INFORMATIONAL NOTICE

Clean Air Construction

In December 2018, City Council adopted the Clean Air Construction Standard (www.portlandoregon.gov/cac). While the engine requirements do not go into effect until 2021 and the requirements are phased in over time, the Contractor is encouraged to begin transitioning its fleet to equipment and vehicles that meet the 2026 engine requirements (summarized below) ahead of the phase-in schedule. The Contractor is also encouraged to help educate its subcontractors and suppliers about the Clean Air Construction requirements.

Clean Air Construction Standard 2026 Engine Requirements Summary:

- a. On-Road Cement Mixers and Dump Trucks: Diesel cement mixers or dump trucks are 2007 or newer or are retrofitted with a CARB or EPA verified diesel particulate filter. Or vehicles utilize alternative (non-diesel) fuel or are electric powered.
- b. Nonroad Diesel Equipment: Equipment utilizes a Tier 4 compliant diesel engine or is retrofitted with a CARB or EPA verified diesel particulate filter. Or equipment utilizes alternative (non-diesel) fuel or is electric powered.

NO PREBID MEETING SCHEDULED

Contractors are encouraged to visit the work site



Prequalification <u>IS</u>
NOT Required for
Prime Contractor
Development
Contractors
Participants

PRIME CONTRACTOR DEVELOPMENT PROGRAM BID NUMBER 00001456

for

Columbia Blvd: Bank St to Macrum Ave, N Phase II

Grading, Drainage, Paving, Striping, Signing, Illumination, Signals & Roadside Development

Project Number T00821

April, 2020

Refer Questions to:

Mahn Saechao Senior Procurement Specialist

Phone: 503-823-1075

Mahn.Saechao@portlandoregon.gov

Submit Bid to:

Procurement Services online procurement website at:

https://procure.portlandoregon.gov/bso

BIDS DUE:

April <mark>28</mark>, 2020

by 2:00 PM

PROCUREMENT SERVICES

PRIME CONTRACTOR DEVELOPMENT PROGRAM GENERAL INFORMATION

- Bidders are responsible for determining their own bid by attending the prebid meeting, carefully examining the plans, reading the specifications and all addenda, and visiting the work site. Please note, the bid amount should include supervision of any subcontractors—Construction Managers/Project Managers/Inspectors will not be responsible for the supervision of subcontractors.
- Bidders understand that the bid amount submitted at the time of bid will not be increased by change order due to mistakes in the bid made by the Bidder.
- Bidders understand that if subcontracts are required to complete this project, Bidders are responsible for inviting subcontractors to the prebid meetings and notifying the Buyer of the subcontractors needing to be added to the plan holders list. All subcontractors shall be disclosed at the time of bid on the Subcontractor and Self-Perform Work List (Form 1) included herein.
- Under ORS 279C.845, all contractors and subcontractors are required to submit certified payroll statements once a month for each week in which the contractor or a subcontractor employs a worker on this public works project; these are due the fifth business day of the following month. Pursuant to Section 5.34.920(F) of Portland City Code, the City will retain 25% of any amount earned by the contractor on this public works project until the contractor has filed the certified statements required by law. The City will pay to the contractor the amount retained under this City Code provision within 14 days after the contractor files the required certified payroll statements, regardless of whether a subcontractor has filed such statements.
- Tier 1 PCDP firms are eligible for bidding, estimating and other assistance at no cost. For information contact:

Stacey Edwards
Prime Contractor Development Program Coordinator
City of Portland, Procurement Services
1120 SW 5th Ave Room 750
Portland OR 97204
(503) 823-9166
stacey.edwards@portlandoregon.gov

CITY OF PORTLAND BUREAU OF TRANSPORTATION TED WHEELER, MAYOR

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Notice To Bidders

NOTICE TO BIDDERS BIDS ARE DUE BY 2:00 P.M.

This checklist is provided for the use and convenience of bidders. Please refer to the bid documents for requirements, as we cannot guarantee this list is complete. The responsibility for compliance with all requirements remains with the bidder. All submissions are made to Procurement Services.

Board	PRIOR TO BID OPENING: The contractor shall have a current active license from the Oregon Construction Contractors Board. If required by the bid documents, contractors may also be required to attend a pre-bid conference. Contractors also are expected to be aware of, and base their bids upon, all addenda that might be issued prior to bid opening.						
1.		Prequalification by City of Portland (<i>Prequalification Application must be filed with Procurement Services at least 10 days prior to bid opening, unless that time period has been changed by a prequalification application or the Instructions to Bidders.</i>) Download at: http://www.portlandoregon.gov/brfs/44700					
2.		Current, active CCB license is required to submit a bid as stated in Chapter 5.34.520 (A) of the Code of the City of Portland. Specialty licensing as required in the Bid Specifications (shown below) Specialty license: None None					
3.		Addenda (check for receipt of all addenda and acknowledge all addenda before submitting bid)					
4.		Mandatory prebid conference scheduled					
Chec	ked it	ems must be submitted WITH the Bid.					
1.	\boxtimes	Bid (see Instructions to Bidders)					
2.		Bid Security (see Instructions to Bidders)					
3.	\boxtimes	Non-Collusion Affidavit					
4.		Other					
Chec	ked it	ems must be submitted via email to Buyer BY 4:00 p.m. on the day of the bid opening.					
1.	\boxtimes	State of Oregon – <u>First Tier Subcontractor Disclosure Form</u> required if bid is greater than \$100,000. (see State of Oregon Subcontractor Disclosure form for requirements)					
Chec	ked it	ems must be submitted electronically via the City's Contract Compliance Reporting System (previously					
Form	1)						
1.		City of Portland Subcontractor Equity Program - UTILIZATION PLAN (UP) - DUE from the apparent low bidder WITHIN 24 HOURS OF NOTIFICATION BY CITY OF PORTLAND.					
Low	Low Bidders:						
1.		Workforce Training and Hiring Program (see Workforce Training Specification for requirements)					
2.		Certification as an EEO Affirmative Action Employer http://procure.portlandoregon.gov/					
3.		Equal Benefits Compliance					

03 Notice to Bidders - Formal Revised: October 2018

Project Contacts

PROJECT CONTACTS NAMES, ADDRESSES, AND PHONE NUMBERS

During the bidding process, bidders should direct all questions to Mahn Saechao for this project.

The following names, addresses, and phone numbers are included for the convenience of the Bidders and Contractor:

Certification as an EEO Affirmative Action Employer:

Procurement Services 1120 SW 5th Avenue, Room 1040 Portland, OR 97204-1972 (503) 823-5047 (503) 865-3455 FAX https://procure.portlandoregon.gov/bso/

Prequalification of Bidders:

Procurement Services
1120 SW 5th Avenue, Room 1040
Portland, OR 97204-1972
(503) 823-5047
prequalapps@portlandoregon.gov
http://www.portlandonline.com/omf/index.cfm?c=27353&

Submittal of Electronic Bids:

https://procure.portlandoregon.gov

Purchase of "Standard Construction Specifications":

Permit Application Center BDS Building, First Floor 1900 SW 4th Avenue Portland, OR 97204-1971 (503) 823-7660

Subcontractor Equity Program / Workforce Training & Hiring

Toni Marcelin
Procurement Services
1120 SW 5th Avenue, Room 1040
Portland, OR 97204-1972
(503) 823-2505
(503) 865-3455 FAX
Toni.Marcelin@portlandoregon.gov

Instructions To Bidders

INSTRUCTIONS TO BIDDERS

SECURING DOCUMENTS 1.0

Bid documents are available electronically at: http://procure.portlandoregon.gov.

All Bidders who submit bids on this project are required to have copies of a complete set of Bid Documents (plans and specifications), and all addenda issued prior to the bid due date. If there is any question as to the Bid Documents or addenda, contact Procurement Services.

If you intend to submit a bid on this project, you must be registered as a Seller at: http://procure.portlandoregon.gov

1.1 INCORPORATION OF STANDARD CONSTRUCTION SPECIFICATIONS

Bidder shall incorporate all applicable provisions of the City of Portland Standard Construction Specifications, published August 2010, into their bid. The Standard Specification Construction may be downloaded at: https://www.portlandoregon.gov/transportation/article/657782

All work done, and materials used on this project and the legal relations between the parties and the Contractor's requirements shall be as set forth in said Standard Specifications, except as specially and specifically modified or deleted by these Special Specifications. If there is any difference, discrepancy or conflict between these Special Specifications and the General Requirements of the City of Portland, the Special Specifications as set forth here shall apply. The 2010 Standard Construction Specifications may be purchased direct from the City of Portland, Development Services Center, 1900 SW 4th Avenue, Portland, Oregon, phone (503) 823-7660.

2.0 SUBMITTING BIDS

2.1 **BID FORM**

2.1.1 The bid and all other required documents as specified in the Notice to Bidders must be submitted electronically through BuySpeed on or before the bid due date and time. Instructions for Submitting a Construction ITB in BuySpeed are available at the following link: https://www.portlandoregon.gov/brfs/article/652569. required bid documents shall be submitted as an attachment in BuySpeed as a single pdf document using a naming convention which includes Bid Number, Project Title and Contractors name in that order with the use of abbreviations being acceptable (i.e. 0000XXXXProjNameXYZConstCo.pdf). The total base bid amount (excluding any/all alternates) shall also be submitted as an Item amount in BuySpeed as described in the Instructions for Submitting a Construction ITB in BuySpeed. Failure to include the required bid docs as an attachment shall deem the bid non-responsive. NOTE: Bidders should allow for a sufficient amount of time for the bid entry/document upload process in BuySpeed in order to ensure timely submission.

Bidders wishing to listen to the public opening via a conference call may use the Dial-In number and Conference Code provided below:

Instructions to Bidders Bid Number: 00001456

Page 1 of 9 Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

Local US Dial-in: (971) 256-0996 Conference Code: 949530

Callers that dial in before the host will be placed on hold until the host dials in.

- 2.1.2 All bids must be submitted using the forms included in the Invitation for Bid and all applicable blanks giving general information must be filled in and signed by the Bidder or a duly authorized agent. All bids must be clearly and distinctly typed or written in black or blue ink. Any statement accompanying and tending to qualify a bid may cause rejection of such bid unless a statement is required in a bid embracing alternatives.
- **2.1.3** Bidders shall bid on all items included in the bid. Bids that are incomplete or fail to include all items contained in the plans and specifications may be rejected.
- **2.1.4** Bidders should reference the Notice to Bidders for a list of forms to be submitted with the Bid with special attention required regarding 2.5 Bid Security.

2.2 WITHDRAWAL, MODIFICATION OF BID

Submittals in writing to revise electronic Bids will not be permitted. However, the Bidder may withdraw and re-open as described in the Instructions for Submitting a Construction ITB in BuySpeed as many times as necessary up until the Bid Open date/time. All electronic Bid submittals must meet all requirements and deadlines for submitting electronic Bids.

2.3 LATE BIDS

Bids received after the scheduled bid due date and time will not be accepted.

2.4 COST OF BIDS

This Invitation for Bid does not commit the City to pay any costs incurred by any Bidder in the submission of their bid, or in making any necessary studies or designs for the preparation thereof.

2.5 BID SECURITY

No bid will be considered unless accompanied by a certified check, cashier's check, or a bid bond for an amount not less than ten percent (10%) of the aggregate amount of the bid. It shall be payable to the City of Portland as a guarantee that the bid shall be irrevocable for a period of sixty (60) calendar days, unless otherwise specified, after the bid opening date and time and as liquidated damages should the Bidder fail or neglect to furnish the required performance bond and insurance and execute a contract within ten (10) calendar days after receiving said contract from the Chief Procurement Officer for execution. The bid security shall be retained for a period-of-time in accordance with City of Portland Code 5.33.410.

For Bids submitted electronically, the bid security should be submitted as part of the aforementioned single pdf submission and shall be in color. The City reserves the right to request the original bid security after bid opening if the electronic format is not acceptable to the City Attorney's Office.

Instructions to Bidders Bid Number: 00001456 Page 2 of 9

Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

2.6 CONFLICT OF INTEREST

A Bidder submitting a bid hereby certifies that no officer, agent or employee of the City who has a pecuniary interest in this bid has participated in the contract negotiations on the part of the City, that the bid is made in good faith without fraud, collusion, or connection of any kind with any other Bidder of the same Invitation for Bids, and that the Bidder is competing solely in its own behalf without connection with, or obligation to, any undisclosed person or firm. No bid will be considered unless accompanied by the notarized Non-Collusion Affidavit form included in the Invitation for Bid.

The City reserves the right to request the original notarized Non-Collusion Affidavit after bid opening if the electronic format is not acceptable.

3.0 **LEGAL REQUIREMENTS**

3.1 LAWS, ORDINANCES, AND REGULATIONS

The Bidder is presumed to be familiar with all Federal, State and local laws, ordinances, and regulations, which in any manner affect the personnel, material or equipment used in the proposed Work. Bidders agree that if awarded a contract, the successful Bidder will comply with all applicable federal, state and local laws, ordinances, and regulations. The successful bidder shall comply with Title VI of the Civil Rights Act of 1964 and its corresponding regulations as further described at: http://www.portlandoregon.gov/brfs/?c=27353&a=446806. Additionally, the successful bidder must maintain anti-harassment policy in compliance with The City's https://www.portlandoregon.gov/citycode/article/12121.

3.2 SPECIFIC STATUTES AND ORDINANCES

The Bidder's attention is called to the requirements of Oregon Revised Statutes Chapter 279A, 279B, 279C, and to Title 17 and Chapter 5.34 of the City of Portland Code with reference to public improvement contracts, purchasing in general, and to contractor's procedures and pre-qualification requirements.

3.3 EQUAL EMPLOYMENT OPPORTUNITY (EEO) CERTIFICATION

All Bidders must be certified as Equal Employment Opportunity Employers as prescribed by Chapter 5.33.076 of the Code of the City of Portland. Failure to receive EEO compliance prior to the date and time of bid opening may result in delaying the award of the contract. Details of certification requirements are available from Procurement Services, 1120 SW Fifth Avenue, Room 750, Portland, Oregon 97204, (503) 823-5047, or on Procurement Services' website under the Contractor Resources page. In order to be EEO certified, Bidders must complete the online form at: http://procure.portlandoregon.gov.

3.4 NON-DISCRIMINATION IN EMPLOYEE BENEFITS (EQUAL BENEFITS)

The successful Bidder must be in compliance with the City's Equal Benefits Program as prescribed by Chapter 5.33.077 of the Code of the City of Portland prior to contract award. Details of compliance requirements are available from Procurement Services, 1120 SW Fifth Avenue, Room 750, Portland, Oregon 97204, (503) 823-5047, or on Procurement

Instructions to Bidders
Bid Number: 00001456

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Services' website under the Contractor Resources page. In order to comply, Bidders must complete the online form at: http://procure.portlandoregon.gov.

3.5 **PRE-QUALIFICATION OF BIDDERS**

All public improvement projects with an engineer's estimate of \$500,000 or greater requires pre-qualification.

NO PREQUALIFICATION REQUIRED FOR THIS SOLICITATION

The City has taken the prequalification process to an online platform. Submissions can be made website: at the following https://portlandoregon.diversitycompliance.com/?TN=portlandoregon. Completed prequalification applications, including all required documentation, must be received by Procurement Services at least ten (10) days prior to the date of bid opening, unless specifically stated otherwise in the advertisement. Pre-qualification applications received less than ten (10) days prior to the bid opening may be processed or rejected at the City's sole discretion. If the application is not approved the City will notify the bidder in a timely matter per City Code 5.34.510 (G).

3.6 **DRUG TESTING PROGRAM**

Pursuant to ORS 279.505 (2) (1), the Contractor awarded the contract shall demonstrate that an employee drug-testing program is in place.

3.7 **AMERICANS WITH DISABILITIES ACT**

Bidders agree that if awarded a contract, the successful Bidder will comply with all applicable provisions of the Americans with Disabilities Act of 1990, 42 USC Section 12101 et seg. If any Bidder requires special assistance or auxiliary aids during the bidding process, please notify Procurement Services, (503) 823-5047, or TDD (503) 823-6868, at least two (2) business days prior to the required assistance.

3.8 **BUSINESS TAX COMPLIANCE**

A current business tax registration is required before doing business with the City (reference City Code Chapter 7.02). Persons whose gross receipts from all business, both within and without the City, amounts to less than \$50,000 may be exempt, information to complying with the business tax registration is http://www.portlandoregon.gov/revenue/29320.

3.9 CONSTRUCTION AND LANDSCAPE CONTRACTORS BOARDS

Construction contractors must be licensed with the State of Oregon Construction Contractors Board in accordance with ORS 701.005 and any other specialty licensing as required in the bid specification prior to submitting a bid to the City. For information contact:

> CONSTRUCTION CONTRACTORS BOARD 700 Summer St. NE, Suite #300 Salem, OR 97310 (503) 378-4621

(website) http://www.ccb.state.or.us

Instructions to Bidders Bid Number: 00001456

Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

A Landscape Contractors Board license is required in accordance with ORS 671.510 if the bid specification includes landscape work as defined by ORS 671.510. For information contact:

LANDSCAPE CONTRACTORS BOARD 2111 Front St. NE, Suite #2-101 Salem, OR 97301 (503) 378-5909 http://www.oregon.gov/LCB/

4.0 PRE-BID REQUIREMENTS

4.1 **EXAMINATION OF BID DOCUMENTS & WORKSITE**

Before submitting a bid, each Bidder shall carefully examine the Drawings, read the Specifications and all Addenda and visit the site of the Work. Each Bidder shall fully inform themselves prior to submitting a bid as to all existing conditions and limitations under which the Work is to be performed, and shall include in the bid a sum to cover all costs of all items necessary to perform the Work as set forth in the Bid Documents. No allowance will be made to any Bidder because of lack of such examination or knowledge. Submission of a bid will be construed as conclusive evidence that the Bidder has made such examination.

4.2 CLARIFICATION OF BID DOCUMENTS PRIOR TO BID - ADDENDA

- **4.2.1** Requests for additional information or interpretation of the bid document shall be submitted to the Chief Procurement Officer no later than seven (7) days before the deadline for submission of bids. Bid due date is indicated on the cover of the Bid Document.
- 4.2.2 If, in the opinion of the City, additional information or clarification is required, an addendum will be issued to all plan holders on record in Procurement Services. Any addenda issued by the Chief Procurement Officer seventy-two (72) hours or more before the scheduled closing time for filing bids shall be binding upon the Bidder. Failure of the Bidder to receive or obtain such addenda shall not excuse them from compliance therewith if they are awarded the contract.
- **4.2.3** Oral instructions or information given by City Officers, employees or agents to Bidders concerning this Bid Document or the work in general shall not bind the City.

4.3 PRE-BID CONFERENCE

A pre-bid conference may be scheduled to answer Bidders' questions. See front cover of Bid Document for date, time and place. If a mandatory pre-bid conference is scheduled, only General Contractors are required to attend, it is optional for sub-contractors.

If an insufficient number of General Contractors or their representatives attend the Mandatory Pre-Bid conference scheduled for this project, the City may decide to hold a 2nd Mandatory Pre-Bid conference to solicit additional interest and provide a more competitive bidding process.

Instructions to Bidders Bid Number: 00001456

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Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

5.0 CONTRACT AWARD

5.1 BASIS OF AWARD

- **5.1.1** The contract, if awarded, will be made to the lowest, responsive and responsible Bidder offering the lowest unit price base bid.
- **5.1.2** Determination of the lowest responsive, responsible bid is subject to review by the City Attorney.
- **5.1.3** The City reserves the right to accept or reject any or all bids in whole or in part, and waives irregularities not affecting substantial rights; and may reject for good cause all bids upon the City's finding that it is in the public interest to do so.
- **5.1.4** Award of contract, if awarded, will be made within sixty (60) calendar days after the date of bid opening unless otherwise stated in the Bid Documents.

5.2 EXECUTION OF CONTRACT DOCUMENTS

- 5.2.1 The Contract Form to be executed by the City and the successful Bidder for the Work is a standard form of the City of Portland, Oregon. Such form, incorporated into these Bid Documents by reference only and not physically contained herein, may be reviewed by prospective Bidders at Procurement Services, by contacting the Buyer for this project, Mahn Saechao at (503) 823-1075 or by email Mahn.Saechao@portlandoregon.gov.
- **5.2.2** If the contract total is \$50,000 or less, a purchase order may be used to confirm the City's acceptance of a bid.
- **5.2.3** The Bidder to whom the Contract is awarded shall, within ten (10) calendar days after receipt of Contract forms from the Chief Procurement Officer, sign and deliver to the Chief Procurement Officer all required copies.
- **5.2.4** At or prior to delivery of the signed Contract, the Contractor shall deliver to the Chief Procurement Officer a Performance Bond, a separate Payment Bond, any other bonds and policies of insurance or insurance certificates with additional insured endorsement form(s) attached as required by the Contract Documents.
- 5.2.5 Failure or refusal to furnish the signed Contract, bonds and/or insurance policies or certificates in a form satisfactory to the City within the time stated above shall be just cause for cancellation of the award, withdrawal of the Contract, and forfeiture of the Bid Guaranty.

5.3 **ELECTRONIC PAYMENTS**

It is the City's policy to pay its vendor invoices via electronic funds transfers through the automated clearing house (ACH) network. To initiate payment of invoices, vendors shall execute the City's standard ACH Vendor Payment Authorization Agreement which is available on the City's website at: http://www.portlandoregon.gov/brfs/article/409834.

Upon verification of the data provided, the Payment Authorization Agreement will authorize the City to deposit payment for services rendered directly into vendor accounts with financial institutions. All payments shall be in United States currency.

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6.0 PERFORMANCE AND PAYMENT BONDS

- 6.1 The forms for the Performance Bond and the Payment Bond, to be executed by the successful Bidder for the Work and delivered to the City not later than the date of execution of the Contract, are the standard forms of the City of Portland, Oregon. Such forms, incorporated into these Bid Documents by reference only and not physically contained herein, may be reviewed by prospective Bidders at Procurement Services, City of Portland, 1120 SW 5th Avenue, Room 750, Portland, Oregon, 97204, phone (503) 823-5047.
- 6.2 The Bonds, in an amount equal to one hundred percent (100%) of the Contract Sum, shall be satisfactory to the City and shall be executed by a corporate surety licensed to do business in the State of Oregon. The attorney in fact who executed the Bonds on behalf of the surety shall affix thereto a certified and current copy of his power of attorney and shall indicate the monetary limit of such power.

7.0 PREFERENCES FOR GOOD & SERVICES AND NON-RESIDENT CONTRACTOR

- 7.1 ORS 279A.120 requires that, in all public contracts, the public contracting agency shall prefer goods or services that have been manufactured or produced in this State if price, fitness, availability and quality are otherwise equal. In determining the lowest responsive bidder, the City shall add a percent increase on the bid of a nonresident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides.
- 7.2 Where a public contract is awarded to a nonresident contractor and the contract price exceeds \$10,000, the Contractor shall promptly report to the Oregon Department of Revenue on forms provided by the Department of Revenue, the total contract price, terms of payment, length of contract and such other information as the Department of Revenue may require before final payment on the contract can be made. For purposes of this subsection, a nonresident contractor is one who is not domiciled in or registered to do business in the State of Oregon. The Oregon Department of Revenue Nonresident Bidder Form is available at: https://www.oregon.gov/DOR/forms/FormsPubs/nonresident-bidder-800-020.pdf.

