



Council Business Meeting

February 6, 2024

Agenda Item	Award of Construction Contract for Ivy Morton Waterline Project	
From	Jason Strait PE Scott Fleury PE	Project Manager Public Works Director
Contact	jason.strait@ashland.or.us Scott.fleury@ashland.or.us	
Item Type	Requested by Council <input type="checkbox"/> Update <input type="checkbox"/> Request for Direction <input checked="" type="checkbox"/> Presentation <input type="checkbox"/>	

SUMMARY

Before the Council is a request to approve a public improvement contract with Central Pipeline to install a new waterline from Morton Street to Ivy Lane. The Ivy Morton Waterline project is an approved part of the Capital Improvement Plan (CIP) and a key project identified for implementation as part of the approved 2020 Water Master Plan. Bids were received from two contractors with Central Pipeline providing the low bid at \$1,187,680. If the contract is approved staff will work with the contractor to develop a schedule to perform onsite activities during the Spring and early Summer of 2024.

POLICIES, PLANS & GOALS SUPPORTED

City Council Goals, Visions and Values:

- Public Safety, including emergency preparedness for climate change risk
- Quality infrastructure and facilities through timely maintenance and community investment
- Essential Services
- Infrastructure

Department Goals:

- Maintain existing infrastructure to meet regulatory requirements and minimize life cycle costs.
- Deliver timely life cycle capital improvement projects.
- Maintain and improve infrastructure that enhances the economic vitality of the community.
- Evaluate all city infrastructure regarding planning management and financial resources.

PREVIOUS COUNCIL ACTION

The Council approved the 2020 Water Master Plan in August of 2020. The Ivy Morton Waterline is a recommended project within the 2020 Water Master Plan. The Council also approved the 2023-2025 CIP at the April 4, 2023 Business Meeting ([Staff Report](#)) and the budget which appropriated funds for the project at the June 6, 2023 Business Meeting.

BACKGROUND AND ADDITIONAL INFORMATION

The Ivy Morton Waterline Project has been a part of both the 2012 and 2020 approved Water Master Plans. The proposed project serves two primary purposes. The first is to connect the Crowson 8 and 4 pressure zones and eliminate the South Mountain pump station which currently provides water to Crowson zone 4. The South Mountain pump station is in poor condition and must undergo significant repairs if not taken out





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of service. The second purpose is to provide higher fire flow rates within Crowson zone 4, which the current South Mountain pump station cannot achieve.

The invitation to bid for the Ivy Morton Waterline Project was posted on OregonBuys, Oregon's procurement network on November 02, 2023. Notice was given in the Daily Journal of Commerce and placed on the City's website the following day. Bids were received on December 19, 2023, with two contractors submitting bids. Both bids were deemed responsive and contained the required bonds, documentation, and acknowledgements. Bidding information is shown on the attached bid summary form (Attachment #1).

Project Description:

Install approximately 2,000 feet of buried, new, 12" class 54 ductile iron pipe from Morton Street along Waterline Road and then from Waterline Road up to Ivy Lane as shown in Attachment #3.

The pipeline will run over City rights of way and property recently acquired by Parks and Recreation. The planning process has been implemented and the notification and comment period has closed. The project will involve the removal of multiple trees identified in the plans (15) and possible additional trees which may be damaged by the installation of the pipe. The project has an engineer approved erosion and sediment control plan.

Following pipeline installation, the road will be restored and seeding, and revegetation completed as per the Oregon Standard Specifications and the Special Provisions (Attachment #4).

FISCAL IMPACTS

The Ivy Morton Waterline project is funded within the water fund using current appropriations for the biennial budget. The project will be cash funded from water rate revenues collected as outlined in the Hansford Economic Consulting water rate analysis previously presented to Council. This project will also present long-term savings to the water fund by the elimination of the South Mountain pump station, saving maintenance and electrical costs.

DISCUSSION QUESTIONS

Does the Council have any questions about the Ivy Morton Waterline Project?

SUGGESTED NEXT STEPS

Next steps include issuing notice to proceed after award of contract and to begin coordinating the schedule of work activities with Central Pipeline. Once the project schedule is developed notification to Ashland residents directly affected by the construction will be made. Modifications to plans will be considered where possible to minimize impact.

Staff will also coordinate with the City's Communication Officer about posting appropriate information on the City's website.

ACTIONS, OPTIONS & POTENTIAL MOTIONS

- I move to award a public improvement contract to Central Pipeline for Project No. 2014-04 Ivy Morton Waterline, in the amount of \$1,187,680.
- I move to request Public Works perform a new solicitation for the Ivy Morton Waterline project.



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- I move to deny the contract with Central Pipeline for the Ivy Morton Waterline.

REFERENCES & ATTACHMENTS

Attachment #1 - 20231220 2014-04 Bid Summary Final

Attachment #2 - Central Pipeline Bid Form

Attachment #3 - Drawings

Attachment #4 - Special Provisions

CITY OF ASHLAND - ENGINEERING DIVISION

SUMMARY OF PROPOSALS

Project: Ivy Morton Water Line
 Project No.: 2014-04
 Date of Bid Opening: December 19, 2023 at 2:00 PM

Corrected Engineer's Estimate: Not Available
 No of Addenda: 1

	1	2	3	4	5
Name of Bidder & Address	Northcore 36259 Hwy 226 Albany OR 97322	Central Pipeline PO Box 2430 White City OR 97508			
Sum of Bid	NA	NA			
Add Alternate (Grand Total)	(\$1,298,213.55)	(\$1,187,680.00)			
Name of Bonding Co.	Merchants Bonding Company	Old Republic Surety			
Amount of Bid Bond.	10%	10%			
Nos. of Addenda Acknowledged (should be 2)	1 of 1	1 of 1			
Completed & Signed Bid Form (including subcontract disclosure)	Yes	Yes			
Responsive Bid?	Yes	Yes			

CITY OF ASHLAND

BID AND BID SCHEDULE

NAME OF BIDDER CENTRAL PIPELINE INC

CONTACT STEVE SPARKMAN

ADDRESS P.O. Box 2430

CITY White City STATE OR ZIP 97503

TELEPHONE NO. 541-826-2659

FAX NO. 541-826-2686

EMAIL ADDRESS cp1@centralpipeline.net

To the Honorable Mayor and City Council
City Hall
City of Ashland
20 East Main Street
Ashland, Oregon 97520

In response to the City of Ashland's Invitation to Bid, this Bid is submitted as an offer by the undersigned to enter into a contract with the City of Ashland for furnishing all permits, labor, tools, machinery, materials, transportation, equipment and services of all kinds required for, necessary for, or reasonable incidental to, the completion of all the work in connection with the Ivy Morton Waterline, Project 2014-04 (hereinafter "Project") for the City of Ashland, Oregon, as described in the contract documents, including the general conditions, all applicable special conditions, plans, specifications or any supplemental documents. This offer is subject to the following declarations as to the acts, intentions and understandings of the undersigned and the agreement of the City of Ashland to the terms and prices herein submitted.

1. The undersigned has familiarized itself with the nature and extent of the Contract Documents, the project work, the site, the locality, the general nature of work to be performed by the City or others at the site that relates to the project work required by the Contract Documents, local conditions, and federal, state, and local Laws and Regulations that in any manner may affect cost, progress, performance, or furnishing of the project work.
2. The undersigned has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) examinations, investigation, exploration, tests, and studies which pertain to the conditions (subsurface or physical) at or contiguous to the site (including without limitation utility interference) or otherwise and which may affect the cost, progress, performance, or furnishing of the project work as Contractor deems necessary for the performance and furnishing of the project work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents; and no additional or supplementary examinations, investigations, explorations, tests, reports, or similar information or data are or will be required by Contractor for such purposes.

3. The undersigned has notified the City of any conflicts, errors, ambiguities or discrepancies discovered in the Contract Documents.
4. A mandatory pre-bid meeting will be held. The meeting will take place at 10:00 am on November 16th at the project location, starting from the intersection of Morton Street and Waterline Road. All statements made by the Contracting Agency's representatives shall be non-binding upon the Contracting Agency unless confirmed by written addendum.
5. It is understood that the City shall investigate and determine the qualifications of the apparent low responsive bidder prior to awarding the contract. The City shall reject any bid by a nonqualified or disqualified bidder. The City of Ashland reserves the right to reject for any good cause any or all bids, waive formalities, or to accept any bid which appears to serve the best interests of the City. The City reserves the right to reject any bid not in compliance with all prescribed public bidding procedures and requirements and may reject all bids for good cause upon a finding that it is in the public interest to do so. Evaluation of bids will be based on minimum requirements established by the specifications and compliance with conditions of the Notice to Contractors and Invitation to Bid, and compliance with City public contracting rules. Additional evaluation criteria are as follows: Demonstrated previous experience with a similar scope of work.
6. As Pre-qualification the bidder shall submit a list of at least five (5) previous projects of a similar scope to that described in this ITB as part of their bid package.
7. The deadline to file a written protest or request, pursuant to the Instructions to Bidders to change contract terms, conditions or specifications is not less than ten (10) calendar days prior to bid opening. Bid closing may be extended by the City to consider a protest or request.
8. All of the contract documents, including all plans, specifications, and drawings have been examined and an examination of the site of the proposed work, together with such investigations as are necessary to determine the conditions to be encountered have been made by the undersigned and the terms and conditions of the contract and solicitation documents are hereby accepted, and that if this Offer is accepted, the undersigned will contract with the City of Ashland, Oregon, in a form substantially similar to that attached Agreement and agree to be bound to the terms and conditions of said contract and solicitation documents.
9. It is understood that the contract drawings may be supplemented by additional drawings and specifications in explanation and elaboration thereof and, if they are not in conflict with those referred to in paragraph 1 above, they shall have the same force and effect as though they were attached, and they shall be accepted as part of the contract when issued.
10. The undersigned agrees that upon written acceptance of this bid s/he will, within ten working days, of receipt of such notice, execute a formal contract agreement with the City. The undersigned further agrees that s/he will provide the following in order to execute the contract:
 - Performance Bond and Corporate Surety Payment Bond, both in the amount equal to 100% of the awarded contract;
 - Certificates of Insurance for Liability and property damage coverage;
 - Certificates of Coverage for Workman Compensation and unemployment insurance;
 - All other bonds, permits, licenses, information, etc. as required in the contract documents.
11. It is understood that all the work will be performed under a lump sum or unit price basis and that for the lump sum or unit price all services, materials, labor, equipment, and all work necessary to complete the project in accordance with the plans and specifications shall be furnished for the said lump sum or unit

price named. It is understood that the quantities stated in connection with the price schedule for the contract are approximate only and payment shall be made at the unit prices named for the actual quantities incorporated in the completed work. If there shall be an increase in the amount of work covered by the lump sum price, it shall be computed on a basis of "extra work" for which an increase in payment will have been earned and if there be a decrease in the lump sum payment, it shall be made only as a result of negotiation between the undersigned and the Owner. Furthermore, it is understood that any estimate with respect to time, materials, equipment, or service which may appear on the plans or in the specifications is for the sole purpose of assisting the undersigned in checking the undersigned's own independent calculations and that at no time shall the undersigned attempt to hold the Owner, the Engineer, or any other person, firm or corporation responsible for any errors or omissions that may appear in any estimate.

12. The undersigned submits the unit prices as those at which s/he will perform the work involved. The extensions of the column headed "ITEM TOTAL" are made for the sole purpose of facilitating bid comparisons and if there are any discrepancies between the unit prices and the total amount shown, the unit prices shall govern.
13. The undersigned agrees to furnish labor, tools, machinery, materials, transportations, equipment and services of all kinds required for, necessary for, or reasonably incidental to, construction of this Project with all appurtenant work as required by the plans and specifications of this Offer for the unit or lump sum prices in the "BID SCHEDULE".
14. In stating prices, it is understood that the prices include all materials and work required to complete the project in accordance with the Contract Documents, the plans and the specifications. If any material, item, or service required by the plans and specifications has not been mentioned specifically in the "BID SCHEDULE," the same shall be furnished and placed with the understanding that the full cost to the City has been merged with the several prices stated in the "BID SCHEDULE."
15. The City reserves the right to cancel this solicitation or to reject any and all bids in whole or in part when the cancellation or rejection is in the best interests of the City as determined by the City in accordance with ORS 279B.100
16. The foregoing prices shall include all labor, materials, equipment, overhead, profit, insurance, and all other incidental expenses to cover the finished work of the several kinds called for.
17. If the proposed bid price will exceed \$50,000.00 the undersigned, as bidder, acknowledges that provisions of ORS 279C.800 to 279C.870 relating to workers on public works to be paid not less than prevailing rate of wage shall be included in the contract, or in the alternative, if the project is to be funded with federal funds and is subject to the Davis-Bacon Act (40 U.S.C. §276a) bidder agrees to comply with the Davis-Bacon Act requirements. "Prevailing Wage Rates for Public Works Contracts in Oregon," which are incorporated herein by reference, and can be accessed at: https://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx . The undersigned Contractor agrees to be bound by and will comply with the provisions of ORS 279C.838, 279C.840 or 40 U.S.C. 3141 to 3148. [OAR 137-049-0200(1)(a)(J)].
18. The undersigned shall furnish bonds required by the specifications and comply with the laws of the Federal Government, State of Oregon and the City of Ashland which are pertinent to construction contracts of this nature even though such laws may not have been quoted or referred to in the specifications.
19. Accompanying this Offer is a certified check, cashier's check or a bid bond, for the sum of 10%, payable to the City of Ashland, Oregon, this being an amount for ten percent (10%) of the total bid based upon the estimate of quantities at the above price according to the conditions

of the advertisement. If this Offer is accepted by the City and the undersigned fails to execute a satisfactory contract and bonds as stated in the Advertisement within ten (10) working days from the date of notification, then the City may, at its option, determine that the undersigned has abandoned the contract and there upon this Offer shall be considered null and void, and the bid security accompanying this Offer shall be forfeited to and become the property of the City of Ashland. If the bid is not accepted, the bid security accompanying this Offer shall be returned to the undersigned.

20. The undersigned certifies that the undersigned Contractor is not ineligible to receive a contract for a public work pursuant to ORS 279C.860 as well as the disqualification provisions of ORS 279C.440 and OAR 137-049-0370. Bidder further agrees, if awarded a contract, that every subcontractor will be eligible to receive a contract for a public work pursuant to ORS 279C.860.
21. The undersigned certifies that the undersigned Contractor has not discriminated against minority, women or emerging small businesses enterprises in obtaining any required subcontracts. The bidder understands and acknowledges that it may be disqualified from bidding on this public improvement project as set forth in OAR 137-049-0370, including but not limited to City discovery a misrepresentation or sham regarding a subcontract or that the Bidder has violated any requirement of ORS 279A.110 or the administrative rules implementing the Statute.
22. The undersigned agrees that the time of completion shall be defined in the special provisions, and further, the undersigned agrees to initiate and complete this Project by the date stated below.
 - The work shall be commenced within thirty (30) calendar days after receipt of the written Notice to Proceed.
 - The work shall be completed in all respects within 120 calendar days from Notice to Proceed.
 - The undersigned agrees that the "Time of Completion" shall be as defined in the special provisions and that the bidder will complete the work within the number of consecutive calendar days stated for each schedule after "Notice to Proceed" has been issued by the Owner. Bidder furthermore agrees to pay as liquidated damages, for each calendar day thereafter, the amounts shown in Standard Conditions, for each day the project remains incomplete.
23. The undersigned bidder is registered with the Oregon Construction Contractors Board (CCB), the registration is current and valid, and the bidder's registration number is stated below. [OAR 137-049-0230(1)] Bidder understands that failure to have a current CCB license shall result in rejection of this bid.
24. The undersigned bidder is licensed by the State Landscape Contractors Board, *if applicable*, the license is current and valid, and the bidder's registration number is stated below. [OAR 137-049-0200(1)(a)(K)] Bidder understands that failure to have a current LCB license shall result in rejection of this bid.
25. The undersigned is aware that no person may engage in any business within the City without first obtaining a City Business License and paying the fee prescribed pursuant to City of Ashland ordinance. The Contractor and their subcontractors shall obtain a City of Ashland Business License prior to beginning any work within the City of Ashland.
26. In determining the lowest responsible bidder, City shall, for the purpose of awarding the contract, add a percent increase on the bid of a non-resident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides. "Resident bidder" of Oregon means a bidder that has paid unemployment taxes or income taxes in this state during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid that the bidder is a "resident bidder" of the State of Oregon. The undersigned represents him/her self in this bid to be either a Resident or a Nonresident bidder by completing the appropriate blank below.

- The Bidder is X or is not _____ a Resident Bidder as defined in ORS 279A.120.
27. The undersigned hereby represents that no Councilor, Commissioner, officer, agency or employee of the City of Ashland is personally interested directly or indirectly in this Contract or the compensation to be paid hereunder and that no representation, statement or statements, oral or in writing, of the City, its Councilors, Commissioners, officers, agents or employees had induced him/her to enter into this Contract, and the papers made a part of its terms;
 28. The undersigned has not directly or indirectly induced or solicited any person to submit a false or sham bid or refrain from bidding. The undersigned certifies that this bid has been arrived at independently and submitted without connection with any person, firm or corporation making a bid for the same material and is, in all respects, fair and without collusion or fraud.
 29. The undersigned confirms that this firm has a Qualified Drug Testing Program for employees in place and will demonstrate this prior to award of contract. [OAR 137-049-0200(1)(c)(B)]
 30. The undersigned confirms that if this contract involves asbestos abatement or removal, the bidder is licensed under ORS 468A.710 for asbestos removal.
 31. The City of Ashland may waive minor informalities, reject any bid not in compliance with all prescribed public bidding procedures and requirements, and may reject for good cause any or all bids upon a finding that it is in the public interest to do so.
 32. The undersigned confirms that this offer is not contingent upon City's acceptance of any terms and conditions other than those contained in this Solicitation and the Contract Documents.
 33. The undersigned, by the act of submitting a bid, affirms that the undersigned has investigated and is satisfied as to the site subsurface condition to be encountered, as to the character, quality and quantities of work to be performed and materials to be furnished, and as to the requirements of the Contract.
 34. The bidder understands that the City reserves the right to make changes to the Notice to Contractors / Invitation to Bid and the resulting contract by written addenda, prior to the closing time and date. Addenda will be posted to the OregonBuys website for download. The bidder must check the OregonBuys website frequently until closing.

The bidder acknowledges that the Addendum(s) listed below have been reviewed online or a copy obtained and considered as part of the submittal of this Offer and Bid Schedule.

ADDENDUM NUMBER 1 THROUGH 1 HAVE BEEN REVIEWED

35. The bidder understands that the City will be awarding the contract to the Responsible Bidder with the lowest Responsive Bid per OAR 137-049-0200(1)(b)(C). Whether a bidder is responsible will be determined by ORS 279C.375 and the City's completion of the attached Bidder Responsibility Determination Form (Exhibit K).
36. Instructions for First-Tier Subcontractors Disclosure.
Bidders are required to disclose information about certain first-tier subcontractors (those subcontractors contracting directly with the bidder) when the contract price exceeds \$100,000 (see ORS 279C.370). Specifically, when the contract amount of a first-tier subcontractor is greater than or equal to: (i) 5% of the project bid, but at least \$15,000, or (ii) \$350,000 regardless of the percentage, bidder must disclose the following information about that subcontract within two working hours of bid closing:

- The subcontractor's name and address;
- The subcontractor's Construction Contractor Board registration number, if one is required, and;
- The subcontract dollar value.

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

THE CITY WILL REJECT A BID IF THE BIDDER FAILS TO SUBMIT A PROPERLY COMPLETED DISCLOSURE FORM WITHIN TWO HOURS OF BID CLOSING.

THIS DOCUMENT SHALL NOT BE FAXED. IT IS THE RESPONSIBILITY OF BIDDERS TO SUBMIT THIS DISCLOSURE FORM AND ANY ADDITIONAL SHEETS BY THE DEADLINE.

The disclosure should be submitted on the First-Tier Subcontractor Disclosure Form attached to this Invitation to Bid.

37. Bidder Information and Signature

CENTRAL PIPELINE INC
Firm Name of Bidder

SKSR
Signature of Bidder

STEVE SPARKMAN
Printed Name of Bidder

PROJECT MANAGER
Official Title

OREGON
State of Incorporation

155239
CCB Number

Dated this 19TH day of ~~OCT~~⁵ DECEMBER 2023.

Name of Bidder CENTRAL PIPELINE INC

Address P.O. Box 2430, 97503

Telephone No. 541-826-2659

Bid Item	Spec No	Item Description	Unit	Unit Quantity	Unit Price	Total Price
1	210	MOBILIZATION/DEMOBILIZATION (5% OF CONSTRUCTION COST)	LS	1	\$ 120,000.00	\$ 120,000.00
2	221	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	1	\$ 5,000.00	\$ 5,000.00
3	280	EROSION AND SEDIMENT CONTROL	LS	1	\$ 9,000.00	\$ 9,000.00
4	00280 02320	CONSTRUCTION ENTRANCE, TYPE 1	EA	1	\$ 1,500.00	\$ 1,500.00
5	1160	HYDRANT ASSEMBLY	EA	2	\$ 8,700.00	\$ 17,400.00
6	1150	DUCTILE IRON 12" GATE VALVE	EA	7	\$ 7,500.00	\$ 52,500.00
7	1140	12" DIAMETER DUCTILE IRON POTABLE WATER PIPE WITH CLASS B BACKFILL	LF	1885	\$ 450.00	\$ 848,250.00
8	645	RECYCLED ASPHALT PRODUCTS IN BASE, 6" THICK	SQYD	105	\$ 75.00	\$ 7,875.00
9	1140	BLOWOFF ASSEMBLY, 2"	EA	1	\$ 6,800.00	\$ 6,800.00
10	NA	PIPE SUPPORT PIER	CUYD	0.8	\$ 2,000.00	\$ 1,600.00
11	620	COLD PLANT ASPHALT REMOVAL, 3" DEEP	SQYD	20	\$ 100.00	\$ 2,000.00
12	445	CONCRETE PIPE SLOPE ANCHORS	EA	13	\$ 1,000.00	\$ 13,000.00
13	330	14" PIPE REMOVAL	LF	507	\$ 15.00	\$ 7,605.00
14	330	FILL ABANDONED 14" PIPE WITH CLSM	CUYD	30	\$ 200.00	\$ 6,000.00
15	610	RECONDITION EXISTING ROADWAY BY CAPPING ROAD SURFACE WITH 3" OF 1"-0 MINUS CRUSHED ROCK & ADDITIONAL FILL	TON	190	\$ 90.00	\$ 17,100.00
16	1140	DUCTILE IRON REDUCER 12" CONNECTION TO 8" CONNECTION	EA	1	\$ 1,550.00	\$ 1,550.00
17	1140	DUCTILE IRON REDUCER 12" CONNECTION TO 6" CONNECTION	EA	1	\$ 1,500.00	\$ 1,500.00
18	1140	DUCTILE IRON PIPE TEE, 12" X 12"	EA	2	\$ 5,000.00	\$ 10,000.00
19	1140	INSTALL HAND TRACER WIRE HANDHOLE ACCESS POINT	EA	1	\$ 500.00	\$ 500.00
20	1140	WATERLINE PIGGING, HYRDO-TESTING, BACTERIAL TESTING AND DISINFECTION	EA	1	\$ 7,500.00	\$ 7,500.00
21	290	REMOVE EXISTING TREES	EA	15	\$ 1,000.00	\$ 15,000.00
22	NA	POTHOLES	EA	60	\$ 300.00	\$ 18,000.00
23	NA	REMOVAL OF HARD ROCK	CUYD	10	\$ 300.00	\$ 3,000.00
24	150	PERFORM SURVEY WORK	LS	1	\$ 7,500.00	\$ 7,500.00
25	290.42	TREE PROTECTION FENCING	LF	500	\$ 15.00	\$ 7,500.00

Total \$ 1,187,680.00

STEVE SPARKMAN 1,187,680
Name of Authorized Representative *Total Written in Dollars*

SS 12/19/23
Authorized Representative Signature *Date*

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM

INSTRUCTIONS

Instructions for Submitting Form

Submit the First-Tier Subcontractor Disclosure form in any of the following manners:

- Not later than two working hours after the time set for opening Bids. (For example, before 11:00 a.m. after a 9:00 a.m. Bid Opening.) Submit according to one of the following methods:
- Print the form from the Bid Booklet, fill it in, and:
 - Deliver to the following address where it can be time and date stamped

City of Ashland
Community Development and Engineering Services Building
51 Winburn Way
Ashland, OR 97520, or

Instructions for First-Tier Subcontractor Disclosure

The City estimates that this project will exceed \$100,000. As such, Bidders are required to disclose information about first-tier subcontractors that will furnish labor or labor and materials (See ORS 279C.370) if the contract amount of a first-tier subcontractor is greater than or equal to: 1) 5% of the total bid or \$15,000, whichever is greater or 2) \$350,000, regardless of the percentage of the total project Bid.

- The name of the subcontractor
- The category of work that the subcontractor will be performing
- The dollar amount of the subcontract

If the Bidder will not be using any first-tier subcontractors as defined above, the Bidder is still required to submit the form, with the appropriate box checked or enter "NONE" on the first line.

THE AGENCY MUST REJECT BIDS if the Bidder fails to submit the disclosure form with this information by the stated deadline.

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM

Project Name JV7 MORTON WATERLINE

Project Number 2014-04

Bid Opening Date 12/19/2023

Name of Bidding Contractor CENTRAL PIPELINE INC

CHECK THIS BOX IF YOU WILL NOT BE USING ANY FIRST-TIER SUBCONTRACTORS OR IF YOU ARE NOT SUBJECT TO THE DISCLOSURE REQUIREMENTS (SEE INSTRUCTIONS)

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

(Attach additional sheets as necessary)

EXHIBIT D: BONDS (BID, PERFORMANCE, PAYMENT)

Bid Bond

We, Central Pipeline, Inc., a corporation or partnership duly organized under the laws of the State of Oregon, and authorized to transact business in the State of Oregon, as "PRINCIPAL," and,

We, Old Republic Surety Company, a corporation or partnership duly organized under the laws of the State of WI, and authorized to transact business in the State of Oregon, as "SURETY,"

hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto the City of Ashland, Oregon, (OBLIGEE) the sum of (\$ 10%) Ten percent of total amount bid and no/100*** Dollars.

The condition of the obligation of this bond, is that the PRINCIPAL herein has in response to City's *Notice to Contractors and Invitation to Bid*, submitted its Offer for the Ivy Morton Waterline Project No. 2014-14, which Offer is incorporated herein and made a part hereof by this reference, and Principal is required to furnish bid security in an amount equal to ten (10%) percent of the total amount of the bid pursuant to ORS 279C.365 and the City's public contracting rules and contract documents.

NOW THEREFORE, if the Offer, submitted by PRINCIPAL, is accepted, and if the Contract pursuant to the Offer is awarded to the PRINCIPAL, and if the PRINCIPAL executes such contract and furnishes such good and sufficient Performance and Payment Bonds as required by the Bidding and Contract documents within the time specified and fixed by the Documents, then this obligation shall be void; otherwise it shall remain in full force and effect. If the PRINCIPAL shall fail to execute the proposed Contract and to furnish the Performance and Payment Bonds, the SURETY hereby agrees to pay the OBLIGEE the surety bond sum as liquidated damages within ten (10) days of such failure.

IN WITNESS WHEREOF, we have caused this instrument to be executed and sealed by our duly authorized legal representatives this 19th day of December, 2023.

Old Republic Surety Company Central Pipeline, Inc.

Surety Principal
10260 SW Greenburg Rd, PO Box 2430, White City, OR 97503
Suite 1060, Portland, OR 97223

Address Address

By: Kristen McGillvrey By: [Signature]

Attorney-in-Fact

[A certified copy of the Agent's Power of Attorney must be attached hereto.]

IMPORTANT – Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Oregon.



OLD REPUBLIC SURETY COMPANY

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That OLD REPUBLIC SURETY COMPANY, a Wisconsin stock insurance corporation, does make, constitute and appoint:

Kristen McGillvrey, Tina A. Costa, Dean R. Pollock, Summer Hugh,
James R. Cox, David M. Holland, Ashlee Baumgartner of Eugene, OR

its true and lawful Attorney(s)-in-Fact, with full power and authority for and on behalf of the company as surety, to execute and deliver and affix the seal of the company thereto (if a seal is required), bonds, undertakings, recognizances or other written obligations in the nature thereof, (other than bail bonds, bank depository bonds, mortgage deficiency bonds, mortgage guaranty bonds, guarantees of installment paper and note guaranty bonds, self-insurance workers compensation bonds guaranteeing payment of benefits, or black lung bonds), as follows:

ALL WRITTEN INSTRUMENTS

and to bind OLD REPUBLIC SURETY COMPANY thereby, and all of the acts of said Attorneys-in-Fact, pursuant to these presents, are ratified and confirmed. This appointment is made under and by authority of the board of directors at a special meeting held on February 18, 1982.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolutions adopted by the board of directors of the OLD REPUBLIC SURETY COMPANY on February 18, 1982.

RESOLVED that, the president, any vice-president or assistant vice president, in conjunction with the secretary or any assistant secretary, may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the company to execute and deliver and affix the seal of the company to bonds, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any Power of Attorney previously granted to such person.

RESOLVED FURTHER, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the Company

- (i) when signed by the president, any vice president or assistant vice president, and attested and sealed (if a seal be required) by any secretary or assistant secretary; or
- (ii) when signed by the president, any vice president or assistant vice president, secretary or assistant secretary, and countersigned and sealed (if a seal be required) by a duly authorized attorney-in-fact or agent; or
- (iii) when duly executed and sealed (if a seal be required) by one or more attorneys-in-fact or agents pursuant to and within the limits of the authority evidenced by the Power of Attorney issued by the company to such person or persons.

RESOLVED FURTHER that the signature of any authorized officer and the seal of the company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the company; and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, OLD REPUBLIC SURETY COMPANY has caused these presents to be signed by its proper officer, and its corporate seal to be affixed this 1st day of November, 2022.

Karen J. Haffner
Assistant Secretary



OLD REPUBLIC SURETY COMPANY

Alan Pavlic
President

STATE OF WISCONSIN, COUNTY OF WAUKESHA - SS

On this 1st day of November, 2022, personally came before me, Alan Pavlic and Karen J Haffner, to me known to be the individuals and officers of the OLD REPUBLIC SURETY COMPANY who executed the above instrument, and they each acknowledged the execution of the same, and being by me duly sworn, did severally depose and say: that they are the said officers of the corporation aforesaid, and that the seal affixed to the above instrument is the seal of the corporation, and that said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority of the board of directors of said corporation.



Kathryn R. Pearson
Notary Public

My Commission Expires: September 28, 2026

(Expiration of notary's commission does not invalidate this instrument)

CERTIFICATE

I, the undersigned, assistant secretary of the OLD REPUBLIC SURETY COMPANY, a Wisconsin corporation, CERTIFY that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore, that the Resolutions of the board of directors set forth in the Power of Attorney, are now in force.



77 5930

Signed and sealed at the City of Brookfield, WI this 19th day of December, 2023.

