduits and other underground facilities before beginning any excavation. Contact Oregon Utility Notification center at 503-246-6699 for information at least 48 hours in advance of beginning work. Give Engineer 48 hours notice before beginning work.
- B. The location of existing utilities and underground facilities known to the Engineer are shown in their approximate location based on information available at the time of preparing the Drawings. The actual location, size type and number of utilities and underground facilities may differ from that shown and utilities or underground facilities may be present that are not shown.
- C. Use extreme care when excavating or working in areas that may contain existing utilities, process piping, conduits or other underground facilities. Use careful potholing, hand digging and probing to determine the exact location of underground installation. Some locations contain multiple pipes or conduits. Prior to performing any subsurface work, investigate, determine and prepare a plan to turn off or disconnect each utility believed to be within 100 feet of the subsurface work in the event of an accidental breach of a utility conduit.
- D. Where connections to existing utilities or other underground facilities is required or where new piping or conduits may cross or interfere with existing utilities or underground facilities carefully excavate and uncover existing installations to a point 1 foot below the pipe or conduit to determine the actual elevation and alignment. Call the Engineer's attention to differing existing conditions that may require a clarification or change.

#### 1.03 PRECONSTRUCTION MEETINGS

- A. Prior to beginning the Work, the Contractor and its key personnel and Subcontractors including the Contractor's Superintendent and Project Manager shall attend a meeting with the Owner and the Engineer to discuss the following:
  - 1. Name, Authority, and Responsibilities of Parties Involved
  - 2. Project Procedures:
    - a. Progress meetings
    - b. Correspondence
    - c. Notification
    - d. Submittal of Shop Drawings
    - e. Requests for Information
    - f. Response to Requests for Information
    - g. Work Directive Change
    - h. Contractor Reporting requirements

# i. Change Orders

- 3. Temporary Schedule and Contractor's Construction Schedule
- 4. Temporary Facilities and Control
- 5. Testing During Construction
- 6. Contractors Coordination
- 7. Maintenance of Record Drawings
- 8. Punch Lists and Project Closeout Procedures
- 9. Final Deliverables including Record Drawings

#### 1.04 PROGRESS MEETINGS

A. The Engineer will conduct weekly progress meetings with Contractor and Owner at job site. Attendance required by Contractor's project manager, superintendent and affected Subcontractors and suppliers. The Engineer will prepare, maintain and distribute agenda and dated record of: (1) actions required and taken and (2) decisions needed and made.

# B. Agenda:

- 1. Review critical items/action list.
- Review work progress. Compare actual progress with planned progress shown on Contractors CPM Construction Schedule. Discuss Corrective action required. Compare actual and projected progress with Contractor's Construction Schedule, propose methods to correct deficiencies.
- 3. Review status of Submittals; review delivery dates and date of need for critical items.
- 4. Review coordination problems.
- 5. Discuss Contractor Quality Control.
- 6. Discuss open items on Engineers "Items of Concern List."
- 7. Other business.

# 1.05 MATERIALS

#### A. General:

1. Verify that products delivered meet requirements of Contract Documents and the requirements of Favorably Reviewed submittals.

#### B. Transportation and Handling:

- 1. Transport and handle products in accordance with manufacturer's instructions.
- 2. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.
- 3. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

# C. Storage and Protection:

- 1. Store and protect products in accordance with manufacturer's instructions. Seals and labels shall be intact and legible.
- 2. Provide offsite storage and protection including insurance coverage when site does not permit onsite storage or protection.
- 3. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

#### 1.06 SAFETY

- A. In accordance with generally accepted construction practice, applicable law and the General Conditions, the Contractor shall be solely and exclusively responsible for:
  - 1. Construction means and methods.
  - 2. Safety of employees engaged in the work while on and off the site.
  - 3. Safety of the Owner, the Engineer, the Design Engineer, and others who may visit or be affected by the work.
  - 4. Safety of the work itself including material and equipment to be incorporated therein.
  - 5. Safety of other property at the site or adjacent thereto.
  - 6. Safety programs, equipment and protective devices required to assure the safety of persons and property for whom/which the Contractor is responsible.
- B. The duties of the Engineer in conducting review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's work methods, equipment, bracing, scaffolding or safety measures in, on, or near the construction site.
- C. The Contractor is hereby informed that work on this project could be hazardous. The Contractor shall carefully instruct all personnel working in potentially hazardous work areas as to potential dangers and shall provide such necessary safety equipment and instructions as required to prevent injury to personnel and damage to property, and to comply with all applicable laws and regulations including State OSHA, Federal OSHA, and other regulations referenced in these Contract Documents.
- D. The Contractor shall, at all times, maintain the job in a condition that is safe for the Owner, the Engineer and their Consultants to make site visits and to conduct construction reviews. If the Owner or the Engineer cannot allow personnel to visit the job because it is not safe, the Contractor is not providing required safe access to the Work as required by General Conditions.
- E. The Contractor shall prepare a Safety Plan meeting the requirements of applicable regulations. As a minimum, the Contractors Safety Plan shall set forth definite procedures for informing workers about safety, for instructing workers in safe practices, for assuring that workers are using appropriate safety equipment and safe work practices and for reporting accidents.
- F. The Contractor shall submit a completed Site Specific Safety Plan Certification Form (Appendix A).

# 1.07 CONTRACTOR'S QUALITY CONTROL

- A. The Contractor shall be fully responsible for inspecting the work of its suppliers and Subcontractors to assure that the work when completed will comply with the standards for materials and workmanship required by the Contract Documents.
- B. Inspections, periodic observations and testing performed by the Owner or the Engineer are for the Owner's benefit and information only and shall not be construed as partial or incremental acceptance of the work and shall not be deemed to establish any duty on the part of the Owner or the Engineer to the Contractor, its subcontractors or suppliers.
- C. The Contractor shall:
  - 1. Monitor quality control over suppliers, manufacturer, products, services, site conditions, and workmanship, to produce work of specified quality.

- 2. Comply fully with manufacturer's installation instructions, including performing each step in sequence as recommended by the manufacturer.
- 3. Submit a Request for Information to Engineer before proceeding with work when manufacturers' instructions or reference standards conflict with Contract Documents.
- 4. Comply with specified standards as a minimum quality for the work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- 5. Perform work by persons specializing in the specific trade and class of work required and qualified to produce workmanship of specified quality.
- E. The Contractor shall provide assistance required by the Engineer to adequately inspect the Work including ladders, scaffolding, shoring, lighting, ventilation and other aids to facilitate access and provide a safe working environment.

# 1.08 TESTING LABORATORY SERVICES AND CERTIFIED LABORATORY REPORTS

- A. Provide certified testing service in accordance with specific requirements contained in each technical specification section. Submit Certified Laboratory Reports required by technical specification sections as soon as they are available.
- B. District retains authority to identify location where required onsite testing is to take place. Any failing tests will require two additional tests to have passing results, after corrective actions have taken place and at retesting locations as identified by District, at no additional cost to the Owner.

END OF SECTION

#### PERMITS AND EASEMENTS

# PART 1 GENERAL

# 1.01 PERMITS

A. Owner has obtained Utility Permit for Clackamas County, copies of which are found in Appendix B. Contractor shall sign and meet all of the conditions set forth in the permit.

#### 1.02 EASEMENTS

A. Owner has acquired easements needed for construction, copies of which are found in Appendix C. Special conditions referenced in these easements are included in the scope of this Work and must be complied with.

#### 1.03 RESTORATION OF PROPERTY/MISCELLANEOUS

- A. Comply with property restriction and restoration requirements contained in all permits and easements. It is expected that additional items requiring protection and/or replacement will be encountered as a general construction practice and the Contractor shall assume responsibility thereof at no additional cost.
- B. Submit signed Easement Release Form Appendix D from each property owner affected by construction prior to applying for final payment by Owner.

**END OF SECTION** 

#### PROTECTION AND MAINTENANCE OF WORK AND PROPERTY

# PART 1 GENERAL

#### 1.01 DESCRIPTION

This section specifies the protection and maintenance of work and property as they are affected by the work.

#### 1.02 PUBLIC AND PRIVATE PROPERTY

- A. Protect all public and private property, insofar as it may be endangered by Contractors' operations and take every reasonable precaution to avoid damage to such property.
- B. Restore and bear the cost of any public or private improvement facility, structure or land and landscaping within the Right-of-Way or Easement which is damaged or injured directly or indirectly by or on account of an act, omission, or neglect in the execution of the Work. Restore to a condition substantially equivalent to that existing before such damage or injury occurred, by repairing, rebuilding, or otherwise affecting restoration thereof, or if this is not feasible, make a suitable settlement with the owner of the damaged property.
- C. Give reasonable notice to occupants of buildings on property adjacent to the Work to permit the occupants to remove vehicles, trailers and other possessions as well as salvage or relocate plants, trees, fences, sprinkler systems, or other improvements in the Right-of-Way or easements which are designated for removal or which might be destroyed or damaged by work operations.

#### 1.03 LOCATION OF EXISTING FACILITIES

- A. Pothole existing utilities well ahead of pipeline construction to verify locations, so as not to affect HDD pipeline installation.
- B. In general, the locations of existing major utilities are indicated on the Drawings. This information has been obtained from utility maps and field surveys. Owner does not guarantee the accuracy or completeness of this information, and <u>it is to be understood that other aboveground or underground utilities not shown on the Drawings may be encountered during the course of the work.</u>
- C. Use a pipe locator and/or hand excavation to determine the exact location of underground facilities in the interest of avoiding unnecessary damage, maintenance costs, and to ensure continuity of customer service.
- D. Contact all utility companies and departments having underground facilities within the construction area and request they locate and mark their utilities. In addition, verify the location of all buried utilities in the construction area 48 hours before contractor digs by calling the one-call locator service at 1-800-332-2344. The contractor shall comply with Oregon "locate law" ORS 757.541 to ORS 757.571.

# 1.04 UNDERGROUND UTILITIES WITHIN PRIVATE PROPERTY/EASEMENTS

A. Additional underground utilities which include private irrigation systems may be present within the easements. Owner does not guarantee the accuracy or completeness of this information and it is understood that other underground utilities not shown on the Drawings or described in the Specifications may be encountered during the course of the work. Repair and replacement of the utilities shall be incidental to the work and no further payments will be provided.

**END OF SECTION** 

#### SUBMITTALS PROCEDURE

#### PART 1 GENERAL

#### 1.01 DESCRIPTION

This Section specifies procedures for Contractor submittals. Where required by the Specifications, submit descriptive information that will enable the Engineer to assess whether the Contractor's proposed materials, equipment or methods of work are in general conformance to the design concept and in compliance with the Drawings and Specifications. The information to be submitted shall consist of drawings, specifications, descriptive data, certificates, samples, test results and such other information, all as specifically required in the Specifications.

# **PART 2 PRODUCTS**

#### 2.01 CONTRACTOR RESPONSIBILITIES

- A. Contractor shall be responsible for the accuracy and completeness of the information contained in each submittal and shall ensure that the material, equipment or method of work shall be as described in the submittal. Verify that the material and equipment described in each submittal conforms to the requirements of the Specifications and Drawings prior to transmittal to the Engineer. Ensure that there is no conflict with other submittals and notify the Engineer in each case where such submittal may affect the work of another contractor or Owner.
- B. If the Contractor's review determines that the information shows deviations from the Specifications or Drawings, submit items that will conform or request consideration of a substitution.

#### PART 3 EXECUTION

# 3.01 TRANSMITTAL PROCEDURE

#### A. General:

- 1. Submittals regarding material and equipment shall be accompanied by Submittal/Transmittal Form. A separate form shall be used for each specific item, class of material, equipment, and items specified in separate, discrete sections for which the submittal is required. Submittals for various items shall be made with a single form when the items taken together constitute a manufacturer's package or are so functionally related that expediency indicates checking or review of the group or package as a whole.
- 2. A unique number, sequentially assigned, shall be noted on the transmittal form accompanying each item submitted. Original submittal numbers shall have the following format: "XXX"; where "XXX" is the sequential number assigned by the Contractor. Resubmittals shall have the following format: "XXX-Y"; where "XXX" is the originally assigned submittal number and "Y" is a sequential letter assigned for resubmittals, i.e., A, B or C being the 1st, 2nd and 3rd resubmittals,

1

respectively. Submittal 25B, for example, is the second resubmittal of Submittal 25

- B. Deviation from Contract: Submit a request for substitution for deviations from the Specifications or Drawings. Include the reason for the deviation and cost differential for the deviation. Deviations from the Contract shall be authorized by Owner's written approval only.
- C. Submittal Completeness: Submittals which do not have all the information required to be submitted are not acceptable and will be returned without review.
- D. Submit to the Engineer the following items for review:
  - 1. Construction Schedule
  - 2. List of employees to be contacted in an emergency with their home phone numbers and cell numbers (available 24 hrs/day)
  - 3. List of subcontractors that will work on the project
  - 4. Erosion control plan
  - 5. Site Specific Safety Plan Certification
  - 6. Shoring Plan
  - 7. Imported granular materials: supplier and location of pit, gradation
  - 8. Manholes and connections to pipe
  - 9. Castings
  - 10. Manhole steps
  - 11. HDPE pipe and electrofusion saddle. Manufacturer and certificates of compliance
  - 12. PVC pipe and PVC fittings: Manufacturer and certificates of compliance

The Engineer reserves the right to ask for additional SUBMITTALS that are not included on the above list. Review by the Engineer shall not relieve the Contractor from responsibility for error of omission. Obtain the Engineer's approval prior to beginning any fabrication or other work. No deviation from the reviewed drawings shall be allowed without written approval from the Owner or Engineer.