8.0 LOCAL BUSINESS PREFERENCE

Residents of the State of Oregon and SW Washington benefit from optimizing local businesses and services, and the local employment opportunities they generate. As such the City desires to employ local businesses in the purchase, lease, or sale of any personal property, public improvements or services. Therefore, the City shall prefer goods or services that have been manufactured or produced by a local business if price, fitness, availability and quality are otherwise equal.

9.0 WAGE RATES

9.1 State of Oregon, Bureau of Labor and Industries (BOLI) prevailing wage rates are required to be paid to workers in each trade or occupation that the Contractor or Subcontractor uses in performing all or part of the work on this project. The applicable prevailing wage rates for this project will be the rates in the BOLI publication titled "Prevailing Wage Rates for

Instructions to Bidders
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Public Works Contracts in Oregon" effective on **January 1, 2020**, including the applicable amendments dated **February 1, 2020**, which are hereby incorporated into this contract by this reference. Workers must be paid not less than the specified minimum hourly rate of wage in accordance with ORS 279C.838 and 279C.840. You can download your copy from www.oregon.gov/boli. If you need additional copies, contact Bureau of Labor & Industries, 800 NE Oregon St. #32, Portland, OR 97232; phone (971) 673-0839.

- 9.2 The City of Portland is required to pay the Prevailing Wage Rate (PWR) fee directly to the Oregon Bureau of Labor and Industries. Therefore, Contractor acknowledges that this fee has not been included in the bid amount for this project.
- **9.3** The Contractor awarded the contract is required to post a Public Works Bond with the Oregon Contractors Construction Board (OCCB) unless exempt prior to start of work on the project.
- 9.4 Subcontractors awarded the contract are required to post a Public Works Bond with the Oregon Contractors Construction Board (OCCB) unless exempt prior to start of work on the project.

10.0 OWNERS RESPONSIBILITIES UNDER THE CONTRACT

The City will assign a project manager who will be the contractor's sole source of contact for decision processing for the project. The project manager will arrange for and coordinate other City resources necessary to construct the project with the exception of planning, permitting, and other regulatory agencies of the City. The project manager will be responsible for assuring that requests for clarifications and change proposals are processed in a timely manner. The project manager will provide the contractor with such drawings and specifications as needed to complete work.

11.0 REPORTING REQUIREMENTS

Contractor shall cooperate with the City with respect to its reporting requirements for financial and programmatic data resulting from the expenditure of City funds, as follows:

- 11.1 Contractor shall provide an estimate of the number and types of jobs created or retained by the project at the beginning of the project. If Contractor uses vendors in the project, include direct jobs created or retained by the vendors.
- **11.2** Contractor shall report actual performance results consisting of the number and types of jobs created and/or retained at final completion of the project.
- **11.3** Contractor must include these requirements in any subcontracts awarded for the project.
- 11.4 Reports shall be submitted upon request. The Contractor's timely, complete, accurate, and truthful compliance with the reporting obligations constitutes a material element of the Contractor's performance of this contract. Failure to submit these reports shall be deemed noncompliance, and the City may withhold any amounts otherwise due to the Contractor under this contract until the Contractor has submitted the reports.

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12.0 PROTEST OF CONTRACTOR SELECTION

Bidders are permitted to challenge the City's decision to award a contract. Portland City Code 5.34.700 thru 5.34.740 describes in detail the protest and appeal procedures when a bid process is officially protested.

For each formal bid project not exempted from the competitive bidding procedures of ORS 279C.410 Procurement Services shall post a Notice of Intent to Award upon determination of the lowest responsive and responsible bidder. The Notice of Intent to Award shall be posted in the same manner of the solicitation.

A Bidder who is adversely affected or aggrieved by the award of contract shall have seven (7) calendar days from the issuance of the Notice of Intent to Award to file a bid protest. The protest must be filed in writing to the Chief Procurement Officer and must specify the grounds upon which the protest is based. To be valid, a protest must come from an actual Bidder for the contract who claims to be the rightful awardee. A protest is not valid if filed by a Bidder who cannot show that it would be awarded the contract if its protest were accepted.

The Chief Procurement Officer will review the protest and issue a written decision. If the Bidder disagrees with the decision of the Chief Procurement Officer, the Chief Procurement Officer may refer to the Contract Board of Appeals or City Council as he/she determines. The request for appeal must be filed with the Chief Procurement Officer within seven (7) calendar days from the date of the written decision. The request must describe the specific reason for the appeal request, and is limited to those matters that were raised in the original protest letter.

Instructions to Bidders Bid Number: 00001456

Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

Bid Forms

CITY OF PORTLAND, OREGON BID FORM PORTLAND BUREAU OF TRANSPORTATION

TO THE CHIEF PROCUREMENT OFFICER:

The undersigned, having full knowledge of the quality of the material and labor to be performed, hereby proposes to perform all labor and furnish all materials necessary for the **Columbia Blvd: Bank St to Macrum Ave, N Phase II** for the unit prices set opposite the different items of the material to be furnished and the work to be done as herein below stated:

BID NUMBER 00001456

No	ITEMS OF WORK AND	SPEC	ESTIMATED	LINUT	LINIT PRICE	TOTAL AMOUNT
NO.	MATERIALS	REFERENCE	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0210	1	LS		
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	0225	1	LS		
3	TEMPORARY SIGNS	0225	200	SQFT		
4	TEMPORARY BARRICADES, TYPE II	0225	6	EACH		
5	TEMPORARY BARRICADES, TYPE III	0225	6	EACH		
6	TEMPORARY IMPACT ATTENUATOR	0225	2	EACH		
7	PEDESTRIAN CHANNELIZING DEVICES	0225	250	FOOT		
8	PEDESTRIAN CHANNELIZING DEVICES - WATER FILLED	0225	250	FOOT		
9	TEMPORARY PLASTIC DRUMS	0225	50	EACH		
10	SEQUENTIAL ARROW SIGNS	0225	2	EACH		
11	PORTABLE CHANGEABLE MESSAGE SIGNS	0225	2	EACH		
12	FLAGGERS	0225	20	HOUR		
13	TRAFFIC CONTROL SUPERVISOR	0225	64	HOUR		
14	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	0270	155	FOOT		
15	EROSION CONTROL	0280	1	LS		

Bid Number: 00001456 Project: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

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16	INLET PROTECTION	0280	7	EACH	
17	POLLUTION CONTROL PLAN	0290	1	LS	
18	REMOVAL OF STRUCTURES & OBSTRUCTIONS	0310	1	LS	
19	CLEARING AND GRUBBING	0320	1	LS	
20	GENERAL EXCAVATION	0330	104	CUYD	
21	10 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	0445	5	FOOT	
22	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	0445	9	FOOT	
23	CONCRETE INLETS, TYPE G-2	0470	1	EACH	
24	ADJUSTING INLETS	0490	4	EACH	
25	MINOR ADJUSTMENT OF MANHOLES	0490	3	EACH	
26	17 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0748	295	SQYD	
27	CONCRETE CURBS, STANDARD CURB	0759	71	FOOT	
28	CONCRETE ISLANDS	0759	1827	SQFT	
29	CONCRETE WALKS	0759	905	SQFT	
30	MONOLITHIC CURB AND SIDEWALKS	0759	1952	SQFT	
31	36" SURFACE MOUNTED TUBULAR MARKERS	0856	12	EACH	
32	CURB MARKINGS - PAINT	0861	40	FOOT	
33	THERMOPLASTIC, NON- PROFILE, 120 MILS, EXTRUDED	0865	850	FOOT	
34	PAVEMENT LEGEND, TYPE B- HS ARROWS	0867	1	EACH	
35	PAVEMENT BAR, TYPE B-HS	0867	30	SQFT	
36	REMOVE & REINSTALL EXISTING SIGNS	0905	1	LS	

Bid Number: 00001456 Project: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

37 SIGN SUPPORT FOOTINGS, 0920 1 LS 38 PIPE SIGN SUPPORTS 0930 1 LS 39 TYPE "W2" SIGNS IN PLACE 0940 16 SQFT 40 POLE FOUNDATIONS 0970 1 LS 41 LIGHTING POLES, FIXED 0970 1 LS 42 LIGHTING POLE ARMS 0970 1 LS 43 LUMINAIRES, LAMPS AND 0970 1 LS 44 SWITCHING, CONDUIT, AND 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING FENCE 1050 30 FOOT 5 FOOT 1050							
39 TYPE "W2" SIGNS IN PLACE 0940 16 SQFT 40 POLE FOUNDATIONS 0970 1 LS 41 LIGHTING POLES, FIXED BASE 0970 1 LS 42 LIGHTING POLE ARMS 0970 1 LS 43 LUMINAIRES, LAMPS AND BALLASTS 0970 1 LS 44 SWITCHING, CONDUIT, AND WIRING 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 EOOT	37	The state of the s	0920	1	LS		
40 POLE FOUNDATIONS 0970 1 LS 41 LIGHTING POLES, FIXED BASE 0970 1 LS 42 LIGHTING POLE ARMS 0970 1 LS 43 LUMINAIRES, LAMPS AND BALLASTS 0970 1 LS 44 SWITCHING, CONDUIT, AND WIRING 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 FOOT	38	PIPE SIGN SUPPORTS	0930	1	LS		
41 LIGHTING POLES, FIXED BASE 0970 1 LS 42 LIGHTING POLE ARMS 0970 1 LS 43 LUMINAIRES, LAMPS AND BALLASTS 0970 1 LS 44 SWITCHING, CONDUIT, AND WIRING 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 FOOT	39	TYPE "W2" SIGNS IN PLACE	0940	16	SQFT		
41 BASE 0970 1 LS 42 LIGHTING POLE ARMS 0970 1 LS 43 LUMINAIRES, LAMPS AND BALLASTS 0970 1 LS 44 SWITCHING, CONDUIT, AND WIRING 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 FOOT	40	POLE FOUNDATIONS	0970	1	LS		
43 LUMINAIRES, LAMPS AND BALLASTS 0970 1 LS 44 SWITCHING, CONDUIT, AND WIRING 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 EOOT	41		0970	1	LS		
43 BALLASTS	42	LIGHTING POLE ARMS	0970	1	LS		
44 WIRING 0970 1 LS 45 INTERCONNECT SYSTEM 0990 1 LS 46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 FOOT	43	I	0970	1	LS		
46 LAWN SEEDING 1030 83 SQ YD 47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 FOOT	44	1 · · · · · · · · · · · · · · · · · · ·	0970	1	LS		
47 TOPSOIL 1040 14 CUYD 48 REMOVING AND REBUILDING 1050 30 FOOT	45	INTERCONNECT SYSTEM	0990	1	LS		
REMOVING AND REBUILDING 1050 30 FOOT	46	LAWN SEEDING	1030	83	SQ YD		
/ 8	47	TOPSOIL	1040	14	CUYD		
	48		1050	30	FOOT		
TOTAL BID \$						TOTAL BID	\$

Bid Number: 00001456 Project: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

ADDENDA

The undersigned acknowledges receipt of all addenda issued to this solicitation.

PREVAILING WAGES

Bidder acknowledges the requirements of this solicitation in regards to the State of Oregon Prevailing Wage requirements or the federal prevailing wage requirements or both as required by ORS 279C.838 or 279C.840 or 40 USC § 276A will be complied with. (HB 2041, § 25)

Effective January 1, 2008, the City of Portland is required to pay the Prevailing Wage Rate (PWR) fee of 1/10 of 1% of the total contract price directly to the Oregon Bureau of Labor and Industries (Ref. HB 2021). Therefore, by signing this form Contractor acknowledges that this fee has not been included in the bid amount for this project.

RESIDENT BIDDER All bidders must state whether they are an Oregon resident bidder or a non-resident bidder. As defined in ORS 279A.120, a resident bidder is one who has paid unemployment taxes or income taxes in the state during the 12 calendar months immediately preceding bid submission, has a business address in Oregon, and has stated in their bid to be a resident bidder. Check one: Bidder is () a resident bidder or is () a non-resident bidder. If a nonresident bidder, the bidder certifies residency of (insert name of state where the bidder is a resident): **ASSIGNMENT OF ANTI-TRUST RIGHTS** The undersigned acknowledges if they enter into a contract they will be assigning to the Owner any Claim for relief that the Contractor has or may have in the future by reason of violation of 15 USC SS 1-15 or ORS 646,725 or ORS 646,730. Name of Firm: Street Address: City of: _____ State ____ Zip ____ (Original Signature) (Title) Name: (Print) Phone Fax Email EEO EBO \square (see instructions to bidders 3.3 and 3.4) Employer Identification Number SIC or Type of Business Construction Contractors Board Registration Number City of Portland Business Tax Registration Number Firm is a Corporation Partnership Proprietorship If Incorporated, Registered in the State of: If a Partnership, list partners:

Bid Number: 00001456 Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

If a Proprietorship, name of principal:

Bid Bond

BID BOND

KNOW ALL PEOPLE BY THESE PRESENTS that v	ve,	, as principal, and		
, a corporation organized and existing unde	r the laws of the State of	and duly authorized to transact a surety		
business in the State of Oregon, as surety, are held	and firmly bound unto the CITY	OF PORTLAND, a municipal corporation	n of the State	
of Oregon, in the penal sum of		Dollars (\$	_) lawful	
money of the United States of America, for the payr	ment whereof well and duly to be	made, we and each of us, jointly and s	everally bind	
ourselves, our heirs, executors, administrators, succe	essors and assigns, firmly by thes	e presents.		
THE CONDITIONS OF THIS OBLIGATION ARE	SUCH that whereas the Princip	al has submitted, or is about to submi	t, a proposal	
irrevocable for the period specified in the proposal to	the Obligee on a contract for		·	
Obligee within the irrevocable period and if awarded perform said work and furnish said labor, equipment within the time specified, then the amount herein supportland.	nt and/or material, and to furnish	performance and labor material bonds	s as required	
SIGNED, SEALED, AND DATED THIS	day of	, 20	-	
	Prin	cipal	-	
	Add	ress	-	
	BY		-	
	Sigr	ature		
	Prin	t Name and Title	-	
	Sure	oty	-	
	BYAtto	rney in Fact	-	

CORPORATE SEAL (SURETY)

NOTE

If Principal is operating under an assumed business name, there must also be set forth in the first paragraph of the bond, the names of all partners or the individual owning the business, and the bond must be executed by one of them.

If the Principal is a corporation, the bond must be executed by one of the officers authorized to execute bonds, showing his/her official title and the seal of the corporation.

The bond must be executed by an attorney-in-fact for the surety company, a current copy of the Power of Attorney must be attached which lists the attorney-in-fact signing the Bid Bond.

Bid Number: 00001456

Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project

Bid Bond Form – Revised Jan 2018

Non-Collusion Affidavit

NON-COLLUSION AFFIDAVIT

STA	ATE OF_	Oregon		Contract Bid N	o	00001456	
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beh	alf of my	firm, and	its owners, directors, and of	ficers. I am the person respon	sible in	my firm for	the price(s)
and	the amo	unt of this	bid.				
l sta	ate that:						
	commun		agreement with any other co	e been arrived at independent ontractor, bidder, or potential bid			
	amount o	of this bid,	have been disclosed to any	oid, and neither the approximate other firm or person who is a bedisclosed before bid opening.	•	` '	
	contract,	or to subr		o induce any firm or person to , or to submit any intentionally h			
5.	(Name o employed (4) years involving	ent from, a Irc of Firm) O es are not s been con	ny firm or person to submit on Horse Excavation, xbow Construction currently under investigation victed or found liable for ary or collusion with respect t	nd not pursuant to any agree a complementary or other nonce LLC dba, its affiliates, subsidian by any governmental agency by act prohibited by State or Feb bidding on any public contraction, LLC dba	ompetit aries, o and ha ederal la	ive bid. officers, dire ove not in the aw in any ju	ctors and e last four risdiction,
repr awa affic	resentation arding the davit is a	ons are ma e contract(nd shall be ating to the	aterial and important, and was) for which this bid is sub treated as fraudulent conc e submission of bids for this		F POR hat any	TLAND, OF misstateme	REGON in ent in this
(Sig	gnature)						
Sub	oscribed a	and sworn	to before me this	day of		, 20	
				NOT	TARY F	PUBLIC	_
Му	commiss	ion expires	S	<u>-</u>			

Bid Number: 00001456
Project Name: Columbia Blvd: Bank St to Macrum Ave, N Phase II Project Non Collusion Affidavit – Revised April 24, 2007

Assignment of Anti-Trust Rights

ASSIGNMENT OF ANTI TRUST RIGHTS

By entering into a contract, the Contractor, for consideration paid to the Contractor under the contract, does irrevocably assign to the City of Portland any claim for relief or cause of action which the Contractor now has or which may accrue to the Contractor in the future, including, at the City's option, the right to control any such litigation on such claim for relief or cause of action, by reason of violation of 15 USC SS 1-15 or ORS 646.725 or ORS 646.730, in connection with any goods or services provided to the contractor by any person, which goods or services are used, in whole or in part, for the purpose of carrying out the Contractor's obligation under this contract.

In the event the Contractor hires subcontractors to perform any of the Contractor's duties under the contract, the Contractor shall require the subcontractor to irrevocably assign to the City of Portland, as a third party beneficiary any right, title or interest that has accrued or may accrue to the subcontractor by reasons of any violation of 15 USC SS 1-15, ORS 646.725 or ORS 646.730, including, at the City's option, the rights to control of any litigation arising there under, in connection with any goods or services provided to the subcontractor by any person, in whole or in part, for the purpose of carrying out the subcontractor's obligations as agreed to by the Contractor in pursuance of the completion of the contract.

In connection with this assignment, it is an express obligation of the Contractor that it will take no action which will in any way diminish the value of the rights conveyed or assigned hereunder to the City of Portland. It is an express obligation of the Contractor to advise the City Auditor or the Office of the City Attorney of Portland, Oregon:

- 1. In advance, of its intention to commence any action on its own behalf regarding such claims for relief or causes of action;
- 2. Immediately, upon becoming aware of the fact that an action has been commenced on its own behalf by some other person or persons, of the dependency of such action; and
- 3. The date on which it notified the obligor(s) of any such claims for relief or causes of action of the fact of its assignment to the City of Portland.

Furthermore, it is understood or agreed that in the event that any payment under such claim is made to the Contractor, it shall promptly pay over to the City of Portland its proportionate share thereof, if any, assigned to the state hereunder.

State of Oregon First - Tier Subcontractor Disclosure Requirements

STATE OF OREGON FIRST-TIER SUBCONTRACTOR DISCLOSURE REQUIREMENTS

(Applies to public improvement projects with an estimated value of more than \$100,000)

STATE OF OREGON FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM TO BE SUBMITTED BY ALL BIDDERS NOT LATER THAN 4:00 P.M. THE DAY THE BID IS DUE

In 2003, the Oregon Legislature revised ORS 279C.370, which provides, in part:

"(1)(a) Within two working hours after the date and time of the deadline when bids are due to a contracting agency for a public improvement contract, a bidder shall submit to the contracting agency a disclosure of the first-tier subcontractors that:

- (A) Will be furnishing labor or will be furnishing labor and materials in connection with the public improvement contract; and
- (B) Will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater, or \$350,000 regardless of the percentage of the total project bid."

The Bidder must disclose the following information about their first-tier subcontracts either in its Bid submission or within two (2) working hours after the date and time of the deadline when bids are due:

- 1) the subcontractor's name,
- 2) the dollar value of the subcontract, and
- 3) the category of work that the subcontractor will be performing.

If the bidder will not be using any subcontractors that are subject to the above disclosure requirements, the bidder is required to indicate "**NONE**" on the accompanying form.

Failure to submit this form by the disclosure deadline will result in a non-responsive bid. A non-responsive bid will not be considered for award.

It is the Bidder's responsibility to determine all the documents that must be submitted to the City. For purposes of this document, "submitted" means "in the physical possession of Procurement Services."

Note to Contractors who are not the low bidder:

If the apparent low bidder is disqualified or otherwise not awarded the contract and the next low bidder failed to submit the first-tier disclosure form within two (2) hours after the date and time of the deadline when bids were due, that bidder will be ineligible to receive award of the contract.

FIRST-TIER SUBCONTRACTOR DISCLOSURE



PROJECT NAME: Columbia Blvd: B	<u>ank St to Macrum Ave, N Phase II Projec</u>
BID #: <u>00001456</u>	
BID CLOSING: Date:	Time:

This form must be submitted at the location specified in the Invitation to Bid on the advertised bid closing date and within two working hours after the advertised bid closing time.

List below the name of each subcontractor that will be furnishing labor or will be furnishing labor and materials and that is required to be disclosed, the category of work that the subcontractor will be performing and the dollar value of the subcontract. Enter "NONE" if there are no subcontractors that need to be disclosed. (ATTACH ADDITIONAL SHEETS IF NEEDED.)

NAME	DOLLAR VALUE	CATEGORY OF WORK
(1)	\$	
(2)	\$	
(3)	\$	
(4)	\$	
(5)	\$	
(6)	\$	
(7)	\$	
(8)	\$	
(9)	\$	

Failure to submit this form by the disclosure deadline will result in a non-responsive bid. A non-responsive bid will not be considered for award.

Form submitted by (bidder name):	
Contact name:	Phone no : ()

ORS 279C.370 First-tier subcontractor disclosure. (1)(a) Within two working hours after the date and time of the deadline when bids are due to a contracting agency for a public improvement contract, a bidder shall submit to the contracting agency a disclosure of the first-tier subcontractors that:

(A) Will be furnishing labor or will be furnishing labor and materials in connection with the public improvement contract; and

- (B) Will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater, or \$350,000 regardless of the percentage of the total project bid.
 - (b) For each contract to which this subsection applies, the contracting agency shall designate a deadline for submission of bids that has a date on a Tuesday, Wednesday or Thursday and a time between 2 p.m. and 5 p.m., except that this paragraph does not apply to public contracts for maintenance or construction of highways, bridges or other transportation facilities.
 - (c) This subsection applies only to public improvement contracts ("projects") with a value, estimated by the contracting agency, of more than \$100,000
 - (d) This subsection does not apply to public improvement contracts that have been exempted from competitive bidding requirements under ORS 279C.335 (2).
- (2) The disclosure of first-tier subcontractors under subsection (1) of this section must include the name of each subcontractor, the category of work that each subcontractor will perform and the dollar value of each subcontract. The information shall be disclosed in substantially the following [above] form:
- (3) A contracting agency shall accept the subcontractor disclosure. The contracting agency shall consider the bid of any contractor that does not submit a subcontractor disclosure to the contracting agency to be a non-responsive bid and may not award the contract to the contractor. A contracting agency is not required to determine the accuracy or the completeness of the subcontractor disclosure.
- (4) After the bids are opened, the subcontractor disclosures must be made available for public inspection.
- (5) A contractor may substitute a first-tier subcontractor under the provisions of ORS 279C.585.
- (6) A subcontractor may file a complaint under ORS 279C.590 based on the disclosure requirements of subsection (1) of this section.