Karen J. Haffner
Assistant Secretary

ORSC 22282 (3-06)

HUB Int'l Northwest LLC

MEDFORD WATER COMMISSION PREQUALIFICATION FORM SUPPLEMENT

(Note: The information on this form may be used by Medford Water Commission to consider whether a bidder has met the standards of responsibility as set forth in ORS 279C.375. Bidder authorizes MWC to contact any person listed on this form for the purpose of investigating responsibility. Failure to provide complete information shall be grounds for bid rejection.)

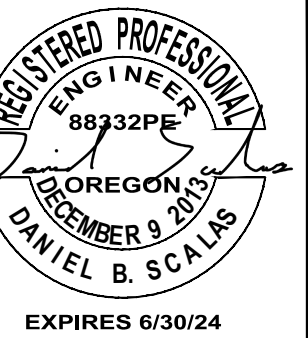
- 1) List foreman or personnel that are experienced in the installation of ductile iron water pipe, who will be on the job and wish to be prequalified:

Schuyler VanWart	
Todd Stockebrand	
Paul Sanford	
Kevin Leonardo	

- 2) List previous projects of similar size and scope where your firm and/or personnel have successfully completed ductile iron waterline work:

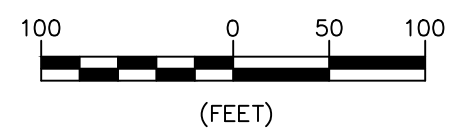
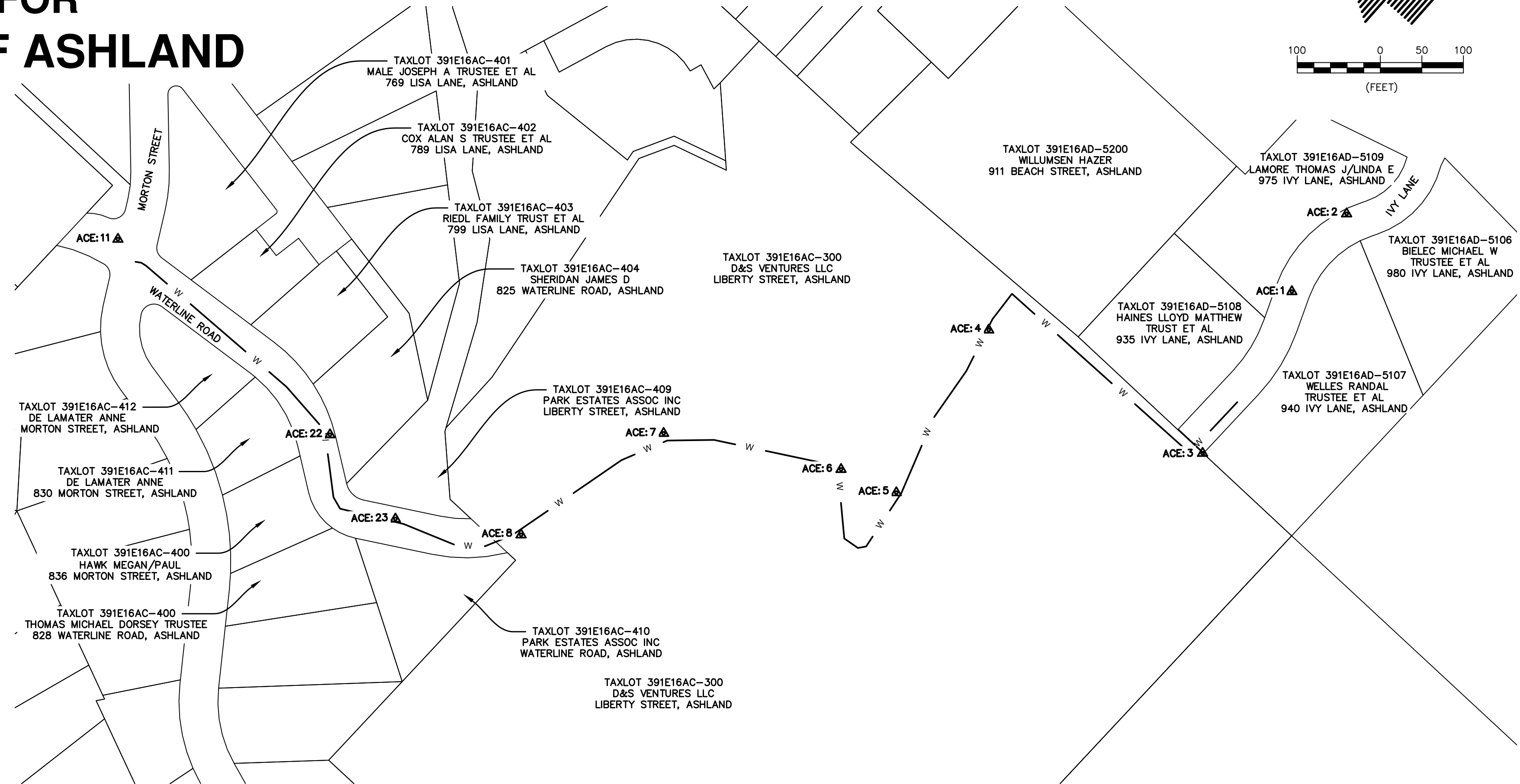
NAME OF PROJECT	ADDRESS	WATERLINE WORK DESCRIPTION	NAME OF REFERENCE	TELEPHONE NUMBER
Summerfield Phase 22	Summerfield Subdivision	New 8" waterline	Mahar Homes Inc Randy Jones	541-726-1200
Horse Arena	Colemine Road	Water/Sewer	Pacific Trend Building Dan Mahar	541-773-4385
Saddle Ridge	Saddle Ridge Subdivision	Water/Sewer	Mahar Homes Randy Jones	541-726-1200
South Stage Subdivision	Kings Highway	Water/Sewer	KDA Homes Mark Knox	541-944-7730
Kestrel Park	Ashland Oregon	Water/Sewer	KDA Homes Mark Knox	541-944-7730
Middle Fork Phase 2 & 3	Middle Fork Subdivision	Water/Sewer	Mahar Homes Randy Jones	541-726-1200

MORTON STREET TO IVY LANE WATERLINE REPLACEMENT FOR CITY OF ASHLAND



LEGEND

- EXISTING**
- RIGHT-OF-WAY OR PROPERTY LINE
 - - - - -4210- - - - CONTOUR LINE
 - - - - - w - - - - WATER LINE
 - - - - - s - - - - SANITARY SEWER LINE
 - - - - - d - - - - STORM LINE
 - - - - - g - - - - NATURAL GAS LINE
 - - - - - (EOPH) - - - - OVERHEAD POWER
 - - - - - c - - - - COMMUNICATION LINE
 - - - - - x - - - - FENCE
 - PAVED SURFACE
 - SANITARY SEWER MANHOLE
 - STORM MANHOLE
 - POWER POLE
 - WATER VALVE
 - FIRE HYDRANT
 - CORE SAMPLE
 - BLOW-OFF VALVE
- PROPOSED**
- w - WATERLINE
 - w - WATER LATERAL
 - ASPHALT PATCH
 - WATER VALVE
 - COMBINATION AIR RELEASE/VACUUM VALVE
 - BLOW-OFF VALVE



PROJECT CONTACT INFORMATION

OWNER	CIVIL ENGINEER
CITY OF ASHLAND PUBLIC WORKS DEPARTMENT 51 WINBURN WAY ASHLAND, OREGON 97520 (541) 552-2414	DANIEL SCALAS, P.E. ADKINS ENGINEERING AND SURVEYING, INC. 1435 ESPLANADE AVENUE KLAMATH FALLS, OR 97601 (541) 884-4666
CITY PROJECT MANAGER	SURVEYOR
JASON STRAIT CITY OF ASHLAND PUBLIC WORKS DEPARTMENT 51 WINBURN WAY ASHLAND, OR 97520 (541) 552-2414	ADKINS ENGINEERING AND SURVEYING, INC. 1435 ESPLANADE AVENUE KLAMATH FALLS, OR 97601 (541) 884-4666

GENERAL NOTES

- CONTRACTOR TO KEEP ALL PROPOSED PIPES ISOLATED FROM TIE-IN POINTS, AND TO COMPLETE THE PRESSURE TESTING, CHLORINATION AND BACTERIA TESTING PRIOR TO INSTALLING THE PIPE PUP JOINT.
- WATERLINE AND FITTINGS TO BE CLASS 54 DI MECHANICALLY RESTRAINED.
- CITY DOES NOT ALLOW THE USE OF GRIP TITE OR SIMILAR GASKETS FOR RESTRAINING.
- HYDRANTS TO BE KENNEDY K81D IN CHROME YELLOW.
- CONTRACTOR TO PIG ALL PROPOSED LINES.

LIST OF STANDARD DRAWINGS

RD254	- HYDRANT ASSEMBLY
RD258	- VALVE BOX ASSEMBLY
RD300	- TRENCH BACKFILL
RD302	- STREET CUT
RD332	- PIPE ANCHORS
RD1000	- CONSTRUCTION ENTRANCES
RD1005	- CHECK DAMS
RD1015	- INLET PROTECTION
RD1030	- SEDIMENT BARRIER
RD1040	- SEDIMENT FENCE
TM800	- FLAGGER DISTANCE TABLES
TM850	- 2-LANE, 2-WAY ROADWAYS

BEFORE EXCAVATING THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES. CALL OREGON 811 UTILITY NOTIFICATION CENTER AT LEAST TWO WORKING DAYS BEFORE EXCAVATING. SEE ORS 757

SHEET INDEX

SHEET	DESCRIPTION
C1	COVER & INDEX SHEET
C2	SHEET MAP
C3	PLAN & PROFILE STA 10+00 TO STA 14+00
C4	PLAN & PROFILE STA 14+00 TO STA 18+00
C5	PLAN & PROFILE STA 18+00 TO STA 22+00
C6	PLAN & PROFILE STA 22+00 TO STA 25+10
C7	PLAN & PROFILE STA 25+10 TO STA 29+00
C8	DETAILS 1
C9	DETAILS 2
C10	ESCP DETAILS
C11	ESCP & TCP DETAILS
C12	EROSION AND SEDIMENT CONTROL
C13	TRAFFIC CONTROL PLAN

UTILITY CONTACTS

CITY OF ASHLAND WASTEWATER DEPARTMENT JASON ROBUSTELLI WASTEWATER COLLECTIONS SUPERVISOR 90 N. MOUNTAIN AVE ASHLAND, OREGON 97520 (541) 488-5348	ASHLAND FIRE AND RESCUE RALPH SARTAIN 455 SISKIYOU BOULEVARD ASHLAND, OREGON 97520 (541) 482-2770	NATURAL GAS - AVISTA MIKE SMITH P.O. BOX 1709 MEDFORD, OREGON 97501 (541) 858-4728
CITY OF ASHLAND STEPHEN WALKER WATER DISTRIBUTION SUPERVISOR 90 N. MOUNTAIN AVE ASHLAND, OREGON 97520 (541) 552-2326	CITY OF ASHLAND ELECTRIC THOMAS MCBARTLETT 90 N. MOUNTAIN AVE. ASHLAND, OREGON 97520 (541) 488-5306	TELEPHONE - CENTURY LINK QN GARY TUCKER 1018 ASHLAND STREET, ASHLAND OREGON 97520 (541) 291-0072
	DEPARTMENT OF ENVIRONMENTAL QUALITY 811 SW 6TH AVE. PORTLAND, OREGON 97204 (503) 229-5876	

VICINITY MAP

N.T.S.

GEOSPATIAL REFERENCE POINT

POINT NUMBER	CONTROL POINTS			DESCRIPTION
	EASTING	NORTHING	POINT ELEVATION	
1	4324312.323'	194481.415'	2470.64'	CP1 FND BC
2	4324426.142'	194494.154'	2462.08'	CP2 SET 1/2 RPC
3	4324095.238'	194432.828'	2481.33'	CP3 5/8 RPC
4	4324035.832'	194724.062'	2366.30'	CP4 SET 1/2 RPC
5	4323815.379'	194677.471'	2369.37'	CP5 SET 1/2 RPC
6	4323792.314'	194745.879'	2370.15'	CP 6 1/2 RPC
7	4323683.289'	194934.590'	2371.52'	CP 7 1/2 RPC
8	4323478.040'	194982.040'	2372.14'	CP 8 1/2 RPC
11	4323422.957'	195581.379'	2379.66'	CP20 MAG W WASHER
12	4323619.291'	195681.116'	2336.22'	CP21 MAG W WASHER
20	4323422.957'	195581.379'	2379.66'	CP20 MAG W WASHER
21	4323619.291'	195681.116'	2336.22'	CP21 MAG W WASHER
22	4323415.788'	195234.193'	2373.42'	CP22 SET 1/2 RPC
23	4323391.958'	195107.953'	2371.90'	CP23 SET 1/2 RPC

BENCHMARK

ACE : 1
FOUND BRASS CAP CENTER LINE IVY LANE
ELEV: 2470.64 CITY OF ASHLAND DATUM

CITY PLANNING DIVISION
SITE CONSTRUCTION PERMIT SET
CITY ENGINEERING DIVISION

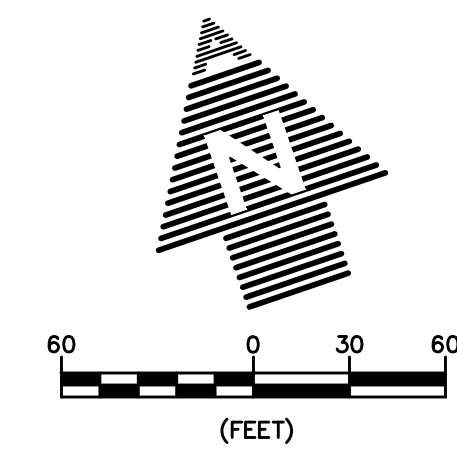
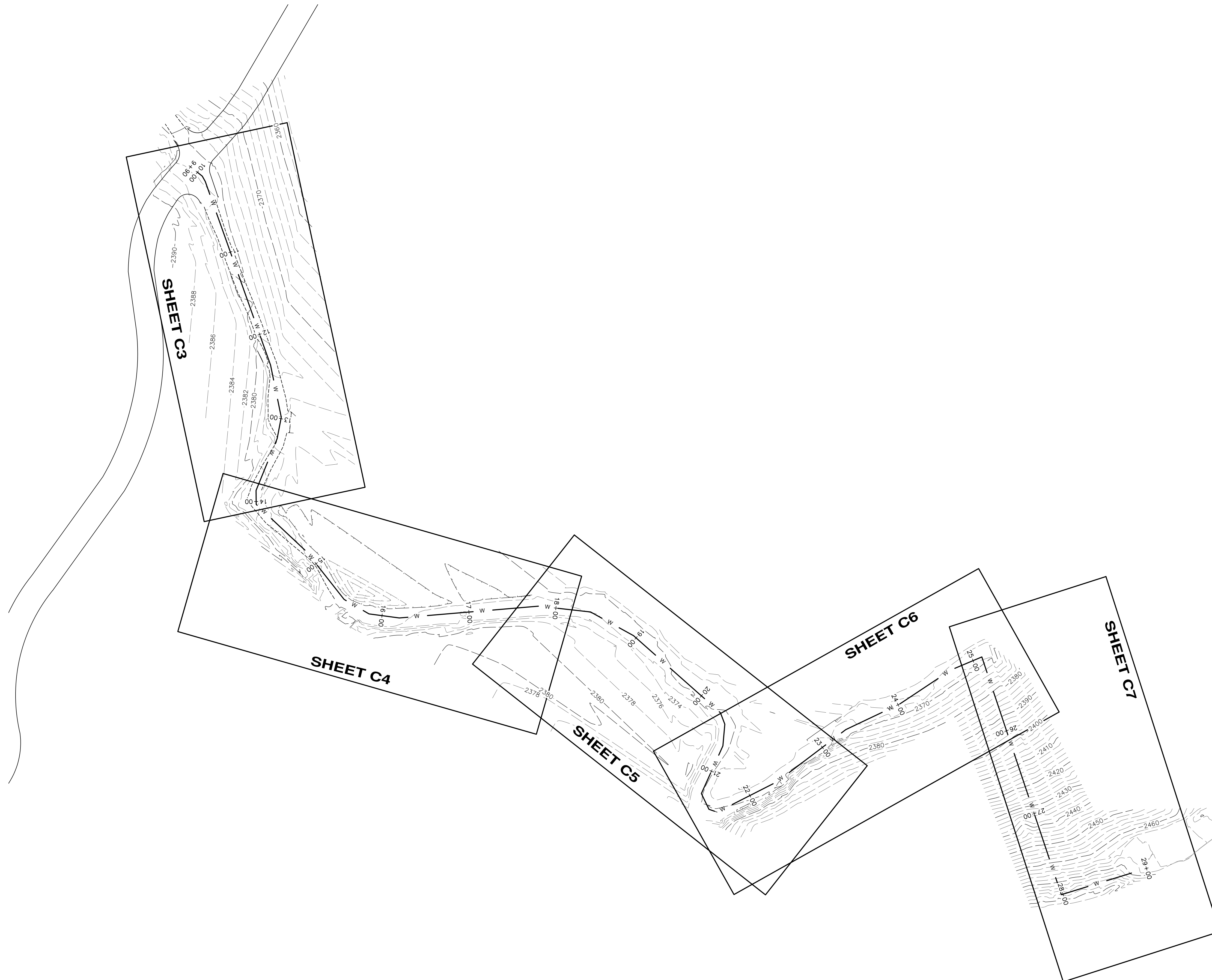
MORTON STREET TO IVY LANE
WATERLINE REPLACEMENT
CITY OF ASHLAND
COVER & INDEX SHEET

ADKINS
ENGINEERING & SURVEYING
1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601
SERVING S. OREGON & N. CALIFORNIA
ENGINEERING • SURVEYING • PLANNING • TESTING

DESIGNED BY DBS	SURVEYED BY AES	DRAWN BY NSK	CHECKED BY DBS
SCALE AS SHOWN	DATE 09/28/2023	SHEET CT OF 13	PROJ. NO. 3522-02

SHEET NUMBER:

C1



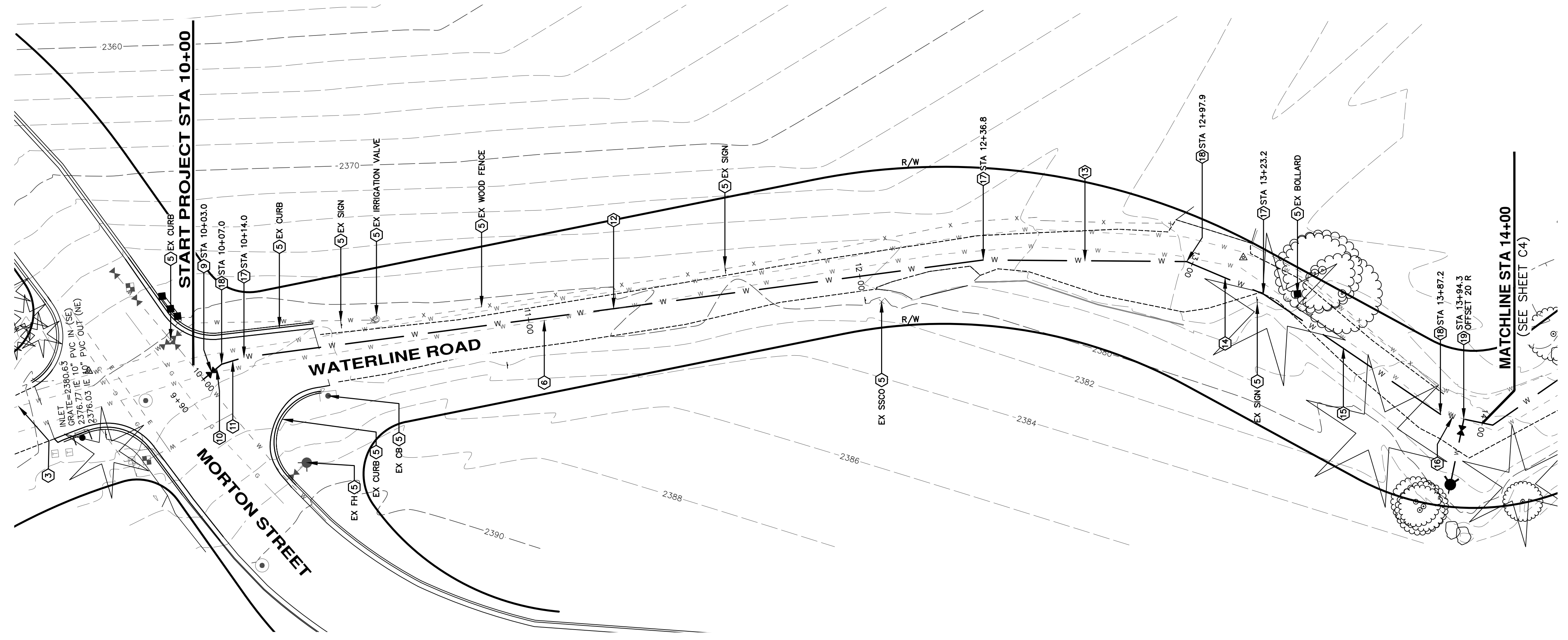
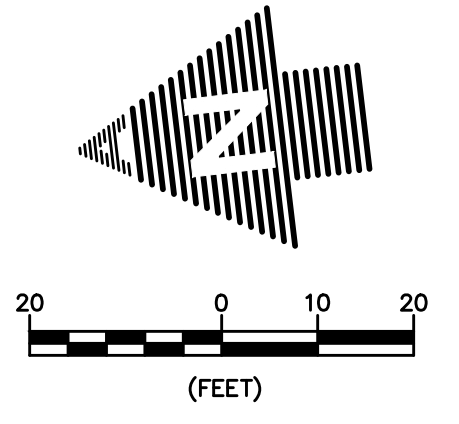
No.	REVISION	DATE	BY

**MORTON STREET TO IVY LANE
WATERLINE REPLACEMENT
CITY OF ASHLAND
SHEET MAP**

AE ADKINS o / 541.884.4666
ENGINEERING & SURVEYING w / AdkinsEngineering.com
1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601
SERVING S. OREGON & N. CALIFORNIA
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DESIGNED BY	DBS
SURVEYED BY	AES
DRAWN BY	NSK
CHECKED BY	DBS

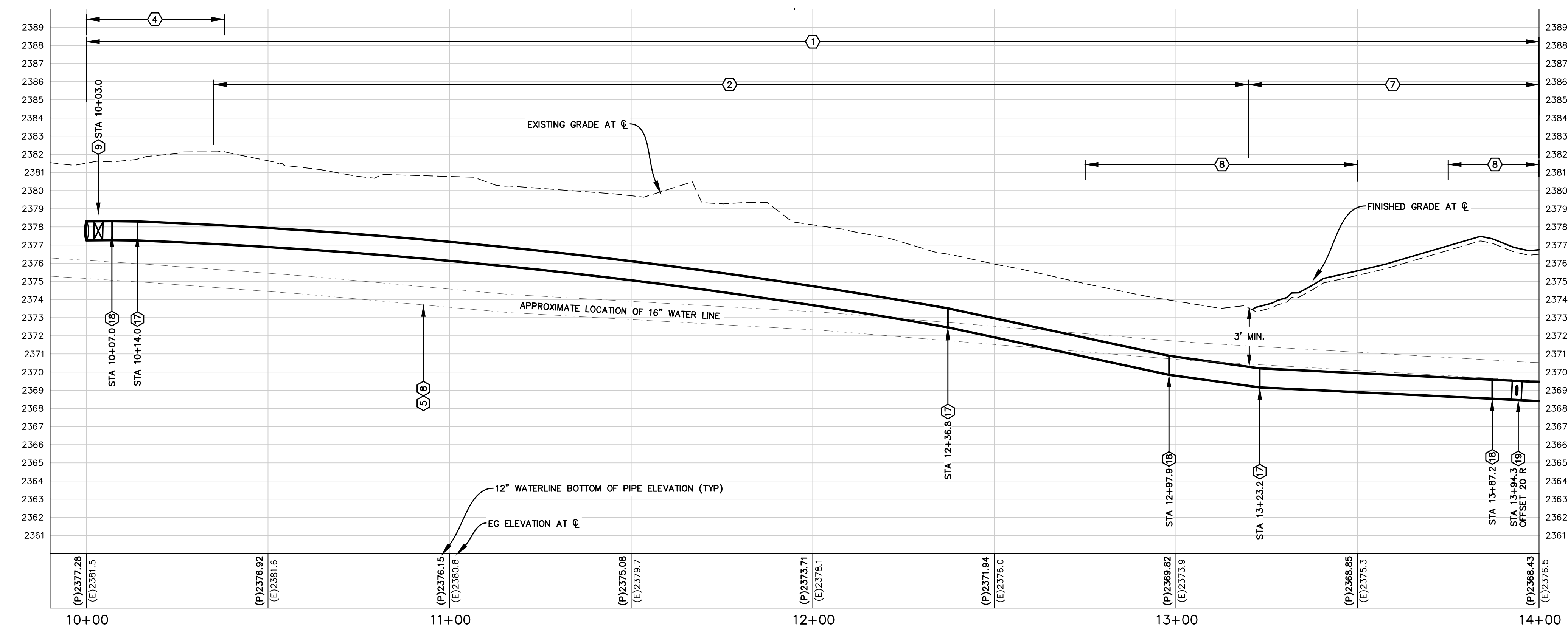
SCALE SHOWN: 09/28/2023
DATE: 09/28/2023
SHEET: C2 OF 13
PROJ. NO.: 3522-02
SHEET NUMBER: **C2**



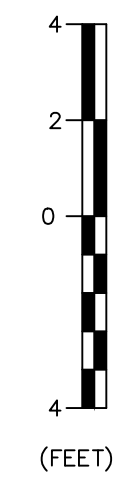
PLAN STA 10+00 TO STA 14+00

- ### CONSTRUCTION NOTES
- CONSTRUCT TRENCH, CLASS B BACKFILL, BEDDING AND PIPE ZONE PER OREGON STANDARD DRAWING NO. RD300, SHEET C9.
 - THE EXISTING STREET SURFACE FROM STA 10+35 TO STA 13+20 CONSISTS OF COMPACTED RECLAIMED ASPHALT PAVEMENT (RAP). RAP SHALL BE USED TO A DEPTH OF 6" TO CAP ALL TRENCH EXCAVATION WITHIN THIS AREA. CONTRACTOR TO PROVIDE RAP.
 - EXISTING 14" STEEL PIPE CUT AND CAPPED IN THIS LOCATION PER 2014 PLANS.
 - CONTRACTOR TO SAWCUT & REMOVE EXISTING A.C., REPLACE WITH EXISTING SECTION PLUS ADDITIONAL 1" OF A.C. PER OREGON STANDARD DRAWING NO. RD302 (MIN. 6" A.C. THICKNESS), SHEET C9.
 - PROTECT EXISTING ITEM IN PLACE, OR IF REQUIRED REMOVE AND RE-INSTALL.
 - CAP AND FILL ABANDONED IN PLACE 14" STEEL WATERLINE WITH CLSM AFTER INSTALLATION OF PROPOSED WATERLINES.
 - CAP EXISTING ROAD SURFACE WITH 1"-0 MINUS DECOMPOSED GRANITE 3" THICK BY APPROXIMATELY 12' WIDTH FROM STA 13+20 TO STA 25+10.
 - THE CONTRACTOR SHALL POTHOLE BOTH THE LIVE 16" DI PIPE AND THE ABANDONED 14" STEEL PIPE AT LEAST 100 FEET IN ADVANCE OF CONSTRUCTION. THE PIPES SHALL BE POTHOLED AT 100 FOOT INTERVALS. EXCEPT AT THE FOLLOWING STATIONS WHERE THE POTHOLES SHALL BE AT 25 FOOT INTERVALS:
 STA 12+75 TO STA 13+50
 STA 13+75 TO STA 14+25
 STA 15+25 TO STA 16+00
 BECAUSE OF THE SIGNIFICANCE OF THE 16" DI PIPE ALL POTHOLING SHALL BE DONE BY WATER JETTING AND VACUUMING. BACKHOES AND EXCAVATORS SHALL NOT BE USED FOR POTHOLING. THE PIPES SHALL BE FULLY EXPOSED SO THAT PIPE DIAMETERS CAN BE DETERMINED.
 - CITY TO INSTALL 6"x6"x6" TEE INTO EXISTING WATER LINE WITH 6" BLOCK VALVE ORIENTED TOWARD NEW LINE. CONTRACTOR TO COMPLETE HYDROSTATIC TESTING, BACTERIAL TESTING, AND DISINFECTION. CONTRACTOR TO TEE INTO THIS 6" BLOCK VALVE PER DETAIL 1, SHEET C8. INSTALL 12" GATE VALVE PER OREGON STANDARD DRAWING NO. RD258, SHEET C8. FOUR 24"x24"x4" CONCRETE COLLAR AROUND VALVE BOX (TYP).
 - INSTALL 7 LF OF 12" DI WATER MAIN.
 - INSTALL 7 LF OF 12" DI WATER MAIN.
 - INSTALL 196 LF OF 12" DI WATER MAIN.
 - INSTALL 91 LF OF 12" DI WATER MAIN.
 - INSTALL 25 LF OF 12" DI WATER MAIN.
 - INSTALL 64 LF OF 12" DI WATER MAIN.
 - INSTALL 16 LF OF 12" DI WATER MAIN.
 - INSTALL 11.25' (M.J) BEND.
 - INSTALL 22.5' (M.J) BEND.
 - INSTALL FIRE HYDRANT ASSEMBLY PER OREGON STANDARD DRAWING NO. RD254, SHEET C8.

- ### GENERAL NOTES
- COVER ALL DISTURBED NON-ROADWAY AREAS WITH HYDROSEEDING MIXTURE OF GRASS SEED, FERTILIZER AND TACKIFIER. HYDROSEEDING MIXTURE SHALL BE AS FOLLOWS:
 BLUE WILDRIE (ELYMUS GLAUCUS) - 25%
 CALIFORNIA OATGRASS (DANTHONIA CALIFORNICA) 25%
 IDAHO FESCUE (FESTUCA IDAHOENSIS) 25%
 BLUEBUNCH WHEATGRASS (PSEUDOREGARIA SPICOTA) - 25%
 TACKIFIER (AS NEEDED)
 APPLICATION RATE SHALL BE 10 LB PER ACRE
 - AT ANY POINT WHERE UTILITIES CROSS, CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF PROBLEM EXISTS.
 - REMOVE EXISTING 14" STEEL PIPE WHEREVER IT CONFLICTS WITH PROPOSED WATERLINE. OTHERWISE FOLLOW CONSTRUCTION NOTE 6.
 - PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0 CRUSHED ROCK.