# 3.02 REVIEW PROCEDURE

- A. For each required submittal, submit two (2) copies of all the submitted information. One (1) will be returned to the contractor. Individual sheets shall not exceed 11 inches x 17 inches.
- B. Unless otherwise specified, within 14 days after receipt of the submittal/resubmittal, the Engineer will review and return it to the Contractor. The returned material will consist of one (1) marked-up copy of the submittal. The returned submittal will indicate one of the following actions:
  - 1. If the review indicates that the material, equipment or work method is in general conformance with the Contract Drawings/Specifications, the submittal copies shall be marked "Approved." In this event, the Contractor may begin to incorporate the material/equipment/work method covered in the submittal.
  - 2. If the review indicates that the submittal is insufficient or that limited corrections are required, the submittal copies may be marked "Approved as Noted." The

Contractor may begin to implement the work method or incorporate materials/comments covered in the submittal in accordance with the corrections/comments noted.

- 3. If the review reveals the submittal is insufficient or contains incorrect data and the comments require revision and resubmittal, the submittal copies shall be marked "Not Approved, Resubmit." In this case, the Contractor shall not then undertake work covered by this submittal until the submittal has been revised, resubmitted and returned to the Contractor with a marking of "Approved" or "Approved as Noted."
- 4. If the review indicates that the submittal is incomplete or that additional information is required, the submittal copies may be marked "Submit Specified Item". In this case the Contractor shall not undertake work covered by this item until the submittal has been revised resubmitted and returned to the Contractor with a marking of "Approved" or "Approved as Noted."
- 5. If the review reveals the material, equipment, or work does not require submittal, then the submitted copies shall be marked "Review Not Required Per Contract Documents." In this event, the Contractors may begin to incorporate the material/equipment/work covered by the submittal and no further action is required.

# 3.03 EFFECT OF REVIEW OF CONTRACTOR'S SUBMITTALS

Review of drawings, methods of work or information regarding materials or equipment the Contractor proposes to provide shall not relieve the Contractor of his responsibility for errors therein, nor shall it be regarded as an assumption of risks or liability by the Engineer on behalf of Owner, or by any officer or employee of Owner. The Contractor shall have no claim under the Contract on account of the failure, or partial failure, of the method of work, material or equipment so reviewed. A mark of "Approved" or "Approved as Noted" shall mean the Owner has no objection to the Contractor, upon the Contractor's own responsibility, using the plan or method of work proposed, or providing the materials or equipment proposed.

**END OF SECTION** 

## TRENCHING, BACKFILLING, AND COMPACTING

#### PART 1 GENERAL

#### 1.01 SUMMARY

This Section specifies requirements for trenching, backfilling, and compacting of trenches for pipeline construction.

- 1.02 (Not used)
- 1.03 REFERENCES
  - A. AASHTO T-99
  - B. 2015 Oregon Department of Transportation (ODOT), Standard Specifications for Construction

#### **PART 2 PRODUCTS**

#### 2.01 BEDDING AND BACKFILL MATERIALS

- A. Gravel for Trench Foundation Material: 2 ½ inch minus clean pit-run gravel, crushed rock or gravel, having reasonably even gradation from coarse to fine or open graded. Maximum percent passing the ¼ inch screen shall be 20% by weight.
- B. Crushed Gravel Pipe Base and Pipe Zone: 3/4 inch minus crushed gravel, having reasonably even gradation from coarse to fine, in accordance with the Oregon State Highway Commission Standard Specifications for Construction specification for Dense Aggregate, Section 02630.10.
- C. Select Material for Trench Backfill and Aggregate Base: 3/4-inch minus crushed gravel or rock, as defined for Crushed Gravel Pipe Base above.
- D. Portland Cement Concrete: PCC shall be composed of cement, pozzolans, fine aggregate, water and admixtures with a 28-day compressive strength of 3,300 psi.
- E. Controlled Density Backfill (CDF): CDF shall be composed of cement, pozzolans, fine aggregate, water and admixtures. CDF shall have a low cement content, be non-segregating, self-consolidating, free-flowing and excavatable material which will result in a hardened, dense, non-settling fill and a compressive strength at 28 days of 100 to 200 psi.

# **PART 3 EXECUTION**

### 3.01 TRENCHING

A. Work in Easements:

- 1. The Contractor shall exercise all due care in protecting property in, or adjacent to, easements. This protection shall include, but not be limited to, trees, yard, fences, drainage lines, mail boxes, driveways, gravel or paved surfaces, shrubs and lawns. If any of the above have been disturbed, they shall be restored to as near their original condition as possible, and as approved by Owner.
- B. Obstructions: This item refers to obstructions which may be removed and do not require replacement. Obstructions to the construction of the trench such as but not limited to stumps, abandoned waterlines, logs, rubbish, and debris of all types, shall be removed by the Contractor at his own expense without additional compensation from the Owner.
- C. General Excavation Criteria: Due to varying nature of soils with the project area, it is understood that actual conditions may vary from those encountered within the boring logs. However, Contractor is responsible for completing the work regardless of conditions encountered negating any possibility for claims using "Differing Subsurface or Physical Conditions" found in General Conditions.
- E. Blasting: Blasting for excavation will not be allowed.
- F. Trench Width: Trench width at the ground surface shall kept to a minimum necessary to install the pipe and manholes in a safe manner. In all cases, trenches must be of sufficient width to allow for shoring and permit proper joining of pipe and compaction of the backfill material along sides of the pipe. Minimum trench width, in the pipe zone, must provide a clear working space 6 inches on each side of the barrel for sewer pipe. If there is a maximum width shown and said width is exceeded by Contractor without written authorization, Contractor will be required, at no expense to Owner, to provide pipe of a higher strength designation, a higher class of bedding, or both, as approved. In all cases, confine trench operations to dedicated right-of-way for public thoroughfares or within areas for which permanent easements have been obtained, unless special arrangements have been made with the affected property owners.
- G. Grade: The bottom of the trench shall be carried to the lines and grades shown on the plans or as established by the Engineer, with proper allowance for pipe thickness and gravel bedding. Correct any part of the trench excavated below grade with material of the type specified in paragraph 2.01 for the full width of the trench; thoroughly compacted in layers not to exceed 6 inches to the established grade.
- H. Shoring, Sheeting, and Grading of Trenches: Whenever necessary to prevent caving during excavation in gravel, sandy soil, or other unstable material, adequately sheet and brace the trench. Where sheeting and bracing are used, increase trench widths accordingly. Ensure trench sheeting remains in place until the pipe has been placed and backfill of the pipe zone is completed.
- I. Location of Excavated Materials: During trench excavation, locate excavated materials to minimize erosion and sediment.
- J. Removal of Water: Provide and maintain ample means and devices with which to promptly remove and dispose of all water when trench is being prepared for pipe laying, during laying of pipe, and until backfill has been completed. Dispose of water in accordance with state and local regulations

- K. Foundation Material: When, in the opinion of the Engineer, the material in the bottom of the trench is unsuitable for supporting the pipe or manhole, excavate below the flow line as directed by the Engineer, place 12-ounce non-woven geotextile fabric at bottom and backfill to the required grade with gravel of the type specified in paragraph 2.01.
- L. Trench Backfill at Pipe Zone: For all classes of backfill, the pipe zone is defined as extending from the bottom of bedding in the trench (6 inches below invert) to a point 12 inches above the outside of the pipe, and for the full width of the trench. Backfill the entire pipe zone with 3/4 inch minus crushed gravel placed and hand-leveled in 6 inch layers. Special effort to properly bed pipe by slicing backfill in pipe haunches up to springline shall be provided.

#### 3.02 BACKFILLING AND COMPACTION

- A. Trench Backfill Above Pipe Zone: Use the following type of backfill on the project in all areas.
  - 1. Class C Backfill: Backfill the entire trench above the pipe zone with ¾ inch minus to the finished ground surface or base of the asphalt concrete trench section and compact according to the specifications.

# 3.03 EXCESS EXCAVATED MATERIAL

Haul and dispose of all excess excavated material. The Contractor shall make arrangements for the disposal of the excavated material and shall bear all costs and retain any profit incidental to such disposal. The Contractor shall comply with all provisions of any agency having jurisdiction.

# 3.04 ROCK EXCAVATION

Before proceeding with rock excavation, complete the common excavation to such depths that only rock excavation remains. At this time, make the trench available to the Engineer and take measurements to determine the amount of rock excavation remaining.

# 3.05 GENERAL COMPACTION REQUIREMENTS

- A. Backfill shall be maintained at proper moisture content so that the material is within 5%± of optimum moisture.
- B. Maximum density and optimum moisture will be determined using Method A of AASHTO T-99. All listed compaction levels are based on the T-99 compaction requirements unless otherwise stated.
- C. Imported trench backfill shall be mechanically compacted. The full trench depth shall be compacted to at least 95% of maximum density.

# 3.06 MECHANICAL COMPACTION REQUIREMENT

- A. The method of compaction shall be at the Contractor's option, unless otherwise noted.
- B. Unless otherwise noted, the Contractor shall be responsible to provide the proper size and type of compaction equipment and select the proper method of utilizing said equipment to attain the required compaction density without damage to pipe, adjacent utilities and properties.

#### 3.07 WORK LIMITS

- A. The intent of this specification is threefold:
  - 1. To limit disruption to any individual property and resulting complaints to the greatest extent possible from mainline excavation until the time the trench is compacted and ready for restoration activities.
  - 2. To identify and correct any pipe, compaction and restoration problems.
  - 3. To comply with all regulatory or easement requirements concerning restoration and cleanup activities during construction.

**END OF SECTION** 

## SANITARY SEWER/STORM PIPE AND MANHOLES

#### PART 1 GENERAL

#### 1.01 DESCRIPTION

The work covered by this section consists of furnishing and installing all sanitary sewer, manholes and appurtenances.

# 1.02 (Not Used)

#### 1.03 REFERENCES

- A. ASTM A48, Gray Iron Castings.
- B. ASTM A304, Steel Bars, Alloy, Subject to End-Quench Hardenability Requirements.
- C. ASTM A615, Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
- D. ASTM C478, Precast Reinforced Concrete Manhole Sections.
- E. ASTM C924, Practice for Testing Pipe Sewer Lines by Low-Pressure Air Test Method.
- F. ASTM C1244, Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.
- G. ASTM D2837, Long Term Strength (L.T.H.S.) @ 74.4 degrees F, 1600 PSI
- H. ASTM D3034, Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings.
- I. ASTM D3035, Standard Specification for Polyethylene (PE) Plastic Pipe (DR)\_Based on Controlled Outside Diameter
- J. ASTM D2241, Poly(Vinyl Chloride)(PVC) Pressure-Rated Pipe (SDR Series).
- K. ASTM D3212, Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals.

## 1.04 SUBMITTALS

- A. Submittals: Provide per section Submittals Procedure.
- B. Provide sufficient data for the Engineer to properly evaluate the proposed pipe and manholes.
- C. Product data submittals shall include, as a minimum, test reports. Provide test reports upon request, certifying that the pipe has been tested in accordance with and exceeds minimum requirements.