Subcontractor Equity Program

CITY OF PORTLAND SUBCONTRACTOR EQUITY PROGRAM

I. PROGRAM DESCRIPTION

The Portland Plan as adopted by Resolution 36918 was developed to make Portland a prosperous, educated, healthy and equitable city, recognizing that advancing equity must be at the core of our plans for the future. The Portland Plan includes a frame work for equity to guide plan implementation and improve City operational and business practices, support actions that promote accountability, close disparity gaps and increase community engagement. It is the intent of the City Council to achieve equity in City government policies, procedures and practices. Equity in contracting and workforce opportunities in the City are essential to achieving the vision of the Portland Plan.

As such, the City has a compelling governmental interest to ensure that its projects and resources provide employment opportunities for firms certified by the Oregon Certification Office for Business Inclusion and Diversity (COBID) as: Disadvantaged (DBE), Minority (MBE), Women (WBE), Emerging Small Business (ESB), or Service-Disabled Veteran Owned Business Enterprises (SDVBE) (collectively, "COBID firms") in order to address historic underutilization. Therefore, the City's Subcontractor Equity Program (the "Subcontractor Equity Program", "SEP", or "Program") applies to all City-Owned Projects and all City-Sponsored Projects as described below. On projects subject to the Program, the entity responsible for subcontractor selection (the "Contractor") shall be obligated to comply with the Program for all subcontracting opportunities (regardless of value).

This project is subject to compliance reporting requirements. The prime contractor and all subcontractors are required to provide all contract compliance-related data electronically in the Contract Compliance Reporting System (CCRS). The prime contractor and all subcontractors are responsible for responding to any instructions or requests for information, and should regularly check the CCRS to manage contact information and contract records. The prime contractor is responsible for ensuring all subcontractors have completed all requested items and that their contact information is accurate and up-to-date. The City may require additional information related to the contract to be provided electronically through the system at any time before, during, or after contract award.

Information related to contractor access of the system will be provided to a designated point of contact upon award of the contract. The CCRS is web-based and can be accessed at the following Internet address: https://portlandoregon.diversitycompliance.com/.

<u>City-Owned Projects</u> means projects that have an engineer's estimate of \$150,000 or more.

<u>City Resources</u> means funds provided by the City (regardless of the source) in the form of loans, grants or payments. City Resources also include the difference between the purchase price paid by a private entity and the fair market value of such property.

<u>City – Sponsored Projects</u> means contracts that provide for the disposition of the city-owned property and/or provide City Resources that result in a privately-owned project that has \$150,000 or more of Hard Construction Costs.

<u>Utilization Plan (UP)</u> includes all subcontractors and material suppliers that have been engaged to perform work on the project.

<u>COBID firms</u> includes firms certified by the State of Oregon Certification Office for Business Inclusion and Diversity as either: Disadvantaged (DBE), Minority (MBE), Women (WBE), Emerging Small Business (ESB) or Service-Disabled Veteran Owned Business Enterprises (SDVBE).

II. ASPIRATIONAL GOALS

The Program has an aspirational goal of twenty percent (20%) of Hard Construction Costs for subcontract utilization of COBID firms on projects subject to the Program (the "Aspirational Goal"). The City encourages contractors to attain 14 of the 20% of the Aspirational Goal by utilizing D/M/WBE firms. The City encourages Contractors to diversify their subcontractor utilization of COBID firms from all available divisions of work.

A directory of COBID firms can be found by visiting the State of Oregon's COBID website at: https://oregon4biz.diversitysoftware.com/.

III. SUBMISSION OF REQUIRED DOCUMENTATION FOR CITY-OWNED PROJECTS SUBJECT TO COMPETITIVE BIDDING

- A. UTILIZATION PLAN (the "UP") DUE from the apparent low bidder WITHIN 24 HOURS OF NOTIFICATION BY CITY OF PORTLAND. A completed UP is required to be submitted electronically for the Subcontractor Equity Program. On-screen instructions in the CCRS will guide you through the UP submittal process. The UP must list ALL Subcontractors to be used on the project, their corresponding type of work, their subcontract amount, and certification status, if applicable, regardless of the dollar amount. If the project Bid Form includes Owner-Directed items of work and materials, these items shall not be used towards meeting the Aspirational Goal and shall not be included in the UP. If the project Bid Form includes bid alternates for additional work, materials and/or methods of construction bidders shall list ALL first-tier subcontractors that will be used if the City awards the bid alternate(s). Bidders also must identify all types of work that will be self-performed. After submission of the UP, you may review your Dashboard for status updates.
- B. FORM 2 COBID firms BIDS RECEIVED LOG: DUE UPON CITY REQUEST FROM THE APPARENT LOW BIDDER IF ASPIRATIONAL GOALS ARE NOT MET
 - 1. If the CCRS shows that the Aspirational Goal has not been met, the apparent low bidder must submit Form 2 and additional documentation as required. The UP will become a part of the resulting contract for the project. Failure by the apparent low bidder to complete and submit the UP in the time specified, may result in the bid being determined non-responsive and the bid will be rejected. To submit Form 2 and additional documentation, click Attach Waiver Files. When finished click Save Waiver Details before leaving the plan or attempting to complete another step.
 - 2. Bidders must have contacted COBID firms in writing to advise them of potential subcontracting opportunities and ensure that they have an equal opportunity to compete for work by providing all subcontractors the same information and informing them of the date and time that sub-bids are due.
 - Bidders must have obtained a minimum of three (3) written bids from COBID firms that specialize in the type of work that will be subcontracted. Failure to obtain three (3) written bids from COBID firms may result in bid rejection. Bidders shall submit additional information and provide clarification upon request.
 - 4. If for any reason the apparent low bidder is not awarded the contract or its bid is rejected,

the next apparent low bidder will be required to submit their UP and upon review a determination will be made as to the need for a Form 2 submittal.

IV. SUBMISSION OF REQUIRED DOCUMENTATION FOR CITY-SPONSORED PROJECTS NOT SUBJECT TO COMPETITIVE BIDDING

A. UTILIZATION PLAN (UP) - DUE from the apparent low bidder WITHIN 24 HOURS OF NOTIFICATION BY CITY OF PORTLAND. A completed UP is required to be submitted electronically for the Subcontractor Equity Program. On-screen instructions in the CCRS will guide you through the UP submittal process. The UP must list ALL Subcontractors to be used on the project, their corresponding type of work, their subcontract amount, and certification status, if applicable, regardless of the dollar amount. Bidders also must identify all types of work that will be self-performed. After submission of the UP, you may review your Dashboard for status updates.

B. FORM 2 – COBID firms BIDS RECEIVED LOG: DUE UPON REQUEST FROM APPARENT LOW BIDDER IF ASPIRATIONAL GOALS ARE NOT MET

- a. If the CCRS shows that the Aspirational Goal has not been met, the apparent low bidder must submit Form 2 and additional documentation as required. The UP will become a part of the resulting contract for the project. Failure by the apparent low bidder to complete and submit the UP in the time specified, may result in the bid being non-responsive and rejected. To submit Form 2 and additional documentation, click Attach Waiver Files. When finished click Save Waiver Details before leaving the plan or attempting to complete another step.
- b. Bidders must have contacted COBID firms in writing to advise them of potential subcontracting opportunities and ensure that they have an equal opportunity to compete for work by providing all subcontractors the same information and informing them of the date and time that sub-bids are due.
- c. Bidders must have obtained a minimum of three (3) written bids from COBID firms that specialize in the type of work that will be subcontracted. Failure to obtain three (3) written bids from COBID firms may result in bid rejection. Bidders shall submit additional information and provide clarification upon request.
- d. If for any reason the apparent low bidder is not awarded the contract or its bid is rejected, the next apparent low bidder will be required to submit their UP and upon review a determination will be made as to the need of a Form 2 submittal.

V. REQUIREMENTS FOR ALL PROJECTS SUBJECT TO THE PROGRAM

A. MONTHLY SUBMITTAL OF SUBCONTRACTOR PAYMENTS: DUE BY THE 15^{th OF} EACH MONTH

The Contractor shall submit subcontractor payments via the CCRS by the 15th of each month once work has commenced and shall ensure that subcontractors are confirming payments reported to them in the system. If a subcontractor fails to confirm payment by the end of the month, the City will assume the subcontractor has been paid, as reported, and will confirm payment on the subcontractor's behalf. Subprime firms are also responsible for reporting participation of lower tier subcontractors.

If any changes occur to the subcontract value during the reporting period, the contractor shall contact the Contract Compliance Specialist no later than the 15th of each month.

B. SUBCONTRACTOR CHANGES AFTER BID SUBMISSION

- 1. If any subcontractor is added or replaced after the bid is submitted or the contract is awarded, the selected Contractor shall make good faith efforts to solicit bids from COBID firms for the work to be performed.
- 2. The Contractor must contact COBID firms in writing to advise them of potential subcontracting opportunities and ensure that they have an equal opportunity to compete for work by providing all subcontractors the same information and informing them of the date and time that sub-bids are due.
- 3. The Contractor must obtain a minimum of three (3) written bids from COBID firms that specialize in the type of work that will be subcontracted. The Contractor shall submit additional information and provide clarification upon request.
- 4. All subcontractor changes/requests shall be made in the CCRS and will include supporting documentation of the foregoing prior to making any changes. A tutorial for adding subcontractors can be found here: https://portlandoregon.diversitycompliance.com/Help/Tutorial/TutorialView.asp? XID=5666&TFL=RequestingASub.
- 5. The Contractor shall not add, delete, or replace any subcontractor without prior written consent of the Compliance Manager.

C. REVIEW OF RECORDS

In the event that the City reasonably believes that a violation of the requirements of the Subcontractor Equity Program has occurred, the City may review the records and pertinent documentation of the Contractor, as well as any subcontractor, to determine whether a violation has occurred.

D. PENALTIES FOR NONCOMPLIANCE

A Contractor's failure to comply with the Subcontractor Equity Program may result in a breach of contract, possible disqualification of the Contractor's ability to bid on or receive future contracts, including as provided under Portland City Code 5.34.530, and/or the assessment of penalties. In the event of a breach of contract, in addition to any other remedies that the City may have, the City may take any or all of the following actions:

- The City may withhold all or part of any progress payment(s) until the Contractor has remedied the breach of contract. In the event that progress payments are withheld, the Contractor shall not be entitled to interest on such payments. If a subcontractor has not complied with the Subcontractor Equity Program, the City may elect to withhold only such subcontractor's portion of the progress payment.
- 2. The City has an expectation that if a Contractor is awarded a contract and identifies that it intends to subcontract with COBID firms, then the Contractor will use such COBID firms. Therefore, the contract will include the following provisions:

- a. The Contractor acknowledges and agrees that it would be difficult, if not impossible, to assess the actual damage incurred by the City for the Contractor's failure to comply with the Subcontractor Equity Program. If the Contractor fails to comply with the provisions of Section 5.B, the Contractor agrees to pay the sum of \$2,000 for each violation. These penalties are independent of any liquidated damages that may be assessed under other provisions of the contract.
- b. If the Contractor fails to utilize any COBID firm as identified in the UP, or to utilize any COBID firm within twenty (20%) of the subcontract amount identified in the UP, the Contractor shall pay \$2,000 for each violation.
- c. Exceptions to this requirement are for approved change orders, reductions in scope of work as requested by the City, failure of a COBID firm to complete work or having breached the subcontract, and substitution requests approved by the City.

VI. ATTACHMENTS:

COBID firm Bids Received Log (Form 2)

All forms are available on the Procurement Services website at: https://www.portlandoregon.gov/brfs/42253

Bidder Name: Project Name:

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Name of COBID Firm	Certification Type (DBE, MBE, WBE, ESB, SDVBE)	Division of Work	Date of Written Contact	Date of Phone Contact	Bid Amount	Reason Not Used (Price, Scope, or Other. If Other, explain in Notes)	Notes
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Workforce Training & Hiring Program

WORKFORCE TRAINING & HIRING PROGRAM Contractor Checklist

This program applies to contracts of \$200,000 or more and subcontracts of \$100,000 or more

The City's Workforce Training and Hiring Program (the "Program") applies to all City-Owned Projects and all City-Sponsored Projects as described below.

City-Owned Projects means projects that have contracts of \$200,000 or more.

<u>City Resources</u> means funds provided by the City (regardless of the source) in the form of loans, grants, or payments. City resources also include the difference between the purchase price paid by a private entity and the fair market value of such property.

<u>City-Sponsored Projects</u> means contracts that provide for the disposition of City-owned property and/or provide City Resources that result in a privately-owned project that has \$200,000 or more of Hard Construction Costs.

It is the Contractor's responsibility to read and fully understand this section of the bid specifications and to comply with all provisions of the program, regardless of whether they appear on this checklist. *Contractors shall include in their bid all costs associated with complying with the Workforce Program.* An 18% aspirational goal for minorities, and 9% for females has been set on City-Owned/Sponsored construction projects for apprentices and journey level workers.

The prime contractor and all applicable subcontractors are required to provide all workforce utilization related data electronically in LCP Tracker. The prime contractor is responsible for ensuring all subcontractors have completed all requested items.

Information related to contractor access of the system will be provided to a designated point of contact upon award of the contract. LCP Tracker is web-based and can be accessed at the following Internet address: www.lcptracker.net.

CHECKLIST

For Contracts of \$200,000 or More and Subcontracts of \$100,000 or More, Contractors Must:

- 1. Submit a Workforce Plan (Exhibit 2) to City prior to submittal of first payroll report, or as otherwise designated. A copy of the Workforce Plan should be downloaded, filled out and then uploaded into LCP Tracker. The Plan should detail your approach and strategies to achieve the targeted workforce goals established by the City.
- 2. Before starting work on this project confirm registration as a Training Agent with the Bureau of Labor & Industries (BOLI), Apprenticeship & Training Division. Not a BOLI registered training agent? Contact BOLI (971-673-0760) or City of Portland (503-823-5047) for further information.
- 3. Ensure that a minimum of 20% of labor hours in each apprenticeable trade are worked by state registered apprentices. Contractors shall fulfill the 20% apprenticeship requirement without exceeding the apprentice ratios approved by the applicable apprenticeship program, if working in excess of 300 hours in any given trade.
- 4. Strive in good faith to meet the diversity goals of employing women and minorities (both journey and apprentice level workers).
- 5. Make all reasonable and necessary efforts to employ a workforce that reflects the diversity of the City of

Portland, including recruitment of a diverse workforce through the unions, the apprenticeship programs and other community resources, as described herein.

- 6. Maintain written documentation of all requests for workers from the unions, apprenticeship programs, and community organizations.
- 7. When an apprentice is hired: Notify the City's Contract Compliance Specialist assigned to the project.
- 8. Submit weekly certified payroll reports via the LCP Tracker system no later than the 5th of each month.

For additional information or questions, please contact the Contract Compliance Specialist assigned to the project or the City's Workforce Program Coordinator at 503-823-6888.

WORKFORCE TRAINING AND HIRING PROGRAM

I. PURPOSE

A. <u>General Program Description</u>

The Portland City Council has directed that all Bureaus and Departments maximize apprenticeship and employment opportunities for minorities, women and economically disadvantaged workers in the construction trades (ref. City Ordinance No. 167374, Feb. 16, 1994 and County Ordinance No. 861, July 11, 1996). Their goals include a) ensuring that the City does business with contractors whose workforce reflects the diversity of the workforce found in the city of Portland and Multnomah County, and b) that their contracting dollars provide fair and equal opportunities to the jurisdictions' diverse populations.

The Workforce Training & Hiring Program ("Workforce Program") is administered for the City of Portland, by Procurement Services. The Workforce Program applies to all projects estimated at \$200,000 or more and to each subcontractor having a subcontract of \$100,000 or more on the project. The Contractor and all subcontractors are encouraged to fulfill the program requirements even if their contracts are less than these amounts.

Contractors shall make reasonable efforts to ensure that their workforce reflects the diversity of the city of Portland and Multnomah County.

One way contractors can make reasonable efforts to ensure that their workforce is diverse is to recruit, train and employ minorities and women whenever possible. This portion of the Contract establishes requirements regarding that recruitment, training and employment.

For purposes of the Workforce Program specifications, the following definitions shall apply:

The "Contract" shall mean the contract awarded as a result of these bid specifications.

"Contractor" shall mean the Prime Contractor to whom a Contract is awarded, and any subcontractors with subcontracts of \$100,000 or more.

The term "minorities" shall include members of either sex who are African-Americans, Hispanic Americans, Asians or Pacific Islanders, Native Americans or Alaskan Native Americans.

"Owner" shall mean the government agency that awarded the Contract, or leveraged public involvement in the project through a loan or development agreement.

The "project" shall include all work performed pursuant to the Contract.

B. Organization of Program Requirements

The Workforce Program specifications are divided into several parts.

Section II - refers to the action the PRIME must take in order to be eligible for award of a contract.

Section III - lists the actions that must be taken by the PRIME to meet contractual obligations.

Section IV - refers to remedies available to the Owner if a PRIME fails to meet the requirements of the Workforce Program specifications.

Section V - refers to the Owner's ability to monitor compliance with the Workforce Program specification by

examination of PRIME and subcontractor records.

II. ACTIONS REQUIRED PRIOR TO BEGINNING THE PROJECT

The PRIME shall thoroughly read this Workforce Program specification and commit to perform all requirements described herein. The PRIME shall submit, before submittal of the first payroll report, a Workforce Plan, which demonstrates how the workforce on this project will fulfill all program requirements, including utilization of apprentices and targeted diversity goals. A copy of the Workforce Plan should be downloaded, filled out and then uploaded into LCP Tracker.

III. ACTIONS REQUIRED TO SATISFY CONTRACTUAL OBLIGATIONS

A. Make Reasonable Efforts to Have Diverse Workforce

A PRIME must make all necessary and reasonable efforts to have a workforce that reflects the diversity of the city of Portland and Multnomah County and is reasonably consistent with the availability of qualified women and minorities. This requirement is in addition to any other requirement of this portion of the Contract.

- 1. The PRIME and its subcontractors with subcontracts of \$100,000 or more, at any tier level, shall strive to achieve the workforce diversity goal of 18% minority and 9% female hours (including both journey level and apprentice workers) on the project.
- 2. Provide written documentation of its good faith recruitment efforts. Contractors must follow the process for hiring, requesting, recruiting or replacing workers described in Section III, subsection F. This process is considered by the City to be the minimum effort to recruit a diverse workforce.
- 3. The failure by a union with whom the Contractor has a collective bargaining agreement to refer either minorities or women shall not excuse the Contractor's obligations under this section of the specifications.

B. Ensure Compliance by Certain Subcontractors

- 1. The PRIME shall ensure that each subcontractor having a subcontract of \$100,000 or more, at any tier, shall comply with all of the provisions of the Workforce Program specifications. Contractors shall include in their price all costs associated with this requirement. No change order will be executed in order for the PRIME to comply with the Workforce Program specifications.
- 2. The PRIME shall provide a copy of this Workforce Program specification to all subcontractors with contracts of \$100,000 or more executed for the project.

C. Register as a Training Agent

The PRIME shall register with the Oregon Bureau of Labor and Industries (BOLI) as a Training Agent and ensure that all subcontractors who have contracts in the amount of \$100,000 or more are registered as Training Agents, prior to beginning work. Registration as a Training Agent in a specific trade is not required if there are no training opportunities in that trade on the project, based on the maximum ratio allowed by BOLI.

- 1. Training programs approved by and registered with BOLI may be used to fulfill training requirements under the Workforce Program specifications. Other training alternatives must be approved by the City's Workforce Program Coordinator.
- 2. Training is intended to be primarily on-the-job training in apprenticeable crafts, and does not include classifications such as flag person, timekeeper, office engineer, estimator, bookkeeper, clerk/typist, fire fighter, or secretary. Hours performed in crafts, which are not apprenticeable occupations are exempt from the training requirements.
- 3. Exemptions to the training requirements must be approved by the Owner in writing prior to starting work on the project. Written requests for exemptions related to the training requirements will be considered by the Owner only for extreme circumstances during the course of the project, and must be approved in writing. All requests to exempt all or any portion of the work on a project shall be submitted to the Owner 14 calendar days before any work on the project begins. All exemptions must be approved by the Workforce Program Coordinator. *Please note: Procedures for granting exemptions are subject to change. For the most recent updates, please visit:* https://www.portlandoregon.gov/citycode/?c=26882&a=408189.

D. <u>Submit Documentation</u>

The PRIME shall submit documentation regarding the following subjects to the Owner. The Owner's failure to object to documentation submitted by the PRIME or subcontractor shall not relieve them of the requirements of the Workforce Program specifications.

1. Training Agent Status

The PRIME and all required subcontractors listed on the Utilization Plan must submit proof to the Contract Compliance Specialist that they are registered Training Agents with BOLI <u>prior to beginning any work on the project</u>.

2. Subcontractor Workforce Information

A Workforce Plan, must also be submitted for each subcontractor with a contract of \$100,000 or more, prior to submission of their first payroll report, or within 5 calendar days after the execution of the applicable subcontract, whichever occurs first. A copy of the Workforce Plan should be downloaded, filled out and then uploaded into LCP Tracker. Work by a subcontractor shall not begin prior to submission of such documentation.

3. Prime and Subcontractor Reporting After Work Begins

Weekly Certified Payroll Reports must be submitted by the PRIME and any subcontractor having a subcontract of \$100,000 or more, via LCP Tracker, no later than the 5th of each month and will be used to track attainment toward the City's apprentice requirement and diversity goals. All hours subject to prevailing wage rates on public projects, shall be reported.

E. Use of Apprentices

The PRIME shall:

1. Ensure that a minimum of 20% of labor hours in each apprenticeable trade performed on the project by the PRIME, and subcontractors with subcontracts of \$100,000 or more, are worked by state registered apprentices throughout the duration of the project. The PRIME and subcontractors shall fulfill the 20% apprenticeship requirement without exceeding the apprentice ratios approved by the applicable apprenticeship program, if working in excess of 300 hours in any given trade.

- 2. Pay all apprentices the wages required by any applicable collective bargaining contract or pursuant to state or federal law and regulations.
- 3. Not use workers previously employed at journey-level or those who have successfully completed a training course leading to journey-level status to satisfy the requirements of these provisions.
- 4. Notify the Contract Compliance Specialist when an apprentice is hired for this project.
- 5. Count apprentice hours as follows:
 - (a) Hours worked on the project by apprentices enrolled in state-approved apprenticeship programs. *If* the Contractor is unable to fulfill its 20% requirement, then the Contractor may also use methods (b) and (c) below;
 - (b) Hours worked on the project by apprentices who are required to be away from the job site for related training during the course of the project, but only if the apprentice is rehired by the same employer after completion of training; and
 - (c) Hours worked on the project by graduates of state-registered apprenticeship programs, provided that such hours are worked within the 12-month period following the apprentice's completion date.