PROFILE STA 10+00 TO STA 14+00

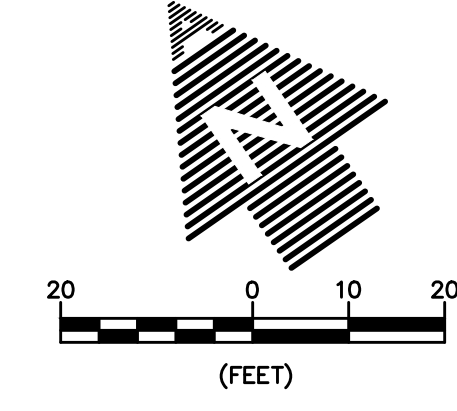


MORTON STREET TO IVY LANE
 WATERLINE REPLACEMENT
 CITY OF ASHLAND
 P&P STA 10+00 TO STA 14+00

AL ADKINS ENGINEERING & SURVEYING
 1435 EPLANADE AVENUE, KLAMATH FALLS, OR 97601
 541.884.4666
 www.AdkinsEngineering.com

DESIGNED BY	DBS
SURVEYED BY	AES
DRAWN BY	NSK
CHECKED BY	DBS

SHEET NUMBER:
C3



CONSTRUCTION NOTES

- ① CONSTRUCT TRENCH, CLASS B BACKFILL, BEDDING AND PIPE ZONE PER OREGON STANDARD DRAWING NO. RD300, SHEET C9.
- ② APPROXIMATE LOCATION OF 18" STORM PIPE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
- ③ REMOVE EXISTING ITEM.
- ④ ADDITIONAL FILL REQUIRED TO MAINTAIN MINIMUM COVER OVER 12" PIPE. INSTALL 1"-0 MINUS CRUSHED ROCK MIN. 12' WIDE ROADWAY AS SHOWN. BLEND EDGES TO MATCH EXISTING GRADE.
- ⑤ CAP EXISTING ROAD SURFACE WITH 1"-0 MINUS DECOMPOSED GRANITE 3" THICK BY APPROXIMATELY 12' WIDTH FROM STA 13+20 TO STA 25+20.
- ⑥ THE CONTRACTOR SHALL POTHOLE BOTH THE LIVE 16" DI PIPE AND THE ABANDONED 14" STEEL PIPE AT LEAST 100 FEET IN ADVANCE OF CONSTRUCTION. THE PIPES SHALL BE POTHOLED AT 100 FOOT INTERVALS. EXCEPT AT THE FOLLOWING STATIONS WHERE THE POTHOLES SHALL BE AT 25 FOOT INTERVALS:
 STA 12+75 TO STA 13+50
 STA 13+75 TO STA 14+25
 STA 15+25 TO STA 16+00
 BECAUSE OF THE SIGNIFICANCE OF THE 16" DI PIPE ALL POTHOLING SHALL BE DONE BY WATER JETTING AND VACUUMING. BACKHOES AND EXCAVATORS SHALL NOT BE USED FOR POTHOLING. THE PIPES SHALL BE FULLY EXPOSED SO THAT PIPE DIAMETERS CAN BE DETERMINED.
- ⑦ INSTALL 79 LF OF 12" DI WATER MAIN.
- ⑧ INSTALL 70 LF OF 12" DI WATER MAIN.
- ⑨ INSTALL 33 LF OF 12" DI WATER MAIN.
- ⑩ INSTALL 35 LF OF 12" DI WATER MAIN.
- ⑪ INSTALL 156 LF OF 12" DI WATER MAIN.
- ⑫ INSTALL 60 LF OF 12" DI WATER MAIN.
- ⑬ INSTALL 11.25' (M.J) BEND.
- ⑭ INSTALL 22.5' (M.J) BEND.
- ⑮ INSTALL 45' (M.J) BEND.
- ⑯ INSTALL 12" GATE VALVE PER OREGON STANDARD DRAWING NO. RD258, SHEET C8. POUR 24"x24"x4" CONCRETE COLLAR AROUND VALVE BOX (TYP).

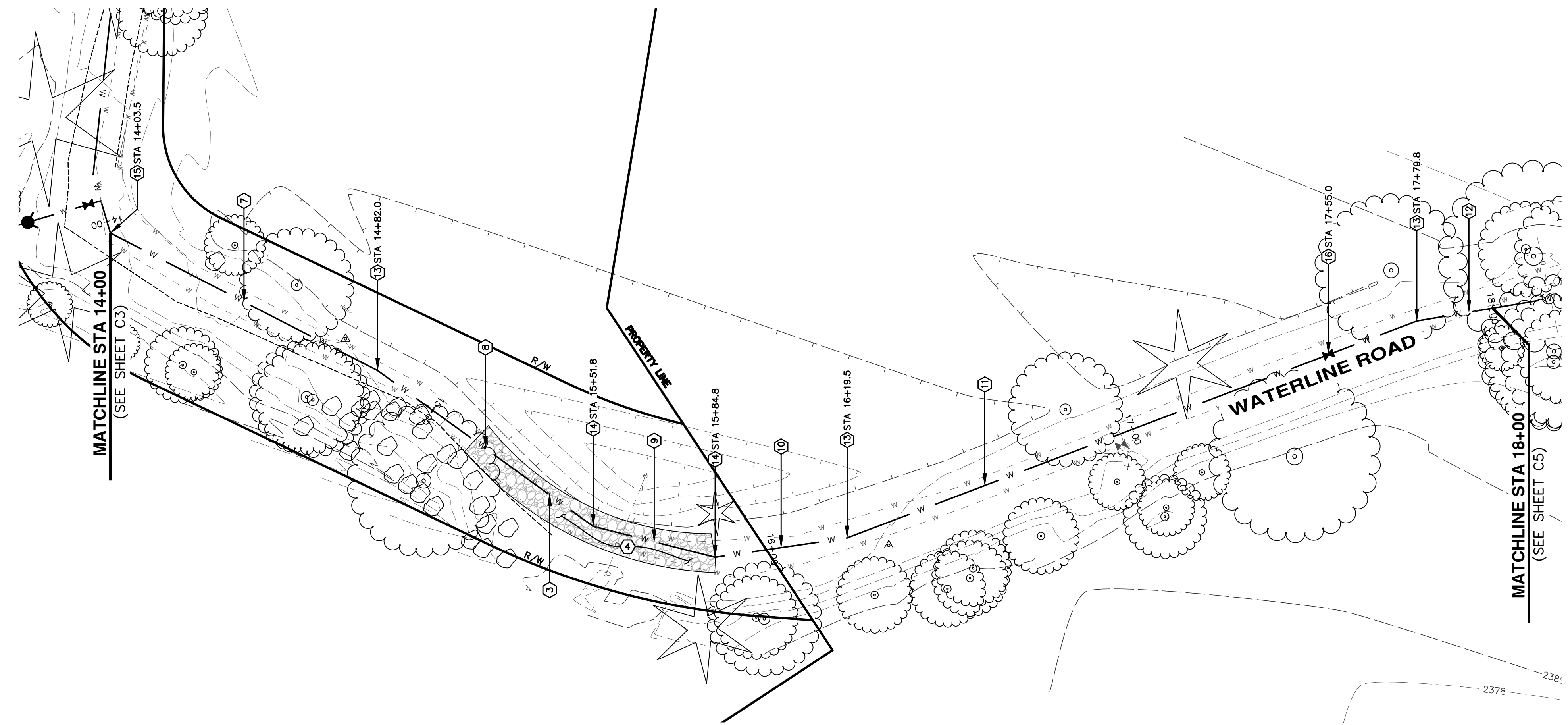
NO.	REVISION	DATE	BY

**MORTON STREET TO IVY LANE
 WATERLINE REPLACEMENT
 CITY OF ASHLAND
 P&P STA 14+00 TO STA 18+00**

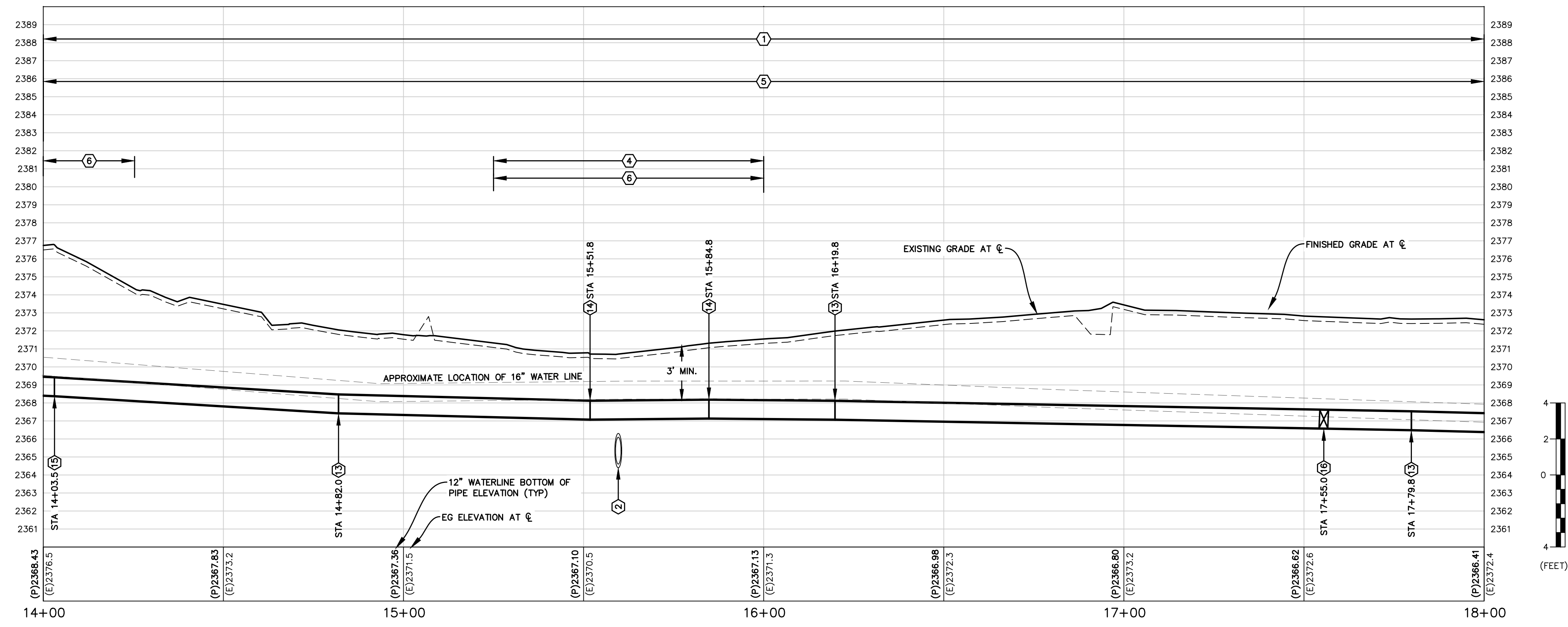
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DESIGNED BY DBS	SCALE AS SHOWN
SURVEYED BY AES	DATE 09/28/2023
DRAWN BY NSK	SHEET C4 OF 13
CHECKED BY DBS	PROJ. NO. 3522-02

SHEET NUMBER:
C4



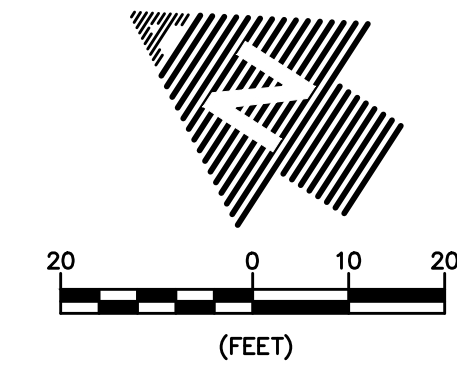
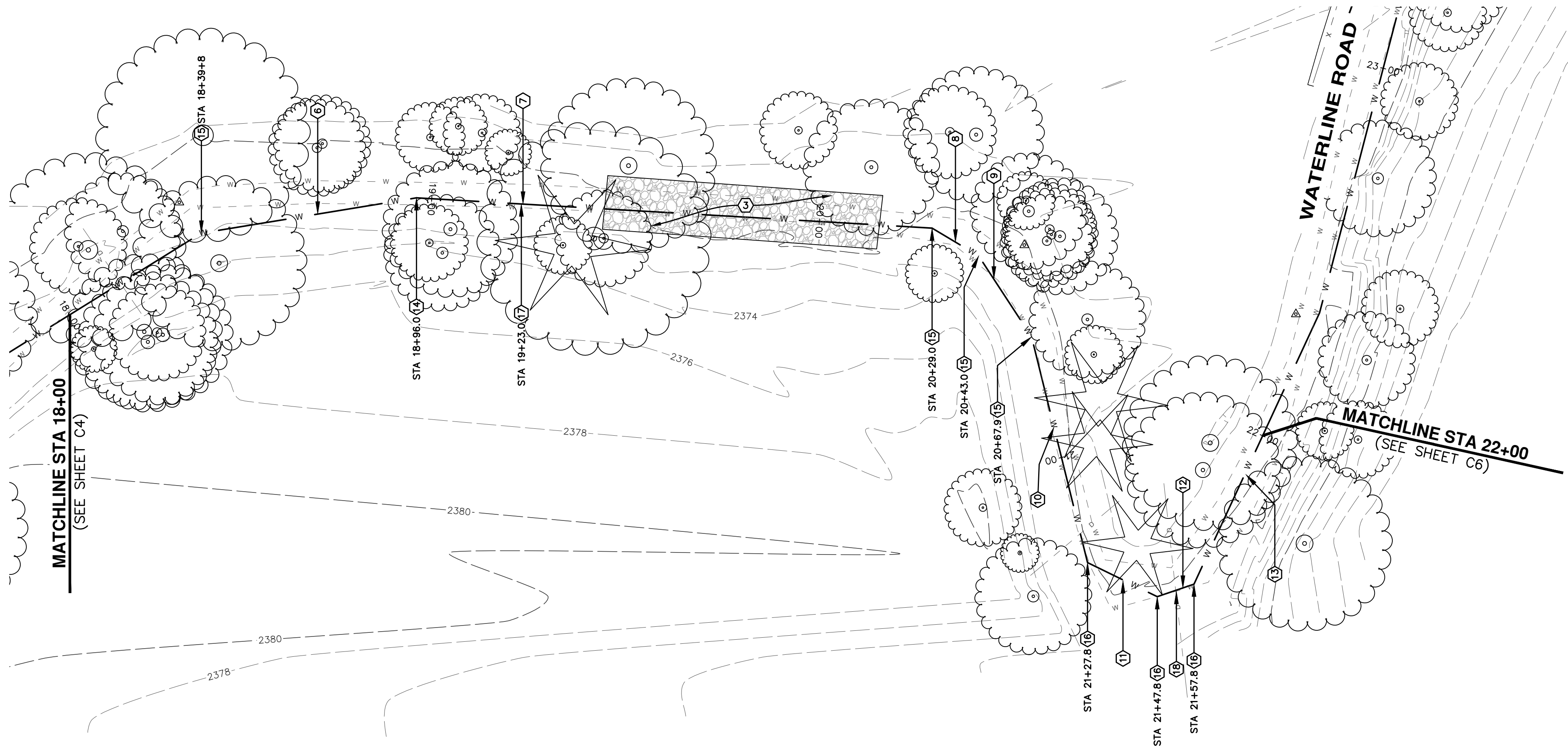
PLAN STA 14+00 TO STA 18+00



PROFILE STA 14+00 TO STA 18+00

GENERAL NOTES

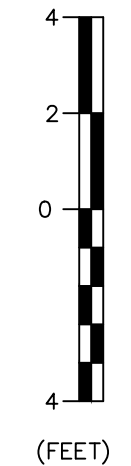
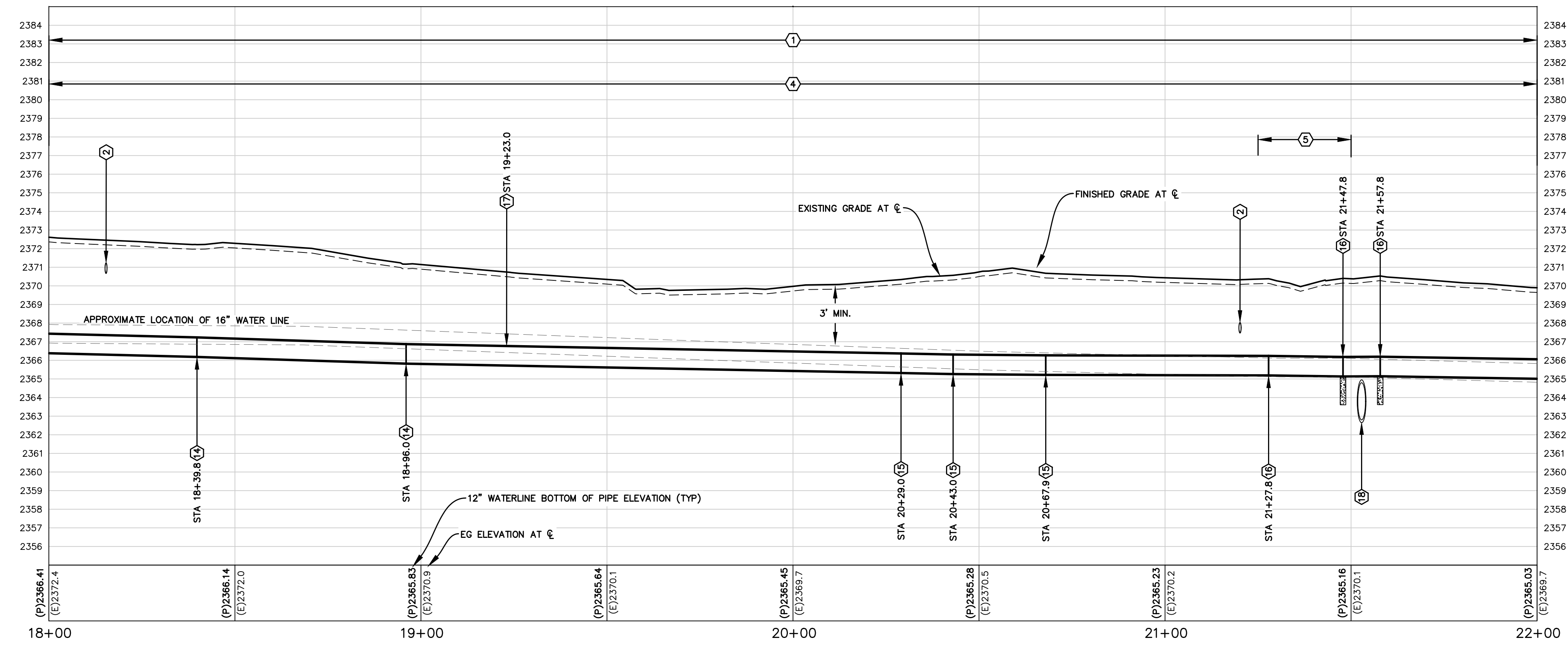
1. COVER ALL DISTURBED NON-ROADWAY AREAS WITH HYDROSEEDING MIXTURE OF GRASS SEED, FERTILIZER AND TACKIFIER. HYDROSEEDING MIXTURE SHALL BE AS FOLLOWS:
 BLUE WILD RYE (ELYMUS GLAUCUS) - 25%
 CALIFORNIA OATGRASS (DANTHONIA CALIFORNICA) 25%
 IDAHO FESCUE (FESTUCA IDAHOENSIS) 25%
 BLUEBUNCH WHEATGRASS (PSEUDOREGNIARIA SPICATA) - 25%
 TACKIFIER (AS NEEDED)
 APPLICATION RATE SHALL BE 10 LB PER ACRE
2. AT ANY POINT WHERE UTILITIES CROSS, CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF PROBLEM EXISTS.
3. REMOVE EXISTING 14" STEEL PIPE WHEREVER IT CONFLICTS WITH PROPOSED WATERLINE.
4. PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0 CRUSHED ROCK.



CONSTRUCTION NOTES

- 1 CONSTRUCT TRENCH, CLASS B BACKFILL, BEDDING AND PIPE ZONE PER OREGON STANDARD DRAWING NO. RD300, SHEET C9.
- 2 APPROXIMATE LOCATION OF EXISTING 6" STORM PIPE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
- 3 ADDITIONAL FILL REQUIRED TO MAINTAIN MINIMUM COVER OVER 12" PIPE. INSTALL 1"-0 MINUS CRUSHED ROCK MIN. 12' WIDE ROADWAY AS SHOWN. BLEND EDGES TO MATCH EXISTING CONDITIONS.
- 4 CAP EXISTING ROAD SURFACE WITH 1"-0 MINUS DECOMPOSED GRANITE 3" THICK BY APPROXIMATELY 12' WIDTH FROM STA 13+20 TO STA 25+20.
- 5 THE CONTRACTOR SHALL POTHOLE BOTH THE LIVE 16" DI PIPE AND THE ABANDONED 14" STEEL PIPE AT LEAST 100 FEET IN ADVANCE OF CONSTRUCTION. THE PIPES SHALL BE POTHOLED AT 100 FOOT INTERVALS. EXCEPT AT THE FOLLOWING STATIONS WHERE THE POTHOLES SHALL BE AT 25 FOOT INTERVALS:
STA 21+25 TO STA 21+50
BECAUSE OF THE SIGNIFICANCE OF THE 16" DI PIPE ALL POTHOLING SHALL BE DONE BY WATER JETTING AND VACUUMING. BACKHOES AND EXCAVATORS SHALL NOT BE USED FOR POTHOLING. THE PIPES SHALL BE FULLY EXPOSED SO THAT PIPE DIAMETERS CAN BE DETERMINED.
- 6 INSTALL 56 LF OF 12" DI WATER MAIN.
- 7 INSTALL 133 LF OF 12" DI WATER MAIN.
- 8 INSTALL 14 LF OF 12" DI WATER MAIN.
- 9 INSTALL 25 LF OF 12" DI WATER MAIN.
- 10 INSTALL 60 LF OF 12" DI WATER MAIN.
- 11 INSTALL 28 LF OF 12" DI WATER MAIN.
- 12 INSTALL 10 LF OF 12" DI WATER MAIN.
- 13 INSTALL 77 LF OF 12" DI WATER MAIN.
- 14 INSTALL 11.25' (M.J) BEND.
- 15 INSTALL 22.5' (M.J) BEND.
- 16 INSTALL 45' (M.J) BEND.
- 17 INSTALL TRACER WIRE HANDHOLE PER DETAIL 3, SHEET C8.
- 18 APPROXIMATE LOCATION OF EXISTING 24" STORM PIPE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF PIPE PRIOR TO INSTALLING PIPE PIER SUPPORTS FOR PROPOSED WATER LINE, PER MWC DETAIL NO. 113, SHEET C8.

PLAN STA 18+00 TO STA 22+00



GENERAL NOTES

1. COVER ALL DISTURBED NON-ROADWAY AREAS WITH HYDROSEEDING MIXTURE OF GRASS SEED, FERTILIZER AND TACKIFIER. HYDROSEEDING MIXTURE SHALL BE AS FOLLOWS:
BLUE WILDRYE (ELYMUS GLAUCUS) - 25%
CALIFORNIA OATGRASS (DANTHONIA CALIFORNICA) 25%
IDAHO FESCUE (FESTUCA IDAHOENSIS) 25%
BLUEBUNCH WHEATGRASS (PSEUDOREGNARIA SPICOTA) - 25%
TACKIFIER (AS NEEDED)
APPLICATION RATE SHALL BE 10 LB PER ACRE
2. AT ANY POINT WHERE UTILITIES CROSS, CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF PROBLEM EXISTS.
3. REMOVE EXISTING 14" STEEL PIPE WHEREVER IT CONFLICTS WITH PROPOSED WATERLINE.
4. PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0 CRUSHED ROCK.

PROFILE STA 18+00 TO STA 22+00



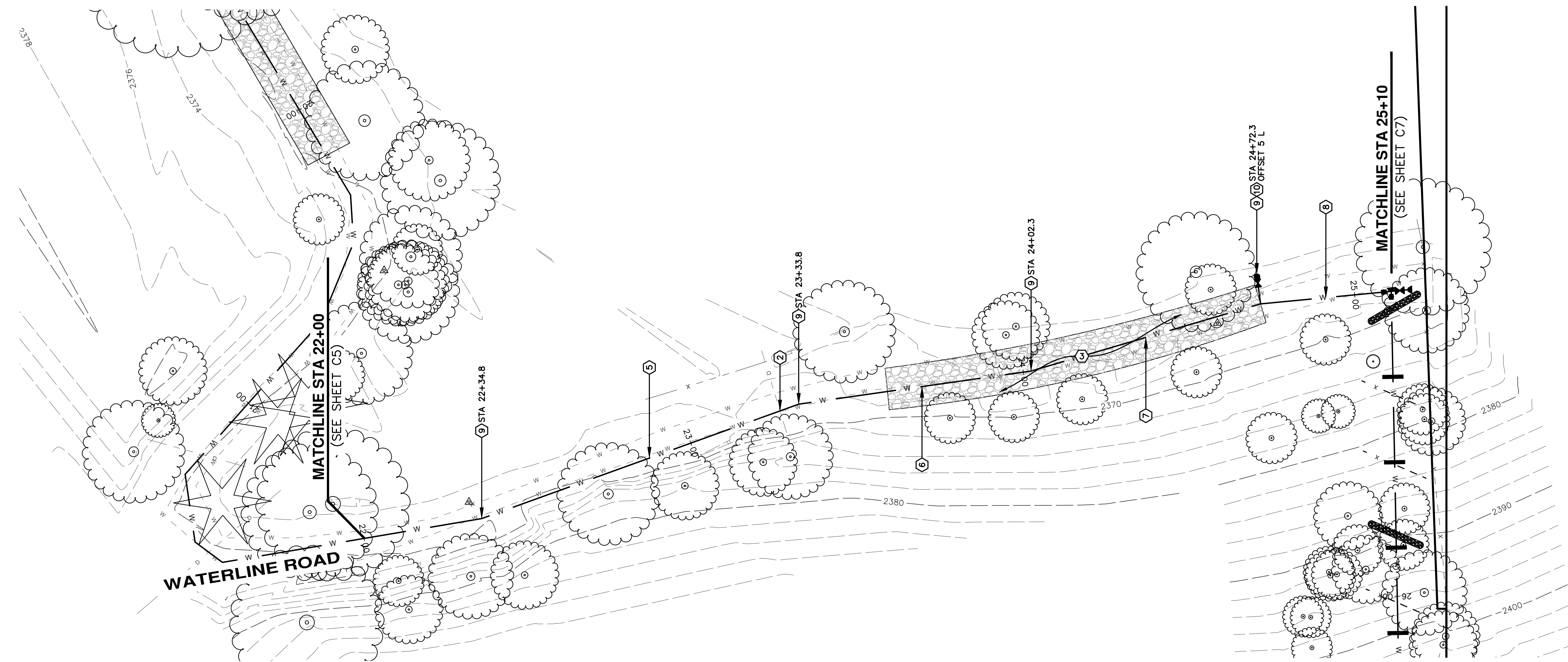
NO.	REVISION	DATE	BY

**MORTON STREET TO IVY LANE
WATERLINE REPLACEMENT
CITY OF ASHLAND
P&P STA 18+00 TO STA 22+00**

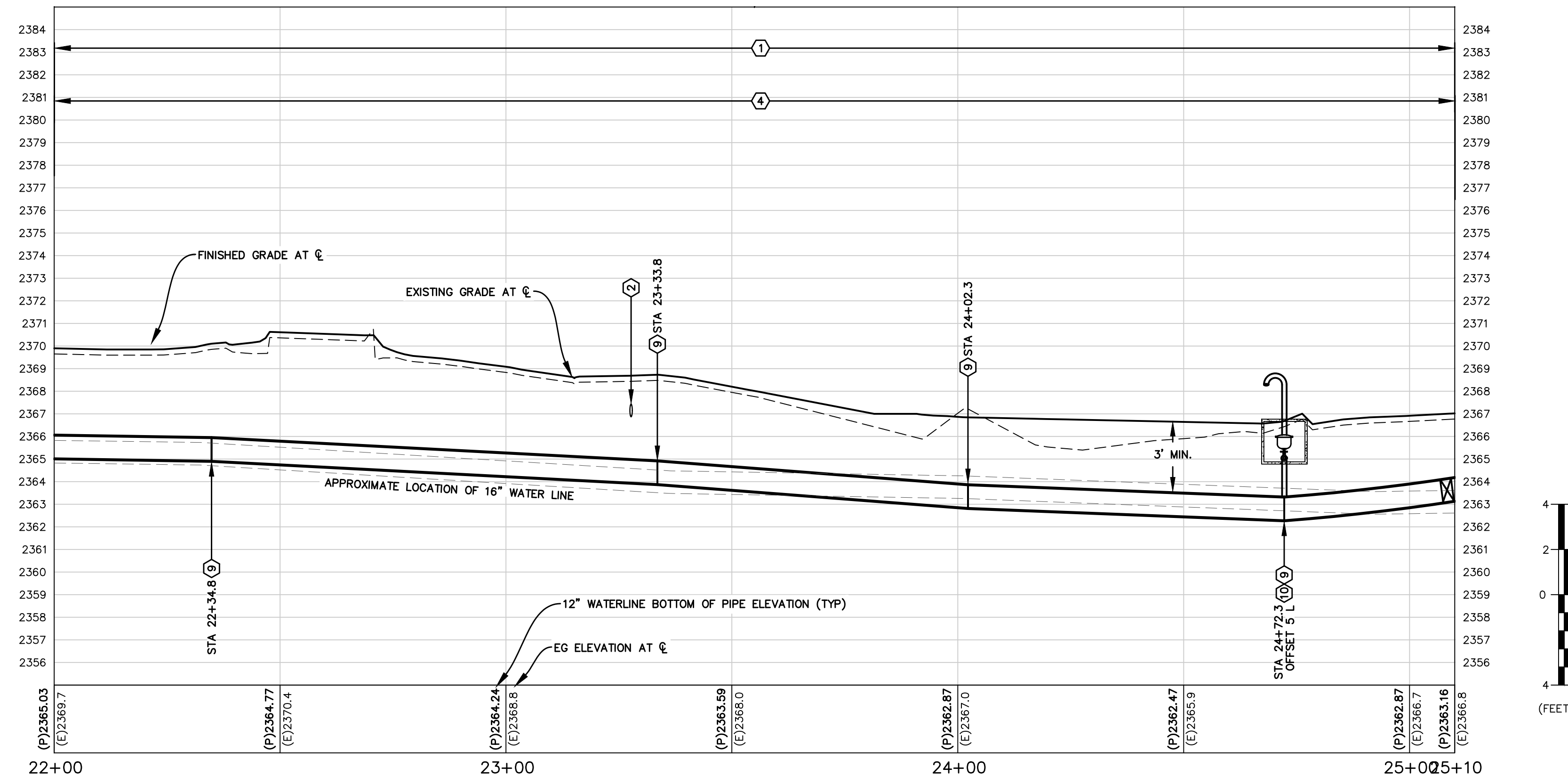
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DATE	DBS
SHEET	SURVEYED BY
C5 OF 13	AES
PROJ. NO.	DRAWN BY
3522-02	NSK
	CHECKED BY
	DBS

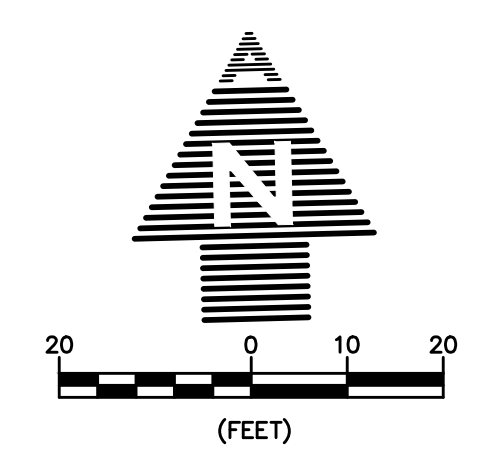
SHEET NUMBER:
C5



PLAN STA 22+00 TO STA 25+10



PROFILE STA 22+00 TO STA 25+10



CONSTRUCTION NOTES

- 1 CONSTRUCT TRENCH, CLASS B BACKFILL, BEDDING AND PIPE ZONE PER OREGON STANDARD DRAWING NO. RD300, SHEET C9.
- 2 APPROXIMATE LOCATION OF EXISTING 6" STORM PIPE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
- 3 ADDITIONAL FILL REQUIRED TO MAINTAIN MINIMUM COVER OVER 12" PIPE. INSTALL 1"-0 MINUS CRUSHED ROCK MIN. 12" WIDE ROADWAY AS SHOWN. BLEND EDGES TO MATCH EXISTING CONDITIONS.
- 4 CAP EXISTING ROAD SURFACE WITH 1"-0 MINUS DECOMPOSED GRANITE 3" THICK BY APPROXIMATELY 12" WIDTH FROM STA 13+20 TO STA 25+20.
- 5 INSTALL 99 LF OF 12" DI WATER MAIN.
- 6 INSTALL 69 LF OF 12" DI WATER MAIN.
- 7 INSTALL 70 LF OF 12" DI WATER MAIN.
- 8 INSTALL 38 LF OF 12" DI WATER MAIN.
- 9 INSTALL 11.25' (M) BEND.
- 10 INSTALL BLOWOFF VALVE PER MWC DETAIL NO. 108, SHEET C9.