D. Contractor's Qualifications: Directional drilling Contractor shall have actively engaged in the installation of pipe using on-grade boring equipment for a minimum of three-years. **Evidence of qualification shall be submitted with bid (quote).** 

#### **PART 2 PRODUCTS**

#### 2.01 MATERIALS

- A. High Density Polyethylene Pipe (HDPE) ASTM D-3035. Solid wall, high-density polyethylene, based on controlled outside diameter.
  - 1. HDPE Sewer Pipe and Fittings: PE 3408, cell classification 345464C, SDR 11 (Directional Boring), for heat or butt fused joints. Factory green stripe on outside required.
  - 2. Standard HDPE in the quote (bid) is 8-inch DIPS (Ductile Iron Pipe Size), SDR 11. An Owner-selected alternate option in the quote (bid) is the amount to be added to upsize this HDPE pipe from the baseline 8-inch DIPS to 10-inch IPS (Iron Pipe Size), SDR 11.
  - 3. PE Piping Heat-Fusion Joints: Join according to ASTM D2657.
  - 4. Service lateral connections shall be accomplished by use of electrofusion saddle type fittings. The service connection shall be specifically designed for connection to HDPE pipe being installed and shall be manufactured by M.T.Deason Company in accordance with ASTM F-1055, F-714, D-2513. D-3035 and D-3261. Part Number TRIS8000 (8"x6" gasket saddle) or approved equal. Provide appropriate nonmetallic transitions to the 6" PVC service lateral from the HDPE saddle.
- B. Tracer Wire: Electrical conductive tracer wire, 12-guage, insulated copper, green insulation color. Two required.
- C. Polyvinylchloride (PVC) Gravity Sanitary Sewer Pipe (less than 18-inch diameter): Of the size and type indicated on the plans, conforming to appropriate specifications detailed below.
  - 1. PVC Sanitary Sewer Pipe and Fittings: Conform to ASTM D-3034, SDR 35. Fittings shall be injection molded, factory welded, or factory solvent cemented.
  - 2. Minimum Pipe Stiffness: 46 psi.
  - 3. Joint Type: Elastomeric gasket, conforming to the requirements of ASTM D3212.
  - 4. Rubber Gaskets: Conform to ASTM D1869.
- D. Manholes and Appurtenances:
  - 1. Concrete: Concrete used in the construction of the manhole base and other structures specified shall be so proportioned and mixed as to meet a minimum 3,000 psi compression test after 28 days. There shall be a minimum of five sacks of cement per cubic yard of concrete.

#### 2. Precast Manhole Sections:

- a. Minimum 48 inches in diameter, reinforced concrete pipe, Class 2, conforming to ASTM C478, with added requirement that the reinforcement be circular and not elliptical. Cones shall be eccentric with wall thickness and reinforcement similar to that of manhole pipe sections. The tops and bottoms of the cones shall be parallel.
- b. Preformed gaskets may be used in lieu of mortar type joints and shall be RAM-NEK, manufactured by K.T. Snyder Company, Inc., Houston, Texas; Kent-Seal by Hamilton Kent, Kent, Ohio; or as approved.
- c. Flat-top manhole sections for all size manholes shall be used in lieu of eccentric cones where the depth from finish grade to invert is 6'-0" or less. Suburban frames shall be used with flat top manholes.
- d. 48" manholes will be installed full diameter, capped with a three-foot-tall 48" diameter eccentric cone. Maximum 24-inch diameter riser adjustment shall be 10-inches.

#### 3. Precast Concrete Bases:

- a. Precast base sections or manhole bases shall be approved by the Owner prior to installation. All precast bases shall conform to ASTM C478.
- b. Construct bases per standard details and as noted on the plans. Knockouts for pipe extensions will be based upon the alignment as shown or as directed. *Minor adjustments to alignment may be necessary to better position manholes*.
- c. Provide flexible connectors that are designed to produce a positive watertight connection for pipes entering a precast manhole. The connector shall be manufactured by A-LOK, Kor-N-Seal or an owner approved equal and shall meet the requirements of ASTM C-923..
- 4. Nonshrink Grout. Sika 212, Euco N-S, Five Star, or USA approved equal nonmetallic cementitious commercial grout exhibiting zero shrinkage. Grout shall not be amended with cement or sand and shall not be reconditioned with water after initial mixing. Nonshrink grout shall be placed or packed only with the use of an approved commercial concrete bonding agent. Unused grout shall be discarded after 20 minutes and shall not be used.
- 5. Manhole Extensions and Rings. Install rings and covers on top of manholes to positively prevent all infiltration of surface or groundwater into manholes. Rings shall be set in a bed of nonshrink grout with the nonshrink grout carried over the flange or the ring and shall be set so that tops of covers are flush with the adjoin surface, unless otherwise directed by the Owner. Extensions shall be limited to a maximum height of 27 inches from the center point of the first step to the top of the casting.

6. Manhole Frames and Locking Covers: Of size and shape detailed on the plans or approved equal; ensure castings are tough, close-grained, gray iron, free from blowholes, shrinkage, and cold shuts, and they conform to ASTM A48, Class 35; ensure they are sound, smooth, clean, and free from blisters and defects. Plane and grind all castings where necessary to ensure perfectly flat and true surfaces. Covers shall be true and shall seat within the ring at all points. Locking covers shall have two holes. Watertight/locking covers shall be solid with no holes. Frames shall have a total height of 10" as shown in Department of Transportation and Development Drawing U600. Suburban frames for flat top manholes shall have a total height of 3" as shown in Department of Transportation and Development Drawing U700.

#### 7. Manhole Steps:

- a. Steel reinforced polypropylene plastic, Lane International Corp. No. P-13850, or approved equal, in conformance with ASTM C478; aligned vertically. Ensure steps within a manhole are of the same design, type, and size. Mixing of unmatched steps within the same manhole is not permitted.
- b. Prior to delivery to the jobsite, manufacturer is to drive steps into preformed holes in precast concrete manhole cones and sections in conformance with the following: ASTM A615 Grade 60, 1/2" deformed steel rod and ASTM 2146-78 Type II, Polypropylene.
- c. Place steps where there are no incoming or outgoing lines. Loose steps shall be cause for rejection of that manhole cone or section.

#### PART 3 EXECUTION

#### 3.01 SANITARY SEWER – HORIZONTAL DIRECTIONAL DRILLING INSTALLATION (HDD)

- A. Contractor shall investigate subsurface soil conditions prior to beginning work to confirm ground conditions. Investigation shall be suitable for the complexity of the installation.
- B. Pothole all utilities along alignment that could possibly come within 4-feet vertical distance of proposed HDD profile. Adjust profile as necessary to insure clearances required.
- C. Contractor is required to establish appropriate entry and exit locations to maintain pullback forces and installation requirements within acceptable pipe working loads. Stresses shall not exceed product capacity during installation.
- D. The Owner must be notified 48-hours in advance of starting work. The directional drilling shall not begin until Owner (or Owners rep) is present.
- E. For this gravity pipe installation, it is essential that a minimum downward slope of 0.004 ft/ft is maintained throughout the entire length of the pipe. The tie in elevations at each end must meet the criteria stated on drawings.

- F. Monitoring of grade and alignment shall be accomplished by manual plotting based on location and depth reading provided by the locating/tracking system or by computer generated bore logs. Reading or plot system shall be undertaken on every drill rod.
- G. Contractor shall confine all activities to designated work areas and easement limits.
- H. It is Contractors responsibility to excavate bore pits and to place adequate protection to contain all liquid and drilling fluid and to insure adjacent properties will not be adversely impacted.
- I. Contractor shall monitor and record the alignment and depth readings provided by the tracking system. Provide Owner with daily reports with a print-out of the pipe bore profile at a scale of 1"-20-feet. At completion of the pilot hole drilling, provide Owner tabulations of the horizontal and vertical alignment at minimum intervals of 10-feet, to ensure that profile and alignment limitations are being met.
- J. Contractor is required to maintain pullback forces and installation requirements within acceptable pipe working loads. Stresses shall not exceed product capacity during installation.
- K. Insuring that no damage is caused to nearby adjacent structures will be Contractors responsibility.
- L. Excess drilling fluids shall be contained at entry and exit points until recycled or removed from the site, in accordance with requirements of all agencies having jurisdiction. Provide an Inadvertent Release Control Plan that addresses mitigative measures to be implemented during execution of the work.
- M. Should the drilling operation be unsuccessful, backfill any voids with grout or other means acceptable to Owner. Begin a new drilling at alternate location within the permanent easement, as approved by Owner and at no additional cost to Owner.
- N. Pipe Joint Construction and Installation: Join and install HDPE gravity pipe and fittings according to installation requirements, including:
  - 1. Heat fuse joints in accordance with ASTM D-2657
  - 2. Debead inside of pipe at each joint
  - 3. Sections of pipe shall be fused by factory-certified technician and per pipe manufacturers requirements.
- O. Pull in two electrical tracer wires with the HDPE pipe and confirm electrical conductivity at two ends of installed pipe.
- P. Connection of HDPE pipe to manholes: Connect pipe to concrete manholes by means of an approved Kor-n-seal gasket or other approved coupling. The use of Portland Cement grout for connecting pipe to manholes will not be permitted. Manholes shall be cored to insure a watertight connection using the approved coupling.
- Q. Upon completion, all drilling fluids must be properly disposed of and the access pits must be backfilled with fully-compacted aggregate, as specified in Section Trenching, Backfilling and Compacting.

#### 3.02 SANITARY SEWER – LATERAL INSTALLATION

- A. Crushed Gravel Pipe Base: Place in trench to a minimum depth of six inches below the flow line of the pipe, down to undisturbed soil. Place and level the base to approximate flow line grade in advance of laying pipe. Immediately following the placement of pipe, place the crushed gravel pipe base to the spring line of the pipe.
- B. Removal of Water: Provide and maintain ample means and devices to remove and dispose of all water entering the trench excavation during the process of laying pipe. Ensure water and debris does not enter the Owner's sewer system or new pipe. Ensure water and debris does not enter the Owner's sewer system or new pipe unless it will be discharged into a Baker Tank as part of the Erosion Control plan. At no time will untreated groundwater be allowed to enter the live downstream sewer system.
- C. Carefully inspect pipes and fittings before being laid; no cracked, broken, or defective pipe or fittings shall be used in the work. Clean the ends of the pipe to remove dirt or other foreign material.
- D. The Engineer will provide a marking to locate each service connection. Upon completion of installation, place a pressure treated 2 x 4 marker at the end of each lateral extending from the end of the service lateral at the flow line to a point one foot above the surface of the ground.

#### 3.03 MANHOLE INSTALLATION

- A. Precast Manhole Concrete Base: Construct so the first section of the precast manhole has a uniform bearing throughout the full circumference of the manhole wall. Deposit sufficient mortar on the concrete base to provide a watertight seal between the base and the manhole wall.
- B. Placing Precast Manhole Sections: The joints for the precast concrete manhole shall be made of nonshrink grout. Construct the walls true to line and grade as established by the Engineer. Place grout on the groove of the lower section of the pipe prior to placing the next section of pipe. Completely fill entire joint with grout and trowel to a smooth surface. Manhole sections with a captive groove rubber gasket need not be grouted between sections. Manhole shelf shall be integrally poured against the wall and over the pipe stub. Construct shelf in such a manner that when capacity of the pipe is reached, no portion of the shelf surface is used as part of the cross-sectional flow channel required for free flow through the manhole. Manholes with more than 10% change in slope on inlet versus outlet pipes shall have full depth channels placed across the base.
- C. Manhole Inverts: Constructed in conformance with the details shown on the plans and County Standard Details. Ensure manhole invert channels provide a smooth flow-through characteristic. No sharp edges or rough sections that will tend to obstruct the flow of sewerage will be permitted. In the event a full section of pipe is laid through the manhole, pour the concrete up to spring line (one-half the diameter of the pipe), then break or cut out the top half of the pipe and mortar smooth all rough edges. Trowel smooth all cement mortar used in the construction of the inverts. The Contractor may, at his option, use precast bases with pre-poured and formed invert channels.

D. Manhole and Cleanout Rings and Covers: Set rings so the tops of the covers will match adjacent finished surface, or as directed by the Engineer. Manholes located within unimproved areas shall be placed 6 inches above the finished ground surface or as directed by the Engineer.

#### 3.04 TESTING OF GRAVITY SEWER PIPE AND APPURTENANCES

#### A. General:

- 1. Test all gravity sewer lines by "low pressure air testing".
- 2. Air Tests For Gravity Sewers: Ensure all gravity sewers and appurtenances successfully pass the air test prior to acceptance and are free of visible leakage or infiltration.
- 3. The Contractor may desire to make an air test prior to backfilling for his own purposes; however, the acceptance air test shall be made after backfilling and compaction has been completed to final grade.
- 4. Furnish all facilities and personnel for conducting the test under the observation of the Engineer. The equipment and personnel shall be subject to the approval of the Engineer.
- 5. Acceptance testing shall be conducted on all of the manholes.
- 6. Refer to forms in Appendix E for additional testing information and testing result requirements.

#### B. Testing Procedures:

- 1. The Contractor shall provide all equipment and personnel for the Time-Pressure Drop Method for all air testing. The method, equipment and personnel shall be subject to the approval of the Engineer. The Engineer may, at any time, require a calibration check of the instrument used. The pressure gauge used shall have minimum divisions of 0.10 psi and have an accuracy of 0.0625 psi (one ounce per square inch).
- 2. Immediately following the pipe cleaning, test the pipe with low pressure air. Plug all sewer outlets with suitable test plugs. Slowly supply air to the plugged pipe installation until the internal air pressure reaches 4.0 pounds per square inch greater than the average back pressure of any ground water that may submerge the pipe. The test pressure shall be increased 0.433 pounds per square inch for each foot of average water depth over the sewer. This pressure will be in addition to the initial 4.0 pounds per square inch previously identified. Allow at least two minutes for temperature stabilization, adding only the amount of air required to maintain pressure before proceeding further. After the temperature stabilization period, disconnect the air supply. Determine and record the time in seconds that is required for the internal air pressure measured by the gage to drop from 3.5 pounds per square inch to 2.5 pounds per square inch greater than the average back pressure of any ground water that may submerge the pipe.