F. Hiring, Requesting, Recruiting or Replacing Workers

Contractors must follow all of these steps when hiring, requesting, recruiting or replacing workers:

For Apprentices:

- 1. Using the Worker Request Form, contact the appropriate apprenticeship program or dispatch center to request apprentices who are enrolled in the apprenticeship program; and
- 2. Request female or minority apprentices from the union or open shop apprenticeship program if such an action will help remedy historical underutilization in the Contractor's workforce.
- 3. If the apprenticeship program is unable to supply an apprentice and if the program is open for applications or allows direct entry from the Oregon Employment Division, make reasonable and necessary efforts to recruit apprentice applicants from WorkSource at the Oregon Employment Department, and seek to enroll them into an apprenticeship program.

Worksource Oregon is Oregon's largest source for job ready applicants:

- Recruitment Services are local, statewide, and nationwide
- Computerized job match system matches applicants to job qualifications
- On-the-job training resources available to offset cost of new hires
- Go to: www.imatchskills.org or call 503-257-HIRE

For All Workers:

1. Make reasonable and necessary efforts to employ a diverse workforce. Such actions should include requests for minority and female applicants. Contractors are notified that direct hiring of employees (such as "walk-ons") without providing notification of that job opportunity may not be sufficient to

establish the Contractor's efforts to satisfy the diversity goals; and

- 2. Document employment efforts. Use the Worker Request Form to keep a *written* record of requests to:
 - a. Union halls for signatory contractors;
 - b. Union or open shop apprenticeship programs;
 - c. The Oregon Employment Department. Go to: www.imatchskills.org or call 503-257-HIRE;
 - d. State-registered pre-apprenticeship programs: http://www.oregon.gov/BOLI/ATD/pages/a ag partners.aspx
- 3. Documentation will be requested by the Owner, if a Contractor is not following their Workforce Plan or meeting the workforce diversity goals, if it appears that the Contractor has not made reasonable and necessary efforts. When requested, the Contractor shall provide that documentation to the Contract Compliance Specialist within 7 calendar days.

NOTE: Contractors may contact the Contract Compliance Specialist for assistance related to any of the above issues.

IV. CONSEQUENCES OF NONCOMPLIANCE WITH WORKFORCE PROGRAM REQUIREMENTS

The Owner's commitment to this program is reflected, in part, by the cost of administering the program. Failure to meet the requirements of this section of the specifications negates such funding and impairs the Owner's efforts to promote workforce diversity and to provide fair and equal opportunities to the public as a whole as a result of the expenditure of public funds. Therefore, the parties mutually agree that failure to meet the requirements of this section of the specifications, including but not limited to the submission of required documentation, constitutes a material breach of the Contract.

In the event of a breach of this section of the Contract, the Owner may take any or all of the following actions:

A. Withholding Progress Payments

The Owner may withhold all or part of any progress payment or payments until the PRIME has remedied the breach of Contract. In the event that progress payments are withheld, the PRIME shall not be entitled to interest on said payments.

If a subcontractor(s) is responsible for noncompliance with the Workforce Program requirements, the Owner may choose to withhold only their portion of the progress payment.

B. Retain Sums as Damages for Failure to Comply with Workforce Program Specifications

The parties mutually agree that it would be difficult, if not impossible, to assess the actual damage incurred by the Owner for the PRIME's failure to comply with the Workforce Program specifications. The parties further agree that it is difficult, if not impossible, to determine the cost to the Owner when workforce opportunities are not provided. Therefore, if the PRIME fails to comply with the Workforce Program provisions of this Contract, the PRIME agrees to pay the sum of \$250 per day for each day of missed apprenticeship hours or until the breach of Contract is remedied. Damages may be assessed for failure to meet the 20% apprenticeship training requirements by the PRIME and each required subcontractor in each trade employed. Damages will be calculated based on the training hours not provided at a rate of \$250 per day. For example, if the Contractor was required to provide 200 hours of carpenter training (20% of 1,000 total carpenter hours), and the Contractor only provided 150 training hours, then the difference (50 hours) is divided by 8 (one day of work) to determine the number of days

7

of undelivered training. $(50/8 = 6.25 \times $250 = $1,562.5)$.

Damages may also be assessed for failure to fulfill the inclusive hiring process described in Section III, subsection F.

These damages are independent of any liquidated damages that may be assessed due to any delay in the project caused by the Contractor's failure to comply with the Workforce Program provisions of the Contract.

C. Retain Sums as Liquidated Damages for Delay

The PRIME agrees that any delay to the specified contract time as a result of the PRIME's failure to comply with the requirements of these specifications shall subject the PRIME to the amount of liquidated damages specified elsewhere in the Contract.

D. Notification of Possible Debarment

By executing this Contract, the PRIME agrees that it has been notified that failure to comply with the requirements of this portion of the Contract may lead to the PRIME's disqualification from bidding on and receiving other Owner contracts.

E. Other Remedies

The remedies that are noted above do not limit any other remedies available to the Owner in the event that the PRIME fails to meet the requirements of the Workforce Program specifications.

V. REVIEW OF RECORDS

In the event that the Owner reasonably believes that a violation of the requirements of the Workforce Program specifications has occurred, the Owner is entitled to review the books and records of the PRIME and any subcontractors employed on the project to which the requirements of these specifications are applicable to determine whether such a violation has or has not occurred.

In the event that the PRIME or any subcontractor fails to provide the books and records for inspection and copying when requested, such failure shall constitute a material breach of this Contract and permit the imposition of any of the remedies noted in Section IV above, including the withholding of all or part of any progress payment.

ATTACHMENTS:

Recommended Recruitment & Retention Practices Apprenticeship Ratio Data

RESOURCES:

Copies of all required forms, including the Workforce Plan and Worker Request Form can be downloaded in the LCP Tracker system at www.lcptracker.net or are available on the City's website at: https://www.portlandoregon.gov/brfs/42255

For questions about the City's Workforce Training and Hiring Program requirements, visit: https://www.portlandoregon.gov/brfs/42255

For information on State-Approved Apprenticeship Programs visit the Bureau of Labor and Industries, Apprenticeship and Training Divisions website: http://www.oregon.gov/BOLI/ATD/pages/index.aspx.

For procedures related to granting exemptions to the training requirements, please visit: https://www.portlandoregon.gov/citycode/?c=26882&a=408189.

For additional rules and procedures for implementing the provisions of the Workforce Training and Hiring Program, please visit: https://www.portlandoregon.gov/citycode/?c=26882&a=408189.

For a list of community resources to help with the recruitment of women and minorities, please visit: http://www.oregon.gov/BOLI/ATD/pages/a ag partners.aspx

If you have questions after reading the information contained herein and visiting the resources above, please contact a Contract Compliance Specialist or the City's Workforce Program Manager at:

CATHLEEN MASSIER, Program Manager	823-6888	Cathleen.Massier@portlandoregon.gov
ANGELA PACK, Compliance Specialist	823-6883	Angela.Pack@portlandoregon.gov
PAULA WENDORF, Compliance Supervisor	823-6889	Paula Wendorf@portlandoregon.gov
THOMAS JONES, JR, Compliance Specialist	823-4330	Thomas.Jones@portlandoregon.gov

RECOMMENDED GOOD FAITH RECRUITMENT & RETENTION PRACTICES

A. Recruitment Efforts

Good faith recruitment efforts are those intense, aggressive, sincere, and result-oriented actions taken by the Contractor designed to accomplish the objectives of the City Workforce Training & Hiring Program, Good faith recruitment efforts include, but are not limited to:

- 1. Work aggressively with Contractor's Joint Apprenticeship Training Committee (JATC) to recruit minorities, women and disadvantaged individuals. Provide evidence of these efforts.
- 2. Assist the JATC by conducting a workshop with minority and women employees to enlist their assistance as recruiters and request their ideas on how to increase employment of underutilized groups.
- 3. Support the efforts of the Contractor's JATC by giving all apprentices referred to the Contractor a fair chance to perform successfully, allowing for possible lack of previous experience. Recognize that the Contractor is responsible for providing on-the-job training, and that all apprentices should not be expected to have previous experience.
- 4. Participate in job fairs, school-to-work, and community events to recruit minorities, women, and disadvantaged individuals into the construction trades.
- 5. Allow scheduled job site visits by participants in community programs, as safety allows, increasing awareness of job and training opportunities in the construction trades.
- 6. Keep applications of those not selected for an opening. Contact when opening occurs.

B. <u>Retention Efforts</u>

The Contractor shall endeavor to retain minorities, women, and disadvantaged individuals by implementing steps such as the following:

- 1. Maintain a harassment-free work place.
- 2. Ensure that employees are knowledgeable about the company's policies if they need to report a harassment problem.
- 3. Make reasonable attempts to keep apprentices working and train them in all work processes described in the apprenticeship standards.
- 4. Review and disseminate, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions.
- 5. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 6. Take steps to reduce feelings of isolation among minorities and women to curb hostile attitudes and behavior (e.g., have several minorities and women at the job site, provide access to support group system).
- 7. Provide adequate toilet facilities for women on the job site.
- 8. Match minority, female, or disadvantaged apprentices who may need support to complete their apprenticeship programs with a journey-level mentor.

APPRENTICESHIP RATIO DATA

The following data may be used to determine the ratio of apprentices on a jobsite in proportion to journey-level workers. The ratios that apply are those listed in the standards of the apprenticeship committee to which the Training Agent (contractor) is a member. If the applicable trade is not listed, contact the Bureau of Labor and Industries at (971) 673-0760.

TRADE	1 st Apprentice	2 nd Apprentice	Maximum
Asbestos/Insulation Workers	1:1	1:3	
Brick/Marble/Terrazzo/Tile Finisher	1:1	1:3	
Bricklayer/Masonry	1:1	1:3	
Carpenter	1:1	1:1	1:1 for first three apprentices; 1:5 thereafter
Carpet Installers/Floorlayers	1:1	1:3	
Cement Masons	1:2; 1:1 non-union	1:3	
Drywall Applicator (Ext/Int Specialists)	1:1	1:1	1:1 for first three apprentices; 1:5 thereafter
Drywall Finisher (Taper)	1:1	1:3	1:3 thereafter
Electricians			
Inside	1:1	1:3	
Limited Energy	1:1	1:1	
Limited Maintenance	1:1	1:2	
Elevator Mechanic	1:1	1:3	
Environmental Control System (HVAC)	1:1	1:1	Additional Apprentices at 1:3
Glass Installer (Glazier)	1:1	1:3	
Hod Carrier/Mason Tender	1:1	1:5	
Ironworker	1:1	1:3	
Laborer	1:1	1:5; 1:3 non-union	1:10 union (10 max)
Maintenance Mechanic	1:1	1:3	
Millwright	1:1	1:1	1:1 for first three apprentices; 1:5 thereafter
Operating Engineer	1:1-4	2:5-9	3:10-19; 4:20-24; 5:25-29; 30 or more 1:5
Painter	1:1	1:3	
Traffic Control	1:1	1:4	
Pile Driver	1:1	1:1	1:1 for first three apprentices; 1:5 thereafter
Pipefitter	1:1	1:1	1:3 thereafter
Plasterer	1:1	1:3	
Plumber	1:1	1:1	1:1 for first two apprentices; 1:3 thereafter
Roofer	1:1	1:1	
Scaffold Erector	1:1	1:1	1:1 for the first five apprentices; 1:5 thereafter
Sheet Metal Worker	1:1	1:1	1:1 for the first two apprentices; 1:3 thereafter
Residential	1:1	1:3	
Sign Maker/Erector	1:1	1:1	
Sprinkler Fitter	1:1	1:1	
Steamfitter	1:1	1:1	1:1 for the first two apprentices; 1:3 thereafter
Tile/Marble Setter	1:1	1:3	
Truck Driver	1:1	1:1	

Note: Ratios may change pursuant to actions taken by the Oregon State Apprenticeship & Training Council. For the purposes of this contract, the ratios approved by BOLI on the date the bid is advertised shall prevail.

Special Provisions

CITY OF PORTLAND

BUREAU OF TRANSPORTATION

SPECIAL PROVISIONS

for

Grading, Drainage, Paving, Striping, Signing, Illumination, Signals & Roadside Development

Columbia Blvd: Bank St to Macrum Ave, N

Phase II

Multnomah County

CONSOLIDATED SPECIAL PROVISIONS

The preparer of the consolidated Special Provisions for this Project:

By: Ruthanne Bennett Date: 3/6/2020

Ruthanne Bennett, P.E.

CITY OF PORTLAND

BUREAU OF TRANSPORTATION

SPECIAL PROVISIONS

for

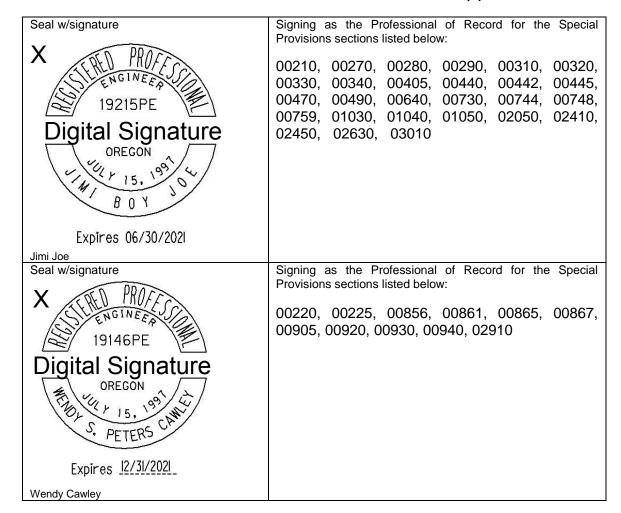
Grading, Drainage, Paving, Striping, Signing, Illumination, Signals & Roadside Development

Columbia Blvd: Bank St to Macrum Ave, N

Phase II

Multnomah County

PROFESSIONAL OF RECORD CERTIFICATION(s):



CITY OF PORTLAND

BUREAU OF TRANSPORTATION

SPECIAL PROVISIONS

for

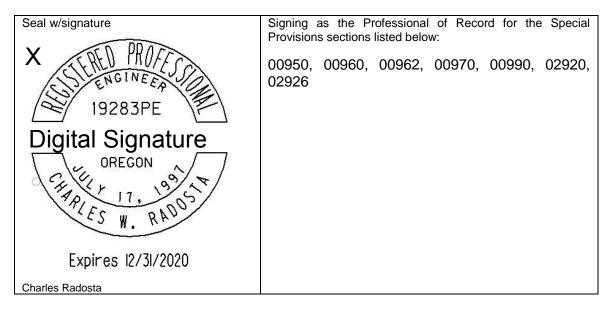
Grading, Drainage, Paving, Striping, Signing, Illumination, Signals & Roadside Development

Columbia Blvd: Bank St to Macrum Ave, N

Phase II

Multnomah County

PROFESSIONAL OF RECORD CERTIFICATION(s):



Columbia Blvd: Bank St. to Macrum Ave, N Phase II	Bid #00001456
N. Columbias Blvd: Bank St to Oregonian Ave	
Grading, Drainage, Paving, Striping, Signing,	
Illumination, Signals, Roadside Development	

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SPECIAL PROVISIONS

WORK TO BE DONE

The Columbia Blvd: Bank St to Macrum Ave, N Phase II project involves the construction of street improvements along the following street.

N. Columbia Blvd. from N. Bank St. to N. Oregonian Ave.

Improvements shall consist of those items of work listed in the Proposal and as shown on the accompanying Plans. The Contractor shall perform all labor, and furnish all materials, equipment and incidentals required to make each item complete. Work shall include, but not be limited to:

- 1. Construct, maintain, and remove temporary work zone traffic control measures.
- 2. Construct, maintain, and remove erosion control measures.
- 3. Perform all removal of structures and obstruction, clearing and grubbing, and earthwork operations.
- 4. Construct drainage system including sewer pipes and inlet.
- 5. Construct roadway improvements including aggregate base, MWMAC wearing surfaces, concrete curb and sidewalks.
- 6. Place pavement markings and striping
- 7. Install signing
- 8. Install illumination
- 9. Install traffic signal interconnection
- 10. Roadside development including seeding, planting and fencing.

APPLICABLE SPECIFICATIONS

The Specification that is applicable to the Work on this Project is the 2010 edition of the "City of Portland Standard Construction Specifications".

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

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Owner's Representative/Engineer

Owner's Representative: Mario de la Rosa

1120 SW 5th Ave, Suite 1331 Portland, Oregon 97204

Engineer: Steve Townsen, PE

1120 SW 5th Ave, Suite 1331 Portland, Oregon 97204

TIME FOR COMPLETION

See subsection 00180.50(d) for the time to complete all Work under the Contract.

The written Notice to Proceed will be sent to the Contractor in accordance with subsection 00130.80.

The Owner considers on-site work to have commenced when the Contractor mobilizes equipment onto the Project site.

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PART 00100 - GENERAL CONDITIONS

SECTION 00110 – ORGANIZATION, CONVENTIONS, ABBREVIATIONS AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications.

SECTION 00120 – BIDDING REQUIREMENTS AND PROCEDURES

Comply with Section 00120 of the Standard Specifications.

SECTION 00130 – AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the Standard Specifications.

SECTION 00140 - SCOPE OF WORK

Comply with Section 00140 of the Standard Specifications modified as follows:

00140.60 Extra Work:

Add the following:

- (d) Construction items which may be required as Extra Work to complete the Project and which are not covered by the Special Provisions or listed Pay Items may include, but are not necessarily limited to, the following:
 - Removal of trees unable to save during construction

00140.70 Cost Reduction Proposals - Replace the paragraph that begins "The Contractor may submit..." with the following paragraph:

The Contractor may submit written proposals to the Engineer that modify Plans, Specifications, or other Contract Documents for the sole purpose of reducing the total cost of construction. Unless otherwise agreed to in writing by the Owner, a proposal that is solely or primarily a proposal to reduce estimated quantities or delete Work, as determined by the Engineer, is not eligible for consideration as a cost reduction proposal and will instead be addressed under 00140.30, whether proposed or suggested by the Owner or the Contractor.

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SECTION 00150 - CONTROL OF WORK

Comply with Section 00150 of the Standard Specifications modified as follows:

00150.03 Internet Based Project Management Requirements

(a) Scope - This Subsection specifies an Internet-based project management system, e-Builder, required for use by the Contractor and the Owner for the processing of construction documents and for collaboration and communications of all Contract related work. Unless otherwise indicated, it is the Contractor's responsibility to utilize e-Builder when performing all project communications. The Owner may, at any time during the Contract period, elect to stop, re-start, or completely discontinue the use of e-Builder, in part or in its entirety. If use of e-Builder is stopped, the Owner will direct the Contractor to provide communication and Construction documents via direct delivery, email, or other conventional means, as approved.

(b) Definitions

- (1) Electronic Documents The electronic form or image of Project Communications that can be stored on and retrieved from an electronic storage device through a collaboration system over the Internet, including all written and graphic products produced with computer software or converted to electronic form or electronic image by computer software.
- (2) e-Builder The website www.e-builder.net is an internet-based project management and collaboration system made and supported by e-Builder Inc. for facilitating real time communication of project data, documents, and project information, to assist in the management of construction projects. e-Builder serves as a single source of project information for communication among project participants by automating various tasks in an organization of modules. It provides secure, permissions-based access by requiring the identification of all users and approval of access rights.
- **(3) Notice** As defined in 00110.20. Also defined as the time and date when a document is sent from one party to the other party as recorded in e-Builder.
- **(4) Project Communication(s)** All written documentation and written communications required by the Contract Documents including, but not limited to: correspondence, reports, notices, written documents, demands, instruments, directives, submittals, transmittals, RFI's, certified payrolls, progress drawings, notices of change, payment applications, change orders, claims, change order requests, field orders, proposal requests, meeting agendas and minutes, substitution requests, test reports, monitoring reports, punch lists, and all other formal Contract communications, unless otherwise indicated in this Section.
- **(5) Secure Documents** A secure form of the original or created electronic document that communicates the content and information of the original/created document and prevents alteration of the original/created document.

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(c) Submittals

- (1) Follow 00150.35 submittal requirements and procedures.
 - **a.** The Contractor shall utilize the populated items in the Submittal Register, when available.
 - **b.** Each submittal package shall contain one item, or, if approved, a closely related group of items which serve as one functional unit.
 - **c.** Each submittal item shall consist of one PDF document, which shall not have any restrictions or permissions associated with the file. Documents containing text shall be searchable.
- (2) Identify the names of staff to be initially granted user licenses for accessing e-Builder Submit the following for each proposed authorized e-Builder user within ten (10) calendar days of the contract award:
 - **a.** Name, title and company affiliation.
 - **b.** Address, phone number, and email address.
 - **c.** Specific job related functions.
 - **d.** Level of authority within the Contractor's organization.
- (3) Submit an updated list of authorized users on a quarterly basis or more frequently as needed, to indicate users to be added or removed.
- (4) Provide proposed schedule of attendance for e-Builder training sessions.
- (5) Provide signed verification of training attendance for all users.

(d) Project Communications

- (1) All official Project Communication and collaboration will take place in e-Builder by creating and distributing documents directly within the system, or by uploading project documents into the system for distribution. Unless otherwise indicated, no other form of written Project Communication will be recognized.
- (2) Create submittals in e-Builder Inc's submittal module. Distribute reports, documents, samples, etc. that cannot be processed through e-Builder according to 00150.35. Use e-Builder to track processing of submittals. Scan and/or upload support documentation into e-Builder.
- (3) The Owner's Representative will respond to all documents using the appropriate e-Builder module. Documents distributed electronically via e-Builder will be considered official project documentation. Documents requiring formal signature including change orders will be signed electronically and distributed via e-Builder unless indicated otherwise.