GENERAL NOTES

1. COVER ALL DISTURBED NON-ROADWAY AREAS WITH HYDROSEEDING MIXTURE OF GRASS SEED, FERTILIZER AND TACKIFIER. HYDROSEEDING MIXTURE SHALL BE AS FOLLOWS:
 BLUE WILD RYE (ELYMUS GLAUCUS) - 25%
 CALIFORNIA OATGRASS (DANTHONIA CALIFORNICA) 25%
 IDAHO FESCUE (FESTUCA IDAHOENSIS) 25%
 BLUEBUNCH WHEATGRASS (PSEUDOREGNARIA SPICATA) - 25%
 TACKIFIER (AS NEEDED)
 APPLICATION RATE SHALL BE 10 LB PER ACRE
2. AT ANY POINT WHERE UTILITIES CROSS, CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF PROBLEM EXISTS.
3. REMOVE EXISTING 14" STEEL PIPE WHEREVER IT CONFLICTS WITH PROPOSED WATERLINE.
4. PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0 CRUSHED ROCK.



NO.	REVISION	DATE	BY

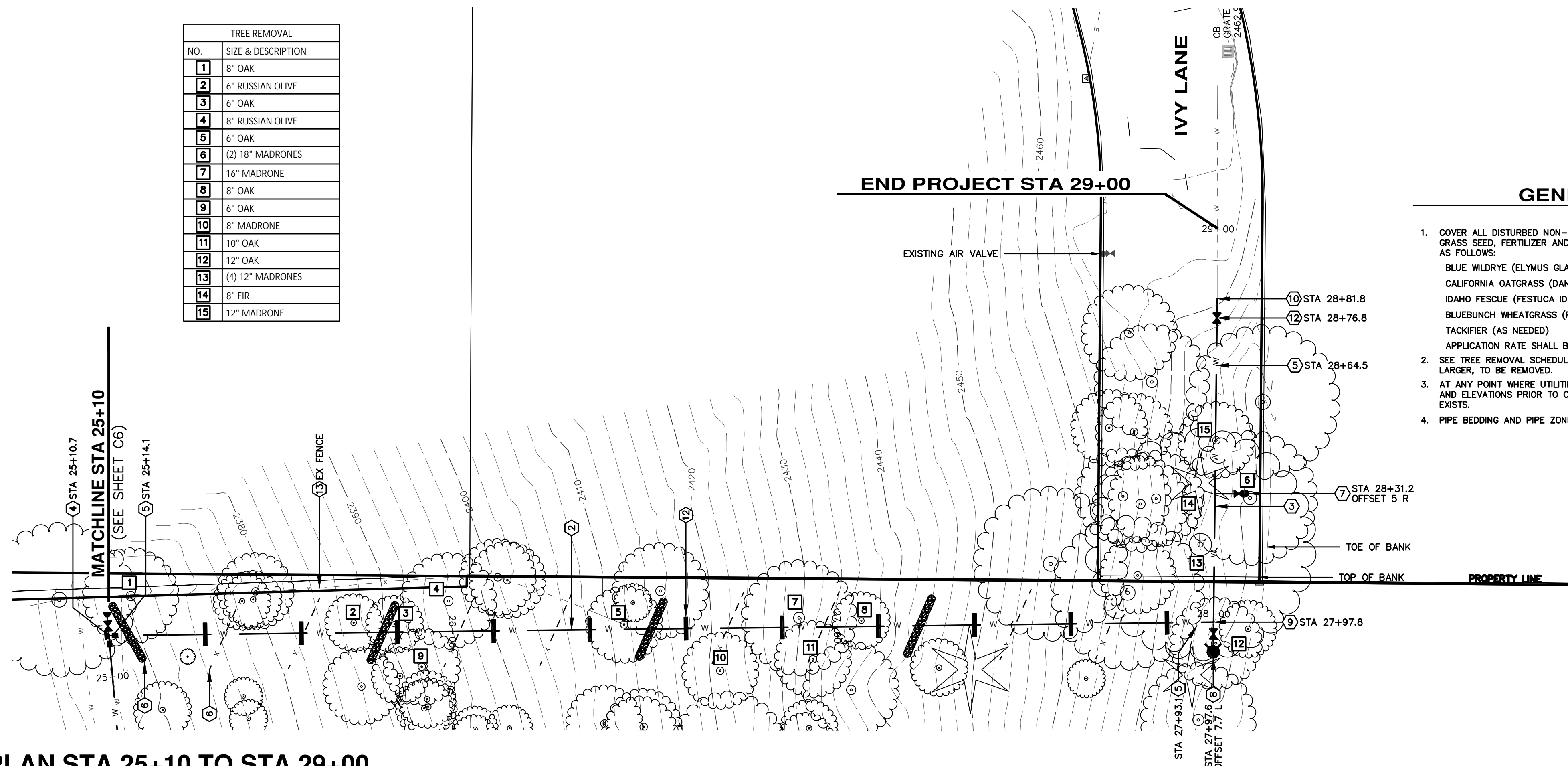
**MORTON STREET TO IVY LANE
 WATERLINE REPLACEMENT
 CITY OF ASHLAND
 P&P STA 22+00 TO STA 25+10**

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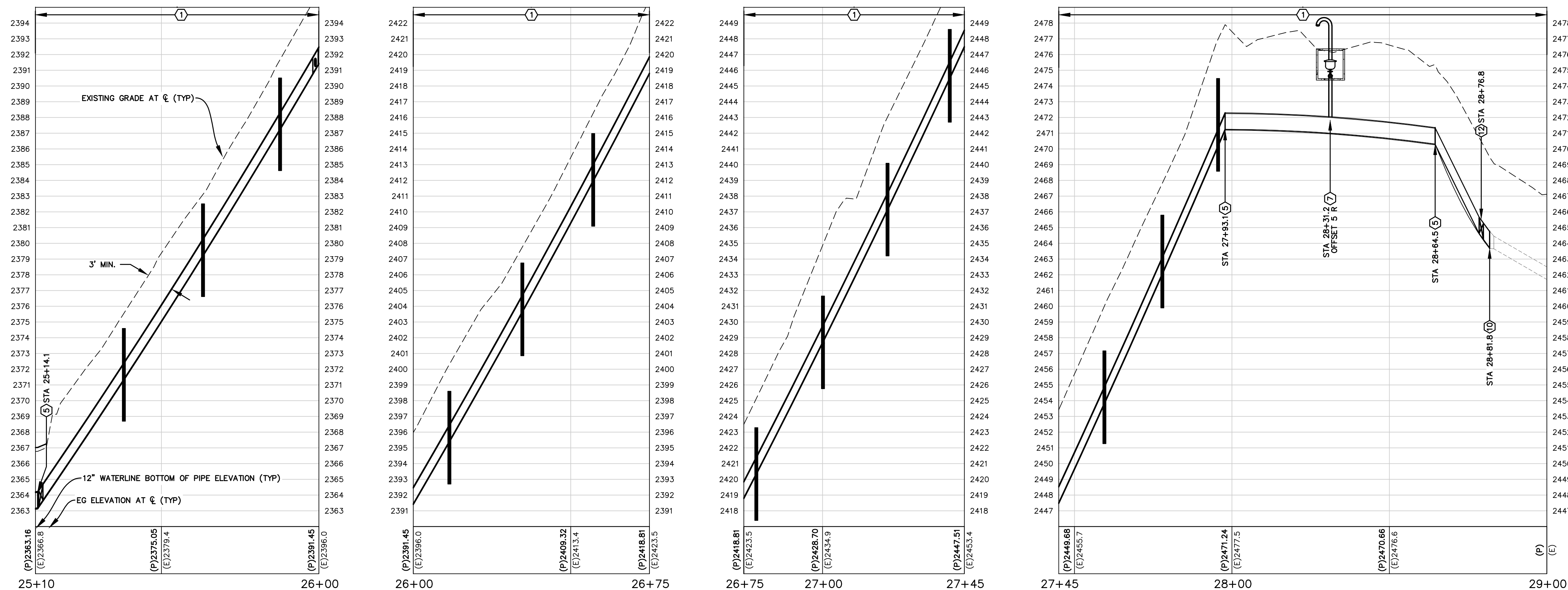
DESIGNED BY	DBS
SURVEYED BY	AES
DRAWN BY	NSK
CHECKED BY	DBS

SCALE SHOWN: 1" = 40'
 DATE: 09/28/2023
 SHEET: C6 OF 13
 PROJ. NO.: 3522-02
C6

TREE REMOVAL	
NO.	SIZE & DESCRIPTION
1	8" OAK
2	6" RUSSIAN OLIVE
3	6" OAK
4	8" RUSSIAN OLIVE
5	6" OAK
6	(2) 18" MADRONES
7	16" MADRONE
8	8" OAK
9	6" OAK
10	8" MADRONE
11	10" OAK
12	12" OAK
13	(4) 12" MADRONES
14	8" FIR
15	12" MADRONE



PLAN STA 25+10 TO STA 29+00



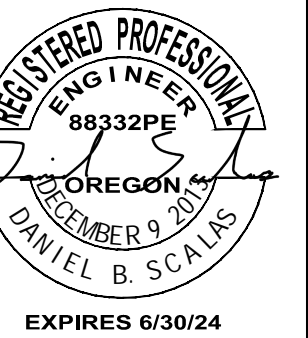
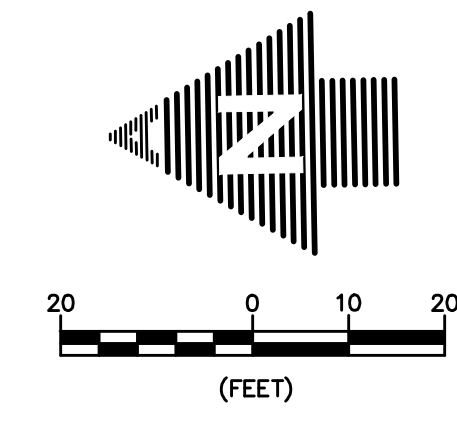
PROFILE STA 25+10 TO STA 29+00

GENERAL NOTES

- COVER ALL DISTURBED NON-ROADWAY AREAS WITH HYDROSEEDING MIXTURE OF GRASS SEED, FERTILIZER AND TACKIFIER. HYDROSEEDING MIXTURE SHALL BE AS FOLLOWS:
BLUE WILDRYE (ELYMUS GLAUCUS) - 25%
CALIFORNIA OATGRASS (DANTHONIA CALIFORNICA) 25%
IDAHO FESCUE (FESTUCA IDAHOENSIS) 25%
BLUEBUNCH WHEATGRASS (PSEUDOREGNARIA SPICATA) - 25%
TACKIFIER (AS NEEDED)
APPLICATION RATE SHALL BE 10 LB PER ACRE
- SEE TREE REMOVAL SCHEDULE FOR A LISTING OF ALL TREES, 6 INCH DBH OR LARGER, TO BE REMOVED.
- AT ANY POINT WHERE UTILITIES CROSS, CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF PROBLEM EXISTS.
- PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0 CRUSHED ROCK.

CONSTRUCTION NOTES

- CONSTRUCT TRENCH, CLASS B BACKFILL, BEDDING AND PIPE ZONE PER OREGON STANDARD DRAWING RD300, SHEET C9.
- INSTALL 287 LF OF 12" DI WATER MAIN.
- INSTALL 67 LF OF 12" DI WATER MAIN.
- INSTALL 12"x12" TEE WITH VALVE AND BLIND FLANGE (EAST). INSTALL (2) 12" GATE VALVES (WEST AND SOUTH), AND (2) THRUST BLOCKS. POUR 24"x24"x4" CONCRETE COLLAR AROUND VALVE BOX. SEE OREGON STANDARD DRAWING 258, SHEET C8 FOR COLLAR AND MWC STANDARD DRAWING 109, SHEET C8 FOR THRUST BLOCK SCHEDULE.
- INSTALL 22.5' (M) VERTICAL ELBOW.
- CONSTRUCT 4"-0 MINUS CRUSHED ROCK CHECK DAMS AND 20' LONG WATTLES ALTERNATING AS SHOWN ON PLANS SPACED 25' APART. SLOPE THE DIRECTION AS SHOWN ON PLANS. WATTLES SHALL BE SECURELY STAKED IN PLACE AND SHALL REMAIN IN PLACE AS A SEMI-PERMANENT FEATURE PER OREGON STANDARD DRAWING RD1005, SHEET C10.
- CITY TO INSTALL TAP AND 1" AIR RELEASE VALVE WITH TYPE K COPPER LATERAL PER MWC STANDARD DETAIL 108, SHEET C9.
- INSTALL FIRE HYDRANT ASSEMBLY PER OREGON STANDARD DRAWING RD254, SHEET C8.
- INSTALL 12"x12" TEE. INCLUDES 12"x6" REDUCER TO WATER LINE (NORTH), AND 12" GATE VALVE TO FIRE HYDRANT (WEST).
- CONTRACTOR TO COMPLETE HYDROSTATIC TESTING, BACTERIAL TESTING, AND DISINFECTION PRIOR TO CONNECTING TO EXISTING 8" WATER MAIN. REMOVE EXISTING THRUST BLOCK AND FLANGE. INSTALL 8"x12" INCREASER AND 11.25' VERTICAL BEND. CONTACT CITY OF ASHLAND WATER QUALITY DIVISION PRIOR TO REMOVAL OF THRUST BLOCK.
- INSTALL CONCRETE PIPE ANCHORS PER OREGON STANDARD DRAWING NO. RD332, SHEET C9. CONCRETE ANCHORS TO BE SPACED 25 FEET OC.
- INSTALL 12" GATE VALVE PER OREGON STANDARD DRAWING NO RD258, SHEET C8. POUR 24"x24"x4" CONCRETE COLLAR AROUND VALVE BOX (TYP).
- PROTECT ITEM IN PLACE. IF NECESSARY, REMOVE AND RE-INSTALL.

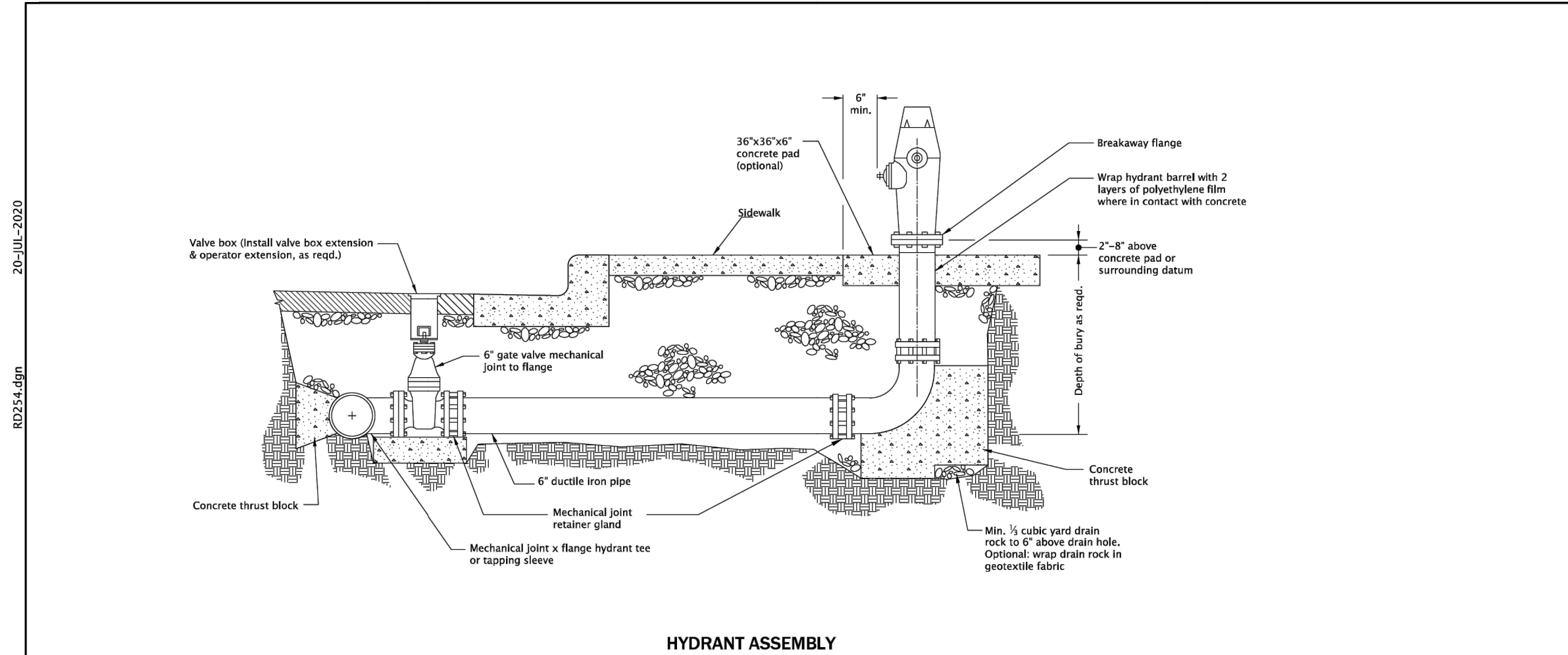


MORTON STREET TO IVY LANE
WATERLINE REPLACEMENT
CITY OF ASHLAND
P&P STA 25+10 TO STA 29+00

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DATE	09/28/2023
SHEET	C7 OF 13
DRAWN BY	NSK
CHECKED BY	DBS
PROJ. NO.	3522-02

SHEET NUMBER:
C7



HYDRANT ASSEMBLY

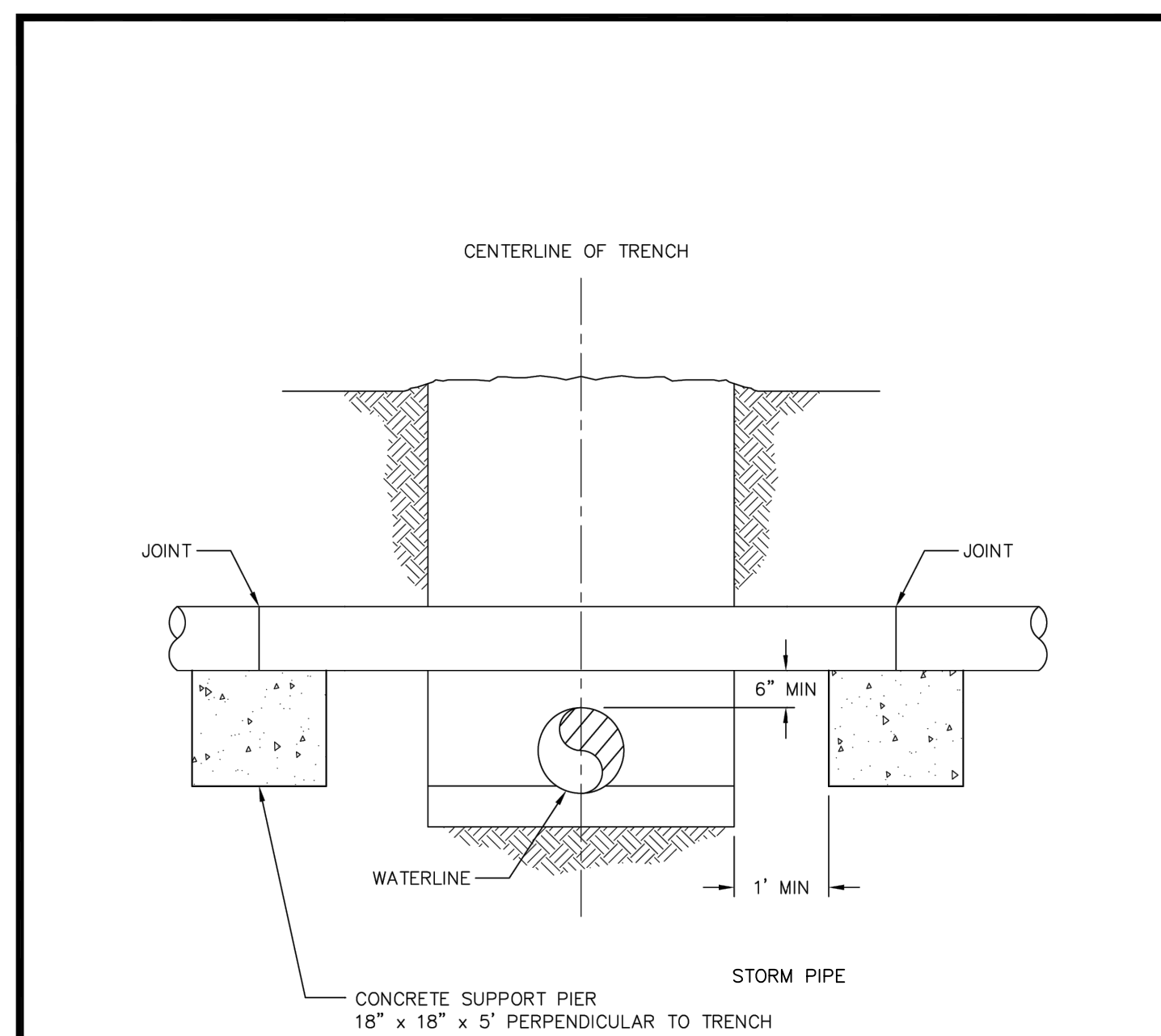
GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- When pipe is shorter than 18', no joints allowed. Use mechanical joint retainers glands. Two 1/2" galvanized tie rods may be used in lieu of thrust blocks for installations less than 18' long. Coat the rods with two coats of coal tar epoxy.
- When pipe is longer than 18' retainers glands not required.
- There shall be a minimum of 18" horizontal clearance around hydrant.
- When placed adjacent to curb, hydrant port shall be 24" from face of curb.
- Concrete thrust blocks shall be constructed as per thrust blocking Std. Dwg. RD250. Do not block drain holes.
- Extensions required for hydrant systems shall be installed to the manufacturer's specifications.
- Hydrants shall be placed to provide a minimum of 5' clearance from driveways, poles, and other obstructions.
- Hydrant pumper port shall face direction of access.
- Set hydrant plumb in all directions.
- See project plans for details not shown.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.	
OREGON STANDARD DRAWINGS	
HYDRANT INSTALLATION	
DATE	2021
REVISION	DESCRIPTION
CAD	N/A
DATE	25-06-2017
	RD254

Effective Date: June 1, 2023 - November 30, 2023

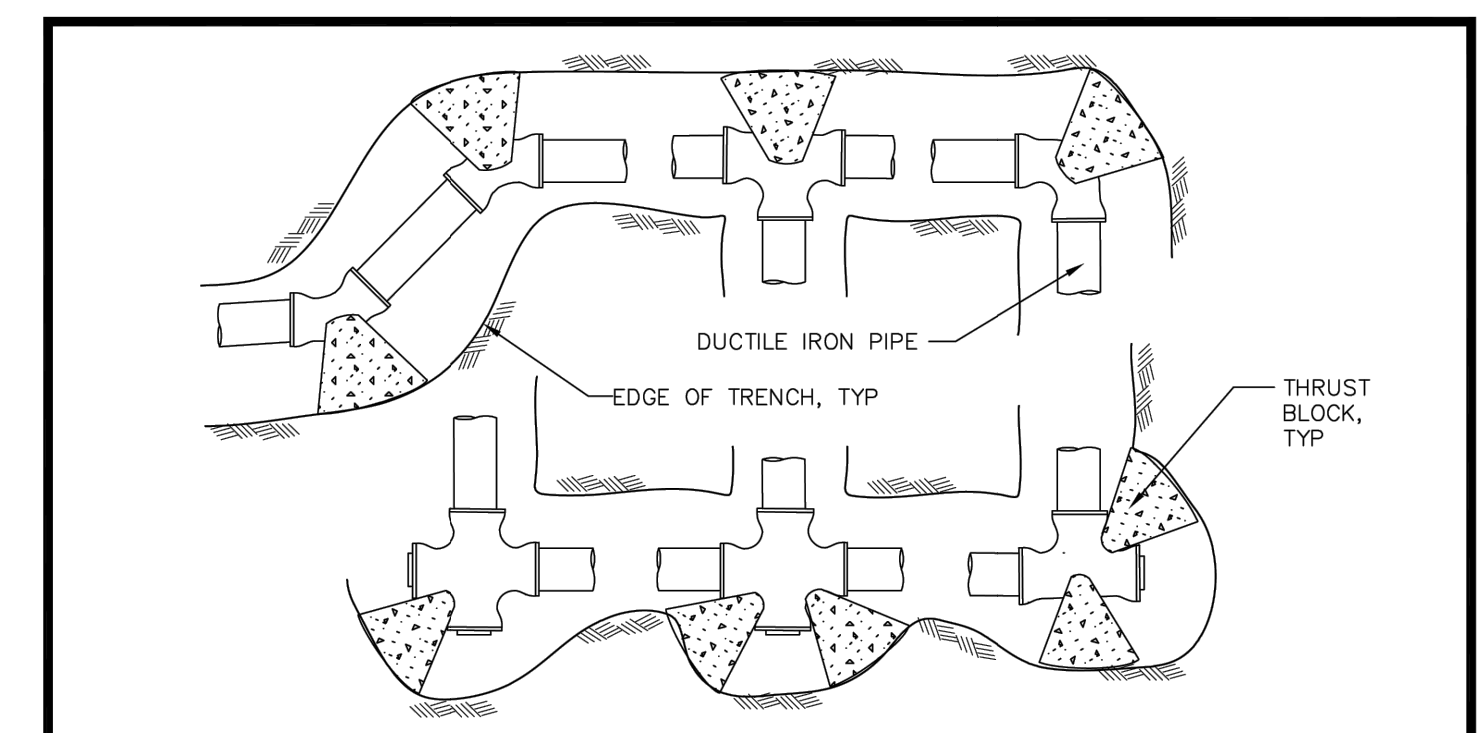


NOTES:

- SUPPORT PIERS ARE REQUIRED FOR 18" AND LARGER PIPE CROSSINGS.



REV	10/09	PIPE SUPPORT PIER DETAIL
		STANDARD DETAIL NO. 113



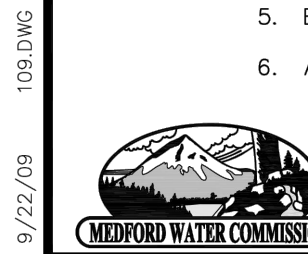
THRUST BLOCK SIZING TABLE

PIPE SIZE (INCHES)	90° BEND		45°, 22.5°, 11.25° BEND		VALVES, TEES, DEAD ENDS	
	# THRUST	BEARING AREA	# THRUST	BEARING AREA	# THRUST	BEARING AREA
4	2700	2.0	1650	1.5	1950	1.5
6	6000	4.0	3450	2.5	4350	3.0
8	10800	7.5	6150	4.5	7650	5.5
12	24000	16.0	13650	9.5	16950	11.5

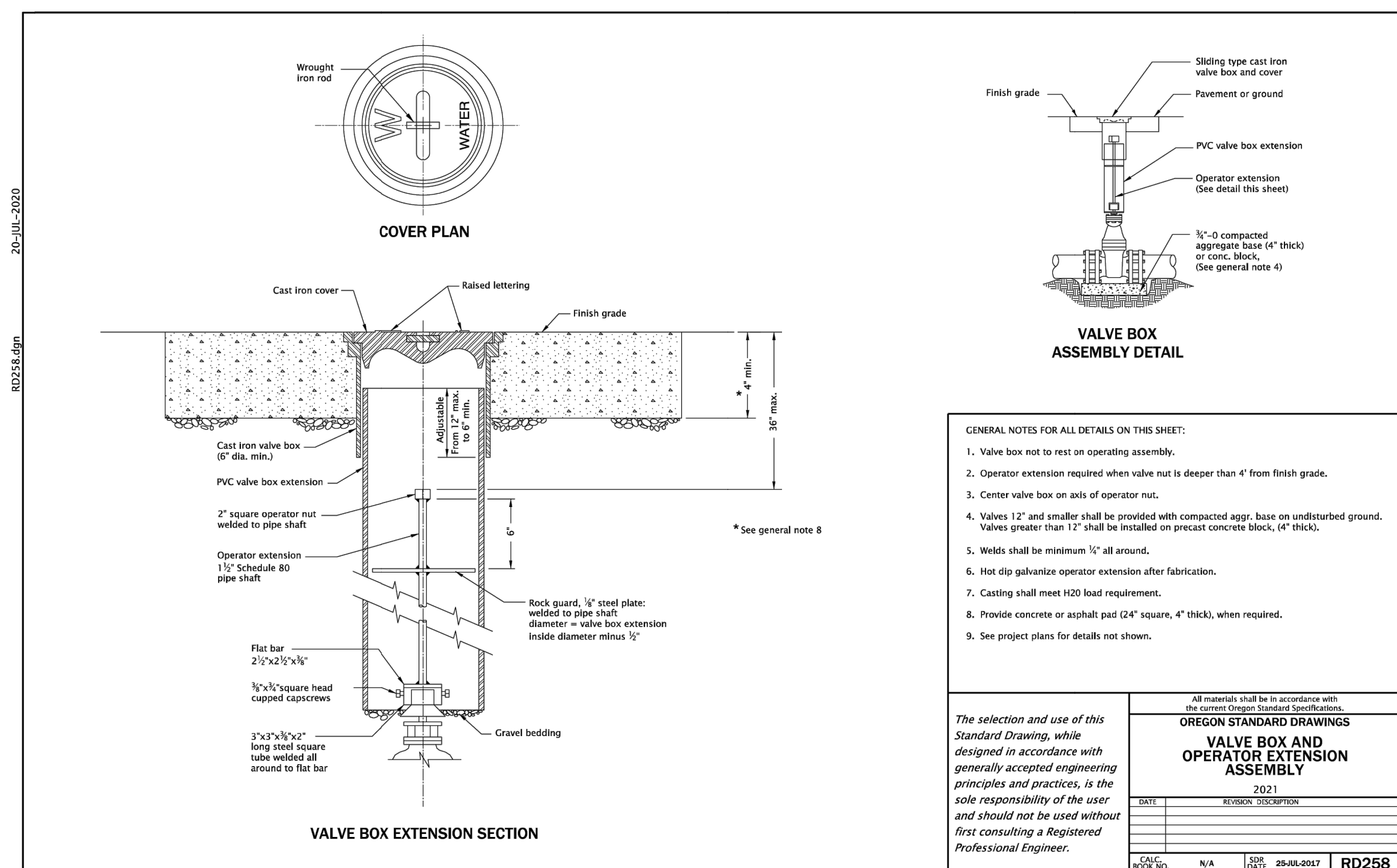
NOTE: THRUST CALCULATIONS ARE BASED ON TEST PRESSURE OF 150 PSI AND A SOIL BEARING CAPACITY OF 1500 PSF. DESIGNER IS CAUTIONED TO ENSURE THE BEARING CAPACITY OF THE SOIL IS AT LEAST 1500 PSF.