3. Safety Precautions: All plugs used to close the sewer for the air test must be capable of resisting the internal pressures and must be securely braced, if necessary. All air testing equipment must be placed above ground and no one shall be permitted to enter a manhole or trench where a plugged line is under pressure. All pressure must be released before the plugs are removed. The testing equipment used must include a pressure relief device designed to relieve pressure in the line under test at 10 psi or less and must allow continuous monitoring of the test pressures in order to avoid excessive pressure. The Contractor shall use care to avoid the flooding of the air inlet by infiltrated ground water. The Contractor shall inject the air at the upper plug if possible. Only qualified personnel shall be permitted to conduct the test.

#### C. Acceptance of Test:

1. The pipeline shall be considered acceptable when tested as described herein before if the section under test does not lose air at a rate greater than 0.0015 cfm per square foot of internal sewer surface. For test sections containing over 625 square feet of surface area, the time measured by this method for 1.00 pounds per square inch pressure drop shall be calculated according to the following formula:

$$T = d^2L/42$$

T = test duration, seconds D = pipe diameter, inches L = section length, feet 42 = conversion factor

For test sections containing less than 625 square feet of internal surface area, the time measured by this method for 1.00 pounds per square inch pressure drop shall be calculated according to the following formula:

$$T = 56d$$

The internal surface area of pipeline sections may be calculated using the formula:

$$A = \pi L d/12$$

The surface areas of lateral lines of differing lengths and diameters may be accommodated in Equations 1 and 2 above by using the sums  $d_1 2L_1 + ... + d_n 2L_n$  and  $d_1 + ... + d_n$  in place of  $d^2L$  and d, respectively.

2. If the pipe installation fails to meet these requirements, the Contractor shall determine, at his own expense, the source or sources of leakage, and shall repair or replace all defective materials and correct all faulty workmanship. The type of repairs proposed by the Contractor must be approved by the Engineer before the repair work is begun. The completed pipe installation shall meet the requirements of the air test before being considered acceptable.

#### D. Manhole Vacuum Test (Adapted from ASTM C1244-93):

- 1. Summary of Practice: Plug all lift holes and pipes entering the manhole. A vacuum will be drawn and the vacuum drop over a specified period of time is used to determine the acceptability of the manhole.
- 2. Significance and Use: This is not a routine test. The values recorded are applicable only to the manhole being tested and at the time of testing.

#### 3. Preparation of the Manhole:

- a. Plug all lift holes with an approved non-shrink grout.
- b. Plug all pipes entering the manhole, taking care to securely brace the pipes and plugs from being drawn into the manhole. The manhole shall be set to finish grade and all paving (if applicable) completed.

#### 4. Procedure:

- a. Place the test head at the inside of the top of the frame and the seal inflated in accordance with the manufacturer's recommendations.
- b. Draw a vacuum of 10 inches of mercury, with the valve on the vacuum line of the test head closed, and the vacuum pump shut off. With the valves closed, measure the time for the vacuum to drop to 9 inches.
- c. The manhole shall pass if the time for the vacuum reading to drop from 10 inches of mercury to 9 inches meets or exceeds the values indicated below.
- d. Utilizing the formulas that follow, the comparable times for a successful vacuum test for different size manholes are:

DEPTH (ft)	TIME (sec)		
(Length of Manhole)		(Dia.)	
	<u>48"</u>	<u>60"</u>	<u>72"</u>
8	20	26	33
10	25	33	41
12	30	39	49
14	35	46	57
16	40	52	67
18	45	59	73
20	50	65	81
22	55	72	89
24	59	78	97
26	64	85	105
28	69	91	113
30	74	98	121

e. If the manhole fails the initial test, make necessary repairs with a nonshrink grout after the vacuum has been released. Proceed with retesting until a satisfactory test is obtained.

- f. Use or failure of this vacuum test shall not preclude acceptance by appropriate water infiltration or exfiltration testing, or other means.
- E. Subsequent Failure: Infiltration of groundwater, in any amount, following a successful hydrostatic vacuum or air test as specified, shall be considered as evidence that the original test was in error or that subsequent failure of the pipeline, manhole or cleanout assembly has occurred. The Contractor will be required to correct such failures should they occur.
- F. Deflection Testing: In addition to hydrostatic or air testing, gravity sanitary sewers shall be deflection tested not less than 14 days after the trench backfill and compaction has been completed. Conduct the test by pulling an approved solid pointed mandrel through the completed pipeline. Ensure the diameter of the mandrel is 95 percent of the inside diameter of the pipe. Conduct testing on a manhole-to-manhole basis and after the line has been completely cleaned and flushed. Excavate, repair, or replace and retest any portion of the sewer that fails to pass the test for air, leakage or deflection.

#### 3.07 ACCEPTANCE

- A. Thoroughly clean all pipelines after acceptance of all joint testing and after backfilling and restoration of surfaces.
- B. Base acceptance of the pipeline on a final inspection of the entire line conducted jointly by the Contractor and the Engineer. This will also include results from Owner's operations staff which will lamp each individual section between manholes.
- C. Any infiltration evidence in manholes or pipe shall be properly repaired, even if unit passed testing.

**END OF SECTION** 

## SITE SPECIFIC SAFETY PLAN CERTIFICATION APPENDIX A



#### SITE SPECIFIC SAFETY PLAN CERTIFICATION

Contractor performs all operations in strict accordance with all applicable standards set by Oregon Occupational Safety and Health Division (OR-OSHA), including, but not limited to Oregon Administrative Rules (OAR) 437, Chapter 2, Sections 141 – 147 (29 CFR Part 1910, 29 CFR Part 1926).

Contractor creates and maintains a Site-Specific Safety Plan, which is require on-site through the entirety of the project. The Contractor's Safety Manager is trained and knowledgeable in all safety requirements and shall be responsible for the compliance with all applicable safety requirements. All job personnel are knowledgeable of and comply with the Site Specific Safety Plan requirements.

The Site-Specific Safety Plan includes the following basic elements:

- Policy or goals statement
- List of responsible persons, including 24 hour contact information
- Hazzard identification and assessment (Job Hazard Analysis)
- Hazzard controls and safe practices
- Emergency and accident response
- Confined Space Entry Plan, including the Rescue Plan
- Emergency Spill Response Plan
- Pollution Control Plan
- Employee training and communication
- Recordkeeping

Contractor acknowledges that they are solely and completely responsible for the safety of the construction site, including, but not limited to, the safety of all persons and property present at the site at any time until final completion and acceptance by District.

I,	(the undersigned Contractor), affirm that I comply with th	ie above
information.		
		-
	Name of Firm	
	Signature	•
	Printed Name	
	Title	

# CLACKAMAS COUNTY UTILITY PERMIT APPENDIX B





#### DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

Warranty Period:

**DEVELOPMENT SERVICES BUILDING** 

150 BEAVERCREEK ROAD | OREGON CITY, OR 97045

#### **UTILITY PERMIT**

Permit Number: UP058218 WARRANTY EXPIRATION: 7/15/2022

Business or Subdivision name: REVISED ON 12-11-18

Permit Issued: 06/13/2018

3

Description: BORE FOR SANITARY

Issued

Permit Expires: 07/15/2019

Applicant Project #: P112239

Permit Status:

Site Address: 16196 SE HWY 224 DAMASCUS, OR 97089 Location: S/O HWY 224 AND E/O SPRINGWATER RD S

Parcel: 23E18CB03700

Applicant: CLACKAMAS COUNTY WATER ENVIRONMENTAL SERVICES/DEWAYNE KLIEWER

150 BEAVERCREEK RD OREGON CITY, OR 97045

503-742-4572

DEWAYNEK@CLACKAMAS.US

Contractor: CLACKAMAS COUNTY WATER ENVIRONMENTAL SERVICES

**DEWAYNE KLIEWER** 

150 BEAVERCREEK RD OREGON CITY OR 97045 - DEWAYNEK@CLACKAMAS.US

503-742-4572 24-Hour Emergency Phone: 503-793-7291

Primary Inspector: Duffy Gehrts 503 742 4676

If the primary inspector is not available please call (503) 742-4700

#### **TYPE OF WORK**

Size of permitted excavation: Minimum depth is 30" (County Code chapter 7.03.170 Paragraph)

Work Description: Bore

Width: 1 Ft Depth: 8 Ft Length: 70 Ft

Proposed Start: 08/01/2018 Call or fax in actual start & completion date to:

Proposed Complete: 05/31/2019 Phone: (503) 742-4700 Fax: (503) 742-4659

Conditions of this permit:

#### ENG148 - UTILITY - BORE/PUSH - Bore/Push -

- 1. Granular backfill (1 1/2"-0", 1"-0", or 3/4"-0"), approved by Clackamas County, must be used within three (3) feet of the road surface and must be compacted to a minimum of 95% compaction. Compaction test results are to be submitted to Clackamas County Engineering Division within ten (10) days of completion of project.
- 2. Contact the inspector listed on this permit if a bore is not possible and alternate installation methods are required. Backfill will be determined at that time for the revised plans. 3. If bore pits are on the back side of the ditch, in native soil, a compaction test will not be required. A one (1) year warranty period will be used on these. 4. Arterial and Collector roadways will require CDF for backfill in the bore pits with the roadway. Saw cut the pavement to a full depth at the trench limits. Double saw cut to provide a twelve 12) inch "T-cut" with a four (4) inch minimum asphaltic concrete replacement or match the existing thickness of existing asphalt removed for trench repair. 5. All asphalt joints must be sealed and sanded.

#### **GENERAL**

- The applicant is hereby authorized to work in the right of way and roadway at the location designated provided all work is performed in accordance with the Clackamas County Code, Roadway Standards, this permit, and conditions of land use approval.
- Each applicant should obtain a copy of the Clackamas County Code and Roadway Standards.
- Any fixed objects installed within County right of way must comply with Clackamas County Code and Roadway Standards.

#### **DOCUMENTATION**

Maintain a complete set of the permit, approved plans and any conditions or special provisions at the job site.

#### MODIFICATION OF THE PERMIT

Engineer of record should request approval for changes to the permit, plans, conditions or provisions if the scope of work changes.

#### **NOTIFICATION**

Contact the County at 503-742-4700 with at least one (1) business day's notice for the following:

- Start of construction
- A break in construction greater than three (3) days (excluding holidays and weekends)
- Completion of construction

Be prepared to have your permit number available for entry into this automated system.

#### **UTILITY NOTIFICATION**

**ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center.** Those rules are set forth in OAR 952. (Oregon Utility Notification Center 800-332-2344 or 811 or <a href="https://www.digsafelyoregon.com">www.digsafelyoregon.com</a>)

Contact the affected utility companies and request line location services. Resolve any utility conflicts before initiation of construction.

#### **SAFETY REQUIREMENTS**

- The person performing the work is responsible for providing adequate safeguards in the form of barricades, pedestrian walks, night lighting, and/or other measures as the Inspector directs. The roadway or walk area shall not be unnecessarily obstructed. All material and debris shall be removed from the public right of way within a reasonable amount of time.
- Keep mud and debris off the traveled portion of the roadway.
- The person performing the work is responsible for personal or property damage resulting from the work and shall hold the County harmless from any and all legal action arising out of said work.
- The County Inspector may order the change or removal of any construction authorized by this permit at any time when the
  public safety, public convenience, and the general welfare of the public requires such action.

#### CONSTRUCTION AND MAINTENANCE RESPONSIBILITY

Failure to fulfill the construction requirements, maintain the structures as permitted to the extent that it results in damage to the county or public road, causes a hazard to the public, or where they find violations of the Clackamas County Code, Clackamas County Roadway Standards, 2008 Oregon Standard Specifications, and any special conditions or provisions established for this permit is reason for the Inspector to revoke the permit.

#### **CONSTRUCTION**

- Limit work and activity zones (construction, restoration, erosion control, etc.) to no more than 2,500 lineal feet at any one time, unless previously approved by the County.
- Limit open trenches in the right of way of an existing road to no more than 250 lineal feet at any one time, unless previously approved by the County. No trenches are to be left open overnight.

#### ACCESS CONTROL/MANAGEMENT OF THE RIGHT OF WAY

- Clackamas County retains its right to full supervision and control within the road right of way, and this permit is not exclusive.
- Other utilities or persons may be permitted to occupy the same portion of the road right of way simultaneously.
- The person performing or contracting the work shall not cause interference with any County road work.
- Preserve and protect all public and private infrastructure (i.e. survey monuments, drainage systems, traffic control devices, roadside barriers, utilities, etc.) ensuring that these facilities continue to properly function during the course of the work.