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- (4) Private or confidential documents should not be posted to e-Builder. If private or confidential documents are required by the owner, they shall be submitted in hard copy per 00150.01(k)(10).
- **(5)** This Subsection shall not relieve the Contractor of its obligations to provide the Owner with Record Drawings in the physical form specified in 00150.35.
- **(6)** Documents will require assigned project codes. The codes will be included in the beginning of the Title or Subject Line of all documents that are created and/or uploaded in the system. This coding will be provided at Notice to Proceed.
- (7) Submittal packages entered in e-Builder will require subject coding. This will permit easier grouping and searching of submittals throughout the course of the project. Submittal Titles shall be formatted: [Project Number] SUB [Submittal Item Number] [Primary Code] [Secondary Code (if applicable)] [Document Title]. Example: E10669 SUB 003.00 TRAFFIC CONTROL TCP at SW 1st & Jefferson. Note that the Submittal Item Number is assigned automatically by e-Builder. Submittal codes are as follows:

Primary Code	Secondary Code	<u>Description</u>
ANCHOR	ADHESIVE	Anchor Systems Bonded Anchors
	MECHANICAL	Expansion Anchors
	WEST WITHOUT	Expansion / monors
BACKFILL		Backfill Materials
	SELECT	Selected Material
	BORROW	Borrow Material
	STONE	Stone Embankment
	AGGREGATE	Base & Shoulder Aggregate
BRIDGE		Structures
	CONC	Concrete
	PSC	Prestressed Concrete
	PTC	Post-Tensioned Concrete
	STL	Structural Steel
	TMBR	Timber
	REBAR	Steel Reinforcement
	BEARING	Bridge Bearings
	JOINT	Bridge Joints
	RAIL	Bridge Rails
	COATING	Paint & Powder Coatings
BRIDGE REMOVAL		Bridge Removal
	BR PLAN	Bridge Removal Plan

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EQUIPMENT Equipment Type & Location

DRILLED SHAFT Drilled Shafts

INSTALL Installation Plan REPAIR Repair Plan

INSPECT Inspection Reports

LOGS Placement Logs & Vol Curves

TESTS CSL Test Reports

DRIVEN PILE Driven Piles

CONC Concrete Piles
TMBR Timber Piles
STL Steel Piles

EROSION CONTROL Erosion Control

EC PLAN Erosion Control Plan
EC MATERIALS Erosion Control Materials

EXCAVATION Excavation, Bedding, Backfill

CLSM Controlled Low Strength Mtl.

COFFERDAM Cofferdam

ENGINEERED SHORING Engineered Shoring STAB Stabilization Rock

GEOTEXTILE Geotextiles

FABRIC Geotextile Fabric

INLET Inlets

G-1 G-2 CG-2 CG-3

BEEHIVE Beehive METAL Metal

METAL, MOD Metal, Modified METAL, GRATE Metal, with Grate

METAL, CHANNEL, GRATE Metal with Channel & Grate

LINING Pipe Lining & Repair

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	CIPP LATERAL SECTIONAL POINT TOPHAT	Cured in Place Pipe Lateral Liners Sectional Liner Point Repair Top Hat
MANHOLE	48 60 72 84 96	Manholes 48" Manhole 60" Manhole 72" Manhole 84" Manhole 96" Manhole
PAVEMENT	AC TEMP PCC CURB DRIVEWAY SIDEWALK	Pavement Restoration Asphalt Concrete Temporary AC Portland Cement Conc. Pvmt Concrete Curb Concrete Driveway Concrete Sidewalk
PIPE	CSP DIP HDPE PVC RCP VCP	Pipe Type Concrete Ductile Iron Polyethylene Polyvinyl Chloride Reinforced Concrete Clay
POLLUTION CONTROL	PC PLAN PC MATERIALS	Pollution Control Pollution Control Plan Pollution Control Materials
ROCK	BASE BACKFILL RIPRAP	Rock Products Paving Base Rock Trench Backfill Riprap
TRAFFIC CONTROL	TCP	Traffic Control Traffic Control Plan

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	SIGNS STRIPING	Traffic Signs Striping
TUNNEL,BORE, JACK	TUNNEL BORE BURST	Tunneling, Boring & Jacking Tunneling Boring & Jacking Pipe Bursting
VIDEO	MAIN LATERAL	Video Inspection of Sewers Mainline Laterals
WALL	RETAIN SOUND	Wall Structures Retaining Walls Sound Walls
WORK ON EXISTING	DIVERSION REHAB REHAB BASE CLEANOUT STEPS	Work on Existing Structures Flow Diversion Manhole Rehabilitation Rehabilitate MH Base Cleanout MH Steps

Access Requirements

OTHER

(e)

Items not listed above

- (1) Access to the Internet and an Internet email is required to access the system. The Owner will provide user accounts to access and use e-Builder throughout the project.
- (2) Users of the e-Builder website will be permitted access only to this Project, in accordance with permission levels configured by the Owner. Access will only be permitted to certain modules within the Project. Requests to change permission levels must be submitted to the owner's e-Builder Administrator.
- (3) Contractor shall maintain the list of authorized users to reflect current authorized users of e-Builder
- **(4)** Contractor shall protect the security of the e-Builder system by limiting access to authorized users only. Do not allow 'sharing' of usernames. Contractor shall take appropriate precautions to maintain the security of the e-Builder system and ensure that Owner's Representative is notified immediately of any user who is no longer authorized to use the system so that their user account can be de-activated.

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- (f) Computer / Network System Requirements The Contractor shall be responsible for possessing the materials and broadband internet connection for accessing the website to fully comply with the specifications. See more information at: https://www.e-builder.net/support/optimization for supported internet browsers.
 - (1) Computer operating system recommendation for optimal performance is Windows 7 or later & OS X v10.8 or later.
 - **(2)** Browser pop-up settings should be modified to allow pop-ups from app.e-builder.net.

(g) Training:

- (1) All contractor personnel who will be using e-Builder are required to attend a minimum of one 2-hour training conducted by the owner prior to the Notice to Proceed. Training will be scheduled by owner after contract has been awarded.
- (2) Designate one staff person to serve as an on-site trained e-Builder resource for the Contractor's users. The Contractor will have access to the owner's support personnel for assistance in effectively utilizing the software and providing technical support when appropriate.

(h) Use Requirements:

- (1) Use e-Builder as the Project file storage system with a file folder structure created by the Owner to organize the Project documents.
- **(2)** Abide by all policies, procedures, and standards established by the Owner for the use and application of e-Builder.
- (3) Comply with applicable laws and regulations regarding electronic transmission of documents requiring professional engineering stamps or signatures, including provision of hard copies of such documents as appropriate.
- **(4)** Project Communications that require the signature of authorized persons will utilize Docusign (via e-Builder), the stamp tool in e-Builder Inc., or other approved secure electronic signature software.
- **(5)** Use of e-Builder will not replace or change any contractual responsibilities. Provide an adequate number of users to properly manage the document process in accordance with the Contract.

(i) Restrictions and Limitations:

(1) All Project Communications submitted to the Owner's Representative through e-Builder after 3:00 PM, Monday through Friday, will be acknowledged no earlier than the following business day.

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- (2) For Project Communication purposes, business days and hours are defined as Monday through Friday, 7:30 AM to 4:30 PM, Pacific Time, excluding the Owner's holidays.
- (3) User access rights to the e-Builder site will restrict access to this Contract only.
- (4) Access permission levels will be established by the Owner.

(j) Temporary Downtime:

- (1) In the event that the e-Builder system is temporarily unavailable, continue with project communications utilizing other electronic means (email) or hard copies to transmit and receive project communications.
- (2) Maintain records of all project communication during the e-Builder downtime and upload the records to e-Builder when it is operational.
- (3) Notify the Owner's Representative by telephone or email when e-Builder is not functional.

(k) Owner Responsibility:

- (1) Provide the Contractor with e-Builder Use Guidelines within seven (7) calendar days after the contract award.
- (2) Provide user access to the e-Builder system for the duration of the Contract.
- (3) Manage the e-Builder program, site, user accounts and the permissions level for all users of the system.
- **(4)** Provide e-Builder training for personnel using the system for e-Builder users identified by the Contractor.
- **(5)** Provide technical support (administration) for e-Builder through the e-Builder system vendor.
- **(6)** Provide guidelines regarding the organization and format of the e-Builder modules and the access permission requirements for each module or element thereof.
- (7) Allow contractor to upload, download, view, and markup files, based on role permissions established by the owner.
- (8) Track history of revisions and activities with respect to each document submitted or managed within e-Builder
- **(9)** Adjust and revise the folder structure as necessary to facilitate management of Project Communications.
- (10) With the prior approval of Owner's Representative, exceptions may be made to allow specific items to be transmitted, submitted, responded to, or distributed in hard copy

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only. In these instances, e-Builder shall be used to track and expedite processing of these items.

(I) Measurement and Payment - It is the Contractor's responsibility to utilize e-Builder when performing all project communications. All materials, equipment, and labor to utilize e-Builder will be incidental to the work.

00150.15(a) Construction Stakes, Lines and Grades – Replace this subsection with the following:

(a) The Owner will provide and set construction stakes establishing lines and grades as may be necessary for the Work. The Contractor shall notify the Owner's Representative not less than 5 Working Days in advance of when survey services are required in connection with the layout of any portion of the Work.

00150.35(o)(2) Unstamped Working Drawings - Replace the sentence with the following sentence:

Unstamped Working Drawings will be designated on the face of the Drawing, as "approved", "approved as noted", or "returned for correction" by the Engineer.

00150.50(e)(2) Utility Information/Organizations - Add the following paragraph:

There are no anticipated conflicts with the Utilities listed in 00150.50(e)(5). Contact those Utilities having buried facilities and request that they locate and mark them for their protection prior to construction.

00150.50(e)(5) Utility Information/Contacts - Add the following paragraphs:

Utilities and their field coordinators include:

<u>Utility Company</u>	Contact Person	Telephone No.
Pacific Power & Light	Daren Dixon	503-280-2702
CenturyLink Communications	Scott Miller	503-242-4144
Portland General Electric	24-hour Contact Number	503-464-7777
Comcast	Leroy Soumokil	503-596-3770
NW Natural	Jeremy Lorence	503-226-4211 x6772
City of Portland Sewers	Judy Brown	503-823-1715
City of Portland Water Bureau	Roy Martinez	503-823-8311

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<u>Utility Company</u> <u>Contact Person</u> <u>Telephone No.</u>

City of Portland Signals/Lighting Charles Radosta 503-823-5573

SECTION 00160 – SOURCE OF MATERIALS

Comply with Section 00160 of the Standard Specifications.

SECTION 00165 – QUALITY OF MATERIALS

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

00165.04 Cost of Testing - The Project is administered by PBOT. Use Method A for this Project.

00165.10(a) Field Tested Materials - Add the following paragraph:

For this Project, use Section 5 of the MFTP. Field tested materials will be accepted on the Project according to the Type E testing program.

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

Comply with Section 00170 of the Standard Specifications modified as follows:

00170.70(d)(4)(b) Insurance Coverage - Add the following paragraphs: In addition to naming the Owner, also name the State of Oregon, Oregon Transportation Commission and its members, and Oregon Department of Transportation, its officers, and employees as additional insureds.

Modify Subsection 00170.70(d)(1) as follows:

00170.70(d)(1) Commerical General Liability (CGL) – Contractor shall obtain, at Contractor's expense, and keep in effect during the term of the resulting contract, Commercial General Liability Insurance covering bodily injury and property damage in a form and with coverages that are satisfactory to the State and the Owner. This insurance shall include personal and advertising injury liability, products, completed operations, and contractual liability coverage for the indemnity provided under this Contract (to the extent contractual liability coverage for the indemnity is available in the marketplace). Coverage may be written in combination with Automobile Liability Insurance (with separate limits). Coverage shall be written on an occurrence basis. If written in conjunction with Automobile Liability the combined single

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limit per occurrence shall not be less than \$2,000,000 for each job site or location. Each annual aggregate limit shall not be less than \$4,000,000.

Add the following Subsection:

00170.72(e) Indemnity/Hold Harmless - The Contractor also shall indeminify, hold harmless and defend the State of Oregon, Oregon Transportation Commission, and its members, and Oregon Department of Transportation, and its officers, agents, and employees to the same extent as the Owner as provided in paragraph (a) above.

Modify Subsection 00170.79 as follows:

Third Party Beneficiary – Replace this Subsection with the following:

00170.79 Third Party Beneficiary – The State of Oregon is an express third party beneficiary to this contract. Other than the State of Oregon, there are no other third party beneficiaries, express or implied, created by this contract who may enforce its terms.

SECTION 00180 - PROSECUTION AND PROGRESS

Comply with Section 00180 of the Standard Specifications modified as follows:

Materials, Equipment, and Work Force - Replace this subsection with the following:

Materials, Equipment, and Work Force - The Contractor shall furnish suitable and sufficient Materials, Equipment, and personnel to properly prosecute and complete the Work. The Contractor shall use only Equipment of adequate size and condition to meet the requirements of the Work and Specifications, and to produce a satisfactory quality of Work. Upon receipt of the Engineer's written order, the Contractor shall immediately remove, and not use again on the Project without the Engineer's prior written approval, Equipment that, in the Engineer's opinion, fails to meet Specifications or produce a satisfactory product or result.

The work force shall be trained and experienced for the Work to be performed. Upon receipt of the Engineer's written order, the Contractor shall immediately remove from the Project Site, and shall not employ again on the Project without the Engineer's prior written approval, any supervisor or employee of the Contractor or any subcontractor who, in the Engineer's opinion, does not perform satisfactory Work or whose conduct interferes with the progress of the Work.

If the Contractor fails to remove Equipment or persons as ordered, or fails to furnish suitable and sufficient Materials, Equipment and personnel for the proper prosecution of the Work, the Engineer may suspend the Work by written notice until such orders are complied with and such deficiencies are corrected, or the Engineer may terminate the Contract under the provisions of 00180.90(a).

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Add the following subsection:

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

Limitations	Subsection
Cooperation with Utilities	00150.50
Cooperation with Other Contractors	00150.55
Final Completion Time	00180.50
Traffic Restrictions	00220.40

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

00180.41(j) Project Work Schedules - Add the following to the end of the subsection.

A type "B" schedule will be required under the Contract.

00180.42(b)(9) – Replace this subsection with the following:

00180.42(b)(9) - A detailed breakdown of all lump sum bid items, except Mobilization, TPDT, Erosion Control and Pollution Control.

00180.50(d) Contract Time to Complete Work - Complete all Work to be done under the Contract before the elapse of 180 Calendar Days.

Recording of the elapse of Calendar Days will begin on the first Calendar Day following the Notice to Proceed as defined in 00110.20.

00180.80(b) Liquidated Damages - Add the following paragraph:

- **(6)** The liquidated damages for failure to complete the Work on time is \$600 per Calendar Day *.
 - * Calendar Day amounts are applicable when the Contract time is expressed on the Calendar Day or fixed date basis.

SECTION 00190 – MEASUREMENT OF PAY QUANTITIES

Comply with Section 00190 of the Standard Specifications modified as follows:

00190.10(e) Volume Basis – Replace the first paragraph with the following:

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Volume will be cubic yard in-place measure, gallons, foot board measure (FBM), or thousand foot board measure (MFBM), unless otherwise specified in the Contract and will be measured at least to the nearest 0.1 cubic yard, nearest 1.0 gallon, nearest 0.1 FBM, or nearest 0.1 MFBM, as applicable, unless otherwise specified in the Contract.

Delete the second paragraph entirely.

SECTION 00195 – PAYMENT

Comply with Section 00195 of the Standard Specifications modified as follows:

00195.20(c) Disagreements and Claims - Replace the reference to "0019.30" with "00199.30".

00195.52(a) Monthly Progress Payment - Change 00195.50(b) and (c) to 00195.52(b) and (c).

00195.54 Retainage and Withheld Amounts

Revise paragraph (a) as follows:

(a) The Owner has discretion to withhold amounts from any progress payment otherwise due the Contractor if the Contractor breaches the Contract or if it receives claims for damages or costs from third parties as a result of the Contractor's operations and the Owner determines such withholding is necessary to protect the Owner's interests. Such withholding may continue until the claim is resolved.

Revise and add to paragraph (b) as follows:

- **(b)** The Owner may retain and hold back up to 5% of amounts otherwise due the Contractor as "Retainage." Retainage will be held and paid to the Contractor as part of the Final Payment of the Contract Amount. Alternatives to cash retainage may be permitted in accordance with ORS 279C.560.
 - (1) As work progresses, the Owner may reduce the amount of the Retainage and may eliminate Retainage on any remaining monthly Contract payments after 50 percent of the work under the Contract Documents is completed if, in the Owner's Representative's opinion, the 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 the Contractor's Surety.

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(2) When the Work is $97 \frac{1}{2}$ % completed the Owner may, at its discretion and without application by the Contractor, reduce the Retainage to 100% of the value of the Contract work remaining to be done.

If the Contract price exceeds \$500,000, the Owner shall place amounts deducted as Retainage into an interest-bearing escrow account. Interest on the Retainage amount will be paid to the Contractor and accrues from the date the payment request is approved by the Owner until the date the Retainage is paid to the Contractor to which it is due.

00195.54(b) Retainage and Withheld Amounts - Replace this subsection with the following:

- **(b)** The Owner may retain and hold back up to 5% of amounts otherwise due the Contractor as "Retainage." Retainage will be held and paid to the Contractor as part of the Final Payment of the Contract Amount. Alternatives to cash retainage may be permitted in accordance with ORS 279C.560.
 - (1) As work progresses, the Owner may reduce the amount of the Retainage and may eliminate Retainage on any remaining monthly Contract payments after 50 percent of the work under the Contract Documents is completed if, in the Owner's Representative's opinion, the 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 the Contractor's Surety.
 - (2) When the Work is $97 \frac{1}{2}$ % completed the Owner may, at its discretion and without application by the Contractor, reduce the Retainage to 100% of the value of the Contract work remaining to be done.
 - (3) If the contract price exceeds \$500,000, the Contractor has the option to furnish a Retainage Bond in lieu of the Owner holding back Retainage. To the extent the Contractor elects for the Owner to holdback Retainage, the Owner shall place amounts deducted as Retainage into an interest-bearing escrow account. Interest on the Retainage amount accrues from the date the payment request is approved by the Owner until the date the Retainage is paid to the Contractor to which it is due. The costs incurred by the City for the interest-bearing account may be charged back to the Contractor if it elects this option.

00195.90(f) Final Payment - Replace the first paragraph with the following:

(f) The Final Payment shall be the difference between the Contract Amount, as adjusted by any authorized Change Orders, and the sums of all payments previously made, plus any Retainage and interest earned on Retainage held by the Owner.

00195.90(f)(3) Final Payment - Replace this subsection with the following:

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(3) If the Owner declares a default of the Contract and it's Surety fulfills its responsibility to ensure Final Completion, then the Contractor agrees that all progress payments not yet made and all Retainage including any interest earned on Retainage held by the Owner shall be paid to the Surety and not to the Contractor.

SECTION 00196 – PAYMENT FOR EXTRA WORK

Comply with Section 00196 of the Standard Specifications.

SECTION 00197 – PAYMENT FOR FORCE ACCOUNT WORK

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

00197.20(a) Equipment Payment - Replace the last sentence with the following:

Equipment use approved by the Owners Representative will be paid at the rental rates given in the most current edition of the Rental Rate for Construction Equipment, published by EquipmentWatch, 6151 Powers Ferry Rd, Suite 200, Atlanta, GA 30339, phone 1-800-669-3282 or 1-770-618-0107, FAX 1-800-224-3527,

Email: customerservice@equipmentwatch.com, website: www.equipmentwatch.com.

00197.20(c) Rental Rate Formula - Replace the formula in this subsection with the following:

Hourly Rate = Monthly Base Rate x Rate Adjustment Factor + Hourly Operating Rate 176 hours/month

SECTION 00199 - DISAGREEMENTS, PROTESTS AND CLAIMS

Comply with Section 00199 of the Standard Specifications

PART 00200 - TEMPORARY FEATURES AND APPURTENANCES

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

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SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

OU220.02 Public Safety and Convenience - Add the following bullets to the end of this subsection:

- Do not close more than one crosswalk within any intersection at any time.
- Provide notice to business and residents of upcoming construction at least 1 week, but no more than 2 weeks before construction is expected to begin in front of their property. The notice will be on an approved form or letter. The notice shall include the Project name, the name and address of the Contractor, daytime and emergency phone numbers, daytime Project contact person's name and an emergency contact person's name. If other means of delivery are not effective, hang the notice on a business's or resident's building in a waterproof plastic bag.
- Coordinate work to accommodate any reasonable special needs of the business and residents. The Engineer will make a final determination should a question arise whether a special need or request submitted to the Contractor is reasonable.
- In coordination with the Owner's Representative, provide notice to public agencies impacted by disruption or restriction of traffic or access to property as a result of projectrelated TCM:

Agency - Company - Residence	Contact	Contact Info
United States Postal Service	Operator	503-294-2399
Portland Fire Bureau	Fire Liaison	fire.liaison@portlandoregon.gov
	Jamie Ziegler	james.ziegler@portlandoregon.gov
Portland Police Bureau	Capt. Mark Kruger	mark.kruger@portlandoregon.gov
	Capt. Dave Hendrie	david.hendrie@portlandoregon.gov
American Medical Response (AMR)	Ben Sorenson	PDX_COMM_MGMT@amr.net
	Chad Heidt	chad.heidt@amr.net
	Frank Gmelin	frank.gmelin@amr.net
Portland Bureau of Emergency Communications	Operator	503-823-0911
Portland Bureau of Emergency Management	Dan Douthit	dan.douthit@portlandoregon.gov
TriMet	Field Operations	503-962-8117
Portland Public School Transportation	Sandy van Baggen	503-916-6901
	Terri Brady	tbrady1@pps.net
	Rob McDougald	rmcdougald@pps.net
Portland Transportation Maintenance	Dispatch	503-823-1700
Portland Traffic Signal and Street Lighting	Signal Engineer	503-823-5573

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- When performing trench excavation or other excavation across or adjacent to a travel lane on a roadway having a pre-construction posted speed greater than 35 mph, backfill the excavation, install surfacing, and open the roadway to traffic by the end of each work shift. Install a "BUMP" (W8-1-36) sign approximately 100 feet before the backfilled area and a "ROUGH ROAD" (W8-8-36) sign approximately 200 feet ahead of the "BUMP" sign. If this requirement is not met, maintain all necessary lane or shoulder closures and provide additional TCM, including flagging, at the Contractor's expense. Do not use temporary steel plating to reopen the roadway.
- Before implementing the operation of a new traffic signal protect traffic by installing "Traffic Control Change Ahead" signing and "Signal Ahead" signing according to 00225.02. Signs shall remain in-place for at least 30 days after completion of the new traffic signal. Keep signs covered until new traffic control change has been implemented.

00220.03(b) Closures and Modifications- Add the following bullet to the end of the bullet list:

 Bus Stops – Provide a minimum of 14 days notice before closing, relocating, or modifying a TriMet bus stop. The TriMet Field Operations Coordinator must also be notified by e-mail at foc@trimet.org. For bus zones to be temporarily relocated purchase a parking removal Street Use Permit at least 14 days prior to relocating the bus stop.

Add the following subsections:

00220.03(c) Permanent Street Closures and Modifications – Contact Paul Cone, City GIS and Mapping, 503-823-4071, 14 days in advance of permanent street closures or changing streets from one-way to two-way or two-way to one-way.