NOTES:

- THE BEARING AREA SHOWN IN THE TABLE ARE MINIMUM VALUES.
- ALL THRUST BLOCKS BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED EARTH.
- THE THRUST BLOCK THICKNESS SHALL BE A MINIMUM OF 12" OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
- AN 8 MIL SHEET OF PLASTIC SHALL BE WRAPPED AROUND PIPE AND FITTINGS WHEREVER PIPE WILL COME IN CONTACT WITH CONCRETE.
- ENSURE ALL BOLTS ARE EXPOSED AND NOT COVERED WITH CONCRETE.
- ALL CONCRETE SHALL BE 3,300 PSI MINIMUM.



REV	10/09	THRUST BLOCKS
		STANDARD DETAIL NO. 109



COVER PLAN

VALVE BOX ASSEMBLY DETAIL

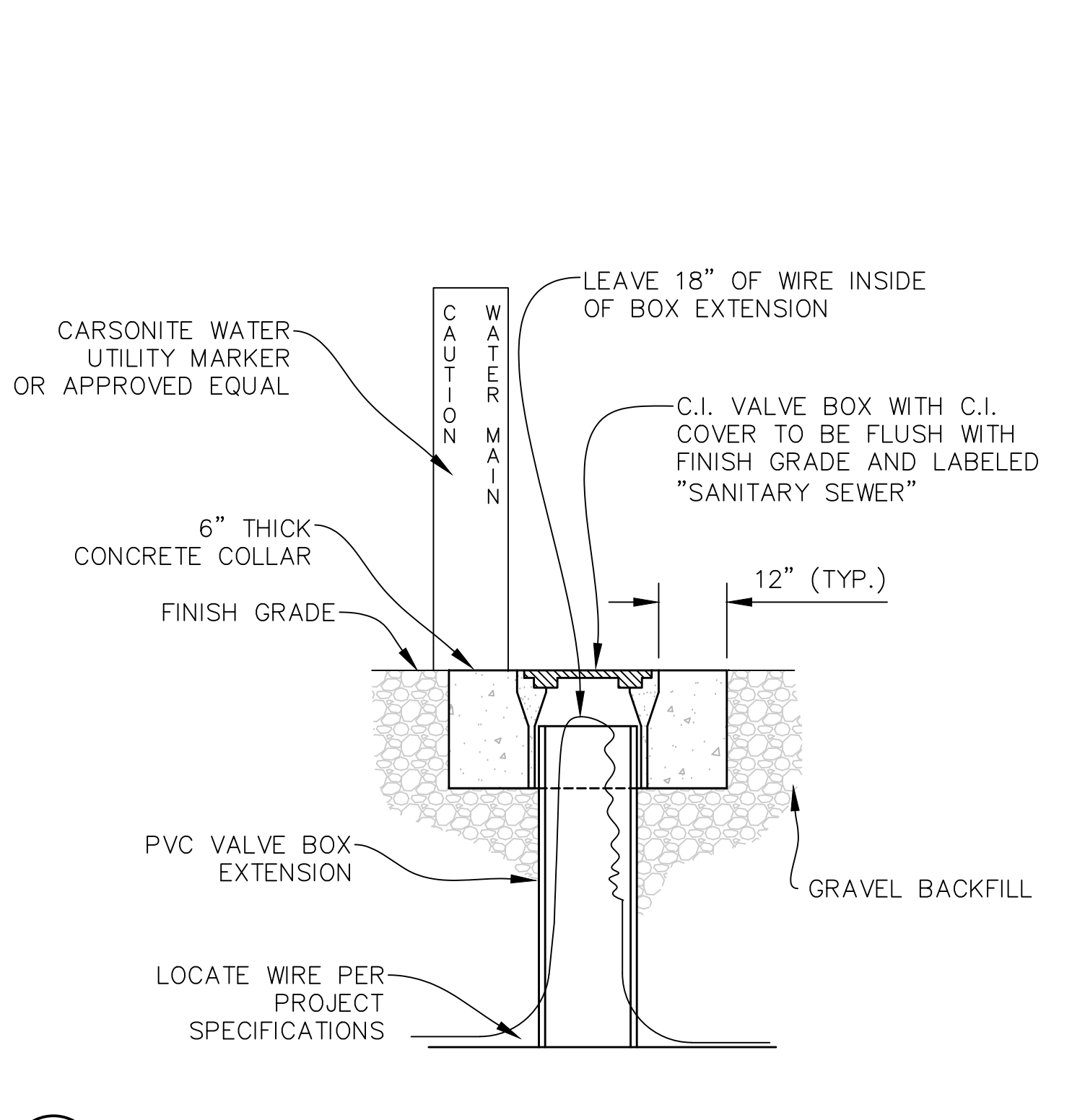
GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- Valve box not to rest on operating assembly.
- Operator extension required when valve nut is deeper than 4" from finish grade.
- Center valve box on axis of operator nut.
- Valves 12" and smaller shall be provided with compacted aggregate base on undisturbed ground. Valves greater than 12" shall be installed on precast concrete block, (6" thick).
- Welds shall be minimum 1/2" all around.
- Hot dip galvanize operator extension after fabrication.
- Casting shall meet H20 load requirement.
- Provide concrete or asphalt pad (24" square, 4" thick), when required.
- See project plans for details not shown.

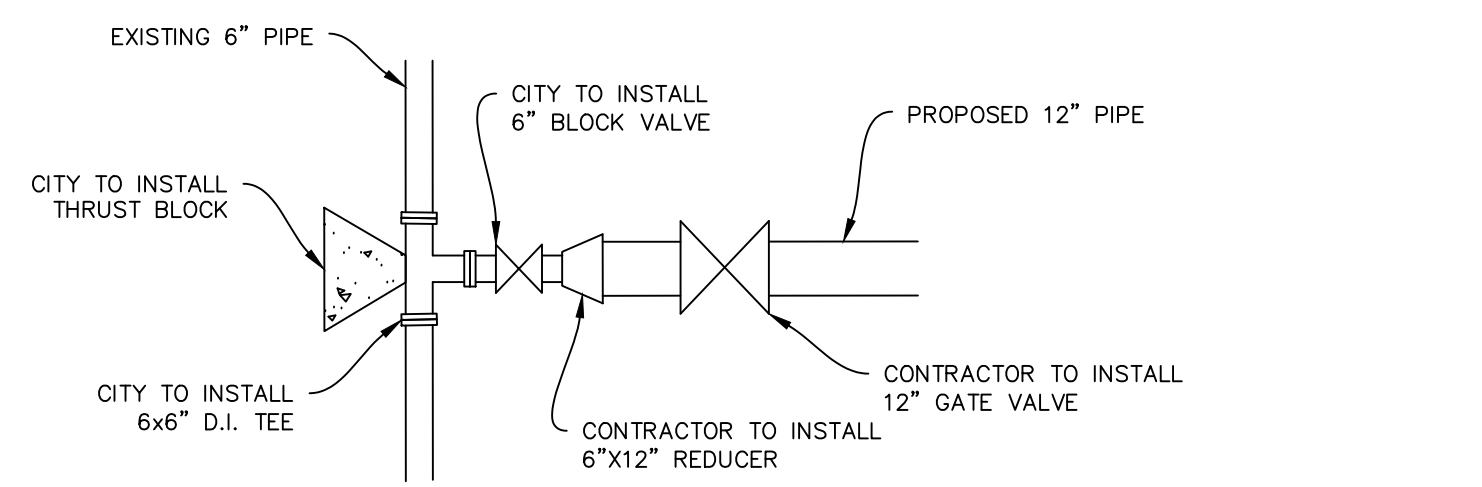
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.	
OREGON STANDARD DRAWINGS	
VALVE BOX AND OPERATOR EXTENSION ASSEMBLY	
DATE	2021
REVISION	DESCRIPTION
CAD	N/A
DATE	25-06-2017
	RD258

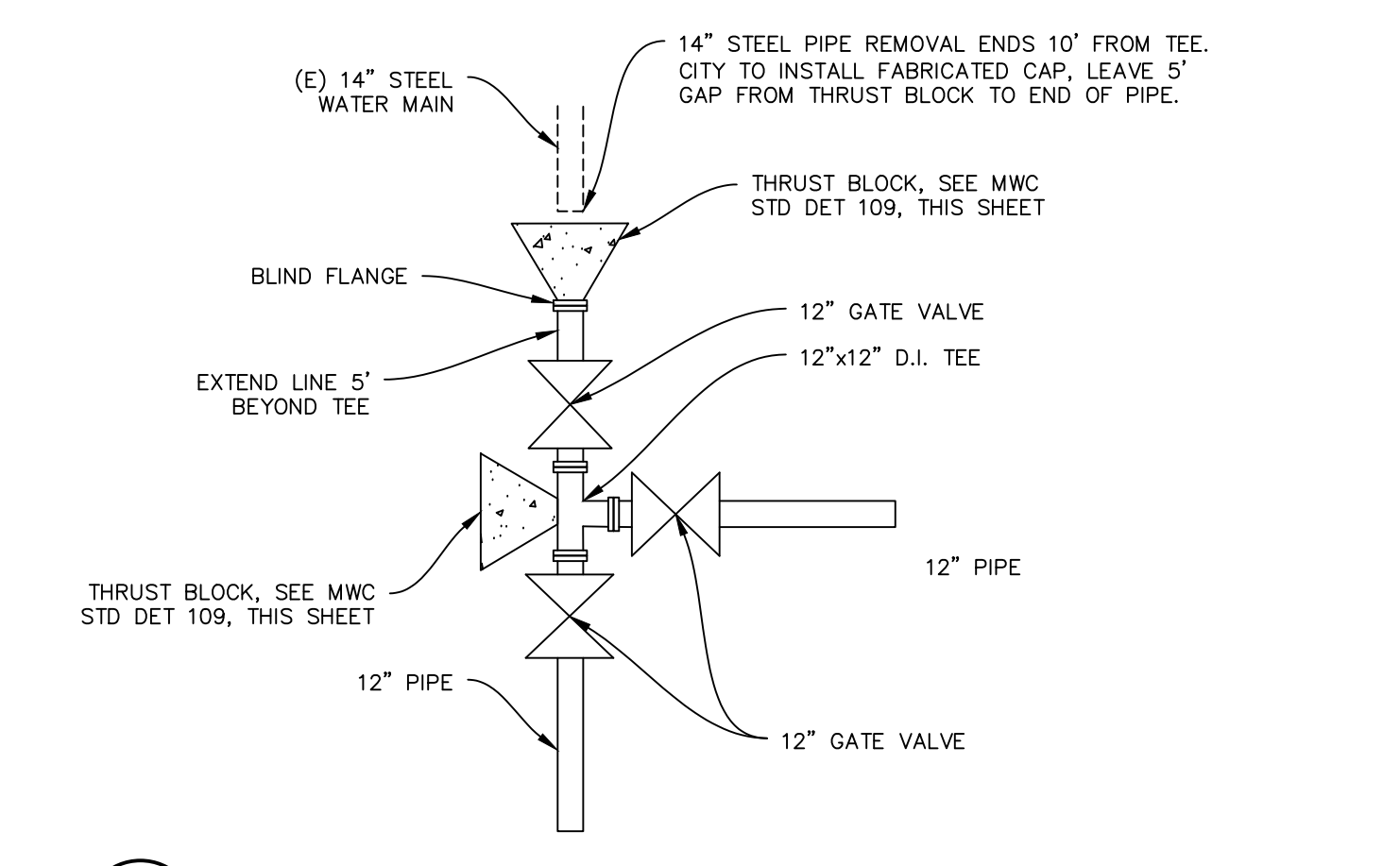
Effective Date: June 1, 2023 - November 30, 2023



3 HANDHOLE FOR ACCESS TO TRACER WIRE N.T.S.



1 STA 10+30 TEE DETAIL N.T.S.



2 STA 25+10.7 TEE DETAIL N.T.S.



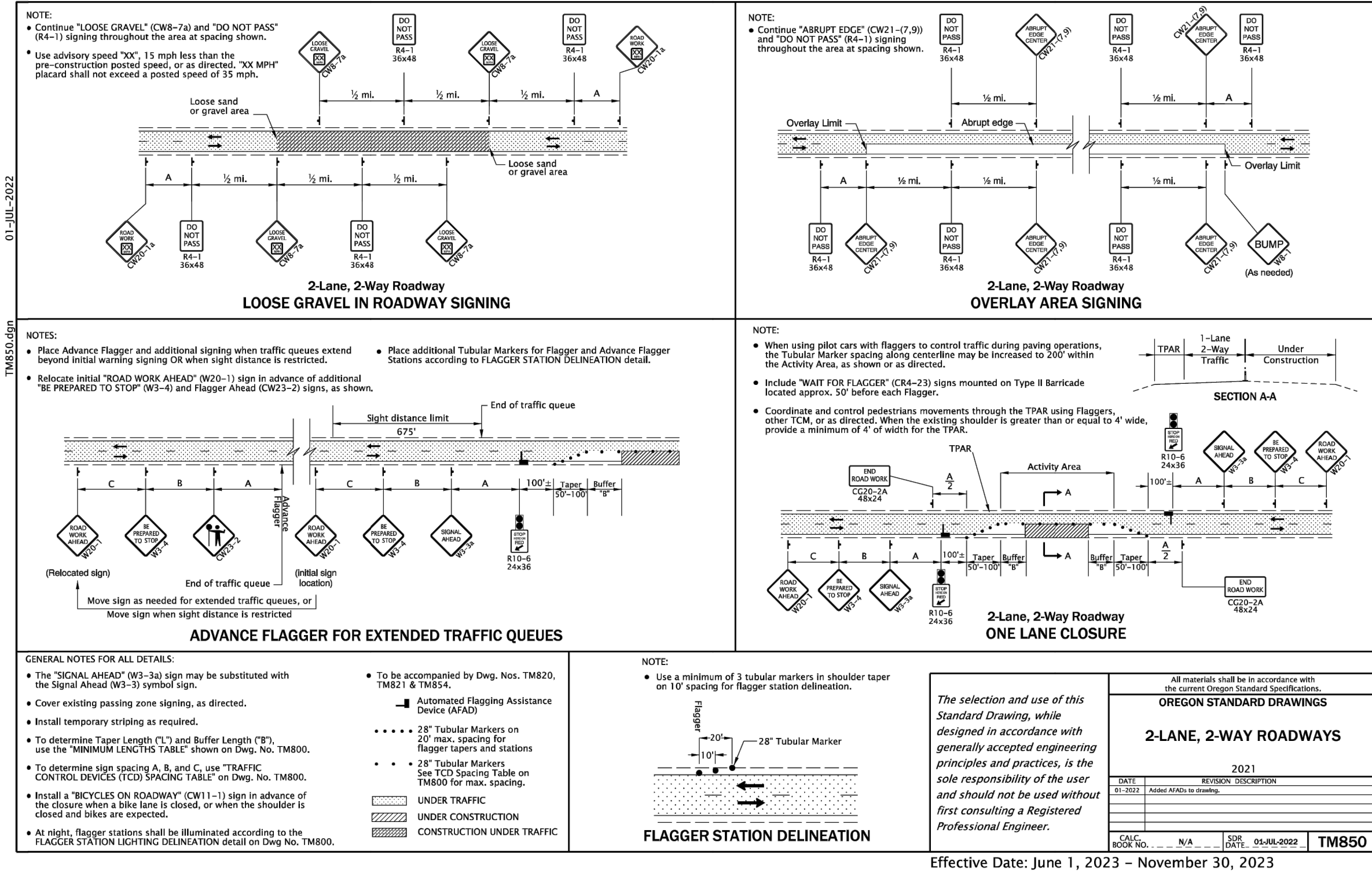
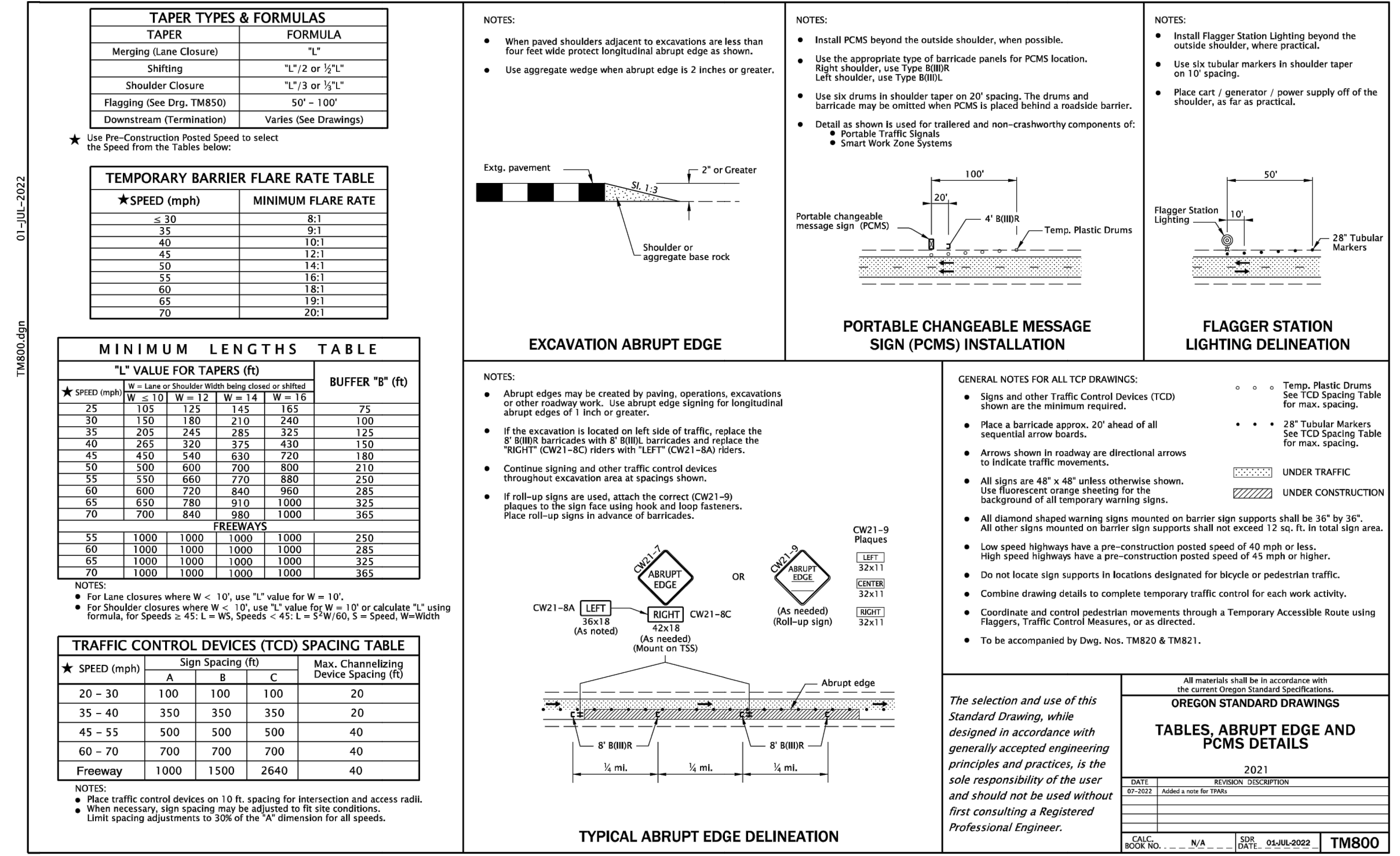
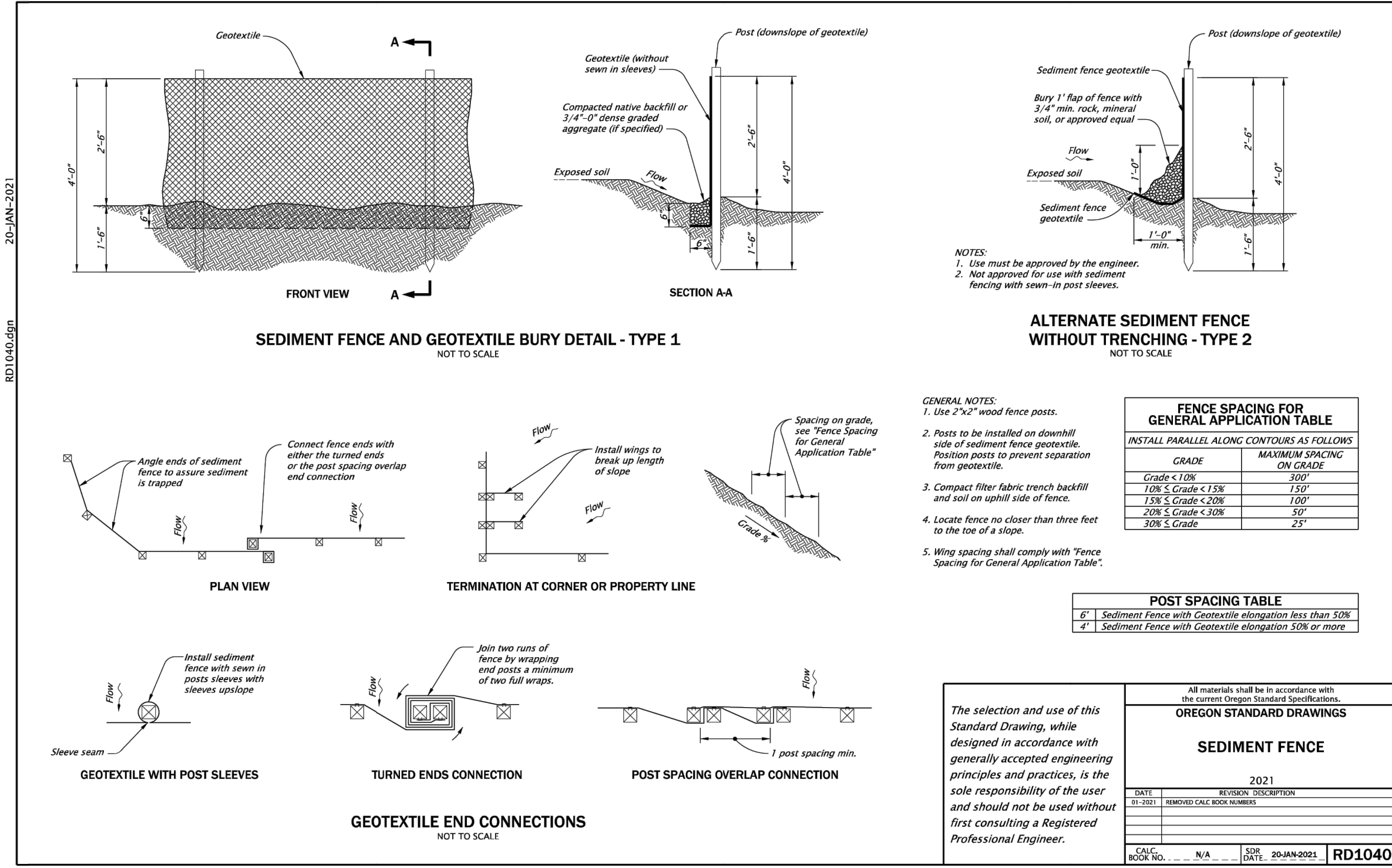
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MORTON STREET TO IVY LANE
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CITY OF ASHLAND
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SCALE SHOWN	
DATE	09/28/2023
SHEET	C8 OF 13
PROJ. NO.	3522-02

SHEET NUMBER:
C8



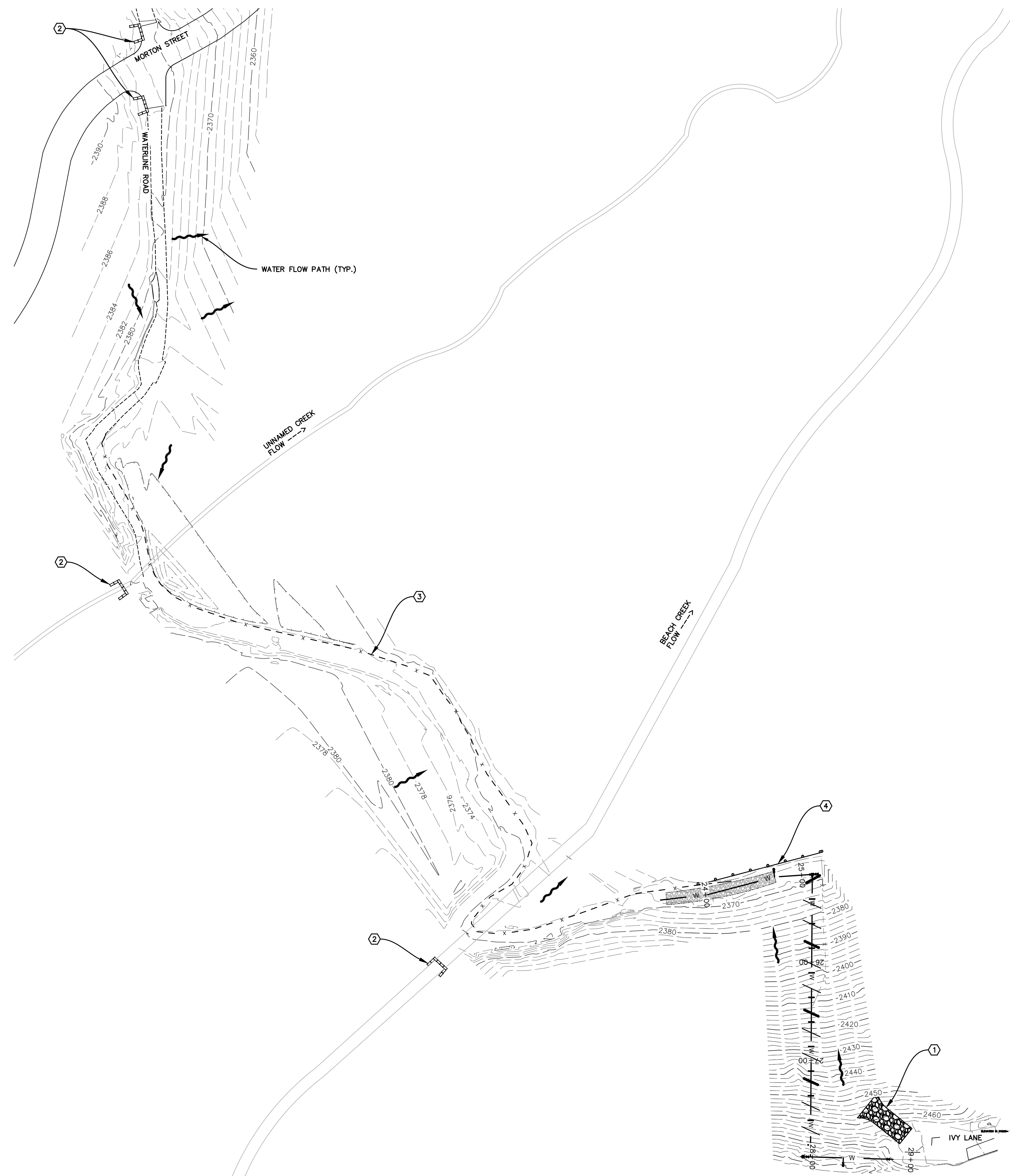
NO.	REVISION	DATE	BY

MORTON STREET TO IVY LANE WATERLINE REPLACEMENT CITY OF ASHLAND ESCP & TCP DETAILS

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09/28/2023	AES
SHEET	DRAWN BY
C11 OF 13	NSK
PROJ. NO.	CHECKED BY
3522-02	DBS

SHEET NUMBER: **C11**



STANDARD EROSION AND SEDIMENTS CONTROL PLAN NOTES

PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING AND VACUUMING MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE MEASURES AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.
2. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.
3. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS.
4. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED.
5. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS.
6. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS OF GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS.
7. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS.
8. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING Bmps SUCH AS: GRAVELED OR PAVED EXITS AND PARKING AREAS.
9. GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE Bmps MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES.
10. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE.
11. USE Bmps TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS.
12. IMPLEMENT THE FOLLOWING Bmps WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES.
13. USE WATER, SOIL-BINDING AGENTS OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL.
14. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE.
15. IF A STORMWATER TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
16. AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER Bmps MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS.
17. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER OCTOBER 01 - MAY 31.
18. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL.
19. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL.
20. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT.
21. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT.
22. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME.
23. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS.
24. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. HOWEVER, DO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY Bmps.
25. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS.
26. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP I.E. (FILTER BAG).
27. ALL EXPOSED SOILS MUST BE COVERED DURING THE WET WEATHER PERIOD, OCTOBER 01 - MAY 31.
28. IF WATER OF THE STATE IS WITHIN THE PROJECT SITE OR WITHIN 50 FEET OF THE PROJECT BOUNDARY, MAINTAIN THE EXISTING NATURAL BUFFER WITHIN THE 50-FOOT ZONE FOR THE DURATION OF THE PERMIT COVERAGE, OR MAINTAIN LESS THAN THE ENTIRE EXISTING NATURAL BUFFER AND PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROL Bmps.

CONSTRUCTION NOTES

- ① INSTALL TYPE 2 GRAVEL CONSTRUCTION ENTRANCE (4" TO 6" CLEAN ROCK) PER OREGON STANDARD DRAWING NO RD1000, SHEET C10.
- ② INSTALL INLET PROTECTION (TYPE 4) BIOFILTER BAGS PER OREGON STANDARD DRAWING NO RD1015, SHEET C10.
- ③ INSTALL 1040' OF SEDIMENT FENCE (TYPE 3) ALONG ACTIVE CONSTRUCTION AREAS PER OREGON STANDARD DRAWING NO RD1030, SHEET C10.
- ④ INSTALL 135' SEDIMENT FENCE PER OREGON STANDARD DRAWING NO RD1040, SHEET C11.