#### TRAFFIC CONTROL

- Establish and maintain work zone traffic control in compliance with the Oregon Temporary Traffic Control Handbook (OTTCH) For Operations of Three Days or Less (December 2011).
- For traffic control set up for a continuous duration of longer than three (3) days, comply with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and the Oregon Supplements to the MUTCD.
- Roadway closures are prohibited unless approved by Clackamas County under separate permit and in compliance with the Roadway Standards.

#### **SURVEY MONUMENTS**

ORS 209.140 and 209.150 as well as the County Code 7.03.210 require the protection of all existing survey monuments. These Statutes also require notice to the County Surveyor prior to disturbing or removing any survey monument. This may require the employment of a registered Professional Land Surveyor. The applicant shall employ all necessary means in order to preserve these monuments. Failure to comply with these terms may be prosecuted as stated in ORS 209.990. The Clackamas County Surveyor's Office can be reached at 503-742-4475.

#### INTERIM RIGHT OF WAY RESTORATION

Restore and maintain road surfaces to their pre-existing grade with like materials or steel plating at the end of each work day unless otherwise approved. For bituminous road surfaces (asphaltic concrete or chip seals), interim restoration shall be with either hot mix or cold mix asphaltic concrete.

#### PERMANENT RIGHT OF WAY RESTORATION

Restore all existing infrastructure affected by the work to original or better condition including but not limited to the road surface, base and subgrade, pavement markings, drainage facilities, signs, safety appurtenances, bicycle and pedestrian facilities, vegetation or landscaping, and any other feature affected by the work.

#### **ENVIRONMENTAL**

Approval by Clackamas County does not imply or guarantee approval by Oregon Department of State Lands (DSL), Department of Environmental Quality (DEQ) or US Army Corps of Engineers (COE).

The applicant is responsible for all applications, fees, and coordination of Federal, State and Local regulatory offices with regard to fills and excavations within regulated waterways, riparian zones, and wetlands associated with the Clean Water Act and the Urban Stormwater National Pollutant Discharge Elimination System (NPDES), if required.

#### **EROSION CONTROL**

Install and maintain appropriate erosion and sediment control devices, in accordance with approved Erosion and Sediment Control Plan (ESCP) to ensure that all catch basins, drainage inlets, manholes, wetlands, waterways, and resource waters are sufficiently protected from erosion and sediment. Erosion and sediment control devices must be modified as changing conditions warrant. In the absence of a formal ESCP, comply with Water Environment Services standards (Erosion Prevention Planning and Design Manual), DEQ standards (DEQ Erosion and Sediment Control Manual, April 2005), and/or 1200c Permit, if applicable.

#### DRAINAGE

If the work performed under this permit involves or in any way interferes with the drainage of the roadway, the owner shall wholly and at their own expense make such corrections as necessary to the County's satisfaction.

#### **BEST MANAGEMENT PRACTICES**

Ensure all equipment is leak free with sufficient and appropriate spill prevention and clean up materials on site and that the personnel involved with the work are familiar with and proficient in their use. Remove construction equipment from the right of way when not in use. Do not park, re-fuel, or service equipment or store hazardous materials directly over or uphill from catch basins, drainage inlets, or manholes or within 150 feet of any wetland, waterway, or resource water. Re-fuel over a pervious surface and use absorbent pads to collect spilled fuel.

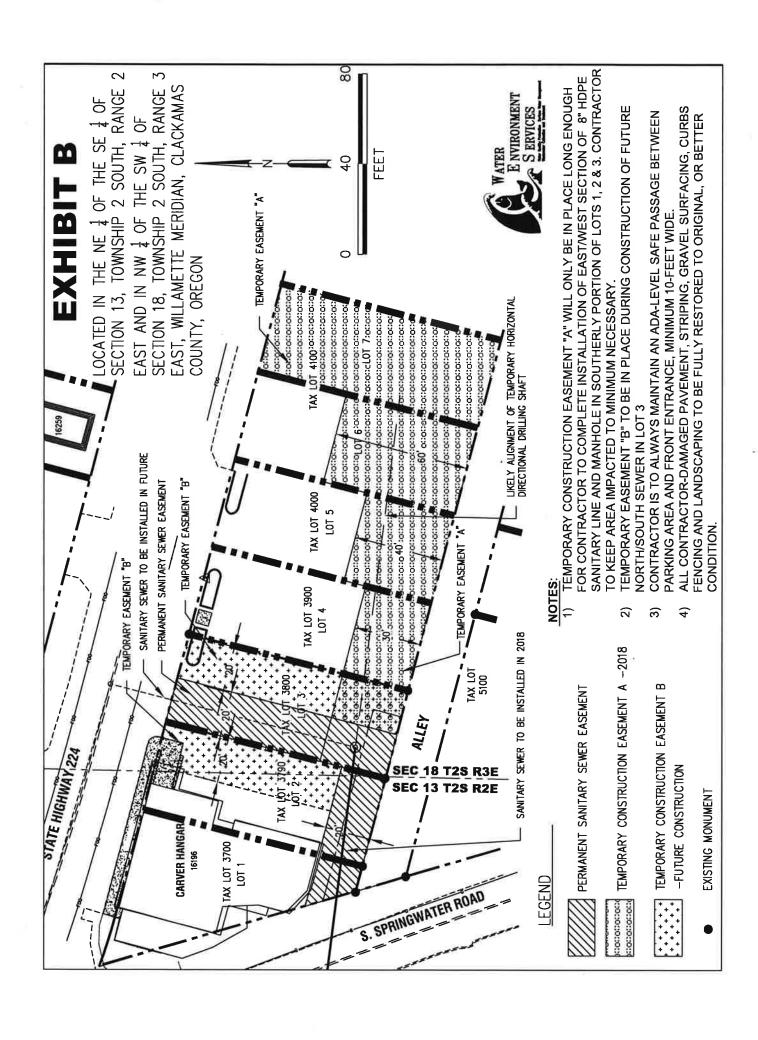
#### **CUSTOMER SERVICE**

Communicate and mutually coordinate, as needed, with adjacent residents and business that may be impacted by the work. Interaction with the public shall be in a professional, courteous, and timely manner.

This permit does not permit trespass on the lands of others.

## EASEMENT PLAN APPENDIX C





## EASEMENT RELEASE FORM APPENDIX D



#### EASEMENT RELEASE FORM

#### PROPERTY OWNER'S APPROVAL OF EASEMENT RESTORATION

I/We, the Owner(s) of property identified as				
(Property 6	Owner(s) name(s), printed)			
(Address	s or Property Description)			
do hereby approve and accept the restoration	work done by			
()	Contractor Name)			
the Contractor on the construction of pipeline	es on easements over and across my/our property.			
SIGNED	DATE			
SIGNED	DATE			
DATE CONTRACTOR RECAN WORK	ON CITE.			
DATE CONTRACTOR BEGAN WORK	ON 511E:			
DATE CONTRACTOR OFF SITE:				

-END OF SECTION-

## MANHOLE/PIPELINE TESTING FORMS APPENDIX E





Inspector's Signature: \_\_



## WATER ENVIRONMENT SERVICES A DEPARTMENT OF CLACKAMAS COUNTY

#### LOW PRESSURE AIR/MANDREL TEST

Project	:: <u>NCRA – Phase</u>	III Improvement	<u> </u>	Date:		
Contra	ctor:	<u> </u>		Project #:		
Testing	Company:	<del> </del>		Inspector:		
Tested Section:			Air Test:	Passed Failed Mandrel Test: Passed	Failed	Ĺ
Diameter (in)	Length (ft)	$T=d^2L/42$	T=Minutes	Average Ground Water Height Above Pipe	=	_feet
				2. Psi/ft of Ground Water	x <u>0.433</u>	_psi/ft
				3. Average Ground Water Pressure	=	_psi
				4. Test Pressure	+ 4.00	_psi
				5. Beginning Test Pressure	=	_psi
T = 56 d if	<del>-</del>			6. Timed Pressure Drop		psi
$A < 625 \text{ ft}^2$	Totals			7. Ending Test Pressure	=	_psi
		-		8. TIME REQUIRED BY SPEC	=	_Min
Tested Section:			Air Test:	Passed Failed Mandrel Test: Passed	Failed	Ĺ
Diameter (in)	Length (ft)	$T=d^2L/42$	T=Minutes	1. Average Ground Water Height Above Pipe	=	_feet
				2. Psi/ft of Ground Water	x <u>0.433</u>	_psi/ft
				3. Average Ground Water Pressure	=	_psi
				4. Test Pressure	+ 4.00	_psi
		111		5. Beginning Test Pressure	=	_psi
T 50 116			-	6. Timed Pressure Drop		_psi
T = 56 d if A < 625 ft <sup>2</sup>	Totals			7. Ending Test Pressure	=	_psi
A < 025 It	L		1	8. TIME REQUIRED BY SPEC	=	_Min
				Passed Failed Mandrel Test: Passed	Failed	l
Tested Section:			Air Test:	1. Average Ground Water Height Above Pipe	=	feet
Diameter (in)	Length (ft)	$T=d^2L/42$	T=Minutes	2. Psi/ft of Ground Water	x 0.433	
"				3. Average Ground Water Pressure	=	_psi
				4. Test Pressure	+ 4.00	psi
	,			5. Beginning Test Pressure	=	psi
				6. Timed Pressure Drop		psi
T = 56 d if	Totals			7. Ending Test Pressure	=	_psi
$A < 625 \text{ ft}^2$	Totals			8. TIME REQUIRED BY SPEC	=	 Min
						_

#### Procedure for Air Testing of Sewer Pipe & Appurtenances

- 1. The Contractor may desire to make an air test prior to backfilling for his own purposes. However, the acceptance air test shall be made after backfilling and compaction has been completed to finish grade.
- 2. The Contractor shall furnish all facilities and personnel for conducting the test under the observation of the Engineer. The equipment and personnel shall be subject to the approval of the Engineer. The pressure gauge used shall have minimum divisions of 0.10 psi and have an accuracy of 0.0625 psi (one ounce per square inch). All air used shall pass through a single control panel.
- 3. The first section of pipe not less than 300 feet in length installed by each crew shall be tested in order to qualify the crew and/or material. Successful installation of this section shall be a prerequisite to further pipe installation by said crew.
- 4. All tees, and/or ends of side sewer stubs shall be plugged and banded, or acceptable alternate and securely fastened to withstand the internal test pressures. The Contractor shall clean the line before proceeding with the air test. All debris shall be removed at the first manhole where its presence is noted. In the event cemented or wedged debris or a damaged pipe shall prevent cleaning, the contractor shall remove the obstruction.
- 5. <u>Safety Provisions.</u> The plugs must be firmly secured and care should be exercised in their removal. The total force on a 12" plug at 4.0 psi is over 450 pounds. Care must be exercised in not loading the sewer line with the full pressure of the compressor. Keep all personnel out of manholes until the pressure has been released. If water leaks into the line after the plugs are installed and floods the air inlet and the needle on the air pressure gage indicates zero, then possibly the water column has balanced the air pressure in this instance and care is necessary in releasing the pressure. If testing below ground water level, inject the air at the upper plug and/or turn the inlet up as with a water test apparatus.
- 6. The pipe or sections of pipe to be tested may be wetted before the air test is started. Immediately following the pipe cleaning and wetting, the pipe shall be tested with low pressure air. Air shall be slowly supplied to the plugged pipe installation until the internal air pressure reaches 4.0 pounds per square inch greater than the average back pressure of any ground water that may submerge the pipe.
- 7. At least two minutes shall be allowed for temperature stabilization before proceeding further. After the two minute temperature stabilization period, disconnect the air supply.
- 8. The pipeline shall be considered acceptable, when tested for the calculated period of time at an average pressure of 4.0 pounds per square inch greater than the average back pressure of any ground water that may submerge the pipe; if: (1) the total rate of air loss from any section tested in its entirety between manhole and cleanout structures does not exceed 1.0 cubic feet per minute, or (2) the section under test does not lose air at a rate greater than 0.0015 cubic feet per minute per square foot of internal pipe surface.
- 9. If the Pipe installation fails to meet these requirements, the Contractor shall determine at his own expense the source or sources of leakage, and he shall repair or replace all defective materials and correct all faulty workmanship. The type of repairs proposed by the Contractor must be approved by the Engineer before the repair work is begun. The completed pipe installation shall meet the requirements of the air test before being considered acceptable.

#### **Mandrel Testing Procedures**

- 1. In addition to hydrostatic or air testing, sanitary sewers constructed of PVC sewer pipe shall be deflection tested not less than 30 days after the trench backfill and compaction has been completed. The test shall be conducted by pulling an approved solid pointed mandrel through the completed pipeline. The diameter of the mandrel shall be 95 percent of the inside diameter of the pipe. The mandrel shall be a rigid, nonadjustable, odd-numbered-leg (9 legs minimum) mandrel having an effective length of not less than its nominal diameter.
- Testing shall be conducted on a manhole to manhole basis and shall be done after the line has been completely
  cleaned and flushed. Any portion of the sewer which fails to pass the test shall be excavated, repaired or
  realigned, and retested with both air and deflection tests.