00220.03(d) Noise Variance Application – Work occurring during night hours Monday through Saturday (between 6:00 p.m. and 7:00 a.m.) and on Sundays must follow the City's Construction Noise Regulations. Contractor is responsible for applying for any Noise Variances required for work during these hours. Applications for variances to the noise regulations must be submitted to the City of Portland Noise Review Board 45 business days prior to the Noise Review Board meeting (second Wednesday of each month). Contact the Office of Neighborhood Involvement at 503-823-6702 for more information.

00220.40(h) Lane Requirements – Do not close any traffic lanes or sidewalks unless otherwise approved or specified in the following lane requirements. Remove all barricades and objects from lanes open to traffic.

Replace subsection (1) with the following:

(1) Project Specific:

Intersections of N Midway Ave & N Oregonian Ave on Columbia

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- Maintain a minimum 12' wide thru travel lane 8AM-4PM Monday thru Sunday at all times.
 Maintain one lane on the work zone side and maintain both thru travel lanes on the opposite side at their existing widths at all times during corner reconstruction.
- Maintain a minimum 12' wide thru travel lane 8AM-4PM Monday thru Sunday during median construction.
- A temporary pedestrian walkway protected by water filled barricades must be provided during corner reconstruction.
- Leave a 2' shy buffer zone between the water filled barricades and travel lane.
- Water filled barricades must have flashers for night time visibility.
- Traffic may have to shift into the two-way left turn lane (TWLTL) in order to accommodate
 pedestrians adjacent to the work zone and traffic. Separate bi-directional traffic using
 drums.
- Notify emergency responders one week prior to starting work on this street.

Pedestrian Accommodation

- Maintain a minimum of five feet for through pedestrian access at all times when creating
 a temporary walkway, unless otherwise approved by the Engineer. Proposed pedestrian
 paths/detours must be shown on the traffic control plan and approved by the Engineer.
- Pedestrian walkway along Columbia Blvd must be protected by temporary water filled barricades fitted with temporary impact attenuators at each end.
- Install ADA compliant temporary pedestrian ramp to transition pedestrians from the sidewalk to the temporary walkway.
- Pedestrian channelization devices (not water filled) must be provided on the inside of the walkway between the pedestrians and any excavations. Provide 1.5' buffer from dropoffs to the ped walkway.

00220.40(h)(2) Holidays – Replace the first paragraph of this subsection with the following:

Do not close any traffic lanes between noon on the day before a legal holiday or holiday weekend and 11:59 p.m. on a legal holiday or the last day of a holiday weekend, except for Thanksgiving, when no lanes may be closed between noon on Wednesday and 11:59 p.m. on the following Sunday

Add the following subsection:

00220.46 Garbage/Recycle Receptacles - Provide and maintain access to the garbage/recycle receptacles for the haulers.

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

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

Add the following to subsection .01(a), .01 (b) and .01 (c)

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00225.01 (a) Abbreviations – Add the following to the list of abbreviations"

PCD – Pedestrian Channelizing Device

00225.01 (b) Definitions – Add the following to the list of definitions:

Work Area – The portion of the highway closed to public traffic and set aside for workers, construction equipment, and construction materials. The work area is typically delineated by channelizing devices or separated from traffic using temporary barriers.

Temporary Pedestrian Walkway – A temporary pedestrian access that bridges over a crosswalk and/or sidewalk that has been excavated in the Project.

00225.01 (c) Standards – Replace the bullet list with the following list:

- Oregon Department of Transportation's "Sign Policy and Guidelines for the State Highway System"
- The Manual on Uniform Traffic Control Devices (MUTCD)
- The latest versions of the 1990 Americans with Disabilities Act (ADA), and the Public Right of Way Accessibility Guidelines (PROWAG).
- FHWA "Standard Highway Signs" manual
- ODOT "Oregon Temporary Traffic Control Handbook for Operations of 3 Days or Less" when directed by the Engineer only for mobile pavement marking operations or surveying work, available on the ODOT Traffic Control Plans Unit Website
- ODOT "Oregon Portable Changeable Message Sign Handbook", available on the ODOT Traffic Control Plans Unit website
- ODOT "Traffic Control Plans Design Manual", available on the ODOT Traffic Control Plans Unit website.

00225.02 (a) General Requirements – Add the following after the last paragraph of this subsection:

Install "TRAFFIC CONTROL CHANGE AHEAD" (ODOT CW20-10-48) sign with flags approximately 200 feet in advance of, and Type OO "SIGNAL AHEAD" (MUTCD W3-3) sign with flags approximately 100 feet in advance of the Columbia Blvd. & Bank St intersection, facing eastbound & westbound traffic approaching the new signal.

Add the following subsection:

00225.02(q) Project Identification Signs - Add the following paragraph(s):

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Install a Type "W8" "PROJECT IDENTIFICATION" sign on Columbia Blvd., according to sign spacing "A" from the "TCD Spacing Table" shown on the ODOT standard drawings, in advance of the "ROAD WORK AHEAD" sign at each end of the Project, facing incoming traffic. The Engineer will determine the sign legend. Include "Info/Erosion Concerns: 503-823-1414" at bottom of sign.

- **00225.05** Traffic Control Plan The Contractor will be allowed to use the City's TCP, modify the City's TCP, or use a different TCP. All TCPs must include a start date and duration of the construction activities that require the TCP. Submit the following at least 14 Calendar Days, but no sooner than 30 Calendar Days, before beginning the construction activities that require the TCP:
 - (a) City Traffic Control Plan If the City's TCP is used without modification, a written notification indicating that the City's TCP will be used without modification.
 - **(b) Contractor Modified Traffic Control Plan** If the Contractor will request to use a modified City TCP, or a TCP developed by the Contractor, submit a TCP for review showing all TCM and quantities of TCD. Modified City TCP's may be submitted on stamped Working Drawings according to 00150.35(m). Contractor TCP's must be created by a certified TCS or Licensed Professional Engineer., and include the following:
 - Proposed TCP showing all TCM and quantities of TCD.
 - A temporary pedestrian accessible route plan that includes
 - Details and features used to provide pedestrian accessibility.
 - Pedestrian staging Plans at a scale no smaller than 1 inch = 50 feet.
 - Temporary alternate facilities or detour routes for pedestrian traffic.
 - Staging sequences and details for Work affecting vehicular, pedestrian, and bicycle traffic.
 - Proposed order and duration of the TCM
 - A detailed temporary signing and striping plan.
 - A designated haul route if required

Add the following subsection:

- **00225.07 Traffic Signal Temporary Deactivation/Activation** When contractor staging for construction requires the deactivation/activation of existing traffic signals, the contractor will be billed directly for the cost of this service by PBOT Signals Maintenance.
- **General** Change the publication title in the first sentence to "Quality Guidelines for Temporary Traffic Control Devices and Features".

Change the second paragraph to: "All work zone TCD shall comply with crashworthy requirements of the National Cooperative Highway Research Program (NCHRP) Report 350 or

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with the American Associations of State Highway and Transportations Officials (AASHTO) Manual for Assessing Safety Hardware (MASH)."

Temporary Signing - Change the first paragraph to read "Furnish temporary signs meeting the requirements of the "Acceptable" category shown in the ATSSA "Quality Guidelines for Temporary Traffic Control Devices and Features" handbook, available from the ATSSA website, and the following:

00225.11(a) (4) Roll-up Signs – Replace the words "fluorescent orange" with the word "retroreflective"

00225.11(c) (1) Temporary Signs – Replace this subsection with the following: Use sign covers for temporary signs that meet the following requirements:

- From the CPL or made from one of the following materials:
 - One piece plywood.
 - Type 2 riprap geotextile fabric.
- Large enough to cover the sign and attached rider signs.
- Easy to attach to and remove from the sign without damaging the sign face.
- Black and non-reflective.
- Opaque to prevent message visibility under day and nighttime conditions.

00225.12 Temporary Barricades, Guardrail, Barrier, Attenuators, and Pedestrian Fencing - Replace this section number and title with the following:

00225.12 Temporary Barricades, Guardrail, Barrier, Attenuators, and Channelizing Devices. Furnish temporary barricades, guardrail, barrier, attenuators, pedestrian channelizing devices, and accessories meeting the following requirements:

00225.12 (f) Pedestrian Fencing – Delete this subsection.

Add the following subsection:

00225.12 (h) Pedestrian Channelizing Device – Use PCD from the CPL and as shown on the standard drawings or in the TCP.

00225.18 Temporary Pedestrian Walkways - Replace this section in its entirety with the following:

00225.18 Temporary Sidewalk Ramps, Temporary Pedestrian Walkways, and Temporary Pathways – Furnish temporary sidewalk ramps, temporary pedestrian walkways, and temporary pathways meeting the following requirements:

(a) **Temporary Sidewalk Ramps -** Furnish temporary sidewalk ramps form the CPL or the conditional use list; or construct temporary sidewalk ramps on-site according to the ODOT

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Standard Drawings. Use AC, PCC, or other approved material for on-site constructed temporary sidewalk ramps.

(b) Temporary Pedestrian Walkways - Materials for temporary walks shall be constructed using Douglas Fir-Larch No. 2 or better. The walk shall be a minimum of 7 feet wide with 42 inch high hand railing on both sides of the walk. The lumber used shall be a minimum of 2 inches x 8 inches except for the hand railing which shall be a minimum of 2 inches x 4 inches with 4 inches x 4 inches posts. Apply a non-skid material, with a minimum static coefficient of friction of 0.6 (0.8 on slopes greater than 4%) as determined by ASTM C1028, to the walking surfaces.

Submit a design for the proposed walks for review before construction begins.

00225.42 Temporary Barricades, Guardrail, Barrier, Attenuators, and Pedestrian Fencing - Replace this section number and title with the following:

00225.42 Temporary Barricades, Guardrail, Barrier, Attenuators, and Channelizing Devices. Install temporary barricades, guardrail, barrier, attenuators, pedestrian channelizing devices, and accessories as follows:

00225.42 (f) Temporary Pedestrian Fencing – Delete this subsection.

Add the following subsection:

00225.42(h) Pedestrian Channelizing Devices - Install PCD as shown on the standard drawings or in the TCP. Provide a continuous route by interconnecting all adjacent PCD. Provide a clean unobstructed path for pedestrians according to 00220.02 and the ADA requirements.

00225.50 Temporary Pedestrian Walkways - Replace this section in its entirety with the following:

00225.50 Temporary Sidewalk Ramps and Temporary Pedestrian Walkways– Provide and install temporary sidewalk ramps and temporary pedestrian walkways as follows:

(a) Temporary Sidewalk Ramps – Install or construct temporary sidewalk ramps as shown in the ODOT standard drawings and in the Plans, and according to the manufacturer's recommendations, if applicable. Temporary sidewalk ramp dimensions and grades shall comply with the ODOT standard drawings or requirement approved by the Owner's Representative. Repair or reconstruct unacceptable temporary sidewalk ramps before opening to pedestrian traffic.

For sidewalk ramps that cross, or are placed adjacent to, a gutter line or other drainage Structure, provide an approved means to prevent water from accumulating at the bottom of the ramp or overflowing onto the ramp surface.

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(b) Temporary Pedestrian Walkways - Construct temporary pedestrian access shown on the TCPs where the crosswalks or sidewalks have been excavated in the Project. Transitions from the temporary walk to the sidewalks shall comply with the Americans with Disabilities (ADA) regulations.

00225.62(b) Temporary Impact Attenuators - Replace the paragraph that begins "When impact attenuator..." with the following paragraph:

When impact attenuator, truck mounted attenuator, or narrow site attenuator systems are used, have enough modules, cartridges, components, and replacement parts on-site to replace one complete installation or have on-site a complete replacement attenuator. Re-stock replacement items or complete replacement attenuators within 24 hours of use. All modules, cartridges, components, and replacement parts, and replacement attenuators not used remain the property of the Contractor.

00225.68 Temporary Pedestrian Walkways - Replace this section in its entirety with the following:

00225.68 Temporary Sidewalk Ramps and Temporary Pedestrian Walkways— Maintain temporary sidewalk ramps and temporary pedestrian walkways as follows:

- (a) Temporary Sidewalk Ramps Inspect and maintain temporary sidewalk ramps for:
 - Any damaged ramp surfaces.
 - Ramp alignment or connections to existing sidewalks or roadway surfaces.
 - Compliance with the dimensions and grades in the ODOT standard drawings or requirements approved by the Owner's Representative.
 - Items identified by the manufacturer's recommendations.
 - Other ramp quality or performance issues, as directed.
- **(b) Temporary Pedestrian Walkways** Keep walking surfaces clean of debris at all times. Inspect non-skid surfaces weekly for signs of wear and correct as needed. Check slope of transition from walkway to sidewalk for compliance with ADA regulations each time walkway is adjusted or relocated.

00225.82 Temporary Barricades, Guardrail, Barrier, Attenuators, and Pedestrian Fencing - Replace this section number and title with the following:

00225.82 Temporary Barricades, Guardrail, Barrier, Attenuators, and Channelizing Devices. The quantities of barricades, attenuators, guardrail, concrete barrier, and channelizing devices will be determined as follows:

00225.82(b) Guardrail, Concrete Barrier, and Pedestrian Fencing – Rename this subsection to the following:

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00225.82(b) Guardrail and Concrete Barrier:

00225.82(b)(4) Pedestrian Fencing – Delete this subsection.

Add the following subsection:

00225.82(e) Temporary Impact Attenuator Repair - Temporary impact attenuator repair will be measured on the unit basis as follows:

- Sand barrel systems will be the replacement of damaged sand modules.
- All other systems will be the repair or complete replacement of the attenuator system.

Add the following subsection:

00225.82(f) Pedestrian Channelizing Devices - The quantities of pedestrian channelizing devices will be measured on the length basis, determined by measuring from end to end of the devices along the line and grade of each separate run.

O0225.89 Pilot Cars and Temporary Pedestrian Walkways – Replace this section in its entirety with the following:

00225.89 Pilot Cars, Temporary Pedestrian Walkways, and Temporary Sidewalk Ramps - Quantities for pilot cars and temporary pedestrian walkways will be determined as follows:

- (a) Pilot Cars The quantity for pilot cars will be measured on the time basis, of the actual number of hours pilot cars are operated.
- **(b) Temporary Pedestrian Walkways** Quantities of temporary pedestrian walkways will be measured from end to end of the walkway along the line and grade of each run including the wooden transitions on each end of the walkway.
- **(c) Temporary Sidewalk Ramps** Temporary curb ramps will be measured on the unit basis, where the devices are initially installed on the project.

00225.90(a-1) Pay Quantities - Replace the paragraph that begins "All TCD damaged by..." with the following paragraph:

All TCD damaged by public traffic and replaced by the Contractor, except temporary signing, temporary electrical signs, and portable temporary traffic signals, will be paid for at the Contract price for the pay items listed in the Contract Schedule of Items or in approved Contract change orders, unless otherwise specified. Payment for replacing damaged TCD will only be made when:

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00225.90(a)(1) Pay Quantities – In the paragraph "No separate or additional payment will be made for:", replace the bullet that begins "Moving and reinstalling..." with the following bullet:

 Moving and reinstalling signs, barricades, PCD, plastic drums, delineators, sequential arrow signs, and portable changeable message signs required by stage construction.

00225.90(a)(2) Temporary Protection and Direction of Traffic – Delete the 12th bullet: "Furnishing, installing, maintaining, moving, and removing pedestrian work zone delineation fencing."

Temporary Barricades, Guardrail, Barrier, Attenuators, and Pedestrian Walkways - Replace this section title and first sentence with the following:

O0225.92 Temporary Barricades, Guardrail, Barrier, Attenuators, Pedestrian Walkways, Channelizing Devices, and Temporary Sidewalk Ramps. The accepted quantities of temporary barricades, guardrail, barrier, attenuators, pedestrian walkways, channelizing devices, temporary sidewalk ramps, and appurtenances will be paid for at the Contract unit price, per unit of measurement, for the following items:

00225.92 Temporary Barricades, Guardrail, Barrier, Attenuators, Pedestrian Walkways, Channelizing Devices, and Temporary Sidewalk Ramps - Add the following pay item to the end of the pay item list:

- (o) Pedestrian Channelizing Devices...... Foot
- (p) Pedestrian Channelizing Devices Water Filled Foot

Delete the sentence that begins, "When temporary pedestrian fencing..."

Temporary Barricades, Guardrail, Barrier, Channelizing Devices, and Temporary Sidewalk Ramps - Add the following pay item to the end of the pay item list and add the following paragraph:

(n)	Repair Temporary	/ Impact Attenuator.	Each

In item (p), the words "Sand Module" or the type of attenuator, if applicable, will be inserted in the blank. Item (p) includes replacement of sand modules damaged by public traffic or includes repair or complete replacement of impact attenuators damaged by public traffic.

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

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No separate or additional payment will be made for temporary impact attenuator replacements, replacement modules, cartridges, components, or replacements parts that are required to be on-site according to 00225.62(b) or for cleaning and removing debris from impacts.

Temporary Barricades, Guardrail, Barrier, Attenuators, Channelizing Devices, and Temporary Sidewalk Ramps - Add the following pay item to the end of the pay item list and add the following paragraph:

(r) Temporary Sidewalk Ramp.....Each

SECTION 00270 – TEMPORARY FENCES

Comply with Section 00270 of the Standard Specifications modified as follows.

00270.10 Materials - Replace the sentence that begins "Gabion Wire Mesh Fabric ..." with the following:

Wire Mesh Materials......0398.14

SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

Add the following subsection:

O0280.05 Project Signing - Install 2 erosion signs on the Project with the following information:

- "EROSION CONCERNS?", "Erosion Control Information" or other similar message
- Columbia Blvd: Bank St to Macrum Ave, N Phase II
- Contact Number PBOT 503-823-7012

Use a Type "O4" sign according to 02910.02.

Contact the Engineer to confirm the above information before fabricating the signs.

00280.16(d) Inlet Protection - Add the following bullet to the end of the bullet list:

Compost Filter Sock - Sock material and compost meeting the following requirements:

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- Filter Sock Material 8, 12, and 18 inch diameter, 5 mil thick woven tubular mesh netting consisting of continuous HDPE filament or polypropylene material with 3/8 inch openings or 100 percent biodegradable burlap or coir as shown.
- **Compost** Commercially manufactured coarse compost material meeting the requirements of Section 03020.

00280.46(d) Inlet Protection - Add the following bullet to the end of the bullet list:

• Type 7: Compost Filter Sock - Install compost filter socks as shown.

00280.70 Removal - Add the following paragraph to the end of this section:

If shown or if directed, compost filter material may be dispersed in place. Cut open compost filter socks and dispose of sock material according to 00290.20

SECTION 00290 - ENVIRONMENTAL PROTECTION

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

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

00290.20(c)(3) Reuse, Recycle, and Dispose of Materials - Replace the bullet that begins "Reuse demolition..." with the following bullet:

Reuse demolition debris.

00290.20(c)(3)(d) Concrete and Masonry- Replace the paragraph that begins "Concrete and masonry..." with the following paragraph:

Concrete and masonry, that is not recycled and does not contain hazardous substances, may be reused to fill basements or be buried in embankments on-site, provided that the materials are broken into pieces not exceeding 15 inches in any dimension, and placed so that:

00290.20(d) Hazardous Waste Management - In the paragraph that begins "In addition to current Laws...", replace the two bullets that begin "If the quantity of hazardous waste projected to be..." with the following three bullets:

 If the quantity of hazardous waste projected to be generated meets the requirements for a LQG, prepare a full Hazardous Waste Contingency Plan according to 40 CFR 265 Subpart D. Maintain a copy of the Contingency Plan on-site at all times during construction activities, readily available to employees and inspectors.

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- If the quantity of hazardous waste projected to be generated meets the requirements for a SQG, prepare a modified Hazardous Waste Contingency Plan according to 40 CFR 262.34(d)(5) and 40 CFR 265 Subpart C. Maintain a copy of the modified Contingency Plan on-site at all times during construction activities, readily available to employees and inspectors.
- If the quantity of hazardous waste projected to be generated meets the requirements for a CEG, follow the contingency planning and storage requirements of the SQG unless the only potentially hazardous waste is aerosol cans smaller than 20 ounces. Limit storage to 180 days and 2,200 pounds. Prepare a modified Hazardous Waste Contingency Plan and keep a copy on-site with emergency response procedures and contact information.

00290.20(g) Spills and Releases - Replace the lead-in paragraph that begins "In the event...", with the following lead-in paragraph:

In the event of a spill or release of a hazardous substance or hazardous waste or the release of any other material that has the potential to harm human health or the environment, do the following:

In the sixth bullet, second sentence, change DE to DEQ.

00290.30 Pollution Control, Subsection (c) Air Pollution Control Measures – Replace subsection (1) with the following:

(1) Vehicle and Equipment Idling - Establish truck staging areas for diesel-powered vehicles located where the truck emissions have a minimum impact on sensitive populations, such as residences, schools, hospitals and nursing homes.

Limit idling of trucks and other diesel powered equipment to 5 minutes, when the equipment is not in use or in motion, except as follows:

- When traffic conditions or mechanical difficulties, over which the operator has no control, force the equipment to remain motionless.
- When operating the equipment's heating, cooling or auxiliary systems is necessary to accomplish the equipment's intended use.
- When the safety of contractors and their employees may be compromised if diesel equipment is turned off; for example, where employees are working in a trench.
- To bring the equipment to the manufacturer's recommended operating temperature.
- When the equipment meets the most stringent EPA emissions standards or has been retrofit with a diesel particulate filter (DPF).
- When frequent shutdowns may be detrimental to the exhaust control system, reducing the effectiveness of that system by lowering the exhaust temperature.
- When the outdoor temperature is below 20 °F.
- When the equipment requires testing, servicing, inspection, or repairs.
- Under other circumstances specifically authorized by the Engineer.

Post "Five Minute Limit" anti-idling signs in high foot traffic areas of the job site, visible to workers. All nonroad diesel equipment shall have decals/prompts visible to the operator to remind them to shut down the equipment after 5 minutes of inactivity.

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Vehicle and Equipment Idling – Replace subsection with the following:

Establish truck staging areas for diesel-powered vehicles located where the truck emissions have a minimum impact on sensitive populations, such as residences, schools, hospitals and nursing homes.

Limit idling of trucks and other diesel powered equipment to 5 minutes, when the equipment is not in use or in motion, except as follows:

- When traffic conditions or mechanical difficulties, over which the operator has no control, force the equipment to remain motionless.
- When operating the equipment's heating, cooling or auxiliary systems is necessary to accomplish the equipment's intended use.
- When the safety of contractors and their employees may be compromised if diesel equipment is turned off; for example, where employees are working in a trench.
- To bring the equipment to the manufacturer's recommended operating temperature.
- When the equipment meets the most stringent EPA emissions standards or has been retrofit with a diesel particulate filter (DPF).
- When frequent shutdowns may be detrimental to the exhaust control system, reducing the effectiveness of that system by lowering the exhaust temperature.
- When the outdoor temperature is below 20 °F.
- When the equipment requires testing, servicing, inspection, or repairs.
- Under other circumstances specifically authorized by the Owner's Representative.