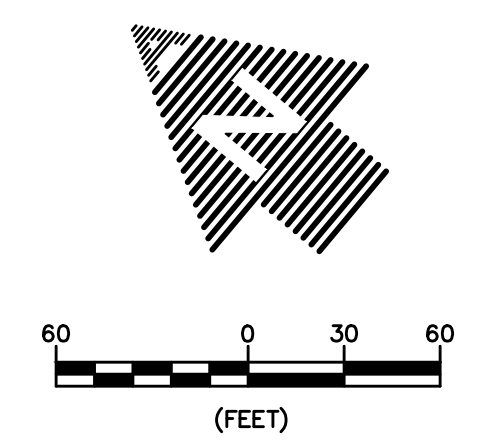
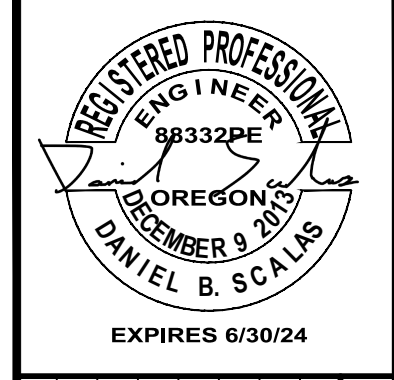
NO.	REVISION	DATE	BY

**MORTON STREET TO IVY LANE
WATERLINE REPLACEMENT
CITY OF ASHLAND
EROSION AND SEDIMENT CONTROL**

AL ADKINS
ENGINEERING & SURVEYING
1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601
SERVING S. OREGON & N. CALIFORNIA
ENGINEERING • SURVEYING • PLANNING • TESTING

DESIGNED BY DBS	SCALE SHOWN
SURVEYED BY AES	DATE 09/28/2023
DRAWN BY NSK	SHEET C12 OF 13
CHECKED BY DBS	PROJ. NO. 3522-02

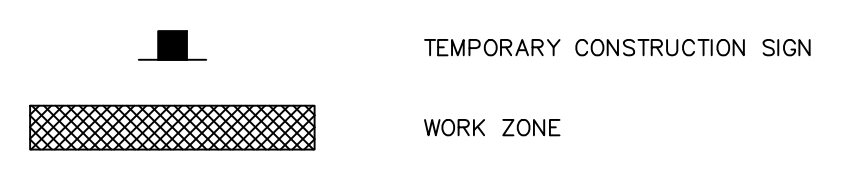
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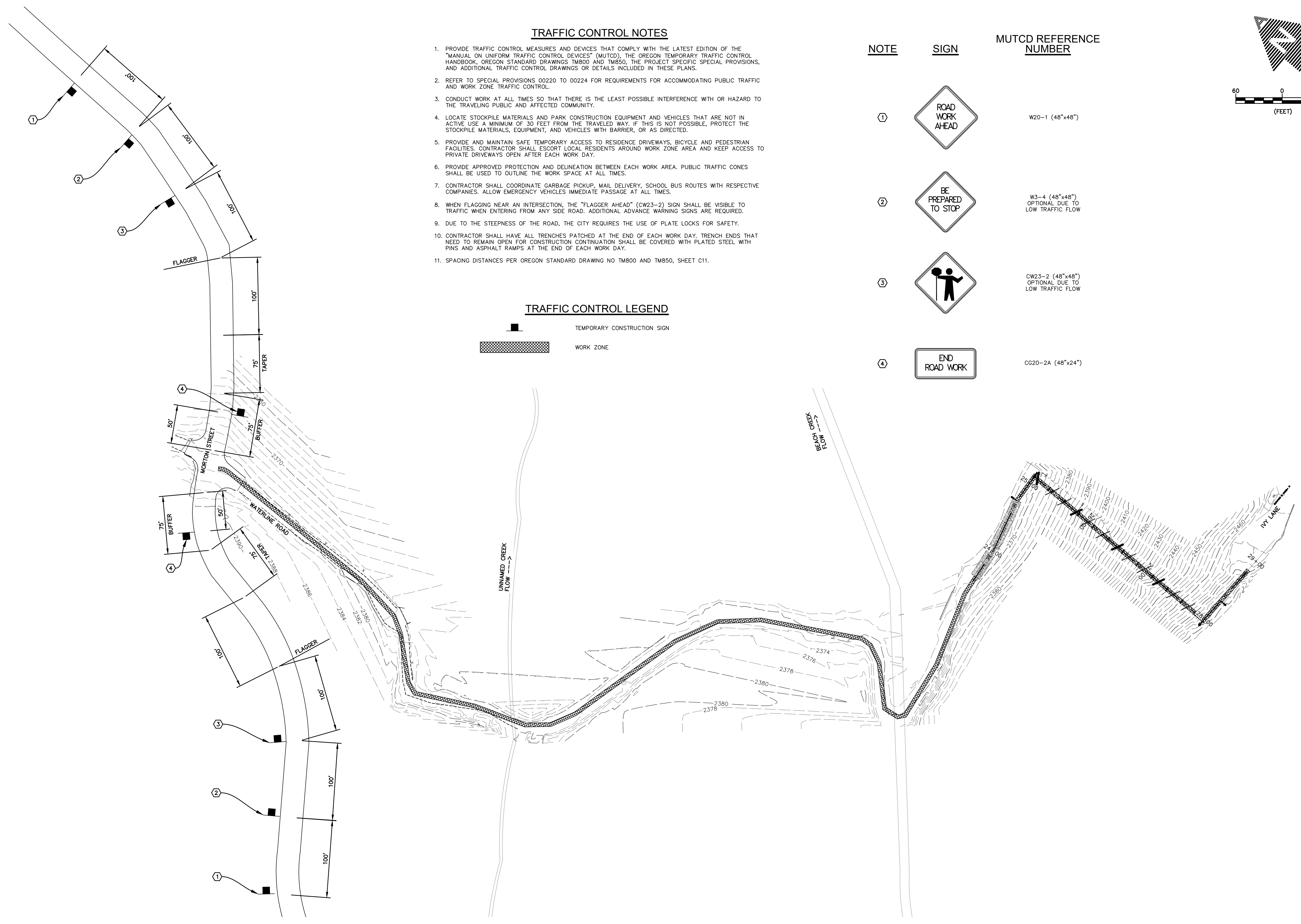
TRAFFIC CONTROL NOTES

1. PROVIDE TRAFFIC CONTROL MEASURES AND DEVICES THAT COMPLY WITH THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK, OREGON STANDARD DRAWINGS TM800 AND TM850, THE PROJECT SPECIFIC SPECIAL PROVISIONS, AND ADDITIONAL TRAFFIC CONTROL DRAWINGS OR DETAILS INCLUDED IN THESE PLANS.
2. REFER TO SPECIAL PROVISIONS 00220 TO 00224 FOR REQUIREMENTS FOR ACCOMMODATING PUBLIC TRAFFIC AND WORK ZONE TRAFFIC CONTROL.
3. CONDUCT WORK AT ALL TIMES SO THAT THERE IS THE LEAST POSSIBLE INTERFERENCE WITH OR HAZARD TO THE TRAVELING PUBLIC AND AFFECTED COMMUNITY.
4. LOCATE STOCKPILE MATERIALS AND PARK CONSTRUCTION EQUIPMENT AND VEHICLES THAT ARE NOT IN ACTIVE USE A MINIMUM OF 30 FEET FROM THE TRAVELED WAY. IF THIS IS NOT POSSIBLE, PROTECT THE STOCKPILE MATERIALS, EQUIPMENT, AND VEHICLES WITH BARRIER, OR AS DIRECTED.
5. PROVIDE AND MAINTAIN SAFE TEMPORARY ACCESS TO RESIDENCE DRIVEWAYS, BICYCLE AND PEDESTRIAN FACILITIES. CONTRACTOR SHALL ESCORT LOCAL RESIDENTS AROUND WORK ZONE AREA AND KEEP ACCESS TO PRIVATE DRIVEWAYS OPEN AFTER EACH WORK DAY.
6. PROVIDE APPROVED PROTECTION AND DELINEATION BETWEEN EACH WORK AREA. PUBLIC TRAFFIC CONES SHALL BE USED TO OUTLINE THE WORK SPACE AT ALL TIMES.
7. CONTRACTOR SHALL COORDINATE GARBAGE PICKUP, MAIL DELIVERY, SCHOOL BUS ROUTES WITH RESPECTIVE COMPANIES. ALLOW EMERGENCY VEHICLES IMMEDIATE PASSAGE AT ALL TIMES.
8. WHEN FLAGGING NEAR AN INTERSECTION, THE "FLAGGER AHEAD" (CW23-2) SIGN SHALL BE VISIBLE TO TRAFFIC WHEN ENTERING FROM ANY SIDE ROAD. ADDITIONAL ADVANCE WARNING SIGNS ARE REQUIRED.
9. DUE TO THE STEEPNESS OF THE ROAD, THE CITY REQUIRES THE USE OF PLATE LOCKS FOR SAFETY.
10. CONTRACTOR SHALL HAVE ALL TRENCHES PATCHED AT THE END OF EACH WORK DAY. TRENCH ENDS THAT NEED TO REMAIN OPEN FOR CONSTRUCTION CONTINUATION SHALL BE COVERED WITH PLATED STEEL WITH PINS AND ASPHALT RAMP AT THE END OF EACH WORK DAY.
11. SPACING DISTANCES PER OREGON STANDARD DRAWING NO TM800 AND TM850, SHEET C11.

TRAFFIC CONTROL LEGEND



NOTE	SIGN	MUTCD REFERENCE NUMBER
①		W20-1 (48"x48")
②		W3-4 (48"x48") OPTIONAL DUE TO LOW TRAFFIC FLOW
③		CW23-2 (48"x48") OPTIONAL DUE TO LOW TRAFFIC FLOW
④		CG20-2A (48"x24")



No.	REVISION	DATE	BY

**MORTON STREET TO IVY LANE
WATERLINE REPLACEMENT
CITY OF ASHLAND
TRAFFIC CONTROL PLAN**

AE ADKINS 541.884.4666
ENGINEERING & SURVEYING AdkinsEngineering.com
1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601
SERVING S. OREGON & N. CALIFORNIA
ENGINEERING • SURVEYING • PLANNING • TESTING

DESIGNED BY DBS	SCALE SHOWN
SURVEYED BY AES	DATE 09/28/2023
DRAWN BY NSK	SHEET C13 OF 13
CHECKED BY DBS	PROJ. NO. 3522-02

SHEET NUMBER:
C13


CITY OF ASHLAND
JACKSON COUNTY
STATE OF OREGON

SPECIAL PROVISIONS

FOR

MORTON STREET TO IVY STREET
WATERLINE REPLACEMENT PROJECT

PROFESSIONAL OF RECORD CERTIFICATION:

 <p>EXPIRES 6/30/24</p> <p>Seal w/signature</p> <p>Date Signed: <u>9/29/2023</u></p>	<p>I certify the Special Provision Section(s) listed below are applicable to the design for the subject project for temporary features and appurtenances, roadwork, drainage and sewers, retaining walls bases, wearing surfaces, permanent traffic safety & guidance systems, permanent traffic control and illumination systems, and right-of-way development and control. Modified Special Provisions were prepared by me or under my supervision.</p> <p>Section(s) 00110, 00120, 00130, 00140, 00150, 00160, 00165, 00170, 00180, 00190, 00195, 00196, 00197, 00199, 00205, 00210, 00220, 00221, 00222, 00223, 00224, 00280, 00290, 00295, 00305, 00310, 00320, 00330, 00331, 00340, 00405, 00415, 00440, 00442, 00445, 00495, 00640, 00641 00730, 00744, 01140, 01150, 01160, 02001, 02040, 02470, 02475, 02480, 02485, 02510, 02690</p>
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FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

PART II - SPECIAL PROVISIONS

IVY-MORTON WATERLINE PROJECT 2014-04

WORK TO BE DONE

The Work to be done under this Contract consists of the following:

1. Install and remove Temporary Traffic Control and Erosion Control Measures.
2. Replace ~1,510 feet of existing 14-inch steel water pipe with 12-inch ductile iron pipe along the existing waterline alignment from Morton Street to Ivy Street.
3. Add an additional ~370 feet of new 12-inch waterline from the end of the existing alignment to Ivy Street.

AUTHORITY OF CONSULTANT

The consultant will be directly in charge of the Project. However, his authority on this Project is as designated in the official "Consultant Agreement" for this Project, and as designated by the Engineer. This does not include authority to approve Contract changes or semifinal and Final Inspection of the Project.

APPLICABLE SPECIFICATIONS

The Specifications that are applicable to the Work on this Project is the 2021 edition of the "Oregon Standard Specifications for Construction", as modified by these Special Provisions. All Sections in Part00100 apply, whether or not modified or referenced in the Special Provisions.

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.

CLASS OF PROJECT

This is a Locally Funded Project.

CITY OF ASHLAND SPECIAL PROVISIONS

SECTION 00110 – ORGANIZATION, CONVENTIONS, ABBREVIATIONS AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications modified as follows:

00110.05(e) Reference to Websites - Add the following bullet list to the end of this subsection:

- American Traffic Safety Services Association (ATSSA)
www.atssa.com
- EquipmentWatch
www.equipmentwatch.com
- ODOT Construction Section
www.oregon.gov/odot/construction/pages/index.aspx
- ODOT Construction Section - Qualified Products List (QPL)
www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx
- ODOT Construction Surveying Manual for Contractors
www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf
- ODOT Estimating - Steel Material Values
www.oregon.gov/ODOT/Business/Pages/Steel.aspx
- ODOT Oregon Trucking Online - "Highway Restriction Notice - Size and/or Weight" (Form No. 734-2357)
www.oregontruckingonline.com/cf/MCAD/pubMetaEntry/restriction/
- ODOT Traffic Control Plans Unit
www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx
- ODOT Traffic Standards
www.oregon.gov/ODOT/Engineering/Pages/Signals.aspx
- Oregon Legislative Counsel
www.oregonlegislature.gov/lc
- Oregon Secretary of State: State Archives
sos.oregon.gov/archives/Pages/default.asp

00110.20 Definitions – Add the following paragraph to the beginning of this sub-section:

All of the following definitions are applicable to the standard specifications and associated special provisions.

SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES

00120.00 Prequalification of Bidders: Delete this subsection of the Standard Specifications.

00120.01 General Bidding Requirements - Replace this subsection, except subsection number and title, with

the following:

The Agency will only accept paper Bids. No electronic Bids will be allowed. Delete any reference to electronic Bids within the 2021 edition of the "Oregon Standard Specifications for Construction".

As and when applicable, the Contractor shall maintain the certifications required by ORS 279A.107.

00120.05 Request for Plans, Special Provisions, and Bid Booklets - Add the following to the end of this subsection:

The Plans, which are applicable to the Work to be performed under the Contract, bear title and date as follows:

**City of Ashland
Morton Street to Ivy Street
Waterline Replacement Project
Ashland, Oregon
October, 2023**

00120.10 Bid Booklet – In the paragraph that begins "The Bid Section includes all pages after...", add the following bullet to the bullet list:

- Certificate of non-discrimination regarding ORS 279A.110 and certificate regarding policy and practice against sexual harassment, sexual assault and discrimination against employees who are members of a protected class as required by Chapter 212, Oregon Laws 2017 (House Bill 3060).

00120.15 Examination of Work Site and Solicitation Documents; Consideration of Conditions to be Encountered – Add the following to the end of this subsection:

Refer to Agency's Invitation to Bid.

00120.40(f) Disclosure of First-Tier Subcontractors - Replace this subsection, except for the subsection number and title, with the following:

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

- 5% of the total Project Bid, but at least \$15,000; or
 - \$350,000, regardless of the percentage of the total Project Bid.
- For each Subcontractor listed, Bidders shall state:
- The name of the Subcontractor;
 - The dollar amount of the subcontract; and
 - The category of Work that the Subcontractor would be performing.

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

The Subcontractor Disclosure Form may be submitted for a paper Bid by filling out the Subcontractor Disclosure Form printed from the Bid Form.

Subcontractor Disclosure Forms submitted will be considered late if not received by the Agency within

2 working hours after the time designated for receiving Bids.

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

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

00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids – Replace this subsection with the following:

The Agency reserves the right to issue Addenda making changes or corrections to the Plans, Specifications, or quantities. The Agency will provide Addenda only by publishing them on the OregonBuys website.

Addenda may be downloaded from the OregonBuys website. Bidders shall be responsible for checking the website for Addenda. Bidders should check the website weekly until the week of Bid Closing and daily the week of Bid Closing.

Bidders, not the Agency, shall be responsible for the failure of Bidders to check and download Addenda. Bids shall incorporate all Addenda. Bids may be rejected if opened and found by the Agency to not be based on all Addenda published on the OregonBuys website before Bid Closing.

00120.60(a) Paper Bids – Replace ODOT Procurement Office with the City of Ashland.

00120.60(b) Electronic Bids – Delete this subsection.

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:

00140.90 Final Trimming and Cleanup – Add the following bulleted items to this subsection:

- Where private property(s) will be affected by construction but cannot realistically be restored to its pre-existing condition before the contractor will leave the site, agreement shall be reached with the owners of the property(s) regarding how the site shall be left and the Agency Inspector shall review the agreement before the excavation or other work begins.
- Review clean-up of areas adjacent to private property with owners or owner's agents, grade non- landscaped shoulders, parkrows, or unsightly areas caused by the construction to a smooth condition free of sudden transitions, piles, or trip hazards, unless specific objections are raised by the property owner or owner's agent, If objections are raised, contact Public Works Inspector to inspect site and provide direction. Do not negatively impact trees or other adjacent plants.
- Notify affected owners and occupants of adjacent properties of completion of clean-up prior to leaving the site and verify that no other clean-up work remains. Restoration of private properties shall be to the satisfaction of the property owner and may include re-seeding of staging areas.
- Submit revised drawing of installed utility locations if location changed.

SECTION 00150 - CONTROL OF WORK

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

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

The Contractor shall perform the Contractor responsibilities described in the Construction Surveying Manual for Contractors, Chapter 1.6 (see Section 00305).

The Contractor shall perform slope staking including intersections and set stakes defining limits for clearing which approximate right-of-way and easements.

00150.50(c) Contractor Responsibilities – Replace the bullet that begins "Protect from damage or disturbance any Utility that remains..." with the following bullet:

- Protect from damage or disturbance any Utility that remains within the area in which Work is being performed. Maintain and re-establish location marks according to OAR 952-001-0090(3)(a). Coordinate re-establishment of the location marks with the associated Utility;

Replace the bullet that begins "Determine the exact location before excavating within ..." with the following bullet:

- Determine the exact location before excavating within the tolerance zone according to OAR 952-001-0090(3)(c);

Replace the bullet that begins " In addition to the notification required in OAR 952-001-0090(5), notify the Engineer..." with the following bullet:

- In addition to the notification required in OAR 952-001-0090(6), notify the Engineer and the Utility as soon as the Contractor discovers any previously unknown Utility conflicts or issues. Contrary to the OAR, stop excavating until directed by the Engineer and allow the Utility a minimum of two weeks to relocate or resolve the previously unknown Utility issues; and

Add the following subsection:

00150.50(f) Utility Information -The Contractor shall contact those Utilities having buried facilities and request that they locate and mark them for their protection prior to construction.

Utility	Contact Person's Name, Email, and Phone Number
City of Ashland Water Department	Stephen Walker, steve.walker@ashland.or.us , (541) 552-2326
City of Ashland Wastewater Department	Jason Robustelli, jason@robustelli@ashland.or.us , (541) 552-2326
Ashland Fiber Network	Jason Wegner, jason.wegner@ashland.or.us , (541) 552-2222 ext. -2417
Charter Communications	Michael Hall, Michael.Hall4@charter.com ,
CenturyLink QN	Gary Tucker, gary.tucker@centrylink.com (541) 291-0072

Avista Utilities-"Gas Utility"

Mike Smith, (541) 858-4758

City of Ashland Electric Department
"Power Supplier"

Thomas McBartlett, Thomas.McBartlett@ashland.or.us,
(541) 488-5357

- The Contractor shall notify, in writing, the Utilities listed above, with a copy to the Engineer, at least 14 Calendar Days before beginning Work on the Project.
- The Contractor shall notify, in writing, CenturyLink, with a copy to the Engineer, at least 14 Calendar Days before beginning construction activities within 10 feet of CenturyLink's buried fiberoptic facilities.
The Contractor shall obtain written approval from CenturyLink for excavating within 10 feet of a buried fiber optic communications cable. CenturyLink may require an On-Site safety watcher at no cost to the Contractor for monitoring purposes. The Contractor shall provide the Engineer a copy of the written approval before beginning work.
- The Contractor shall notify the Gas Utility in writing, with a copy to the Engineer, at least 14 Calendar Days before beginning Work within 10 feet of the gas pipeline.
In the event of an emergency, and in addition to the calls required by the Utilities notification system, the Contractor shall call:
 - Avista Corporation 1-800-227-9187
- The Contractor shall notify the Power Supplier(s) in writing, with a copy to the Engineer, at least 14 Calendar Days before beginning Work within 10 feet of the power line(s).

Energized power lines overhang portions of the Work with a minimum vertical clearance of 18 feet. The Contractor shall maintain at least 10 feet of safety clearance. Exceptions require written approval from the Power Supplier and may require an On-Site safety watcher, at no cost to the Contractor. The Contractor shall provide the Engineer a copy of the written approval of exception before beginning work.

SECTION 00160 – SOURCE MATERIALS

Comply with Section 00160 of the Standard Specifications.

SECTION 00165 – QUALITY OF MATERIALS

Comply with Section 00160 of the Standard Specifications modified as follows:

00160.07 Electrical Equipment and Materials - Replace the paragraph beginning "When the Contract specifies the use of..." with the following paragraph:

When the Contract specifies the use of the Blue Sheets and Green Sheets, unless specified as the subject of an exemption per ORS 279C.345, the Agency may approve for use a product qualified for inclusion in a later edition of the Blue Sheets and Green Sheets or other equivalent product that meets the requirements of the Blue Sheets, following the Blue Sheet Qualification/Specification Information, or the Green Sheets, following the Green Sheet Qualification/Specification Information, if the Agency finds the product acceptable for use on the Project.

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

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

00170.00 General - Replace the paragraph that begins "The Contractor shall comply with all laws, ordinances, ..." with the following paragraph:

The Contractor shall comply with all laws, ordinances, codes, regulations, executive orders and administrative rules (collectively referred to as "Laws" in this Section) that relate to the Work or to those engaged in the Work. Where the provisions of the Contract are inconsistent or in conflict, the Contractor shall comply with the more stringent standard.

00170.03 Furnishing Right-of-Way and Permits

Add the following to this subsection:

Obtain all necessary Permits from the City of Ashland Public Works Department, other approving agencies where required and listing the City of Ashland as additional insured parties, for all construction work within the Public Right of Way, in Public Utility Easements, or on Public Works owned or operated systems within or outside of City Limits a minimum of 3 days prior to commencing work.

00170.70(a) Insurance Coverages - Replace this subsection with the following:

After the bullet "Commercial Automobile Liability" add the following insurance coverages:

The following insurance coverages and dollar amounts are required pursuant to this subsection:

Insurance Coverages	Combined Single Limit per Occurrence	Annual Aggregate Limit
Commercial General Liability	\$2,000,000	\$2,000,000
Commercial Automobile Liability	\$2,000,000	(aggregate limit not required)

00170.70(d) Additional Insured – Add the following as Additional Insureds under the Contract:

- The City of Ashland and its officers, agents, and employees
- Ashland City Council
- Adkins Engineering and Surveying, Inc.

00170.70(g) Certificate(s) of Insurance – Replace the bullet that begins “List the “State of Oregon, the Oregon Transportation...” with the following bullet:

- List the “City of Ashland and their respective officers, members, agents and employees” as a Certificate holder and endorse as an Additional Insured;

00170.70(h) Agency Acceptance - Replace the paragraph that begins “All insurance and insurance providers are ...” with the following paragraph:

All insurance and insurance providers are subject to Agency acceptance. In addition, all of the following are subject to Agency acceptance and, if requested by Agency, the Contractor shall provide complete copies of the following to Agency’s representatives responsible for verification of the insurance coverages required by the Contract: insurance policies, endorsements, self-insurance documents and related insurance documents.

00170.70(k) Builder's Risk Installation Floater - Delete this subsection.

00170.72 Indemnity/Hold Harmless - Add the following paragraph and bullets to the end of this subsection:

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

- The City of Ashland and its officers, agents, and employees

- Ashland City Council
- Adkins Engineering and Surveying, Inc.

00170.85 (b) Contractor Furnished Warranties

Add the following paragraph to this subsection:

The Contractor shall warrant all work performed under this Contract for a period of one (1) year from the date of final acceptance, as specified in Subsection 00150.97 (c) of these provisions.

SECTION 00180 - PROSECUTION AND PROGRESS

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

00180.20(e) Trucking - Replace the paragraph that begins " This Section does not apply to delivery ..."with the following paragraph:

This Section does not apply to delivery of Materials by or for or from a Supplier. This subsection applies to all truck hauling of Materials not performed with trucks owned (or rented) and operated by the Contractor:

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
Contract Time.....	00180.50(h)
Closed Lanes	00220.40(e)(1)
Regulated Work Areas	00290.34(a)
Opening Sections to Traffic.....	00744.51

The Contractor shall be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this subsection.

00180.41 Project Work Schedules - After the paragraph that begins "One of the following Type..." add the following paragraph:

In addition to the "look ahead" Project Work schedule, a Type A schedule as detailed in the Standard Specifications is required on this Contract.

00180.42 Preconstruction Conference - Add the following to the end of this subsection:

The Contractor shall conduct a group Utilities scheduling meeting with representatives from the Utility companies involved with this Project and the Engineer before the preconstruction conference. The Contractor shall incorporate the Utilities time needs into the Contractor's schedule submitted at the preconstruction conference.

Add the following subsection:

00180.50(h) Contract Time - There is one Contract Time on this Project as follows:

- (1) The Contractor shall complete all Work to be done under the Contract, except for seeding establishment and plant establishment, not later than 6/30/2024.

SECTION 00190 - MEASUREMENT OF PAY QUANTITIES

Comply with Section 00190 of the Standard Specifications.

00190.20(a) General - Replace the paragraph that begins "Unless otherwise provided in the Contract, Pay ..." with the following paragraph:

Unless otherwise provided in the Contract, Pay Items to be measured by weight shall include all Contractor costs for providing, maintaining, inspecting, and testing scales; for furnishing appropriate weigh tickets; for self-printing scales; for electronic weigh memo system(s); and for transporting Materials to the scales or to check weighing.

SECTION 00195 - PAYMENT

Comply with Section 00195 of the Standard Specifications.

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.

SECTION 00199 - DISAGREEMENTS, PROTESTS, AND CLAIMS

Comply with Section 00199 of the Standard Specifications modified as follows:

00199.40(c) Step 2: Agency Level Review - Replace the paragraph that begins "If the Contractor does not accept the Step 2 ..." with the following paragraph:

If the Contractor does not accept the Step 2 decision, the Contractor may, within 10 Calendar Days of receipt of the written decision, request in writing through the Engineer that the claim be advanced to Step 3 or 4 (see (d) and (e) below), as applicable. For purposes of determining which process to use for claims under Step 3 or 4 concerning a combination of additional compensation and Contract Time or for Contract Time only, the value of the claim or portion of the claim for Contract Time will be assumed to be the appropriate Liquidated Damages as provided in 00180.85 multiplied by the number of Calendar Days in question. If applicable, advancement of the claim is subject to the provisions of 00199.60 regarding waiver and dismissal of the claim or portions of the claim.

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

00220.02(a) General Requirements – Add the following bullets to the end of the bullet list:

- Maintain one traffic lane, controlled by flaggers, open to the public at all times unless approved in writing by the Agency.
- Do not stockpile or park equipment or materials in the right-of-way outside of working hours.

- Complete trench patching of all open trenches and excavations by the end of work day every Friday unless approved otherwise in writing by the Agency.

00220.03(c) Adjacent Resident Notification – Notify all adjacent property owners, businesses, or residents within project boundaries, at least 72 hours prior to the start of construction. Notifications can be accomplished by mail, telephone conversation, door hangers, or door-to-door visit. Provide adequate prior notice (minimum 48 hours) to allow those impacted by the Work to adjust their schedules and patterns accordingly when construction may impact access to and from the adjacent property.

Provide the following information in the notifications and issue updates if the information provided changes:

- Who will be doing the work (name and 24 hr. phone number of contractor)
- What the project work will consist of (e.g. excavation, patching, flatwork, etc.)
- Where the work will be done (in the public way and/or on private property)

00220.40(e)(1) Closed Lanes – Replace this subsection with the following:

(1) Closed Lanes – One or more Traffic Lanes may be closed on Morton Street when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e)(2):

- Daily, Monday through Friday, between 7:00 a.m. and 4:30 p.m.

00220.60(a)(1) Contractor Responsibility – In the paragraph that begins "Do the following at no additional...", add the following bullet to the end of the bullet list:

- During emulsified asphalt chip seal operations, broom the surface being used by bicycles as soon as practicable to keep it free of all dirt, mud, gravel, and other harmful materials. The surface includes bike paths, bike lanes, Roadway Shoulders or the outside 6 feet of the Roadway.

SECTION 00221 – COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

Comply with Section 00221 of the Standard Specifications modified as follows:

00221.01(b) Abbreviations, Definitions, and Standards – Add the following to the end of the subsection:

Temporary Walk – Temporary Surfacing for a sidewalk or Multi-Use Path designated to be used by pedestrians, bicyclists, or other non-motorized users.

00221.03 Traffic Safety and Operations - Replace the bullet that begins “When paving operations create...” with the following bullet:

- When paving operations create an abrupt or sloped edge drop off greater than 1 inch, protect traffic by installing signing according to the "2 Lane, 2 Way Roadway Overlay Area" detail shown on the Standard Drawings. Protect longitudinal and transverse Pavement joints by placing and maintaining an asphalt concrete wedge according to 00221.07(c)(1).

00221.06 (c) Tourist-Oriented Directional and Business Logo Signs - Replace this subsection, except for the subsection number and title, with the following:

Submit one of the following for approval, at least 5 Calendar Days before the preconstruction conference:

(1) No Signs - If there are no tourist-oriented directional (TOD) or business logo signs on the Project, a written notification that no TOD or business logo signs exist within the Project limits or

(2) **Signs** - Submit one copy of a sketch map of the Project showing all existing TOD and business logo signs and a written narrative describing how these signs will be kept in service and protected throughout all the construction stages. If modifications are necessary, submit updated information to the Engineer for approval at least 21 Calendar Days before the change is needed.