#### Sample Calculations for Time in Minutes of Air Testing Procedure for 1 psi drop

#### If A is > 625

_	_	2ء	140
т	=	44	1112

<u>d - Inches</u>	L - Feet	<u>_d²L</u>	T - Seconds	T- Minutes
4	200	3200	76	1.27
8	502	32128	765	12.75
		35328	841	14.02

$$A = \pi Ld/12$$

πd - Inches 4	<u>L-feet</u> 200	<u>A = Ft²</u> 209
8	502	1051
		1260 is > 625

#### If A is < 625 then use formula (T= 56d)

T = 56d

<u>d - Inches</u>	T - Seconds	T- Minutes
12 ( 8 + 4)	672	11.20
8	448	7.47

 $A = \pi Ld/12$ 

<u>πd - Inches</u> 4	<u>L-feet</u> 20	$\frac{A = Ft^2}{21}$	
8 ,	150	314	
		335	is < 625





## WATER ENVIRONMENT SERVICES A DEPARTMENT OF CLACKAMAS COUNTY

#### MANHOLE VACUUM TEST

	PROJECT:				DATE:				
	CONTRACTOR:				PROJ #	PROJ #:			
	TESTING COMPAN	Y:			_ INSPEC	CTOR:			
DATE	<u>MH#</u>	MH DIAM.	MH DEPTH	TIME REQD	<u>VACU</u> START	UM END	PASS / FAIL	COMMENTS	
		<u> </u>					1		
		_							
								-	
	,			_					
Sectio	E: All manhole vacuum n 2-C-3-c-8. The manh tor's Signature:	ole shall be	set to finish	grade and	d all paving				
Proced	lures on back								

#### Procedure for manhole vacuum test

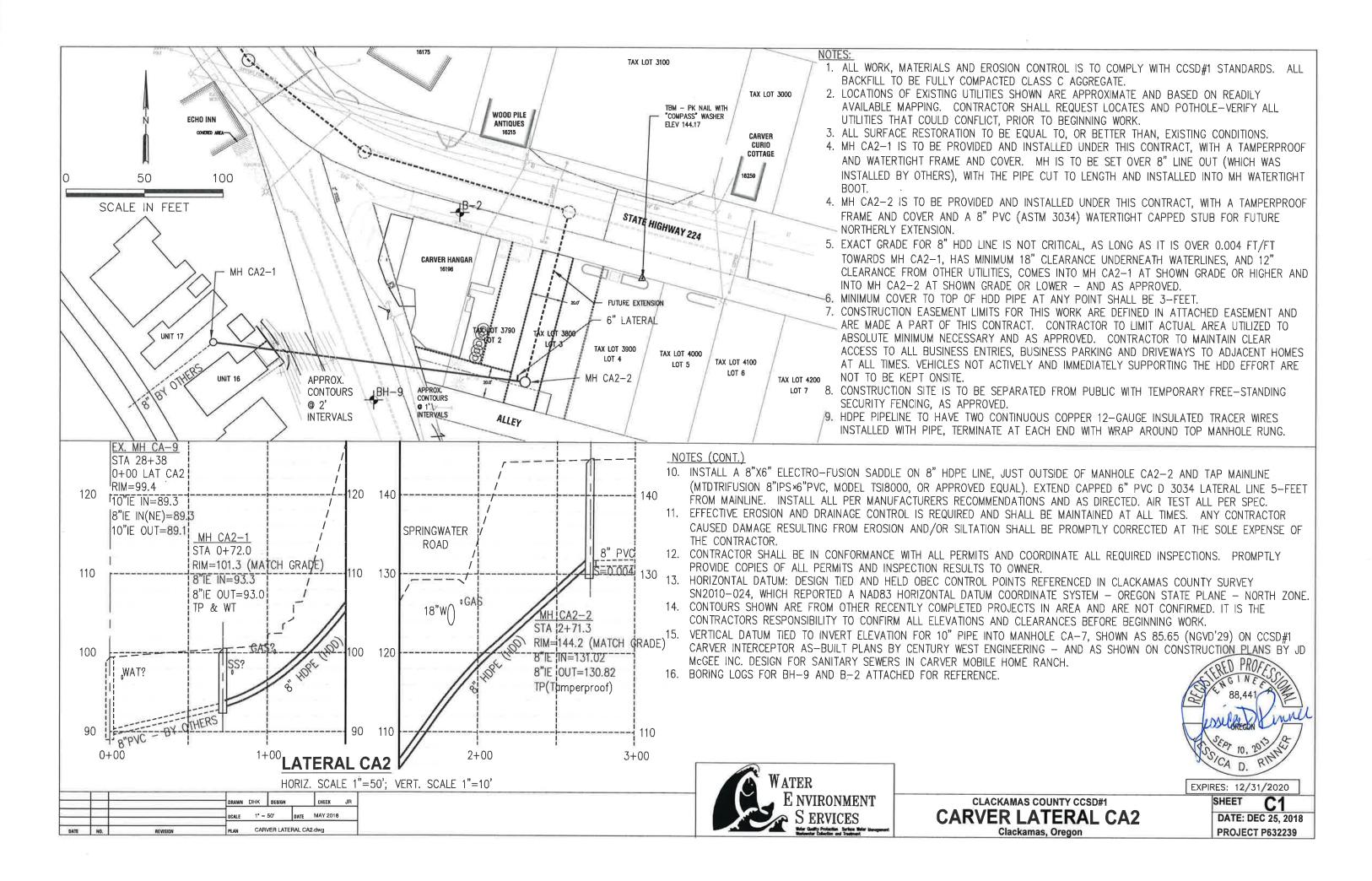
- 1. All lift holes shall be plugged with an approved non-shrink grout.
- 2. All pipes entering the manhole shall be plugged, taking care to securely brace the pipes and plugs from being drawn into the manhole. The manhole shall be set to finish grade and all paving (if applicable) completed.
- 3. The test head shall be placed at the inside of the top of the frame and the seal inflated in accordance with the manufacturers' recommendations.
- 4. A vacuum of 10 inches of mercury shall be drawn, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to 9 inches.
- 5. The manhole shall pass if the time for the vacuum reading to drop from 10 inches of mercury to 9 inches meets or exceeds the values indicated below.

Depth of Manhole	A	llowable Time (seconds)	
(feet)	48 - inch	60 - inch	72 - inch
8	20	26	33
10	25	33	41
12	30	39	49
14	35	46	57
16	40	52	67
18	45	59	73
20	50	65	81
22	55	72	89
24	59	78	97
26	64	85	105
28	69	91	113
30	74	98	121

6. If the manhole fails the initial test, necessary repairs shall be made with a non-shrink grout after the vacuum has been released. Retesting shall proceed until a satisfactory test is obtained.

## CONSTRUCTION DRAWINGS (PLANS) APPENDIX F

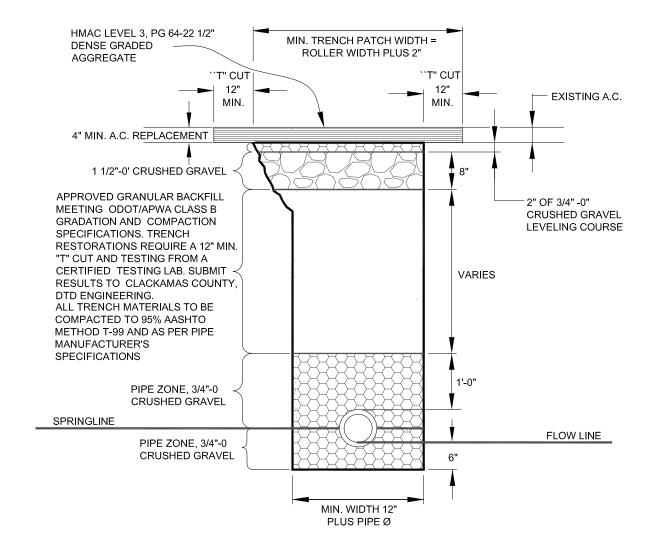




### STANDARD DETAILS – WATER ENVIRONMENT SERVICES & CLACKAMAS COUNTY DTD

APPENDIX G





#### **BACKFILL-CLASS "C"**

#### **NOTES**

- THE EXISTING A.C. SHALL BE SAWCUT THROUGH ENTIRE A.C. SECTION PRIOR TO EXCAVATION.
- 2. BACKFILL IN PIPE ZONE SHALL BE PLACED IN MAXIMUM 6" LIFTS AND COMPACTED.
- 3. TRENCH BACKFILL SHALL BE PLACED IN MAXIMUM 12" LIFTS TO 95% DENSITY.
- 4. THE USE OF CONTROL DENSITY FILL SHALL BE DETERMINED BY CLACKAMAS COUNTY, REFER TO STANDARD DRAWING U-250.
- 5. SAWCUT EDGES TO BE TACKED WITH HOT LIQUID ASPHALT.
- 6. WORK RESULTING IN IRREGULAR TRENCH WIDTHS OR INCIDENTAL DAMAGE TO THE ROADWAY SURFACE WILL REQUIRE ANOTHER SAWCUT AND SUBSEQUENT REMOVAL OF A.C. THE SAWCUT LINE SHALL BE APPROVED BY CLACKAMAS COUNTY PRIOR TO THE PERMANENT A.C. REPAIR.
- RESTORE A.C. SECTION WITH 4" OF 1/2" DENSE GRADED AGGREGATE MIX OR AN EQUAL THICKNESS OF THAT REMOVED WHICHEVER IS GREATER, PLACE A.C. IN MAXIMUM 2" LIFTS.
- 8. A.C. JOINTS/SEAMS SHALL BE SEALED WITH HOT LIQUID ASPHALT, OR APPROVED EQUAL, AND SANDED.
- 9. CLACKAMAS COUNTY SHALL BE NOTIFIED FOR INSPECTION.

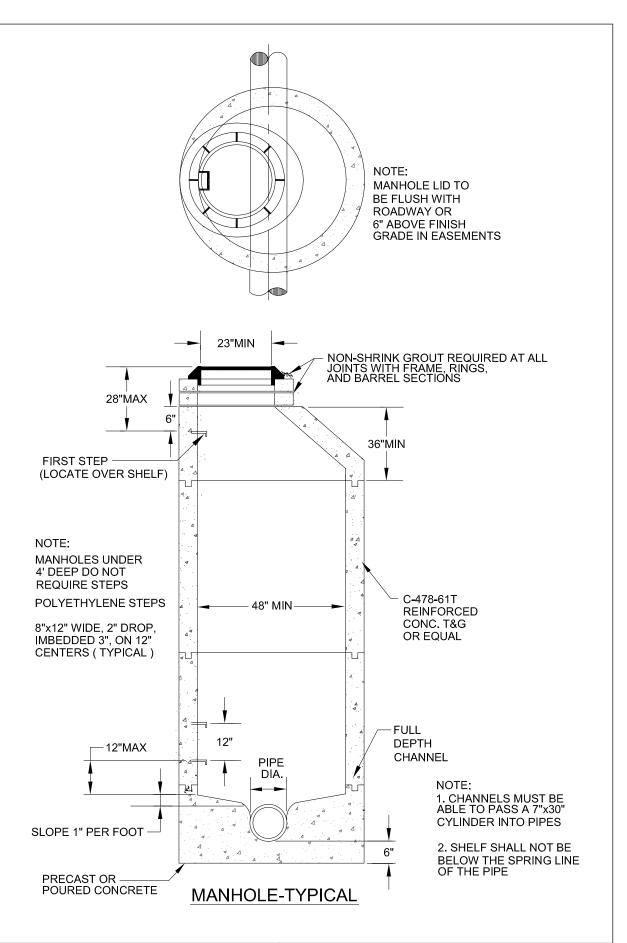


CLACKAMAS COUNTY 150 BEAVERCREEK ROAD OREGON CITY, OR 97045 APPROVAL DATE:

2013

SCALE: N.T.S.