Post "Five Minute Limit" anti-idling signs in high foot traffic areas of the job site, visible to workers. All nonroad diesel equipment shall have decals/prompts visible to the operator to remind them to shut down the equipment after 5 minutes of inactivity.

00290.36(a) Migratory Birds - Add the following paragraphs to the end of this subsection:

Bird management activities to comply with the Migratory Bird Treaty Act (16 U.S.C. 703 712) will be performed by the Owner. Ensure that the Owner and its permitted agents have access to the project area, including existing work platforms, as needed to prevent migratory bird nesting. Nesting prevention may include daily bird harassment and the installation and maintenance of devices that exclude birds.

Notify the Owner's Representative, in writing, a minimum of 10 calendar days prior to starting activities that could harm nesting birds. Avoid disturbing migratory bird nesting habitat (shrubs, trees, and structures) from March 1 to September 1 of each year. If avoidance is not possible, obtain approval from the Owner's Representative before falling trees or clearing vegetation that could disturb migratory bird nesting habitat between March 1 and September 1.

Add the following subsection:

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00290.36(c) Avoid Nesting - Comply with Migratory Bird Treaty Act (16 U.S.C. 703-712). Submit a migratory bird protection plan for review and approval at least 10 Calendar Days before the pre-construction conference. Include the following:

- Describe measures to avoid disturbance to migratory bird nesting habitat (vegetation, structures) from March 1 to September 1 of each year.
- Do not begin work until the migratory bird protection plan is approved.
- In the event the nesting birds or bats are encountered during construction, the Engineer may suspend the work according to 00180.85.
- APHIS-WS (a tree nesting specialist) has been contracted by the Owner to work with the Contractor to monitor and to appropriately remove any nests found.

PART 00300 - ROADWORK

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

00310.80 Lump Sum Basis - The estimated quantities of man-made material to be removed on a lump sum basis are as follows:

Item	Estimated Quantity	
Asphalt Pavement	49	Cubic Yards
Curbs	144	_ Feet
Sidewalks	1222	Square Feet

O0310.92 Separate Item Basis - Change the letter designation for "Remove and Reinstall Horse Rings" from (i) to (j).

SECTION 00320 - CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications.

00320.40(a) Clearing Trees and Other Vegitation - Add the following to the end of the subsection:

Clear trees and brush when allowed, shown, or directed, except when prohibited under Section 00290.36(a). After initial clearing, maintain all cut vegetation between 2 and 6 inches in height until grubbing can occur.

00320.40(b)(4) Tree Protection - Add the following:

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Install tree protection prior to commencement of Clearing and Grubbing. Provide Notice when tree protection is in place. If the certified arborist selected by the Owner's Representative finds the tree protection acceptable the approval will be issued within 5 Working Days of Notice. Do not begin Clearing and Grubbing prior to Owner's Representative approval of tree protection.

00320.40(b) Preserving and Trimming Vegetation - Add the following to the end of the subsection:

(5) Tree Root Removal – Remove tree roots under the direction of a certified arborist according to good tree surgery practices.

SECTION 00330 - EARTHWORK

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

00330.03 Basis of Performance - Perform all earthwork under this Section on the excavation basis.

00330.40(c) Avoidance and Correction of Detrimental Operations - Add the following:

Do not allow any construction equipment to run on the subgrade within 5 feet of any water mainline or hydrant line where it has less than 2 feet of cover.

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00330.43(a) General – Add the following:

Do not operate pneumatic-tired vehicles on the road subgrade or use compaction equipment in vibratory mode where the Work is within 5 feet of any water mainline and the cover from subgrade to top of pipe is less than 2 feet.

Measurement - Replace the first bulleted item with the following:

• Volume basis, based on PBOT's digital terrain model (DTM) calculated by End Area Volume, or by other methods of equivalent accuracy.

00330.80 Measurement - delete the second bulleted item.

SECTION 00340 - WATERING

Comply with Section 00340 of the Standard Specifications.

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PART 00400 - DRAINAGE AND SEWERS

SECTION 00405 – TRENCH EXCAVATION, BEDDING AND BACKFILL

Comply with Section 00405 of the Standard Specifications modified as follows:

00405.12(b) Water Pipe - Delete the last bullet starting with "Fine sand conforming to" Add the following:

Recycled material will not be allowed.

O0405.13 Pipe Zone Material – Add the following:

For Water Pipe Zone Material, recycled material will not be allowed.

Trench Backfill – Add the following:

For Water Pipe trenches, recycled material will not be allowed.

00405.41 (c) Trench Width - Change the Size of Water pipe range from "6 to 16 inches" to "4 to 16 inches"

00405.41(e) Disposal of Excavated Material - In the first paragraph, change 00310.43 to 00290.20(c). In the second paragraph, change 00310.43(d) to 00330.41(a)(4).

Add the following subsection:

00405.80(g) Trench Excavation, Bedding and Backfill for Inlet Lead Pipe - There will be no separate measurement for trench excavation, bedding, pipe zone, and backfill for storm sewer inlet lead pipe. These items will be considered incidental to the pay item for storm sewer inlet lead pipe.

SECTION 00440 – COMMERCIAL GRADE CONCRETE

Comply with Section 00440 of the Standard Specifications:

SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS

Comply with Section 00442 of the Standard Specifications modified as follows:

O0442.12 Proportioning of CLSM Mixture - Modify the first sentence as follows:

O0442.12 Proportioning of CLSM Mixture - Furnish a pre-approved mix design or the following, to the Engineer prior to using any CLSM on the Project:

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O0442.14 Acceptance - Replace with the following:

O0442.14 Acceptance - Acceptance will be based on either verification of mix pre-approval status or the Engineer review and approval of written certification and trial batch cylinder reports as required by 00442.12.

SECTION 00445 - SANITARY, STORM AND CULVERT PIPE

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

00445.91 Payment - Add the following pay item:

(j) _____ inch Pipe, PVC ASTM D3034 SDR35, Bedding Type: D, Complete

In item (j), the nominal pipe diameter will be inserted in the blank.

Replace paragraphs 11 "Payment for pipes" and 12 "Payment for trench" with the following:

Payment for pipes will include trench excavation, bedding, pipe, pipe zone material, trench backfill, compaction, joint materials, joining, fittings, and pipe acceptance testing.

SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS

Comply with Section 00470 of the Standard Specifications modified as follows:

00470.42 - Precast Concrete Catch Basins and Inlets - Delete the Subsection in its entirety.

SECTION 00490 – WORK ON EXISTING SEWERS AND STRUCTURES

Comply with Section 00490 of the Standard Specifications modified as follows:

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00490.43 Abandoning Pipes

(a) **General -** Drain abandoned pipes and plug per the requirements of Section 00490.43(b). Clean the interior surfaces of all pipes to be cut off or abandoned, as approved. Fill abandoned pipes greater than 12 inches in diameter with CLSM meeting the requirements of Section 00442, or other approved material.

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(b) Permanent Plugs - Provide permanent plugs where pipes and other sewer appurtenances are abandoned, and where shown. Construct a concrete plug in each end of all pipes 18 inches or less in diameter. For pipes larger than 18 inches in diameter, the plug may be constructed of common brick or concrete block. The minimum length of concrete plug shall be 8 inches. Cover the exposed face of block or brick plug with mortar. All plugs shall be watertight and capable of withstanding all internal and external pressures without leakage. Where an abandoned pipe connects to a manhole, install the plug from the inside of the manhole, and cover the exposed end of the plug with mortar and smoothen until it is flush with the interior face of the manhole.

Output Output Ou

00490.44 Filling Abandoned Structures:

(a) Manholes and Inlets - Remove frame per 00490.45. Plug all abandoned pipes per 00490.43. Remove structure to a minimum of 3 feet below subgrade or remove entire manhole cone, whichever is greater.

Fill remainder of structure with pea gravel or CLSM meeting the requirements of Section 00442. Compact pea gravel until there is no reaction or yielding observed under the compactor. Cover in-place pea gravel with 2 mats of non-woven filter fabric, extended at least 1 foot beyond the outside walls of the structure. Backfill the landscaped or unimproved roadway sections with approved materials meeting the requirements of 00330.13. The last one foot of backfill shall use materials as shown.

00490.46(a) General - Add the following sentence:

When adjusting manhole frames, use Method "A" or "B" on PBOT Standard Drawing P-507.

00490.90 Payment - Make the following changes:

Delete the following pay item:

(i) Existing Pipe Connection to New ManholeEach

Change pay item (n) to the following:

Replace the note that begins "Item (f) applies..." with the following:

Item (f) applies to the additional work required by the complexity of installing manholes over existing sewers where no manhole currently exists. Construction, testing, measurement, and payment for the manhole will be under 00470.

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In the sentence that begins "Item (h) applies to...", delete the word "pipes," and add the following to the end of the sentence: "in 00490.44."

Delete the paragraph that begins "Under item (i)..." in its entirety.

Add the following new paragraph:

Item (n) applies to filling abandoned pipes larger than 12 inches in diameter, and includes all materials and labor required to complete the work as specified in 00490.43.

00490.91 Lump Sum Basis - Change the title of this subsection to:

Diversion of Flow – make the following changes:

In the first sentence, replace the word 'accept' with 'accepted'.

In the second paragraph, add the following at the end of the sentence, "including all work associated with temporary lateral connections".

PART 00600 - BASES

SECTION 00640 - AGGREGATE BASE AND SHOULDERS

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

Material on Hand - Replace this subsection following:

Material on Hand - Payment for stockpiled materials on hand may be allowed according to 195.53.

PART 00700 - WEARING COURSES

SECTION 00730 - ASPHALT TACK COAT

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

Scope – Replace the first paragraph with the following.

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This work consists of furnishing and placing emulsified asphalt on a prepared asphalt concrete, portland cement concrete, controlled low strength material, or other paved surface to ensure bond between lifts as specified.

Measurement – Add the following sentence.

Approximately 29 gallons of asphalt in tack coat will be required on this Project.

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

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

Change the text "Hot Mixed" in the heading and elsewhere to "Hot Mixed / Warm Mixed", and change the abbreviation "(MHMAC)" in this Section to "(MHMAC / MWMAC)".

Definitions - Add the following definition:

Minor Warm Mixed Asphalt Concrete (MWMAC) - A plant mixed, uniformly coated mixture of asphalt cement, graded aggregate and chemical or wax additives, or water injection as required to produce mixtures with similar strength, durability and performance characteristics as MHMAC, but at temperatures approximately 50° lower.

00744.11(a) Asphalt Cement - Replace the first sentence of the first paragraph with the following:

Use PG 70-22 MWMAC or MHMAC asphalt on this Project.

- **O0744.11** Asphalt Cement and Additives Add the following paragraph:
- **(c) Asphalt Additives for MWMAC** Use warm mixed asphalt additives or water injection equipment recommended by the supplier.

Add the following subsection:

O0744.42 Preparation of Underlying Surfaces - All bases and foundations on which the pavement is to be constructed shall meet the applicable Specifications and be approved prior to the start of paving. Repair existing bases and foundations according to Section 00748. Trim broken or ragged edges to firm material when directed.

Treat all paved surfaces on and against which MHMAC is to be placed with an asphalt tack coat, according to Section 00730. Immediately before applying the tack coat, clean and dry the

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surface to be tacked. Remove all material, loose or otherwise, that will reduce adhesion of the tack by brooming, flushing with water or other approved methods.

Level and compact depressed areas with MHMAC as specified or directed. Perform leveling work as a separate operation and at the locations and to the extent as shown or directed. Spread the leveling material with a paving machine, unless otherwise directed.

Protect all existing structures from the overlay operation and check and clean as necessary after the overlay.

The pavement surface shall be dry prior to the preparation work and paving. Remove existing pavement markers, recessed markers, and pavement legends prior to paving. Remove pavement legends according to 00851.40.

Tack Coat - Add the following sentence.

A tack coat is required prior to placing MWMAC on controlled low strength material base.

Compaction – Replace this subsection with the following:

Compaction - After the asphalt concrete mixture has been spread, struck off, and all surface irregularities and other defects remedied, roll it uniformly with rollers meeting the requirements of 00744.24. Unless otherwise specified, compact the asphalt concrete to a minimum of 91% MAMD. Perform finish rolling and continue until all roller marks are eliminated.

Determine compliance with density specifications by random testing of the compacted surface with calibrated nuclear gauges. Determine the density by averaging QC test performed by a CDT with the nuclear gauge in backscatter mode according to WAQTC T 8 at one random location for each 100 tons of asphalt concrete placed, but take no less than 5 tests each shift. Do not locate the center of the density test less than 1 foot from the panel edge. Calculate MAMD according to ODOT TM 305. The Engineer may waive compaction testing upon written notice.

Compaction to a specified density will not be required for the following:

Thin Pavements — Leveling patches, or where the nominal compacted thickness of a course of asphalt concrete will be less than 2 inches.

Other Areas – Temporary surfacing, guardrail flares, mailbox turnouts, road approaches, and of restricted width less than 3 feet wide or limited length, regardless of thickness.

Compact thin pavements and other areas according to 00749.45.

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SECTION 00748 – ASPHALT CONCRETE PAVEMENT REPAIR

Comply with Section 00748 of the Standard Specifications modified as follows:

00748.10 Materials - Add the following:

Controlled Low Strength Material	00442
Asphalt Tack Coat	00730
MHMAC	00744

Add the following:

Controlled Low Strength Material (CLSM) Backfill - Place the material to the lines and grades shown or directed. Allow CLSM to cure and sufficiently harden prior to paving.

00748.80 Measurement - Replace the sentence that begins with "The surfacing area will ..." with the following:

The surfacing area will be determined by horizontal measurements and limited to the dimensions shown or directed.

Delete the sentence "MHMAC will be measured according to 00744.80 as applicable."

00748.90 Payment - Replace the last sentence with the following:

No separate or additional payment will be made for excavation, geotextile, stone embankment, aggregate, controlled low strength material, asphalt concrete and water.

Delete the sentence "MHMAC will be paid according to 00744.90 as applicable."

SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications modified as follows:

Add the following subsection:

00759.47 Ramps – Working Tolerances - The working tolerance for ramp running slope and ramp cross slope, including the ramp landing, is +0.5%, measured as follows:

• Ramp running slope. Measure for overall running slope of ramps by determining elevations at the top and bottom of the ramp at the midpoint of the width of each ramp run and calculate the slope using the horizontal ramp length and difference between top and bottom elevations (i.e. the rise over the run).

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• Ramp cross slope. Measure for overall cross slope of ramps by establishing elevations at the extreme edges of the ramp at the top and bottom of the ramp and calculate the cross slope at these two locations using the horizontal ramp width and difference between elevations at the edges of the ramp (i.e. the rise over the run).

However, in no case shall the ramp running grade exceed 8.33% and the ramp cross slope exceed 2.0% as measured above, unless otherwise shown in the plans.

00759.50(a) General – Add the following:

Score concrete into squares or other shapes to match markings on similar existing surfaces in the vicinity, as shown on scoring plan, or as directed. Unless otherwise specified, score concrete with a "dummy joint" with a ¼" edge radius and joint width of ½" to ¼" to a depth of ¾" minimum.

Measurement – Replace the **Area Basis** (second) bullet with the following:

Area Basis – Measurement will be limited to the neat lines of the structure determined by horizontal surface measurements and limited to the dimensions shown or directed.

Replace the length basis (third) bullet with the following:

Length Basis - Measurement of concrete items will be along the face of the structure, from
end to end including curb tapers or depressed lengths at driveways and ramps.
Measurement of metal handrail will be along the top rail member, from center of end post
to center of end post.

00759.90 Payment - Delete the sentence that reads "Aggregate will be paid for according to 00640.90."

Add the following paragraphs:

Item (b) includes sidewalk ramps

No separate or additional payment will be made for expansion, contraction or scoring joints.

There will be no separate payment for outlet notches or sidewalk drainage notches: these items are incidental to Concrete Curbs and Planter Walls.

No separate or additional payment will be made for the aggregate used under any of the structures in this Section. The aggregate shall be incidental to the unit price of the Pay Item.

PART 00800 - PERMENANT TRAFFIC SAFETY & GUIDANCE DEVICES

SECTION 00856 - SURFACE MOUNTED TUBULAR MARKERS

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- **Materials** Replace this subsection with the following:
- **00856.10 Materials** Furnish the following materials:
 - Round flexible plastic surface mounted tubular marker/delineator, with two 3" wide bands of hi-intensity reflective sheeting, and anti-twist reactive spring unit base assembly.
 - 8" Fixed base
 - 8" Bituminous adhesive
- **O0856.40** General Replace this subsection with the following:
- 0856.40 Surface Mounted Tubular Markers:
 - (a) **General** Install surface mounted tubular markers straight and true to line at the position or spacings shown.
 - **(b) Surface Preparation** Remove contaminants from the surface which would adversely affect the bond of the adhesive.
 - Sandblast or steel shot blast the surface to remove all surface contaminants. Use a blast of clean air to remove all loose particles from the surface.
 - **(c) Installation** Bond the surface mounted tubular markers to the surface using an adhesive recommended by the manufacturer according to the manufacturer's recommendations.

Apply adhesive for surface mounted tubular marker to a clean, dry surface.

Do not install on a joint or crack. To avoid longitudinal cracks and joints, adjust the base up to one half the width of the base. To avoid transverse cracks and joints, adjust base ahead or back of the line plus or minus five inches.

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

Pay Item Unit of Measurement (a) 36" Surface Mounted Tubular Markers......Each

At the end of the subsection, add the following line:

No separate or additional payments will be made for preparation work or cleaning up.

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SECTION 00861 – CURB MARKINGS - PAINT

Section 00861, which is not a Standard Specification, is included in this project by special provision.

Description

O0861.00 Scope - In addition to the requirements of Section 00850, install painted curb markings according to the following Specifications.

Materials

00861.10 Materials – Furnish materials for curb paint from the CPL only.

Construction

10861.45 Installation - Apply painted curb markings as follows:

- Apply painted curb markings by brush or roller.
- Apply two separate applications of painted curb markings.
- Apply each painted curb marking application to achieve full coverage at a uniform thickness.
- Remove any concrete curing compound from the curb before application of paint or pavement markings.

Measurement

Measurement – The quantities of painted curb markings will be measured on the length basis, to the nearest foot. Painted curb marking width will be based on a nominal painted dimension of up to 12 inches. If the painted curb marking width is greater than 12 inches, measurement will be adjusted by converting to an equivalent length of nominal 12 inch painted curb marking width on a proportionate area basis.

Payment

Payment – The accepted quantities of painted curb markings will be paid for at the Contract unit price, per foot, for the item "Curb Markings – Paint".

Payment will be payment in full for furnishing and placing all material, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

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SECTION 00865 - LONGITUDINAL PAVEMENT MARKINGS - DURABLE

Comply with Section 00865 of the Standard Specifications modified as follows:

0865.45 Installation – Replace the bullets following the paragraph beginning with "Apply marking materials by one or more of the following methods" with the following:

- Method A: Extruded Markings Apply markings with an extrusion or ribbon type process and according to the following:
 - For grooved markings, grind the slot depth as shown. Apply the specified marking materials into the slot so the slot is filled from edge to edge as shown. The top of the marking shall be flat or slightly convex.
 - o For profiled markings, place lines and bumps straight and square.
- Method B: Spray Markings apply two separate applications of spray markings with each application being one half the total specified thickness. Retrace the second application directly over the first application within 1/16 inch. For white colored markings, apply the second application in the same directions of the first applications. For yellow colored markings that delineate two-way traffic, apply the second application in the opposite direction of the first application. For yellow colored markings on one-way roadways, apply the second application in the same direction as the first application.
- **Method C: Pavement Marking Tape** Do not place tape continuously on longitudinal pavement joints. Apply pavement marking tape as follows:
 - Rolled-In Installation apply the tape to the fresh asphalt concrete surface prior to the final rolling of the mat. Roll the tape into the fresh surface during the finishing of the mat.
 - Grooved installation Grind slot depth to 130 to 150 mils with a smooth, uniform, and flat bottom. Apply tape into slot.
- Method AB: Non-Profiled Extruded or Sprayed Markings Install Method A surface, non-profiled markings or Method B markings.

Measurement

Measurement – Change the first sentence in the paragraph to read "The quantity of durable longitudinal pavement marking will be measured on the length basis."

Payment

O0865.90 Payment – Replace the Pay Items and Unit of Measurement in the first paragraph as follows:

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Pay Item

Unit of Measurement

Method A (Extruded)

(a) Methyl Methacrylate, Extruded,,, Foot (b) Thermoplastic, Extruded,, Foot
Method B (Sprayed)
(c) Methyl Methacrylate, Sprayed, Surface, Non-ProfiledFoot (d) Thermoplastic, Sprayed, Surface, Non-ProfiledFoot
Method C (Pavement Marking Tape)
(e) Pavement Marking Tape,Foot (f) Pavement Marking Tape, Wet Weather,Foot
Method AB (Non-Profiled Extruded or Sprayed)
(a) Methyl Methacrylate Extruded or Sprayed Surface Non-Profiled Foot

- (g) Methyl Methacrylate, Extruded or Sprayed, Surface, Non-Profiled.....Foot
- (h) Thermoplastic, Extruded or Sprayed, Surface, Non-Profiled......Foot

In items (a) and (b), the word "Surface" or "Grooved" will be inserted in the first blank and the word "Profiled" or "Non-Profiled" will be inserted in the second blank.

In items (e) and (f) the word "Rolled-In" or "Grooved" will be inserted in the blank.

SECTION 00867 – TRANSVERSE PAVEMENT MARKINGS – LEGENDS AND BARS

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

Add the following subsection:

00867.31 Manufacturer-Certified Installers - Provide certified installers according to 00850.31

00867.40 General - Replace this subsection, except for the subsection number and title, with the following:

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Install pavement markings legends and bars in material type specified on the plans and listed on the CPL or approved equal with the exception of white Alta-Grip Series-50 Acrylic Area Marking Anti-Skid Surface Treatment.

00867.45 Installation - Replace the bullet that begins "Type B: Preformed..." with the following two bullets:

- Type B: Preformed, Fused Thermoplastic Film Install preformed, fused thermoplastic film as shown. All Type B markings shall be 125 mils thick.
- Type B-HS: Preformed, Fused Thermoplastic Film High Skid Install preformed, fused thermoplastic film high skid, that has intermixed reflective elements with factory installed crushed glass or aggregate on the surface. All Type B-HS bike facility markings shall be 90 mils thick. All other Type B-HS markings shall be 125 mils thick.

00867.45 Installation – Delete the bullet that begins "Type C: Cold Applied Plastic Film..."

Manufacturer's Warranty – Add the following to the end of the subsection:

No warranty is required for Type D, Type E, or Type G pavement markings.

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

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

Pay Item

Unit of Measurement

- (a) Pavement Legend, Type BH-S Arrows..... Each
- (b) Pavement Bar, Type BH-S.....Square Foot

Item (a) includes single or multiple headed arrows as required.