00221.07(c)(1) Paving - Replace this subsection, except subsection number and title, with the following:

When the longitudinal joint is greater than 1 inch in height, install additional TCD according to 00221.03. Complete the placing of ACP and construction of paving joints according to 00735.48, 00735.49, 00743.45, 00744.44, 00744.45, 00745.47, and 00745.48, as applicable.

00221.88 Measurement, Method "B" – Replace this subsection, except for the subsection number, with the following:

00221.88 Measurement, Method "B" – Lump Sum Basis – All work zone traffic control will be paid for at the Contract lump sum amount for the item "Temporary Work Zone Traffic Control, Complete".

Payment will be payment in full for furnishing, installing, moving, operating, maintaining, inspecting, and removing Materials and TCD, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

00221.90 Payment – All work zone traffic control will be paid for at the Contract lump sum amount for the item "Temporary Work Zone Traffic Control, Complete".

00221.90(b) Temporary Protection and Direction of Traffic - Delete the bullet that begins "Moving temporary barrier to and from Contractor's stockpile areas".

Replace the bullet that begins "When the Schedule of Items does not include ..." with the following bullet:

- Preparing and signing the daily "Traffic Control Inspection Report", when a TCS is not included in the Schedule of Items or when a TCS is not onsite for a work shift.

SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS

Comply with Section 00222 of the Standard Specifications modified as follows:

00222.40(e) Temporary Sign Placement – Add the following to the end of the bullet list:

- Install "ROAD WORK AHEAD" (W20-1-48) signs according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans.
- Install beyond each end of the Project, facing outgoing traffic, an "END ROAD WORK" (CG20-2A-24) sign a distance of $(A \div 2)$ according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans.

SECTION 00223 – WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES

Comply with Section 00223 of the Standard Specifications.

SECTION 00224 – TEMPORARY TRAFFIC CHANNELIZING DEVICES

Comply with Section 00224 of the Standard Specifications modified as follows:

00224.46 Pavement Edge Delineation - Replace the paragraph that begins "Place tubular or conical markers..." with the following paragraph:

Place tubular or conical markers to delineate the edge of Pavement immediately after construction Work or

paving operations create an abrupt or sloped edge drop-off greater than 1 inch in height along the right hand or left hand Shoulder.

00224.91 Payment, Lump Sum or Incidental Basis - Replace this subsection, except for the subsection number and title, with the following:

When the Contract indicates payment for Work under 00221.98 Payment, Method "B" - Lump Sum Basis or 00221.99 Payment, Method "C" - Incidental Basis, no separate or additional payment will be made for Work performed under this Section. Payment will be included in payment according to 00221.98 or 00221.99.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

00280.00 Scope - Replace the paragraph that begins "This Work also consists of providing temporary ..." with the following paragraphs:

This Work also consists of providing temporary erosion and sediment control (ESC) measures and furnishing, installing, moving, operating, maintaining, inspecting, and removing ESC throughout the Project area according to the Standard Drawings, the erosion and sediment control plan (ESCP), the Specifications, or as directed, until the site is permanently stabilized.

A NPDES 1200-CA permit is not applicable to this Project. Comply with all applicable conditions of this Section.

00280.06 Erosion and Sediment Control Manager - Delete this subsection.

00280.46(a) Construction Entrances - Add the following to the end of this subsection:

Construct the construction entrances as shown or directed.

00280.46(h) Temporary Sediment Trap - Add the following paragraph to the end of this subsection:

Where location of Temporary Sediment Trap is used post-construction for water quality treatment, storage or infiltration, remove sediment and soil to a depth of 18" and replace to finish grade with material approved by engineer.

00280.46(i) Concrete Washout - Add the following paragraph to the end of this subsection:

Locate concrete wash basins and concrete waste disposal to prevent stormwater that has been in contact with concrete wash or waste concrete from contaminating Waters of the State or stormwater inlets or conveyances. Handle wash water as waste. Do not dispose of concrete wash water or wash out concrete trucks or tools onto the ground, or into storm drains, open ditches, streets, or streams.

Add the following subsection:

00280.46(j) Access Routes - Stabilize unpaved access and haul routes within the Project Site with Aggregate or as approved by Engineer.

00280.62 Inspection and Monitoring - Replace the paragraph that begins "Ensure that regular site inspection ..." with the following paragraphs:

Inspect the Project Site and all ESC devices for potential erosion or sediment movement on a weekly basis and when 1/2 inch or more of rainfall occurs within a 24 hour period, including weekend and holidays.

If a significant noncompliance or serious water quality issue occurs that could endanger health or the

environment, verbally report it to the Engineer within 24 hours.

00280.90 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) Erosion Control.....	Lump Sum

Item (a) includes:

- mobilization
- furnishing, stockpiling, protecting, restocking, and removing emergency Materials
- preparing Project for a period of extended non-activity
- inspecting, maintaining, and removing erosion control devices
- restoring, mulching, tacking, and seeding all disturbed ground, Work, and storage areas not otherwise covered

Partial payment for items (a) will be made as follows:

- When the initial Contractor developed ESCP, narrative, and schedule are complete and accepted, and the initial erosion control devices are installed25%
- When 50 percent of the Contract is complete, excluding advances on Materials.....25%
- When 75 percent of the Contract is complete, excluding advances on Materials25%
- At completion of the Work covered by this Section.....25%

SECTION 00290 - ENVIRONMENTAL PROTECTION

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

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

00290.30(a)(7) Water Quality:

- Do not discharge contaminated or sediment-laden water, including drilling fluids and waste, or water contained within a work area isolation, directly into any roadside gutters or waters of the State or U.S. until it has been satisfactorily treated (using a best management practice such as a filter, settlement pond, bio-bag, dirt-bag, or pumping to a vegetated upland location). Treatment shall meet the turbidity requirements below.
- Do not use permanent stormwater quality treatment facilities to treat construction runoff unless prescribed by an ESCP approved under Section 00280
- If construction discharge water is released using an outfall or diffuser port, do not exceed velocities more than 4 feet per second, and do not exceed an aperture size of 1 inch.
- Do not use explosives under water.
- Implement containment measures adequate to prevent pollutants or construction and demolition materials, such as waste spoils, fuel or petroleum products, concrete cure water, silt, welding slag and grindings, concrete saw cutting by-products and sandblasting abrasives, from entering roadside gutters or waters of the State or U.S.

- Implement containment measures adequate to prevent flowing stream water from coming into contact with concrete or grout within the first 24 hours after placement.
- Do not end-dump riprap into the waters of the State or U.S. Place riprap from above the ordinary high water line.
- Cease project operations under high flow conditions that may result in inundation of the project area, except for efforts to avoid or minimize resource damage.
- The Engineer retains the authority to temporarily halt or modify the Work in case of excessive turbidity or damage to natural resources.
- If Work activities violate permit conditions or any requirement of this subsection, stop all in-water work activities and notify the Engineer.
- Do not cause a visible turbidity plume in waters of the State or U.S.

00290.42 Tree Protection - Add the following section:

City of Ashland Tree Protection

Tree removals shall be limited solely to those identified on the Tree Removal Table or as shown on the Construction Plans.

The Contractor shall take all necessary precautions to avoid damage to existing trees within the work area. As a minimum, the contractor will provide the following:

- **Protective Fencing:** As indicated on the plans or as directed by the engineer, the contractor shall provide temporary protective fencing. Fencing shall be installed at the drip line of the trees.
 1. Protective fencing shall occur around all existing trees and planted areas to be “saved and protected” and existing trees in adjacent areas, that occur within 30 feet of a demolition feature requiring the use of heavy equipment, for example, built structures, buildings and retaining walls, and around trees adjacent to the paths of travel for demolition and construction equipment. Install metal tee posts plumb and evenly spaced not to exceed eight feet along the fence line. Drive posts 18 to 24 inches into the ground; adjacent posts shall be within four inches of the same height above grade.
 2. All protective fence support posts shall have a minimum spacing distance of eight feet on center. Posts shall be placed in 18-24 inches deep, six-inch diameter augured hole and backfilled with ¾ inch minus crushed rock. All posts shall be made vertical and ridged to top of fence. If support roots of trees are encountered during post placement, move post to next acceptable location or consult the City’s arborist.
- **Tieback Protection:** Protect existing trees and plants against all types of damage. Tie back all flexible limbs and overhead branches which may, in the opinion of the Landscape Architect and or representative arborist, may be damaged by the passage or activity of equipment.
- **Excavation:**
 1. Minimize Excavation: Install shoring or other protective support systems to minimize sloping or benching of excavations.
 2. Excavation Within Drip Line: Do not excavate within tree drip line, unless otherwise indicated. No tree limbs may be removed without the written approval of the representative arborist. Excavation within drip line shall only occur under the direction of the representative arborist. Major lateral roots or taproots shall not be cut unless approved in writing by the arborist or under the direction of the representative arborist. Where excavation for new construction is required within tree drip lines, hand excavate to minimize damage to root systems. Use narrow-tine spading forks and comb soil to expose roots.
 - a. Notify project arborist to review areas of impact 48 hours prior to initiation of work.
 - b. Relocate roots in backfill areas wherever possible.
 - c. Roots encountered immediately adjacent to location of new construction and relocations are not practical, are to be cut appropriately three inches (75 mm) back from new construction. Prune torn roots with clean cut.

- d. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap.
- e. Water and maintain in a moist condition and temporarily support and protect roots from damage until they are permanently relocated and covered with earth.
- **Utility Trenching:** Where utility trenches are required within tree drip lines, tunnel under or around any roots greater than two inches in diameter by drilling, pipe jacking, or digging by hand.
 1. Notify project representative arborist to review areas of impact 48 hours prior to initiation of work.
 2. Root Pruning: Do not cut main lateral roots or tap roots; cut only smaller roots that interfere with installation of new work. Cut roots with sharp pruning instruments; do not break or chop. If in doubt, contact arborist.
 3. Consult with arborist to determine if soil aeration may be necessary following utility installation if excessive compaction results from heavy equipment.
- **Regrading:**
 1. Grade Lowering: Where new finish grade is indicated below existing grade around trees, slope grade away from trees as recommended by arborist.
 - a. Notify project arborist to review areas of impact 48 hours prior to initiation of work.
 - b. Root Pruning: Prune tree roots exposed during grade lowering. Do not cut main lateral roots or tap roots; cut only smaller roots. Cut roots with sharp pruning instruments; do not break or chop.
 - c. Do not alter original grade more than three inches (75 mm) within drip-line of retained trees.
 2. Minor Fills: Where existing grade is six inches (150 mm) or less below elevation of finish grade shown, fill with planting soil mix. Place planting soil mix in a single un-compacted layer and hand grade to required finish elevations.
- **Tree Pruning:**
 1. General:
 - a. All tree pruning shall occur under the direction of the arborist. Notify the arborist to review areas of impact 48 hours prior to initiation of work.
 - b. Evaluate all trees, which are to remain within the limits of work for desired pruning. Prune as directed by the arborist.
 - c. Prune to compensate for root loss caused by damaging or cutting root system, health of trees, appearance, and public safety.
 - d. Provide subsequent maintenance during the Contract period as recommended by arborist.
 - e. Cut branches with sharp pruning instruments; do not break or chop.
 2. Pruning Standards: Prune trees according to the National Arborist Association's "Pruning Standards for Shade Trees."
 - a. Class II: Standard Pruning.
 - b. Class III: Hazard Pruning.
 - c. Class IV: Crown-reduction Pruning.
- **Tree Care During Construction:**
 1. Irrigation:
 - a. Provide one inch of irrigation water per week to the root system during the growing season.
 - b. Provide irrigation during the work of this contract.
 2. Construction Traffic: Construction traffic within tree protection zones is to be avoided. If limited access must occur, protect root zone from compaction with 4" layer of wood chips followed by a layer of plywood over all root zone areas subject to traffic. After construction, plywood and chips are to be removed.
- **Tree Repair and Replacement:**
 1. Promptly repair trees damaged by construction operations to prevent progressive deterioration.

2. Remove and replace dead and damaged trees that the arborist determines to be incapable of restoring to a normal growth pattern.
- **Disposal of Waste Materials:**
1. Burning on Owner's Property: Burning is not permitted on Owner's property.
 2. Disposal: Remove excess excavated material, displaced trees, and excess chips from Owner's property.

SECTION 00305 - CONSTRUCTION SURVEY WORK

Comply with Section 00305 of the Standard Specifications modified as follows:

00305.00 Scope - Provide construction survey work according to the current edition on the date of Advertisement, of the ODOT "Construction Surveying Manual for Contractors". This manual is available on the web at:

http://www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

00310.90 Payment - Add the following to the end of this subsection:

No separate or additional payment will be made for removal or disposal Work included in Section 00330 according to 00310.02.

SECTION 00320 – CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications.

SECTION 00330 - EARTHWORK

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

00330.00 Scope - Add the following to the end of this subsection:

Excavation and removal of excess material generated by the reclamation process and required to meet lines and grades shown in the Plans will be considered General Excavation.

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

Perform all earthwork under this Section on the excavation basis.

00330.41(a)(7) Abandoned Pipes and Miscellaneous Matter – add the following paragraph before the paragraph that begins “Place a watertight cap...”

Fill abandoned pipes greater than 12 inches diameter with sand, controlled low-strength material meeting the requirements of 00442, or other approved material.

00330.42(c)(3) Embankment Slope Protection - Add the following paragraph:

Construct the outer 12 inches of embankments with suitable materials to establish slope stabilization through permanent seeding. If suitable material is not available, provide suitable materials from a Contractor-provided source which conforms to the requirements of 00330.11 or 00330.13 and provides favorable conditions for germination of seed and growth of grass.

00330.91(d) General Excavation - Delete the bullet that begins "Includes Unsuitable Material...".

SECTION 00331 - SUBGRADE STABILIZATION

Comply with Section 00331 of the Standard Specifications.

SECTION 00340 - WATERING

Comply with Section 00340 of the Standard Specifications.

SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL

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

00405.11 Trench Foundation - Replace this Section with the following:

00405.11 Trench Foundation – Where additional excavation is required due to groundwater or other unstable conditions so that the native material cannot support the pipe, furnish 4” pit run for trench foundation material.

00405.46(e) Temporary Trench Plating – Replace this subsection with the following:

When temporary steel plates are installed over a street cut, they shall be capable of carrying at least MS-18 loading. Place steel plates with a minimum of 12 inches of bearing on all sides of the cut. Grind existing ACP as necessary to minimize shifting and rocking of the plates, additionally, shim plates using cold mix ACP as necessary. Provide minimum 1-foot cold mix wedges or plate locks for transitions to steel plates. Acceptance of steel plating will be at the discretion of the Agency.

SECTION 00440 - COMMERCIAL GRADE CONCRETE

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

Add the following subsection:

00440.02 Abbreviations and Definitions:

ASTV – Actual Strength Test Value – See 02001.02 for definition.

00440.12 Properties of Commercial Grade Concrete – Replace the bullet that begins "**Slump** - 5 inches..." with the following bullets:

- **Slump** - 5 inches or less
 - For concrete sidewalks, ramps, driveways, or other hand finished surface applications, and when using a high range water reducing admixture, provide a slump of 8 inches or less as approved by the Engineer.

00440.13 Field-Mixed Concrete - Replace the subsection, except for subsection number and title, with the following:

CGC Work items listed in 00440.14(a) may be field-mixed conventionally, or by volumetric/mobile mixers conforming to ASTM C685. When approved, concrete sidewalks, concrete curb ramps, concrete driveways, and other flat concrete surfaces may be field-mixed using volumetric/mobile mixers conforming to ASTM C685, request approval prior to placement. For all other CGC applications, submit written request to the Engineer for approval to use volumetric/mobile mixers conforming to ASTM C685 at least 21 Days prior to placement.

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

00440.14(d) Hardened CGC - Add the following to the end of this subsection:

The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

00440.40(b) Placing – Add the following bullet to the end of the bullet list:

- When haul time or placement conditions warrant exceeding the time of discharge, submit a detailed breakdown of the estimated time needed from batching to discharge of a load along with the measures that will be taken to ensure slump, temperature and uniformity will be maintained. Submit in advance to establish a new time limit at the Engineer’s discretion.

SECTION 00442 – CONTROLLED LOW STRENGTH MATERIALS

Comply with Section 00442 of the Standard Specifications.

SECTION 00445 – SANITARY, STORM, CUVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications.

SECTION 00495 - TRENCH RESURFACING

Comply with Section 00495 of the Standard Specifications.

SECTION 00610 – RECONDITIONING EXISTING ROADWAY

Comply with Section 00610 of the Standard Specifications.

SECTION 00620 – COLD PLANE PAVEMENT REMOVAL

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

00620.40(e) Warning Signs - Replace this subsection, except for the subsection number and title, with the following:

Provide warning signs as required where abrupt or sloped drop-offs occur at the edge of the existing or new surface according to Sections 00221 and 00222.

SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS

Comply with Section 00641 of the Standard Specifications.

SECTION 00645 - RECYCLED ASPHALT PRODUCTS IN BASE

Section 00645, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00645.00 Scope - This Work consists of hauling recycled asphalt as specified in Section 00160 and placing one or more layers of recycled asphalt products, mixed with water, on a prepared surface to the lines, grades,

thicknesses, and Cross Sections shown or established.

Materials

00645.10 Materials - Furnish recycled asphalt products of the designated sizes except discard hardened lumps exceeding 2 inches on any measured face.

Acceptance of the recycled asphalt products will be by visual inspection.

00645.12 Limits of Mixture - Provide a mixture of recycled asphalt products and water having a uniform moisture content sufficient to obtain the required compaction. Water may be introduced in a mixing plant, or on the grade.

00645.15 Quality Control - Provide quality control according to Section 00165.

Equipment

00645.21 Hauling Equipment - Provide recycled asphalt products hauling vehicles capable of hauling and depositing the recycled asphalt products material with a minimum of material segregation.

00645.22 Watering and Spreading Equipment - Provide Equipment to add water to the recycled asphalt products and spread to the lines and grades shown or directed.

00645.23 Compacting Equipment - Provide self-propelled rollers and compactors capable of reversing without backlash and meeting the following requirements:

- A gross static weight of at least 10 Tons.
- Adequate to compact to specified density while the recycled asphalt products is still moist.

Labor

00645.30 Quality Control Personnel - Provide a technician having a CDT technical certification.

Construction

00645.40 Preparation of Foundation - Provide a firm surface or material on which recycled asphalt products is to be placed, according to Sections 00330 or 00610 as applicable.

00645.41 Mixing, Hauling, and Placing - Load the recycled asphalt products into the hauling vehicle without compacting material remaining in the stockpile.

Add water to recycled asphalt products while mixing to provide moisture content according to 00645.12.

Thoroughly mix the combined recycled asphalt products and water for as long as necessary to produce a homogeneous mixture. Mix, haul, and place the material by one of the following methods:

(a) **Stationary Mixing Plant** - Combine materials in a pug mill or rotary mixer.

Deliver and deposit the mixture without delay. Deliver the mixture to the spreading Equipment by direct deposit into its receiving device, or by placing in uniform windrows in front of the Equipment.

(b) **Road Mix** - Place materials for each layer, add water, and mix with a motor grader until a homogeneous mixture is achieved.

00645.43 Thickness and Number of Layers - If the required compacted depth of the Course exceeds

6 inches, construct it in two or more layers of nearly equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches unless approved by the Engineer.

Place each layer in spreads as wide as practical and to the full width of the Course before a succeeding layer is placed.

00645.44 Shaping and Compacting - Begin compaction of each layer immediately after the material is spread. Determine optimum roller pattern according to ODOT TM 306 C *Control Strip Method of Compaction*. Maintain optimum roller pattern throughout.

Shape and maintain the surface of each layer, during the compaction operations, to produce a uniform texture, and to meet the requirements of 00645.45.

Apply additional water over the materials for proper compaction.

00645.45 Surface Tolerance - The finished surface of the recycled asphalt products and the surface of each underlying layer shall parallel the established grade and Cross Section for the finished surface within 5/8 inch.

The finished surface of the compacted recycled asphalt products, when tested with a 12 foot straightedge, shall not vary from the testing edge by more than 5/8 inch at any point. Furnish and operate the straightedge as directed.

Maintenance

00645.60 Care of the Work - After construction of each layer and completion of recycled asphalt products Course, maintain the layer to specified conditions, and prevent or repair segregation, raveling, or rutting until it is covered with a following layer or until all work is completed.

Measurement

00645.80 Measurement - The quantities of recycled asphalt products will be measured on the area basis, of recycled asphalt products constructed to the full nominal thickness. In areas where the thickness is other than the full nominal thickness, the areas will be adjusted by converting it to an equivalent number of square yards at the full nominal thickness on a proportionate volume basis.

Payment

00645.90 Payment - The accepted quantities of recycled asphalt products will be paid for at the Contract unit price, per square yard, for the item "Recycled Asphalt Products in Base, 6 Inches Thick".

The thickness of the recycled asphalt products will be inserted in the blank.

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

No separate or additional payment will be made for water used to obtain compaction or in care of the work.

SECTION 00730 - EMULSIFIED ASPHALT TACK COAT

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

00730.11 Emulsified Asphalt - In the paragraph that begins "Obtain samples according to AASHTO T 40..." replace the words "AASHTO T 40" with the words "AASHTO R 66".

SECTION 00744 - ASPHALT CONCRETE PAVEMENT

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

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

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

Add the following subsection:

00744.51 Opening Sections to Traffic - Schedule work so that, during the same shift, the surfaces being paved are paved full width and length through the wearing Course before opening to traffic.

SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications.

SECTION 01040 - PLANTING

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

01040.49 General Planting - Add the following to the end of this subsection:

Perform initial watering and continue with the watering frequencies according to 01040.71.

01040.71 Plant Care and Success Criteria - Add the following to the end of this subsection:

The following watering frequencies are required:

- Watering of all plant material shall be at a frequency that maintains optimal soil moisture content and shall be no less than twice per week

01040.80(b) Topsoil and Wetland Topsoil - Replace the paragraph that begins "Topsoil and wetland Topsoil will be measured..." with the following paragraph:

Topsoil and wetland Topsoil will be measured on the volume basis at the time of placement. Trucking invoices may be used to determine volumes if the quantities are verifiable to the satisfaction of the Engineer.

01040.80(f) Mulch - Replace this subsection, except for the subsection number and title, with the following:

Mulch will be measured on the volume basis at the time of placement, or on the weight basis. Trucking invoices may be used to determine volumes if the quantities are verifiable to the satisfaction of the Engineer.

01040.90(d) Plant Materials - Replace the paragraph that begins "Partial payments for plant Materials will..." and the partial payment table with the following paragraph and table:

Partial payments for plant Materials will be made as follows:

At the time of the original planting	60%
After the first plant establishment inspection.....	10%
After the second plant establishment inspection	10%
After the third plant establishment inspection.....	10%
At completion of the establishment period	10%

SECTION 01140 - POTABLE WATER PIPE AND FITTINGS

Comply with Section 01140 of the Standard Specifications modified as follows:

01140.10 Materials – Replace the materials list with the following list:

Commercial Grade Concrete in Thrust Blocks	00440
Detectable Marking Tape and Wire	02470
Ductile Iron Pipe Fittings	02475
Ductile Iron Pipe	02470

01140.42 Jointing Pipe – Add the following item to this subsection:

01140.42(c) Mechanical Joint Adaptors – Provide foster adaptors for all mechanical joint adaptors unless approved otherwise by the City in writing.

01140.47(f) Tapping Existing Mains – When tapping existing water main lines, the contractor shall use a Romac SST Tapping Tee or approved equivalent. Ductile Iron tapping sleeves are not acceptable for use, except on Ductile Iron pipe.

When tapping existing water main lines, the contractor shall make provisions to continuously flush and purge water through the non-pressurized side of the tapping valve (toward the bottom), or through the tapping machine. Using a corporation stop on the testing tap on the tapping sleeve is not acceptable. City personnel must be present before tapping existing City water mains.

01140.51 Hydrostatic Testing:

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

Test by pumping the main up to the required pressure for at least 2 hours. Provide additional pumping during the test period to continuously maintain a pressure of 200 psi. During the test, observe the section being tested to detect any visible leakage. Use a clean container to hold water for pumping up pressure on the main being tested. Sterilize this makeup water by adding chlorine to a concentration of 25 ppm.

(3) **Time Test** – Replace this subsection, except for the subsection number and title, with the following:

Test by pumping the main up to the required pressure for at least 2 hours. Provide additional pumping during the test period to continuously maintain a pressure of 200 psi. During the test, observe the section being tested to detect any visible leakage. Use a clean container to hold water for pumping up pressure on the main being tested. Sterilize this makeup water by adding chlorine to a concentration of 25 ppm.

(5) **Loss Formula** – Replace this subsection, except for the subsection number and title, with the following:

There shall be no measure of water lost from the main during the test.

01140.90 Payment - In the paragraph that begins “No separate or additional payment will be...”, add the following bullet to the bullet list:

- pipe reconnections

SECTION 01150 - POTABLE WATER VALVES

Comply with Section 01150 of the Standard Specifications modified as follows:

01150.10 Materials - Delete “Ball Valves” from the list of materials.

01150.90 Payment - Replace the paragraph that begins “No separate or additional...” with the following paragraph:

No separate or additional payment will be made for:

- earthwork not covered under other Pay Items
- jointing
- blocking of valves
- protective coatings
- valve boxes
- valve box extensions
- valve operator extensions
- valve reconnections
- hydrostatic testing

SECTION 01160 - HYDRANTS AND APPURTENANCES

Comply with Section 01160 of the Standard Specifications.

SECTION 02001 - CONCRETE

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

02001.02 Abbreviations and Definitions - Replace this subsection, except for the subsection number and title, with the following:

- ASTV** - Actual Strength Test Value
- f'_c** - Minimum Specified Compressive Strength at 28 days
- f'_{cr}** - Required Average Compressive Strength.
- GGBFS** - Ground Granulated Blast Furnace Slag
- HPC** - High Performance Concrete
- HRWRA** - High-Range Water-Reducing Admixture (super-plasticizer)
- IC** - Internally Cured
- LWFA** - Lightweight Fine Aggregate
- PPCM** - Precast prestressed concrete member
- SCM** - Supplementary Cementitious Materials
- SSD** - Saturated Surface-Dry
- w/cm Ratio** - Water-Cementitious Material Ratio
- WRA** - Water Reducing Admixture

Actual Strength Test Value - The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

Cementitious Materials - Portland cement and supplementary cementitious materials.

High Performance Concrete - Concrete designed for enhanced durability and performance characteristics. High performance concrete is identified by the letters "HPC" in front of the concrete class designation (for example, HPC4500 - 1 1/2).

Internally Cured Concrete – Concrete designed to utilize lightweight fine aggregate to mitigate shrinkage.

Moderate Exposure - Elevations below 1,000 feet.

Pozzolans - Fly ash, silica fume, and metakaolin.

Severe Exposure - Elevations 1,000 feet and above.

Supplementary Cementitious Materials - Fly ash, silica fume, metakaolin, and ground granulated blast furnace slag.

02001.15(b)(2) Trial Batch Hardened Properties - Replace this subsection, except for the subsection number and title, with the following:

When applicable, test properties according to the following test methods:

Test	Test Method
Compressive Strength	AASHTO T 22
Flexural Strength	AASHTO T 97
Length Change	ASTM C157
Permeability	AASHTO T 277

a. **Compressive Strength Tests** - For each trial batch, cast and cure at least three test cylinders according to AASHTO T 23 or AASHTO R 39, in 6 inch by 12 inch or 4 inch by 8 inch single use plastic molds. The use of unbonded caps according to ASTM C1231 is permitted. Test at 28 days according to AASHTO T 22.

b. **Flexural Strength Tests** - For each paving concrete trial batch, cast and cure at least three flexural beams according to AASHTO T 23 or AASHTO R 39. Test flexural beams at 28 days according to AASHTO T 97.

c. **Length Change Tests** - For all HPC mix designs, except for precast bridge rail elements, make at least three specimens from the trial batch for length change testing. Sample prisms shall have a square, 4 inch by 4 inch cross section. Wet cure the samples until they have reached an age of 28 days, including the period in the molds. Following the wet cure, air store and measure samples according to ASTM C157, Section 11.1.2 for 28 days. Report length change results at total specimen age of 56 days.

d. **Permeability Tests** - For alternate HPC mix designs, make at least three specimens from the trial batch for permeability testing. Prepare, cure, dry and test according to AASHTO T 277. Report permeability in coulombs at 90 days.

02001.20(a) Strength - Replace this subsection, except for the subsection number and title, with the following:

Provide concrete meeting the required Classes shown in the Contract Documents. The class of concrete designates the minimum required compressive strength, f'_c at 28 days.

Table 02001-1

Concrete Strength and Water/Cementitious Material (w/cm) Ratio		
Type of Concrete	Strength f'_c (psi)	Maximum w/cm Ratio
Structural	3300	0.50
	3300 (Seal)	0.45
	4000	0.48
	4000 (Drilled Shaft)	

	HPC4500	0.40
	HPC(IC)4500	
	5000+	
Paving	4000	0.44
PPCM's (with cast-in-place decks and no entrained air)	5000	0.48
	5500	0.44
	6000+	0.42

(1) **Required Average Compressive Strength (f'_{cr})** - Except for PPCM designs, provide calculations demonstrating compliance with ACI 301 section 4.2.3.3 using the ASTV from either field results or trial batch cylinders.

(2) **Flexural Strength** - Provide paving concrete mix designs with a minimum of 600 psi at 28 Days.

Add the following subsection:

02001.20(e) Durability - For HPC and SFC designs, except designs for precast bridge rail elements, the following additional requirements apply:

Test	Test Method	Acceptance Value
Length Change	ASTM C157	-0.045%
Permeability	AASHTO T 277	1,000 Coulombs (max.) at 90 days ¹

¹ Only required for alternate HPC designs. See 02001.30(b)(2).

SECTION 02320 - GEOSYNTHETICS

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

02320.10(a)(1) Geotextiles - Add the following bullet to the beginning of the bullet list:

- QPL approved for the intended application.

02320.10(b) Acceptance Requirements - Replace this subsection with the following subsection:

02320.10(b) Identification - Identify geotextiles by the product name printed directly on the geotextile by the Manufacturer. For all other geosynthetics and when geotextiles are not marked with a product name, identify geosynthetics by the product label attached to the original packaging or the geosynthetic itself by the Manufacturer.

Allow the Engineer to visually verify geosynthetic products before installation. Open packaged geosynthetics before use in the presence of the Engineer to confirm the correct product. Geotextile rolls without the product name printed on the geotextile or the product label affixed to the geotextile or roll core by the Manufacturer will be rejected. Any other geosynthetics that are unwrapped, missing original packaging or previously opened may not be used unless approved by the Engineer.

02320.10(c)(1) Geotextiles - Replace this subsection, except for the subsection number and title, with the following:

Geotextile products listed in the QPL that are identified as "NTPEP listed" in the remarks column have been approved based on participation in the AASHTO National Transportation Product Evaluation Program

(NTPEP) and test data from the program. Manufacturer's test certification is not required for NTPEP listed geotextiles from the QPL. For other geotextiles, include the following unless directed otherwise:

- QPL product category and proposed project application.
- Product name printed directly on the geotextile by the Manufacturer. For geotextiles that are not marked with a product name, provide geotextile with product label attached to the geotextile or original packaging by the Manufacturer.
- Manufacturer's name, lot number, roll number, production facility address, and full product information (style, brand, name, etc.).
- Chemical composition of filaments and yarns, including polymer(s) used.
- Minimum average roll values for each of the specified properties from the same lot of geotextiles as the delivered material.