STANDARD DRAWING

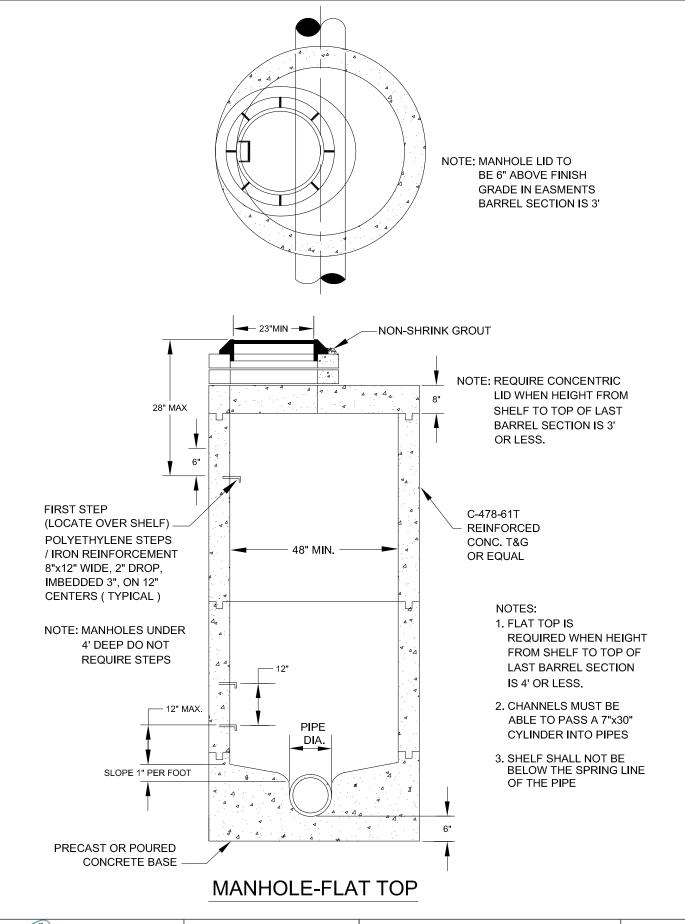




CLACKAMAS COUNTY 150 BEAVERCREEK ROAD OREGON CITY, OR 97045 APPROVAL DATE: 2013

SCALE: N.T.S.

STANDARD DRAWING



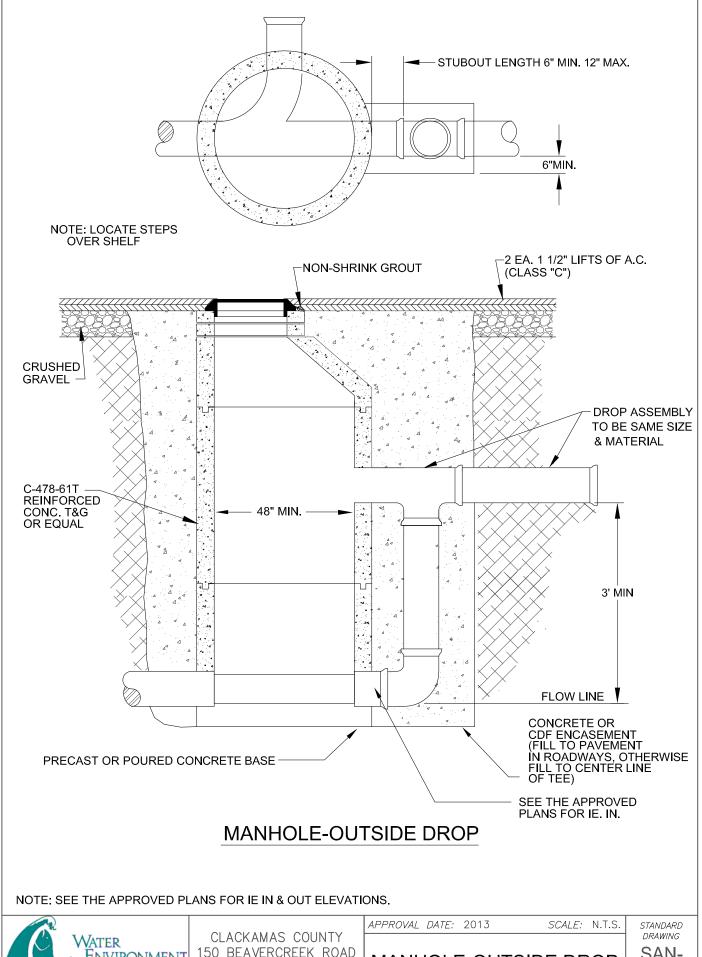


CLACKAMAS COUNTY 150 BEAVERCREEK ROAD OREGON CITY, OR 97045 APPROVAL DATE: 2013

SCALE: N.T.S.

STANDARD DRAWING

MANHOLE-FLAT TOP

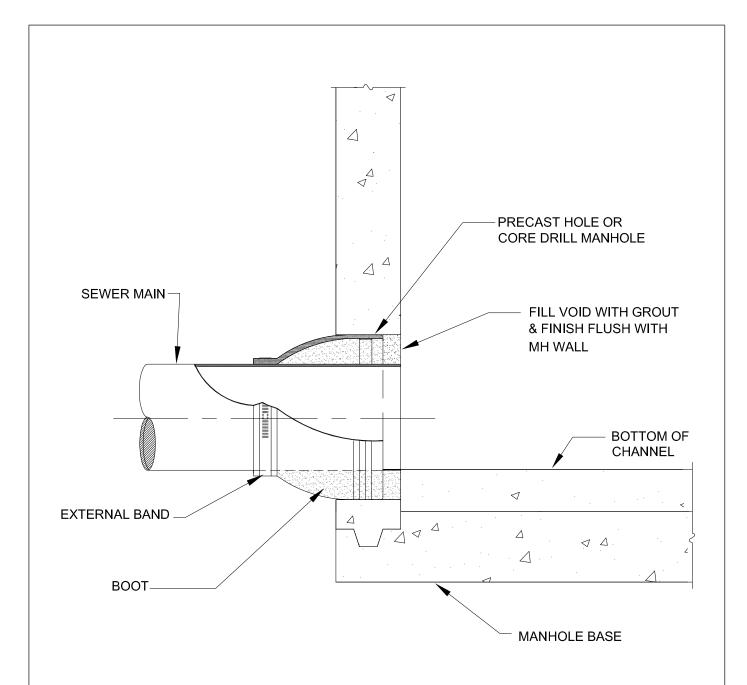


Environment SERVICES

150 BEAVERCREEK ROAD OREGON CITY, OR 97045

MANHOLE-OUTSIDE DROP

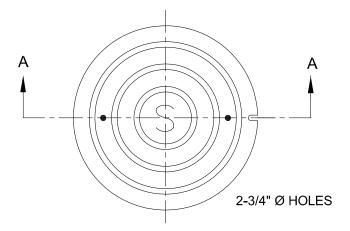
SAN-006

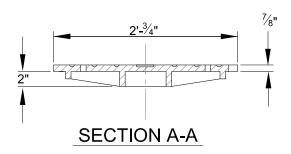


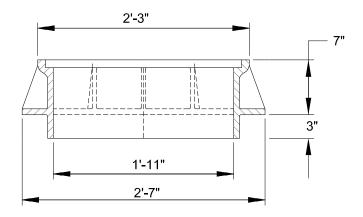
## MANHOLE-CONNECTION FLEXIBLE (KOR-N-SEAL OR EQUAL)



#### **STANDARD**







#### FRAME & COVER STANDARD

#### NOTES:

- 1. STANDARD FRAME AND COVER TO BE USED ON COLLECTOR, ARTERIAL, AND INDUSTRIAL STREETS OR AS NOTED ON CONSTRUCTION PLANS.
- 2. SANITARY COVER WILL HAVE 2 3/4" Ø HOLES.



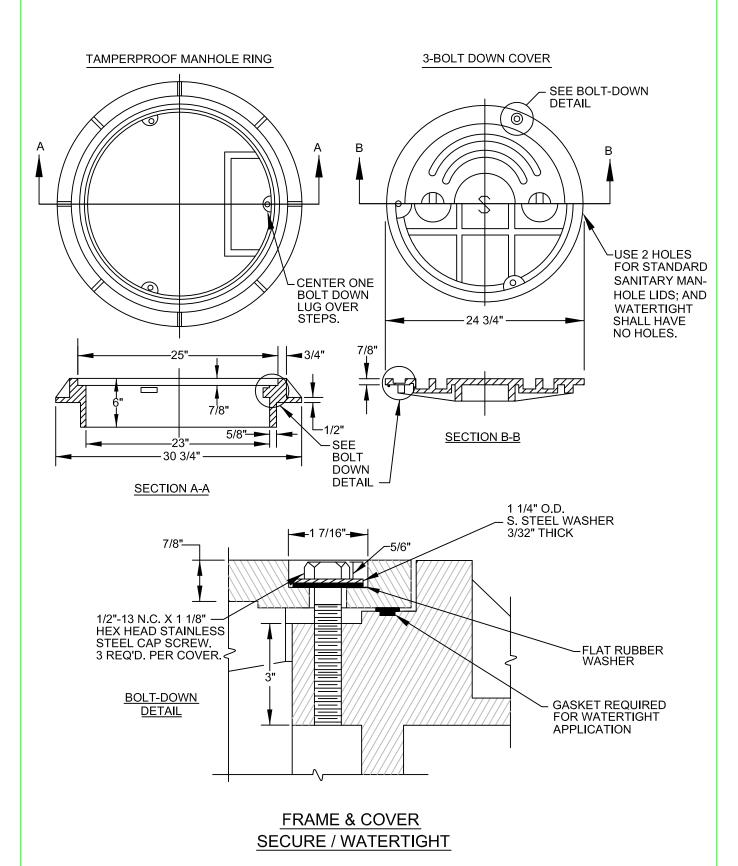
CLACKAMAS COUNTY 150 BEAVERCREEK ROAD OREGON CITY, OR 97045 APPROVAL DATE:

2013

SCALE: N.T.S.

STANDARD DRAWING

FRAME & COVER STANDARD



NOTE: COVER AND FRAME SHALL BE OF GRAY CAST IRON A.S.T.M. A-48 CLASSS 30.

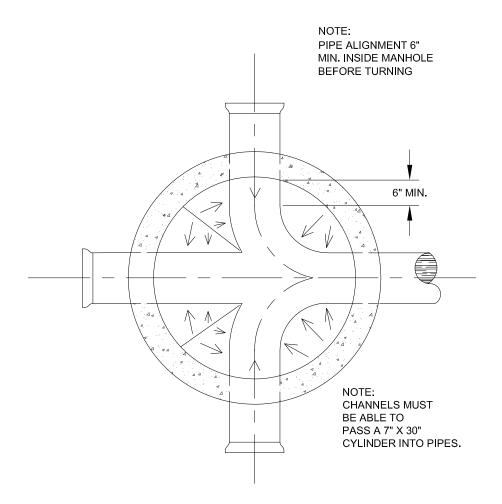


CLACKAMAS COUNTY 150 BEAVERCREEK ROAD OREGON CITY, OR 97045 APPROVAL DATE: 2013

SCALE: N.T.S.

STANDARD DRAWING

FRAME & COVER SECURE/WATERTIGHT



#### **CHANNEL-INTERSECTION**



#### NOTES:

- 1. CHANNELS MUST BE ABLE TO PASS A 7" X 30" CYLINDER INTO PIPES.
- 2. CHANNEL TO FOLLOW
  PIPE ALIGNMENT 12"
  MIN. INSIDE MANHOLE
  BEFORE TURNING.

  12" MIN.

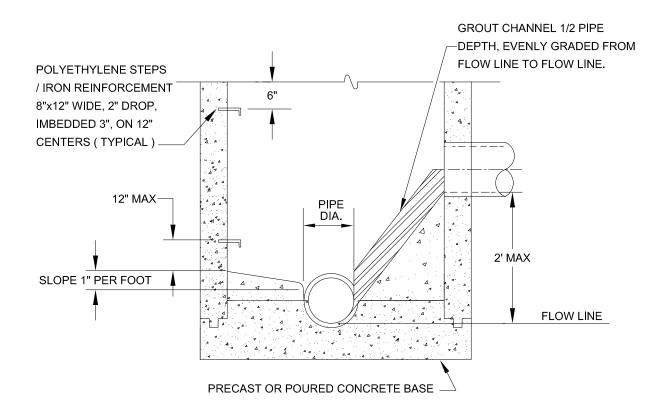
  12" MIN.

  12" MIN.

  CENTER OF MH ALSO
  CENTER OF CURVE.