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

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

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

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PART 00900 – PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS

SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications modified as follows:

00905.40 General – Add the following paragraph:

All signs that are removed and reinstalled must be reinstalled at or near their original location. Inventory all signs before removal to insure proper reinstallation.

SECTION 00920 – SIGN SUPPORT FOOTINGS

Comply with Section 00920 of the Standard Specifications modified as follows:

Add the following subsection:

Sign Support Footing Layout - Do not proceed with installation until layout is approved by the Engineer.

Measurement - Add the word and punctuation "supports." to the end of the first paragraph.

Estimated Quantity

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

The estimated quantities of structural steel are as follows:

	Item	(Pound)		
	Pipe Sign Supports	137		
00930.90	Payment – Add the following pay item in the subsection "Minor Sign Support			
	(r) Bike Rack Sign Supports	Each		

SECTION 00930 - METAL SIGN SUPPORTS

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

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J ,	Paving,	1 0,	Signing,	
Illumination, Signals, Roadside Development				

Definitions and Terms - Add the following definition to the list of definitions:

Mast Arm Street Name Sign Mounts - This group includes the frame members, attachment channel or bracket, steel bands or cables, and fasteners necessary to install a street name sign on a signal mast arm.

Commercially Manufactured Products - Remove this subsection.

Measurement - Add the word and punctuation "supports." to the end of the first paragraph.

Estimated Quantity

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

The estimated quantities of structural steel are as follows:

	Item	(Pound)
Pip	e Sign Supports	137
00930.90	Payment – Add the following pay item in the	ne subsection "Minor Sign Supports"
	(r) Bike Rack Sign Supports	Each

SECTION 00940 - SIGNS

Comply with Section 00940 of the Standard Specifications modified as follows:

Drawings - Replace this subsection with the following:

O0940.03 Drawings - Artwork and details for all non-standard signs, except street name signs, will be made available to the Contractor by the Engineer. Contractor will submit shop drawings for all street name signs to the Engineer for approval prior to sign fabrication. Standard signs called for in the Contract Documents shall be constructed using drawings available in FHWA's "Standard Highway Signs" (FHWA English Version), ODOT's "Sign Policy and Guidelines for the State Highway System" or PBOT's "Sign Library". The ODOT sign policy is available for purchase from the ODOT Procurement Office, Salem.

General - Replace the table with the following:

Sign Size Acceptable Substrate Materials

Up to 20 square feet Sheet aluminum

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Over 20 square feet Extruded aluminum panels

Replace the paragraph that begins "Street name signs..." with the following:

Type "W12" parking signs shall be manufactured on aluminum composite substrate regardless of size.

00940.45 Legend Installation - Delete subsections (d) and (e).

100940.46 Inspection - Replace the sentences that begin "Inspection will..." and "Testing for..." with the following sentence:

Inspection will be for conformance to the plans and Specifications, and for conformance to nighttime visibility.

00940.47 Sign Erecting - Insert the following paragraph after the paragraph that begins "Where signs are mounted...":

When signs are mounted on pipe sign supports one support may be used for signs up to 12 square feet in area. For signs over 12 square feet in area two supports must be used. Pipe sign supports may not be used to mount signs with extruded aluminum substrates.

SECTION 00950 - REMOVAL AND REINSTALLATION OF ELECTRICAL SYSTEMS

Comply with Section 00950 of the Standard Specifications modified as follows:

Removal and Abandonment - Replace second paragraph with the following: If a foundation is abandoned, remove the top of the foundation, anchor bolts, and conduits to a depth not less than 5 feet below the adjacent finished ground line. Backfill resulting holes with material equivalent to the surrounding material. Finish and blend the surface area to the adjacent surface area.

O0950.42 Stockpiling Existing Materials - Salvage and stockpile the following materials at the location indicated. Contact Bureau of Maintenance electrical foreman at 503-823-6755 to confirm delivery 2 City of Portland working days prior to removal and delivery of the existing signals and illumination equipment. The electrical foreman shall determine if the specified material is acceptable for delivery. All rejected material and all other material shall become the property of the Contractor and shall be removed from the site. Damaged or missing equipment shall be replaced or paid for by the Contractor.

Materials

Stockpile Location

LED luminaires

2929 N Kerby Ave

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SECTION 00960 - COMMON PROVISIONS FOR ELECTRICAL SYSTEMS

Comply with Section 00960 of the Standard Specifications modified as follows:

00960.42(f) Elbows - Replace with the following paragraph:

00960.42(f) Elbows – Use a standard factory bend where a conduit bend is required unless factory conduit bend sizes are not commercially available, or a special bend is required. Use rigid metal conduit conforming to 02920.10 if the bend is 45 degrees or more. Bends performed on the job or in the shop shall:

- Have a radius of at least 6 times the inside diameter of the conduit.
- Be bent without crimping or flattening.

00960.44(a) General - Replace second paragraph with the following:

The tops of junction boxes installed in the ground or in sidewalk areas shall be flush with the surrounding grade or top of curb. Place pull boxes shown behind curbs against the back of the curb or as approved by the Engineer. If installed in the roadway or shoulder, leave the top of junction box 1/2 inch below the pavement surface. If installed outside roadways or shoulders, install a Portland cement concrete apron around the junction box.

In the third paragraph, replace "3/4 inch - 0 crush gravel" with "pea gravel".

Cable and Wire - In the sixth paragraph, add the following sentence "In no case shall more than three spade connectors be placed under a single terminal screw."

SECTION 00962 – METAL ILLUMINATION AND TRAFFIC SIGNAL SUPPORTS

Comply with Section 00962 of the Standard Specifications modified as follows:

O0962.02 Calculations and Drawings – Replace the first sentence of the second paragraph with the following:

All engineered details and drawings which are not pre-approved by the City, but are required in the Contract Documents, shall be submitted for review prior to fabrication.

00962.05(a) Traffic Signal Mast Arm Supports – delete "non-standard" from first sentence.

In design factor table, replace 'No Galloping, Truck Speed... 50 mph' with 'No Galloping, Truck Speed...55 mph.'

00962.05(c) Illumination Supports – Replace this subsection with the following:

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00962.05(c) Illumination Supports - Design non-standard Luminaire slip base, and fixed base poles and foundations according to the AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 4th Edition" with 2001, 2002, and 2003 interim revisions. Design factors include:

Basic wind speed (3 second gust)......100 mph

Materials - Add the following to the end of the material list:

High-Strength Fasteners......02560.20

Replace second bullet of second paragraph with the following:

 Provide all other steel sheet and plate meeting the requirements of ASTM A 572, or approved equal.

00962.41(b) Disposition of Waste Materials - Replace this subsection with the following:

00962.41(b) Disposal of Materials - Dispose of all materials according to 00290.20.

Coating – Replace the bullets in this section with the following:

- Transit Blue MC-Luster (W211.0233)
- Historic Black MC-Luster (W211.79)
- Portland Green MC-Luster (W211.0227)
- Gold MC-Luster (W211.0226)
- Cascade Green MC-Luster (W211.0225)
- Chinatown Red MC-Luster (W211.0261)
- Silver MC-Luster (W211.82)
- Transit Mall Dark Silver MC-Luster (W211.8002)

SECTION 00970 – ILLUMINATION

Comply with Section 00970 of the Standard Specifications modified as follows:

Output Output Ou

The photocontrol electronic relay shall be Ripley LongLife II Photocontrol Model 6390LL-BK or approved equal

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00970.43(c)(2) Lamp Size and Identification Decal Code

TABLE 00970-1A – Add the following:

Lamp Identifying Wattage Number

LED Consumed Power

TABLE00970-1B – Add the following:

Lamp Background

Type Color LED White

SECTION 00990 - TRAFFIC SIGNALS

Comply with Section 00990 of the Standard Specifications modified as follows:

O0990.90 Payment – Add the following to the end of this subsection:

In pay items (b) and (c), delete the "s" in the words "Modifications" and "Detectors" respectively.

PART 01000 - RIGHT OF WAY DEVELOPMENT AND CONTROL

SECTION 01030 - SEEDING

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

01030.13(f) Types of Seed Mixes - Provide the following seed mix formulas:

• Lawn Seeding: Use a mixture of 100% perennial ryegrass as approved by the Engineer. The seeding rate shall be 6-8 pounds per 1000 square feet for a new lawn and 2-4 pounds per 1000 square feet to increase density of existing turf.

SECTION 01040 - PLANTING

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

01040.77(d) Seeded Lawn and Sod - Add the following:

The establishment period until final acceptance for the turf shall be 45 days.

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01040.80(b) Topsoil and Wetland Topsoil – Replace this subsection with the following:

01040.80(b) Topsoil and Wetland Topsoil – Topsoil will be measured by the cubic yard by the following method:

Invoice – Topsoil will be measured based on material supplier invoices. The invoice shall identify the Project, the material, the date, and the volume.

01040.90(d) Plant Materials - Replace the last paragraph with the following:

If the Contractor requests partial payment for plant materials on hand, payment will be made according to 00195.53.

01040.90(g) Miscellaneous - Add the following bullet item to the list:

No separate or additional payment will be made for:

excavation

SECTION 01050 - FENCES

Comply with Section 01050 of the Standard Specifications.

PART 02000 - MATERIALS

SECTION 02001 - CONCRETE

Comply with Section 02001 of the Standard Specifications modified as follows:

02001.02 Abbreviations and Definitions

Add the following:

EPD - Environmental Product Declaration

Environmental Product Declaration - product-specific third-party verified Type III environmental declaration that provides quantified environmental data using predetermined parameters in accordance with ISO 14025 and/or ISO 21930 standards.

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Pozzolans – Replace with the following:

Pozzolans - a siliceous or silico-aluminous material that will, in finely divided form and in the presence of moisture, chemically react with calcium hydroxide at ordinary temperatures to form compounds having cementitious properties.

02001.31(b) Pozzolans - After the phrase "Except for HPC," add the word "pozzolans".

O2001.35 Required Submittals for Mix Designs – Add the following:

(I) Environmental Product Declaration – For concrete mix designs used during the course of the project in a total amount of 50 cubic yards or more, provide the product-specific Type III Environmental Product Declaration (EPD) that is third-party verified and within its 5-year period of validity for that specific concrete mix design. The EPD shall be submitted to the Bureau of Environmental Services' Materials Testing Lab (at concreteEPD@portlandoregon.gov) along with the other mix design information required per section 02001.35.

Add the following subsection:

02001.70 – Concrete Mix Usage Reports - The Contractor shall work with their concrete suppliers to submit, on a quarterly basis, a concrete mix usage report containing the following fields:

- 1. Customer Name
- 2. Project Name
- 3. Delivery Site Address
- 4. Date
- 5. Ticket Number
- 6. Plant Number
- 7. Plant Name
- 8. Mix ID/Number
- 9. Mix Name/Description
- 10. Compressive Strength @ 28 days
- 11. Design W/CM Ratio
- 12. Portland cement (Pounds/Cubic Yard)
- 13. Fly ash pozzolan (Pounds/Cubic Yard)
- 14. Slag pozzolan (Pounds/Cubic Yard)
- 15. Other pozzolan (Pounds/Cubic Yard)
- 16. Volume Supplied (Cubic Yard)
- 17. Unit Price (\$/Cubic Yard)
- 18. Mix-Specific Global Warming Potential (GWP)

If the project timeframe is shorter than one calendar year quarter, then the concrete mix usage report shall be submitted at the end of the project.

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Quarterly Concrete Mix Usage Reports shall be submitted to <u>concreteEPD@portlandoregon.gov</u> by the 15th of the month following the end of the applicable calendar-year quarter.

SECTION 02050 – CURING MATERIALS

Comply with Section 02050 of the Standard Specifications.

SECTION 02410 - CONCRETE AND PLASTIC PIPE

Comply with Section 02410 of the Standard Specifications.

SECTION 02450 – MANHOLE AND INLET MATERIALS

Comply with Section 02450 of the Standard Specifications.

SECTION 02630 – BASE AGGREGATE

Comply with Section 02630 of the Standard Specifications modified as follows:

O2630.10(a) Grading - In Table 02630-01, add the following sieve size line before the No. 10 sieve size line and add the following footnote at the end to the table:

No. 4 * - - - - -

Add the following subsection:

02630.10(e) Sand Equivalent for Water Pipe Zone, Bedding and Backfill - Dense-graded aggregate will be tested according to AASHTO T 176, and shall have a sand equivalent of not less than 50.

SECTION 02910 – SIGN MATERIALS

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

^{*} Report percent passing sieve when no grading requirements are listed

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- **Types of Signs** Add "BL1" "O6" "W12" and "W13" sign types and replace the "B2", "B3", "C1", "C2", "F1", "G1", "G2", "O3", "O4", "O5", "R1", "W9", and "Y7" sign types with the following:
- **"B2"** Blue Type III or Type IV sheeting background with white Type IX permanent removable legend.
- **"B3"** Blue Type IX sheeting background with white Type IX permanent removable legend or white Type IX sheeting overlaid with blue transparent paste background, with retroreflective silver-white screened legend.
- **"BL1"** Black baked enamel background with round red plastic prismatic reflectors mounted symmetrically on the sign.
- **"C1"** Brown Type III or Type IV sheeting background with white Type IX permanent or removable legend.
- **"C2"** Brown Type IX sheeting background with white Type IX permanent or removable legend or white Type IX sheeting overlaid with brown transparent paste background, with retroreflective silver-white screened legend.
- **"F1"** White Type IX sheeting background overlaid with red and blue transparent paste background with white Type IX permanent legend.
- "G1" Green Type III or Type IV sheeting background with white Type IX removable legend.
- "G2" Green Type III or Type IV sheeting background with white Type IX removable legend.
- **"G3"** Green Type IX sheeting background with white Type IX permanent legend, or white Type IX sheeting background overlaid with green transparent paste background with retroreflective silver-white screened legend.
- "G4" Green Type IX sheeting background with white Type IX removable legend.
- **"G5"** White Type IX sheeting background overlaid with green transparent paste background and screened red and green transparent paste rose with retroreflective silver-white screened legend.
- **"O3"** Fluorescent orange Type VIII, or Type IX sheeting background with black nonreflective permanent legend and red retroreflective symbol (Stop or Yield Ahead Symbol Sign).
- **"O4"** Fluorescent orange Type VIII, or Type IX sheeting background with black nonreflective permanent legend.

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- **"O5"** Fluorescent orange Type VIII, or Type IX sheeting background with black nonreflective removable legend.
- **"O6"** Fluorescent orange Type VIII, or Type IX sheeting background with black nonreflective permanent legend and red, yellow, and green Type VIII and Type IX circles. (Signal Ahead Symbol Sign)
- **"R1"** White Type IX sheeting background overlaid with red transparent paste background with white Type IX permanent legend.
- **"W9"** Silver-white Type III or Type IV sheeting background with blue nonreflective screened or cut-out permanent legend.
- **"W12"** Aluminum composite substrate overlaid with nonreflective black, red, green, brown, orange and/or blue screened permanent legend. (Parking Sign).
- **"W13"** Silver-white Type III or Type IV sheeting background with black nonreflective screened or cut-out permanent legend overlaid with red and green transparent paste legend.
- "W14" White Type III of IV sheeting with non-reflective, dark-grey, digitally-printed background covered with clear 3M ElectroCut Film Series 1170, or approved equal. The color of the dark grey background shall be Pantone Matching System 433C, or approved equal. (South Waterfront District Ground Mounted Street Name Sign)
- "W15" White Type IX sheeting with non-reflective, dark-grey, digitally-printed background and red/green digitally printed rose legend, covered with clear 3M ElectroCut Film Series 1170, or approved equal. The color of the dark grey background shall be Pantone Matching System 433C, or approved equal. (South Waterfront District Overhead Signalized Intersection Street Name Sign)
- **"Y7"** Fluorescent yellow Type IX sheeting background with black nonreflective screened or cut-out permanent legend and red Type IX symbol. (Stop or Yield Ahead Symbol Sign)
- **O2910.10** Aluminum Add the following sentence to the end of the paragraph that begins "Fabricate sheet aluminum signs...":

Street name signs shall all be a thickness of 0.125" regardless of width.

Add the following subsection:

2910.11 Aluminum Composite Substrate

Fabricate aluminum composite substrate by sandwich construction using a 0.125" thick thermoplastic core bonded to two sheets of 0.021" thick aluminum. Finish substrate with white resin-based coating on face of sign and gray resin-based coating on back of sign. The resin-

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based coating shall be Kynar 500 PVDF (polyvinylidene fluoride) or approved equal. Finished substrate shall conform to ASTM D-638, ASTM C-393 and ASTM D-732 strength requirements.

02910.20(a) General - Replace the sentence that begins "Use reflective sheeting..." with the following sentence:

Use reflective sheeting Type I and retroreflective sheeting Type III, Type IV, Type VIII, and Type IX from the QPL and the following:

02910.32(b) Reflective Sheeting Legend - In the paragraph that begins "The silver-white or...", replace the sentence that begins "The white retroreflective sheeting..." with the following sentence:

The white retroreflective sheeting shall consist of Type IX sheeting conforming to 02910.20.

Add the following subsection:

__

02910.33(f) Nonreflective Legends for Type "W12" Signs

The screen process ink for Type "W12" sign legends shall be Naz-Dar 59000 Series Enamel Plus Gloss Screen Ink in the following colors, or approved equal:

59111	Black
59106	Scarlet Red
59LF142	Emerald Green
59440	Process Blue
59LF124	Brilliant Orange
59114	Medium Brown

02910.75 Manufacturer's Warranty - Replace the paragraph that begins "For retroreflective Type III..." with the following paragraph:

For retroreflective Type III and Type IV sheeting used for permanent signs, provide a Warranty, for a Warranty period of 10 years, for restoring sign panels and replacing sheeting if the sheeting has failed as defined below.

In the paragraph that begins "For purposed of the Warranty...", replace the bullet that begins "70% of minimum coefficient...", with the following bullet:

 70% of minimum coefficient of retroreflection for designated sheeting or cuttable film according to ASTM D 4956 for the remaining 3 years of the Warranty period for Type III and Type IV sheeting and remaining 5 years of the Warranty period for Type IX sheeting.

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SECTION 02920 - COMMON ELECTRICAL MATERIALS

Comply with Section 02920 of the Standard Specifications modified as follows:

02920.11 Nonmetallic conduit - Replace this subsection with the following:

Nonmetallic conduit - Furnish nonmetallic conduit conforming to the following:

- Rigid Nonmetallic Conduit Heavy wall, extruded, rigid polyvinyl chloride (PVC) shall meet the requirements of Article 352 of the NEC and shall be UL 651 listed, Schedule 80 Rigid PVC Conduit as shown
- Liquid-Tight Flexible Nonmetallic Conduit Liquid-tight, flexible nonmetallic conduit shall meet the requirements of Article 356 of the NEC and shall be UL 1660 listed.
- **High Density Polyethylene Conduit (HDPE)** HDPE conduit shall meet the requirements of Article 353 of the NEC and shall be UL 651A listed, Schedule 80. The conduit shall lay flat when unwound and not assume an exaggerated spiral configuration.

02920.14(a) General – add the following after the first paragraph:

Junction boxes and covers in incidental vehicle traffic areas shall be rated Tier 22 for the box, and Tier 15 for the lid according to ANSI/SCTE 77-2010.

02920.14(b) Metal Junction Boxes – Replace the last paragraph with the following:

Flush-mounted boxes shall be outside flanged with recessed, non-slip covers.

02920.14(c) Concrete Junction Boxes – Replace the entire section with the following:

Concrete junction boxes and covers shall be precast concrete, water meter type. Covers shall have a skid-resistant surface, and bolt to the junction box with recessed stainless steel hex-head bolts. All covers shall be recessed and fit the box so that when the cover is set in the box, the top of the cover shall be even with the top of the box, with not more than 1/8 inch gap between any part of the top edge of the cover and the inside lip edge of the box.

Steel lids shall be galvanized and bonded.

Add the following two Sections:

02920.14(d) Polymer Junction Boxes – Polymer concrete junction boxes and covers shall be precast water meter type. Material shall consist of aggregate bonded with a polyester resin and reinforced with fiberglass strands. The box and cover shall be gray in color. Covers shall have a skid-resistant surface and bolt to the junction box with recessed stainless steel hex-head bolts.

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All covers shall be recessed and fit the box so that when the cover is set in the box, the top of the cover shall be even with the top of the box.

02920.14(e) Hybrid Junction Boxes – Hybrid junction boxes and covers shall be constructed of polymer, fiberglass, or polymer concrete. Materials shall be resistant to temperature extremes and ultraviolet light exposure. Covers shall have a skid-resistant surface and bolt to the junction box with recessed stainless steel hex-head bolts. All covers shall be recessed and fit the box so that when the cover is set in the box, the top of the cover shall be even with the top of the box.

02920.22 Cable – In the listed items, replace "No. 19 AWG stranded or solid individual conductors" with "No. 22 AWG solid individual conductors".

02920.28 Conduit Plug – Remove the second bullet item 'Duct Seal'.

SECTION 02926 – ILLUMINATION MATERIALS

Comply with Section 02926 of the Standard Specifications modified as follows:

02926.41 (e) Photoelectric Relay - Replace with the following paragraphs:

02926.41 (e) Photoelectric Relay – The photoelectric relay shall attach to a three-pole three-wire locking receptacle by a twisting motion.

The photo cell shall be a silicon phototransistor with an infrared-filter.

The factory set turn-on shall be 1.5 foot-candle plus or minus 0.25 foot-candle at 120 V AC. The factory set turn-off shall be 2.25 foot-candle at 120 V AC. The maximum off-to-on ratio shall be 1.5:1. A time-delay control circuit shall prevent false turn-offs by transient light conditions. Time delay off shall be 3 to 5 seconds. The turn-on response time shall be less than 0.5 seconds.

Provide a fail-safe circuit for the lighting load to remain on, or become energized, if any functional failure of the photoelectric control circuit occurs.

Normal operation shall be designed for dual voltage operation of 105 V - 305 V, 60 Hz. At the designated voltage, the relay shall be capable of controlling a minimum lamp load of 1000 W.

Power consumption shall be less than 0.5 W.

Operating temperature range shall be from -40° F to 158° F.

The unit shall have built-in surge protection for high-voltage of 640 Joule MOV rated at 40,000 amps with secondary protection.

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The unit shall provide cross switching for protection from high inrush currents found in LED technology.

The dielectric strength shall be 5000 V between parts carrying current and metal surfaces.

The unit shall meet or exceed the requirements of ANSI C136.10.

The unit shall be RoHS compliant.

The unit shall have a design life of 20 years or more. The warranty shall be 12 years or more.

The gasket must be stable and have 0% shrinkage.

Add the following Section:

02926.53(d) LED Luminaires

Approved LED Luminaires are provided in the Electrical Equipment and Materials List.

PART 03000 - MATERIALS

SECTION 03010 – FENCING MATERIALS

Comply with Section 03010 of the Standard Specifications.