#### CHANNEL-90 DEGREE MANHOLE



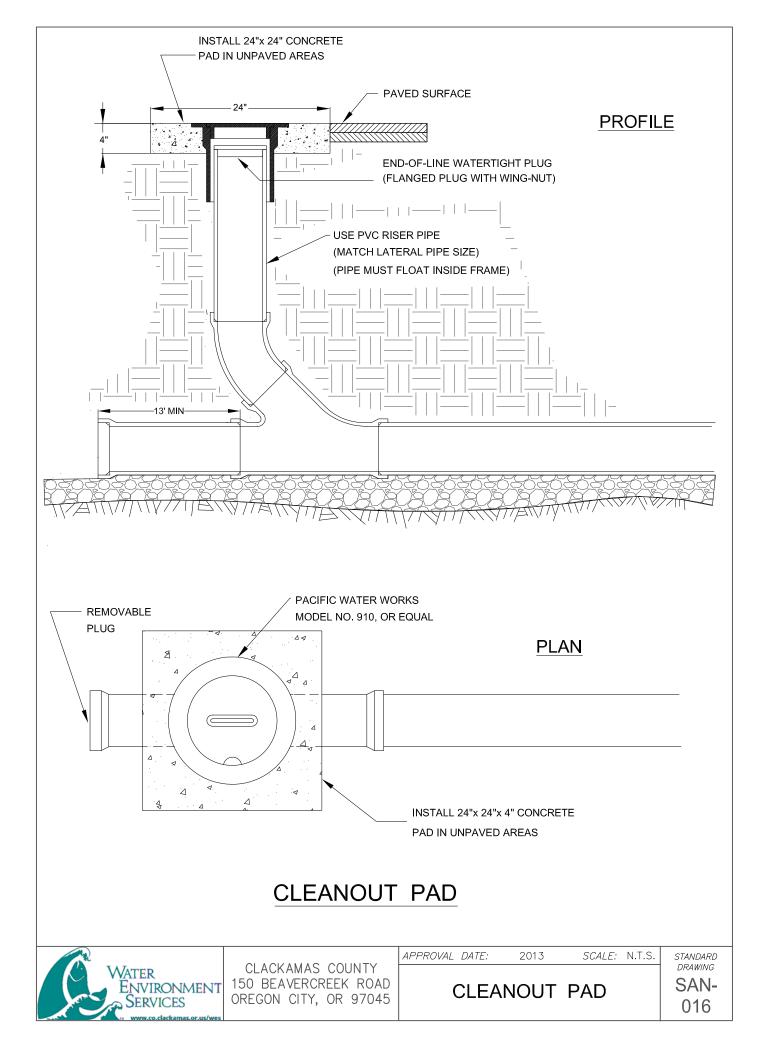


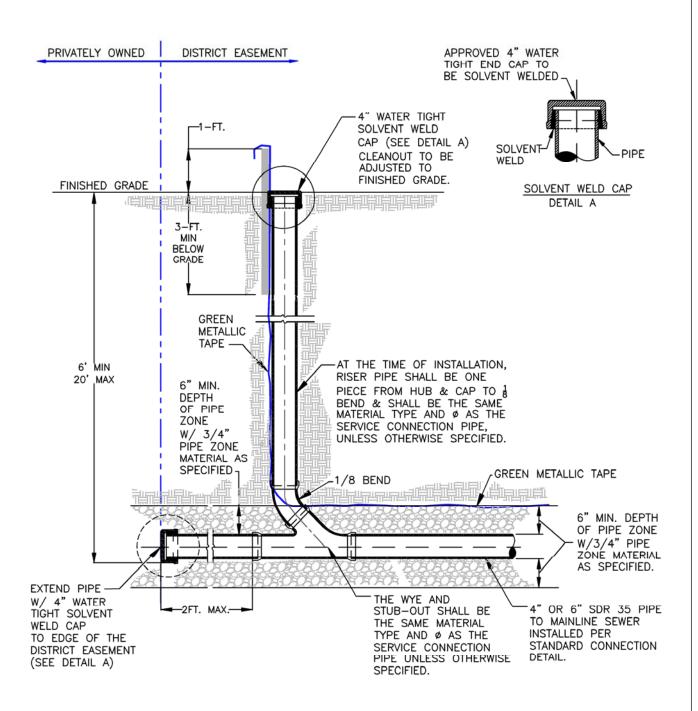
#### **CHANNEL-SLIDE**

(BY DISTRICT PRE-APPROVAL ONLY)

NOTE: CHANNELS MUST BE ABLE TO PASS A 7" x 30" CYLINDER INTO PIPES.







#### NOTES:

- 1. ALL PIPE AND FITTINGS SHALL BE ASTM D-3034, SDR 35.
- 2. ON LOTS WITH EXISTING HOMES, CONTRACTOR SHALL INSTALL APPROVED HUBS AND CAPS FLUSH WITH FINISHED GRADE.
- 3. CLEANOUTS SHALL NOT BE CONSTRUCTED SO THE CLEANOUT CAP WILL END UP IN SIDEWALKS, STEPS OR DRIVEWAYS.
- 4. EVERY PROPERTY SHALL HAVE A SEPARATE SERVICE LATERAL CONNECTED DIRECTLY TO THE MAINLINE, UNLESS OTHERWISE APPROVED BY THE DISTRICT. SHARED SERVICES ARE NOT ALLOWED.
- 5. THE SERVICE CONNECTION LOCATION SHALL GENERALLY BE LOCATED TEN FEET (10) OFFSET FROM THE PROPERTY LINE ON THE LOW SIDE OF LOT.
- 6. TEES FOR SERVICE CONNECTIONS SHALL BE LOCATED NO CLOSER THAN FIVE FEET (5) TO MANHOLES. SEPARATION BETWEEN WATER LINE, SANITARY SERVICE CONNECTION AND STORM SERVICE CONNECTION SHALL GENERALLY BE TEN FEET (10) WITH A MINIMUM OF FIVE FEET (5).
- 7. ANY OTHER PROPOSED LOCATION SHALL BE AT THE DISCRETION OF THE DISTRICT ON CASE BY CASE BASIS.



CLACKAMAS COUNTY 150 BEAVERCREEK ROAD OREGON CITY, OR 97045 APPROVAL DATE:

2013

SCALE: N.T.S.

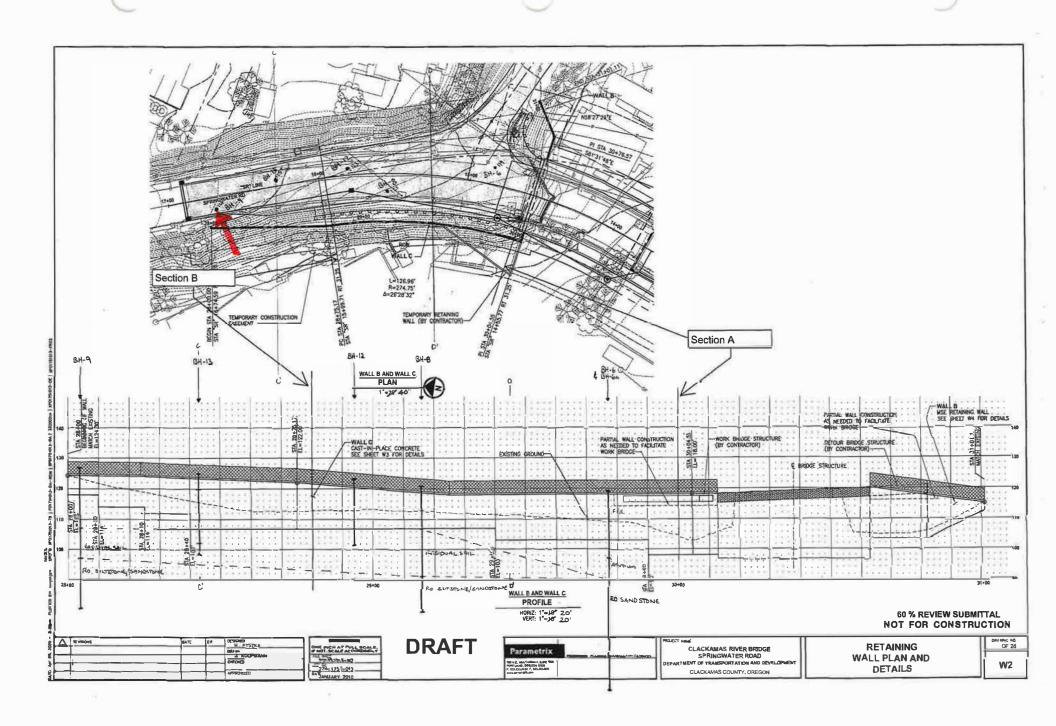
STANDARD DRAWING

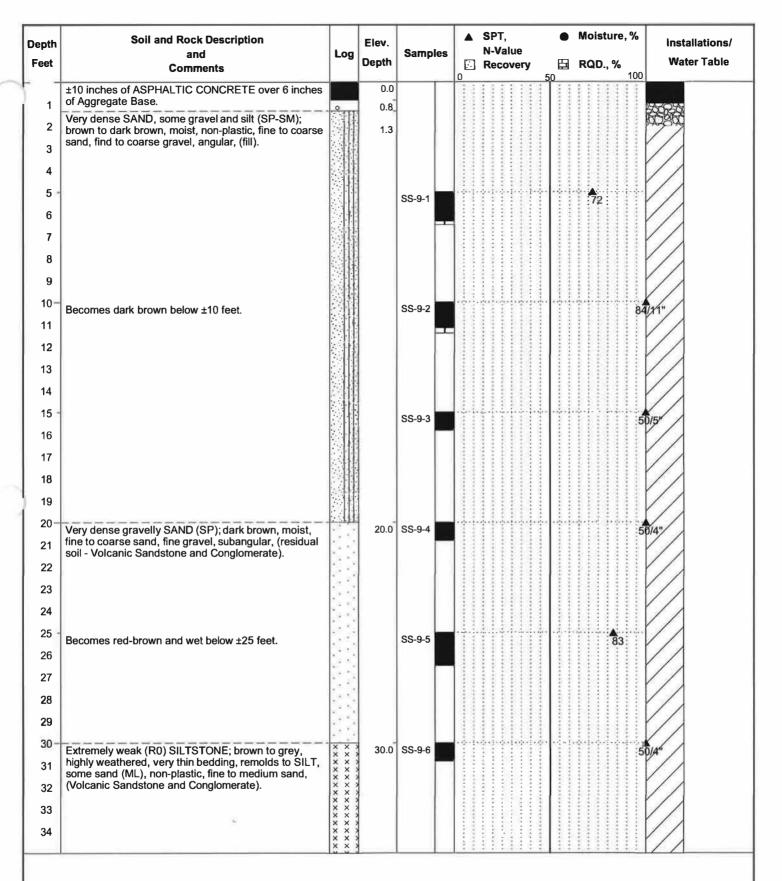
SERVICE CONNECTION EASEMENT

# GEOTECHNICAL BORINGS (BY OTHERS AND FOR REFERENCE ONLY)

APPENDIX H







Project No.:

2052055

Surface Elevation:

(Approx.)

Date of Boring:

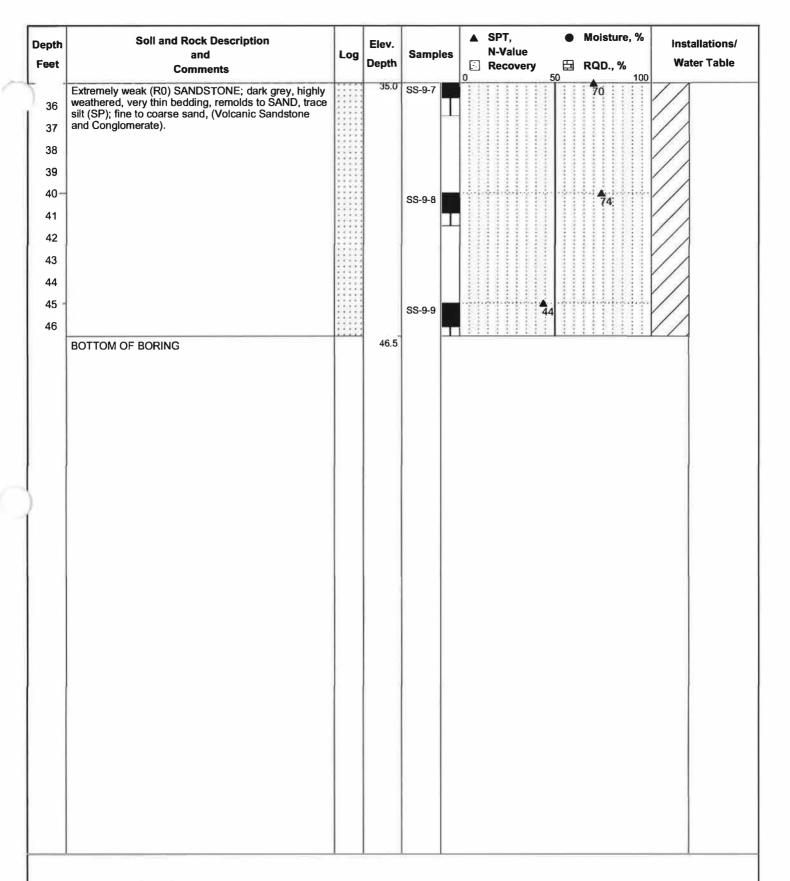
August 19, 2009

Foundation Engineering, Inc.

Boring Log: BH-9

**Clackamas River Bridge** 

Clackamas County, Oregon



Project No.:

2052055

Surface Elevation:

(Approx.)

Date of Boring:

August 19, 2009



Foundation Engineering, Inc.

Boring Log: BH-9

**Clackamas River Bridge** 

Clackamas County, Oregon