SECTION 02470 – POTABLE WATER PIPE MATERIALS

Comply with Section 02470 of the Standard Specifications.

SECTION 02475 – POTABLE WATER FITTING MATERIALS

Comply with Section 02475 of the Standard Specifications modified as followed:

02475.50 Restrained Joints – Replace the first sentence of this subsection with the following:

Restrain pipes, fittings, and valves by using an approved bolted system. Restraint system must be mechanical; the City does not allow gasket-type restraints.

SECTION 02480 – POTABLE WATER VALVE MATERIALS

Comply with Section 02480 of the Standard Specifications modified as follows:

02480.30(b) Sleeves – Replace this subsection with the following:

02480.30(b) Sleeves – Provide Romac SST Tapping Sleeve or approved equal. Ductile Iron tapping sleeves are not acceptable for use, except on Ductile Iron pipe.

SECTION 02485 - HYDRANTS AND APPURTENANCE MATERIALS

Comply with Section 02485 of the Standard Specifications modified as follows:

SECTION 02510 - REINFORCEMENT

Comply with Section 02510 of the Standard Specifications modified as follows:

02510.11(c) Coated Reinforcement Ties and Supports - Replace this subsection, except for the subsection number and title, with the following:

Ties and supports for coated reinforcement, including ties for coated to uncoated reinforcement connections, shall be nonmetallic coated.

SECTION 02690 - PCC AGGREGATES

Comply with Section 02690 of the Standard Specifications modified as follows:

02690.20(a) Harmful Substances - In the paragraph that begins “Material passing No. 200 sieve...”, replace the words “T 11” with the words “T 27 / T 11”.

02690.20(e) Grading and Separation by Sizes for Prestressed Concrete - Replace this subsection with the following subsection:

02690.20(e) Grading and Separation by Sizes - Sampling shall be according to AASHTO R 90. Sieve analysis shall be according to AASHTO T 27 and AASHTO T 11. Provide aggregates meeting the gradation requirements of Table 02690-1 for structural concrete. Provide a CAgT to perform sampling and testing when required.

Table 02690-1
Gradation of Coarse Aggregates
Percent passing (by Weight)

Size Number	Nominal Size Square Openings	Sieve Size											
		(2½ in.)	(2 in.)	(1½ in.)	(1 in.)	(¾ in.)	(½ in.)	(¾ in.)	(No. 4)	(No. 8)	(No. 16)	(No. 50)	(No. 200)
3	(2 to 1 in.)	100	90 to 100	35 to 70	0 to 15	—	0 to 5	—	—	—	—	—	**
357*	(2 in. to No. 4)	100	95 to 100	—	35 to 70	—	10 to 30	—	0 to 5	—	—	—	**
4	(1½ to ¾ in.)	—	100	90 to 100	20 to 55	0 to 15	—	0 to 5	—	—	—	—	**
467*	(1½ to No. 4)	—	100	95 to 100	—	35 to 70	—	10 to 30	0 to 5	—	—	—	**
5	(1 to ½ in.)	—	—	100	90 to 100	20 to 55	0 to 10	0 to 5	—	—	—	—	**
56	(1 to ¾ in.)	—	—	100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	—	—	—	**
57	(1 to No. 4)	—	—	100	95 to 100	—	25 to 60	—	0 to 10	0 to 5	—	—	**
6	(¾ to ½ in.)	—	—	—	100	90 to 100	20 to 55	0 to 15	0 to 5	—	—	—	**
67	(¾ to No. 4)	—	—	—	100	90 to 100	—	20 to 55	0 to 10	0 to 5	—	—	**
68	(¾ to No. 8)	—	—	—	100	90 to 100	—	30 to 65	5 to 25	0 to 10	0 to 5	—	**
7	(½ to No. 4)	—	—	—	—	100	90 to 100	40 to 70	0 to 15	0 to 5	—	—	**
78	(½ to No. 8)	—	—	—	—	100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5	—	**
8	(¾ to No. 8)	—	—	—	—	—	100	85 to 100	10 to 30	0 to 10	0 to 5	—	**
89	(¾ to No. 16)	—	—	—	—	—	100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	**

* Use two or more separated sizes which when combined meet these gradation limits.

** See 02690.20(a). Do Not evaluate material passing the No. 200 sieve according to 00165.40.

02690.20(f) Grading and Separation by Sizes for Other Concrete - Delete this subsection.

02690.30(b) Harmful Substances - In the paragraph that begins “Material passing No. 200 sieve...”, replace the words “T 11” with the words “T 27 / T 11”.

02690.30(g) Grading - In the paragraph that begins “Sampling shall be according to...”, replace the words “AASHTO T 2” with the words “AASHTO R 90”.


CITY OF ASHLAND
JACKSON COUNTY
STATE OF OREGON

SPECIAL PROVISIONS

FOR

MORTON STREET TO IVY STREET
WATERLINE REPLACEMENT PROJECT

PROFESSIONAL OF RECORD CERTIFICATION:

 <p>EXPIRES 6/30/24</p> <p>Seal w/signature</p> <p>Date Signed: <u>9/29/2023</u></p>	<p>I certify the Special Provision Section(s) listed below are applicable to the design for the subject project for temporary features and appurtenances, roadwork, drainage and sewers, retaining walls bases, wearing surfaces, permanent traffic safety & guidance systems, permanent traffic control and illumination systems, and right-of-way development and control. Modified Special Provisions were prepared by me or under my supervision.</p> <p>Section(s) 00110, 00120, 00130, 00140, 00150, 00160, 00165, 00170, 00180, 00190, 00195, 00196, 00197, 00199, 00205, 00210, 00220, 00221, 00222, 00223, 00224, 00280, 00290, 00295, 00305, 00310, 00320, 00330, 00331, 00340, 00405, 00415, 00440, 00442, 00445, 00495, 00640, 00641 00730, 00744, 01140, 01150, 01160, 02001, 02040, 02470, 02475, 02480, 02485, 02510, 02690</p>
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FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

PART II - SPECIAL PROVISIONS

IVY-MORTON WATERLINE PROJECT 2014-04

WORK TO BE DONE

The Work to be done under this Contract consists of the following:

1. Install and remove Temporary Traffic Control and Erosion Control Measures.
2. Replace ~1,510 feet of existing 14-inch steel water pipe with 12-inch ductile iron pipe along the existing waterline alignment from Morton Street to Ivy Street.
3. Add an additional ~370 feet of new 12-inch waterline from the end of the existing alignment to Ivy Street.

AUTHORITY OF CONSULTANT

The consultant will be directly in charge of the Project. However, his authority on this Project is as designated in the official "Consultant Agreement" for this Project, and as designated by the Engineer. This does not include authority to approve Contract changes or semifinal and Final Inspection of the Project.

APPLICABLE SPECIFICATIONS

The Specifications that are applicable to the Work on this Project is the 2021 edition of the "Oregon Standard Specifications for Construction", as modified by these Special Provisions. All Sections in Part00100 apply, whether or not modified or referenced in the Special Provisions.

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.

CLASS OF PROJECT

This is a Locally Funded Project.

CITY OF ASHLAND SPECIAL PROVISIONS

SECTION 00110 – ORGANIZATION, CONVENTIONS, ABBREVIATIONS AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications modified as follows:

00110.05(e) Reference to Websites - Add the following bullet list to the end of this subsection:

- American Traffic Safety Services Association (ATSSA)
www.atssa.com
- EquipmentWatch
www.equipmentwatch.com
- ODOT Construction Section
www.oregon.gov/odot/construction/pages/index.aspx
- ODOT Construction Section - Qualified Products List (QPL)
www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx
- ODOT Construction Surveying Manual for Contractors
www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf
- ODOT Estimating - Steel Material Values
www.oregon.gov/ODOT/Business/Pages/Steel.aspx
- ODOT Oregon Trucking Online - "Highway Restriction Notice - Size and/or Weight" (Form No. 734-2357)
www.oregontruckingonline.com/cf/MCAD/pubMetaEntry/restriction/
- ODOT Traffic Control Plans Unit
www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx
- ODOT Traffic Standards
www.oregon.gov/ODOT/Engineering/Pages/Signals.aspx
- Oregon Legislative Counsel
www.oregonlegislature.gov/lc
- Oregon Secretary of State: State Archives
sos.oregon.gov/archives/Pages/default.asp

00110.20 Definitions – Add the following paragraph to the beginning of this sub-section:

All of the following definitions are applicable to the standard specifications and associated special provisions.

SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES

00120.00 Prequalification of Bidders: Delete this subsection of the Standard Specifications.

00120.01 General Bidding Requirements - Replace this subsection, except subsection number and title, with

the following:

The Agency will only accept paper Bids. No electronic Bids will be allowed. Delete any reference to electronic Bids within the 2021 edition of the "Oregon Standard Specifications for Construction".

As and when applicable, the Contractor shall maintain the certifications required by ORS 279A.107.

00120.05 Request for Plans, Special Provisions, and Bid Booklets - Add the following to the end of this subsection:

The Plans, which are applicable to the Work to be performed under the Contract, bear title and date as follows:

**City of Ashland
Morton Street to Ivy Street
Waterline Replacement Project
Ashland, Oregon
October, 2023**

00120.10 Bid Booklet – In the paragraph that begins "The Bid Section includes all pages after...", add the following bullet to the bullet list:

- Certificate of non-discrimination regarding ORS 279A.110 and certificate regarding policy and practice against sexual harassment, sexual assault and discrimination against employees who are members of a protected class as required by Chapter 212, Oregon Laws 2017 (House Bill 3060).

00120.15 Examination of Work Site and Solicitation Documents; Consideration of Conditions to be Encountered – Add the following to the end of this subsection:

Refer to Agency's Invitation to Bid.

00120.40(f) Disclosure of First-Tier Subcontractors - Replace this subsection, except for the subsection number and title, with the following:

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

- 5% of the total Project Bid, but at least \$15,000; or
 - \$350,000, regardless of the percentage of the total Project Bid.
- For each Subcontractor listed, Bidders shall state:
- The name of the Subcontractor;
 - The dollar amount of the subcontract; and
 - The category of Work that the Subcontractor would be performing.

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

The Subcontractor Disclosure Form may be submitted for a paper Bid by filling out the Subcontractor Disclosure Form printed from the Bid Form.

Subcontractor Disclosure Forms submitted will be considered late if not received by the Agency within

2 working hours after the time designated for receiving Bids.

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

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

00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids – Replace this subsection with the following:

The Agency reserves the right to issue Addenda making changes or corrections to the Plans, Specifications, or quantities. The Agency will provide Addenda only by publishing them on the OregonBuys website.

Addenda may be downloaded from the OregonBuys website. Bidders shall be responsible for checking the website for Addenda. Bidders should check the website weekly until the week of Bid Closing and daily the week of Bid Closing.

Bidders, not the Agency, shall be responsible for the failure of Bidders to check and download Addenda. Bids shall incorporate all Addenda. Bids may be rejected if opened and found by the Agency to not be based on all Addenda published on the OregonBuys website before Bid Closing.

00120.60(a) Paper Bids – Replace ODOT Procurement Office with the City of Ashland.

00120.60(b) Electronic Bids – Delete this subsection.

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:

00140.90 Final Trimming and Cleanup – Add the following bulleted items to this subsection:

- Where private property(s) will be affected by construction but cannot realistically be restored to its pre-existing condition before the contractor will leave the site, agreement shall be reached with the owners of the property(s) regarding how the site shall be left and the Agency Inspector shall review the agreement before the excavation or other work begins.
- Review clean-up of areas adjacent to private property with owners or owner's agents, grade non- landscaped shoulders, parkrows, or unsightly areas caused by the construction to a smooth condition free of sudden transitions, piles, or trip hazards, unless specific objections are raised by the property owner or owner's agent, If objections are raised, contact Public Works Inspector to inspect site and provide direction. Do not negatively impact trees or other adjacent plants.
- Notify affected owners and occupants of adjacent properties of completion of clean-up prior to leaving the site and verify that no other clean-up work remains. Restoration of private properties shall be to the satisfaction of the property owner and may include re-seeding of staging areas.
- Submit revised drawing of installed utility locations if location changed.

SECTION 00150 - CONTROL OF WORK

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

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

The Contractor shall perform the Contractor responsibilities described in the Construction Surveying Manual for Contractors, Chapter 1.6 (see Section 00305).

The Contractor shall perform slope staking including intersections and set stakes defining limits for clearing which approximate right-of-way and easements.

00150.50(c) Contractor Responsibilities – Replace the bullet that begins "Protect from damage or disturbance any Utility that remains..." with the following bullet:

- Protect from damage or disturbance any Utility that remains within the area in which Work is being performed. Maintain and re-establish location marks according to OAR 952-001-0090(3)(a). Coordinate re-establishment of the location marks with the associated Utility;

Replace the bullet that begins "Determine the exact location before excavating within ..." with the following bullet:

- Determine the exact location before excavating within the tolerance zone according to OAR 952-001-0090(3)(c);

Replace the bullet that begins " In addition to the notification required in OAR 952-001-0090(5), notify the Engineer..." with the following bullet:

- In addition to the notification required in OAR 952-001-0090(6), notify the Engineer and the Utility as soon as the Contractor discovers any previously unknown Utility conflicts or issues. Contrary to the OAR, stop excavating until directed by the Engineer and allow the Utility a minimum of two weeks to relocate or resolve the previously unknown Utility issues; and

Add the following subsection:

00150.50(f) Utility Information -The Contractor shall contact those Utilities having buried facilities and request that they locate and mark them for their protection prior to construction.

Utility	Contact Person's Name, Email, and Phone Number
City of Ashland Water Department	Stephen Walker, steve.walker@ashland.or.us , (541) 552-2326
City of Ashland Wastewater Department	Jason Robustelli, jason@robustelli@ashland.or.us , (541) 552-2326
Ashland Fiber Network	Jason Wegner, jason.wegner@ashland.or.us , (541) 552-2222 ext. -2417
Charter Communications	Michael Hall, Michael.Hall4@charter.com ,
CenturyLink QN	Gary Tucker, gary.tucker@centrylink.com (541) 291-0072

Avista Utilities-"Gas Utility"

Mike Smith, (541) 858-4758

City of Ashland Electric Department
"Power Supplier"

Thomas McBartlett, Thomas.McBartlett@ashland.or.us,
(541) 488-5357

- The Contractor shall notify, in writing, the Utilities listed above, with a copy to the Engineer, at least 14 Calendar Days before beginning Work on the Project.
- The Contractor shall notify, in writing, CenturyLink, with a copy to the Engineer, at least 14 Calendar Days before beginning construction activities within 10 feet of CenturyLink's buried fiberoptic facilities.
The Contractor shall obtain written approval from CenturyLink for excavating within 10 feet of a buried fiber optic communications cable. CenturyLink may require an On-Site safety watcher at no cost to the Contractor for monitoring purposes. The Contractor shall provide the Engineer a copy of the written approval before beginning work.
- The Contractor shall notify the Gas Utility in writing, with a copy to the Engineer, at least 14 Calendar Days before beginning Work within 10 feet of the gas pipeline.
In the event of an emergency, and in addition to the calls required by the Utilities notification system, the Contractor shall call:
 - Avista Corporation 1-800-227-9187
- The Contractor shall notify the Power Supplier(s) in writing, with a copy to the Engineer, at least 14 Calendar Days before beginning Work within 10 feet of the power line(s).

Energized power lines overhang portions of the Work with a minimum vertical clearance of 18 feet. The Contractor shall maintain at least 10 feet of safety clearance. Exceptions require written approval from the Power Supplier and may require an On-Site safety watcher, at no cost to the Contractor. The Contractor shall provide the Engineer a copy of the written approval of exception before beginning work.

SECTION 00160 – SOURCE MATERIALS

Comply with Section 00160 of the Standard Specifications.

SECTION 00165 – QUALITY OF MATERIALS

Comply with Section 00160 of the Standard Specifications modified as follows:

00160.07 Electrical Equipment and Materials - Replace the paragraph beginning "When the Contract specifies the use of..." with the following paragraph:

When the Contract specifies the use of the Blue Sheets and Green Sheets, unless specified as the subject of an exemption per ORS 279C.345, the Agency may approve for use a product qualified for inclusion in a later edition of the Blue Sheets and Green Sheets or other equivalent product that meets the requirements of the Blue Sheets, following the Blue Sheet Qualification/Specification Information, or the Green Sheets, following the Green Sheet Qualification/Specification Information, if the Agency finds the product acceptable for use on the Project.

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

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

00170.00 General - Replace the paragraph that begins "The Contractor shall comply with all laws, ordinances, ..." with the following paragraph:

The Contractor shall comply with all laws, ordinances, codes, regulations, executive orders and administrative rules (collectively referred to as "Laws" in this Section) that relate to the Work or to those engaged in the Work. Where the provisions of the Contract are inconsistent or in conflict, the Contractor shall comply with the more stringent standard.

00170.03 Furnishing Right-of-Way and Permits

Add the following to this subsection:

Obtain all necessary Permits from the City of Ashland Public Works Department, other approving agencies where required and listing the City of Ashland as additional insured parties, for all construction work within the Public Right of Way, in Public Utility Easements, or on Public Works owned or operated systems within or outside of City Limits a minimum of 3 days prior to commencing work.

00170.70(a) Insurance Coverages - Replace this subsection with the following:

After the bullet "Commercial Automobile Liability" add the following insurance coverages:

The following insurance coverages and dollar amounts are required pursuant to this subsection:

Insurance Coverages	Combined Single Limit per Occurrence	Annual Aggregate Limit
Commercial General Liability	\$2,000,000	\$2,000,000
Commercial Automobile Liability	\$2,000,000	(aggregate limit not required)

00170.70(d) Additional Insured – Add the following as Additional Insureds under the Contract:

- The City of Ashland and its officers, agents, and employees
- Ashland City Council
- Adkins Engineering and Surveying, Inc.

00170.70(g) Certificate(s) of Insurance – Replace the bullet that begins “List the “State of Oregon, the Oregon Transportation...” with the following bullet:

- List the “City of Ashland and their respective officers, members, agents and employees” as a Certificate holder and endorse as an Additional Insured;

00170.70(h) Agency Acceptance - Replace the paragraph that begins “All insurance and insurance providers are ...” with the following paragraph:

All insurance and insurance providers are subject to Agency acceptance. In addition, all of the following are subject to Agency acceptance and, if requested by Agency, the Contractor shall provide complete copies of the following to Agency’s representatives responsible for verification of the insurance coverages required by the Contract: insurance policies, endorsements, self-insurance documents and related insurance documents.

00170.70(k) Builder's Risk Installation Floater - Delete this subsection.

00170.72 Indemnity/Hold Harmless - Add the following paragraph and bullets to the end of this subsection:

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

- The City of Ashland and its officers, agents, and employees

- Ashland City Council
- Adkins Engineering and Surveying, Inc.

00170.85 (b) Contractor Furnished Warranties

Add the following paragraph to this subsection:

The Contractor shall warrant all work performed under this Contract for a period of one (1) year from the date of final acceptance, as specified in Subsection 00150.97 (c) of these provisions.

SECTION 00180 - PROSECUTION AND PROGRESS

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

00180.20(e) Trucking - Replace the paragraph that begins " This Section does not apply to delivery ..."with the following paragraph:

This Section does not apply to delivery of Materials by or for or from a Supplier. This subsection applies to all truck hauling of Materials not performed with trucks owned (or rented) and operated by the Contractor:

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
Contract Time.....	00180.50(h)
Closed Lanes	00220.40(e)(1)
Regulated Work Areas	00290.34(a)
Opening Sections to Traffic.....	00744.51

The Contractor shall be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this subsection.

00180.41 Project Work Schedules - After the paragraph that begins "One of the following Type..." add the following paragraph:

In addition to the "look ahead" Project Work schedule, a Type A schedule as detailed in the Standard Specifications is required on this Contract.

00180.42 Preconstruction Conference - Add the following to the end of this subsection:

The Contractor shall conduct a group Utilities scheduling meeting with representatives from the Utility companies involved with this Project and the Engineer before the preconstruction conference. The Contractor shall incorporate the Utilities time needs into the Contractor's schedule submitted at the preconstruction conference.

Add the following subsection:

00180.50(h) Contract Time - There is one Contract Time on this Project as follows:

- (1) The Contractor shall complete all Work to be done under the Contract, except for seeding establishment and plant establishment, not later than 6/30/2024.

SECTION 00190 - MEASUREMENT OF PAY QUANTITIES

Comply with Section 00190 of the Standard Specifications.

00190.20(a) General - Replace the paragraph that begins "Unless otherwise provided in the Contract, Pay ..." with the following paragraph:

Unless otherwise provided in the Contract, Pay Items to be measured by weight shall include all Contractor costs for providing, maintaining, inspecting, and testing scales; for furnishing appropriate weigh tickets; for self-printing scales; for electronic weigh memo system(s); and for transporting Materials to the scales or to check weighing.

SECTION 00195 - PAYMENT

Comply with Section 00195 of the Standard Specifications.

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.

SECTION 00199 - DISAGREEMENTS, PROTESTS, AND CLAIMS

Comply with Section 00199 of the Standard Specifications modified as follows:

00199.40(c) Step 2: Agency Level Review - Replace the paragraph that begins "If the Contractor does not accept the Step 2 ..." with the following paragraph:

If the Contractor does not accept the Step 2 decision, the Contractor may, within 10 Calendar Days of receipt of the written decision, request in writing through the Engineer that the claim be advanced to Step 3 or 4 (see (d) and (e) below), as applicable. For purposes of determining which process to use for claims under Step 3 or 4 concerning a combination of additional compensation and Contract Time or for Contract Time only, the value of the claim or portion of the claim for Contract Time will be assumed to be the appropriate Liquidated Damages as provided in 00180.85 multiplied by the number of Calendar Days in question. If applicable, advancement of the claim is subject to the provisions of 00199.60 regarding waiver and dismissal of the claim or portions of the claim.

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

00220.02(a) General Requirements – Add the following bullets to the end of the bullet list:

- Maintain one traffic lane, controlled by flaggers, open to the public at all times unless approved in writing by the Agency.
- Do not stockpile or park equipment or materials in the right-of-way outside of working hours.

- Complete trench patching of all open trenches and excavations by the end of work day every Friday unless approved otherwise in writing by the Agency.

00220.03(c) Adjacent Resident Notification – Notify all adjacent property owners, businesses, or residents within project boundaries, at least 72 hours prior to the start of construction. Notifications can be accomplished by mail, telephone conversation, door hangers, or door-to-door visit. Provide adequate prior notice (minimum 48 hours) to allow those impacted by the Work to adjust their schedules and patterns accordingly when construction may impact access to and from the adjacent property.

Provide the following information in the notifications and issue updates if the information provided changes:

- Who will be doing the work (name and 24 hr. phone number of contractor)
- What the project work will consist of (e.g. excavation, patching, flatwork, etc.)
- Where the work will be done (in the public way and/or on private property)

00220.40(e)(1) Closed Lanes – Replace this subsection with the following:

(1) Closed Lanes – One or more Traffic Lanes may be closed on Morton Street when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e)(2):

- Daily, Monday through Friday, between 7:00 a.m. and 4:30 p.m.

00220.60(a)(1) Contractor Responsibility – In the paragraph that begins "Do the following at no additional...", add the following bullet to the end of the bullet list:

- During emulsified asphalt chip seal operations, broom the surface being used by bicycles as soon as practicable to keep it free of all dirt, mud, gravel, and other harmful materials. The surface includes bike paths, bike lanes, Roadway Shoulders or the outside 6 feet of the Roadway.

SECTION 00221 – COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

Comply with Section 00221 of the Standard Specifications modified as follows:

00221.01(b) Abbreviations, Definitions, and Standards – Add the following to the end of the subsection:

Temporary Walk – Temporary Surfacing for a sidewalk or Multi-Use Path designated to be used by pedestrians, bicyclists, or other non-motorized users.

00221.03 Traffic Safety and Operations - Replace the bullet that begins “When paving operations create...” with the following bullet:

- When paving operations create an abrupt or sloped edge drop off greater than 1 inch, protect traffic by installing signing according to the "2 Lane, 2 Way Roadway Overlay Area" detail shown on the Standard Drawings. Protect longitudinal and transverse Pavement joints by placing and maintaining an asphalt concrete wedge according to 00221.07(c)(1).

00221.06 (c) Tourist-Oriented Directional and Business Logo Signs - Replace this subsection, except for the subsection number and title, with the following:

Submit one of the following for approval, at least 5 Calendar Days before the preconstruction conference:

(1) No Signs - If there are no tourist-oriented directional (TOD) or business logo signs on the Project, a written notification that no TOD or business logo signs exist within the Project limits or

(2) **Signs** - Submit one copy of a sketch map of the Project showing all existing TOD and business logo signs and a written narrative describing how these signs will be kept in service and protected throughout all the construction stages. If modifications are necessary, submit updated information to the Engineer for approval at least 21 Calendar Days before the change is needed.

00221.07(c)(1) Paving - Replace this subsection, except subsection number and title, with the following:

When the longitudinal joint is greater than 1 inch in height, install additional TCD according to 00221.03. Complete the placing of ACP and construction of paving joints according to 00735.48, 00735.49, 00743.45, 00744.44, 00744.45, 00745.47, and 00745.48, as applicable.

00221.88 Measurement, Method "B" – Replace this subsection, except for the subsection number, with the following:

00221.88 Measurement, Method "B" – Lump Sum Basis – All work zone traffic control will be paid for at the Contract lump sum amount for the item "Temporary Work Zone Traffic Control, Complete".

Payment will be payment in full for furnishing, installing, moving, operating, maintaining, inspecting, and removing Materials and TCD, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

00221.90 Payment – All work zone traffic control will be paid for at the Contract lump sum amount for the item "Temporary Work Zone Traffic Control, Complete".

00221.90(b) Temporary Protection and Direction of Traffic - Delete the bullet that begins "Moving temporary barrier to and from Contractor's stockpile areas".

Replace the bullet that begins "When the Schedule of Items does not include ..." with the following bullet:

- Preparing and signing the daily "Traffic Control Inspection Report", when a TCS is not included in the Schedule of Items or when a TCS is not onsite for a work shift.

SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS

Comply with Section 00222 of the Standard Specifications modified as follows:

00222.40(e) Temporary Sign Placement – Add the following to the end of the bullet list:

- Install "ROAD WORK AHEAD" (W20-1-48) signs according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans.
- Install beyond each end of the Project, facing outgoing traffic, an "END ROAD WORK" (CG20-2A-24) sign a distance of $(A \div 2)$ according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans.

SECTION 00223 – WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES

Comply with Section 00223 of the Standard Specifications.

SECTION 00224 – TEMPORARY TRAFFIC CHANNELIZING DEVICES

Comply with Section 00224 of the Standard Specifications modified as follows:

00224.46 Pavement Edge Delineation - Replace the paragraph that begins "Place tubular or conical markers..." with the following paragraph:

Place tubular or conical markers to delineate the edge of Pavement immediately after construction Work or

paving operations create an abrupt or sloped edge drop-off greater than 1 inch in height along the right hand or left hand Shoulder.

00224.91 Payment, Lump Sum or Incidental Basis - Replace this subsection, except for the subsection number and title, with the following:

When the Contract indicates payment for Work under 00221.98 Payment, Method "B" - Lump Sum Basis or 00221.99 Payment, Method "C" - Incidental Basis, no separate or additional payment will be made for Work performed under this Section. Payment will be included in payment according to 00221.98 or 00221.99.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

00280.00 Scope - Replace the paragraph that begins "This Work also consists of providing temporary ..." with the following paragraphs:

This Work also consists of providing temporary erosion and sediment control (ESC) measures and furnishing, installing, moving, operating, maintaining, inspecting, and removing ESC throughout the Project area according to the Standard Drawings, the erosion and sediment control plan (ESCP), the Specifications, or as directed, until the site is permanently stabilized.

A NPDES 1200-CA permit is not applicable to this Project. Comply with all applicable conditions of this Section.

00280.06 Erosion and Sediment Control Manager - Delete this subsection.

00280.46(a) Construction Entrances - Add the following to the end of this subsection:

Construct the construction entrances as shown or directed.

00280.46(h) Temporary Sediment Trap - Add the following paragraph to the end of this subsection:

Where location of Temporary Sediment Trap is used post-construction for water quality treatment, storage or infiltration, remove sediment and soil to a depth of 18" and replace to finish grade with material approved by engineer.

00280.46(i) Concrete Washout - Add the following paragraph to the end of this subsection:

Locate concrete wash basins and concrete waste disposal to prevent stormwater that has been in contact with concrete wash or waste concrete from contaminating Waters of the State or stormwater inlets or conveyances. Handle wash water as waste. Do not dispose of concrete wash water or wash out concrete trucks or tools onto the ground, or into storm drains, open ditches, streets, or streams.

Add the following subsection:

00280.46(j) Access Routes - Stabilize unpaved access and haul routes within the Project Site with Aggregate or as approved by Engineer.

00280.62 Inspection and Monitoring - Replace the paragraph that begins "Ensure that regular site inspection ..." with the following paragraphs:

Inspect the Project Site and all ESC devices for potential erosion or sediment movement on a weekly basis and when 1/2 inch or more of rainfall occurs within a 24 hour period, including weekend and holidays.

If a significant noncompliance or serious water quality issue occurs that could endanger health or the

environment, verbally report it to the Engineer within 24 hours.

00280.90 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) Erosion Control.....	Lump Sum

Item (a) includes:

- mobilization
- furnishing, stockpiling, protecting, restocking, and removing emergency Materials
- preparing Project for a period of extended non-activity
- inspecting, maintaining, and removing erosion control devices
- restoring, mulching, tacking, and seeding all disturbed ground, Work, and storage areas not otherwise covered

Partial payment for items (a) will be made as follows:

- When the initial Contractor developed ESCP, narrative, and schedule are complete and accepted, and the initial erosion control devices are installed25%
- When 50 percent of the Contract is complete, excluding advances on Materials.....25%
- When 75 percent of the Contract is complete, excluding advances on Materials25%
- At completion of the Work covered by this Section.....25%

SECTION 00290 - ENVIRONMENTAL PROTECTION

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

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

00290.30(a)(7) Water Quality:

- Do not discharge contaminated or sediment-laden water, including drilling fluids and waste, or water contained within a work area isolation, directly into any roadside gutters or waters of the State or U.S. until it has been satisfactorily treated (using a best management practice such as a filter, settlement pond, bio-bag, dirt-bag, or pumping to a vegetated upland location). Treatment shall meet the turbidity requirements below.
- Do not use permanent stormwater quality treatment facilities to treat construction runoff unless prescribed by an ESCP approved under Section 00280
- If construction discharge water is released using an outfall or diffuser port, do not exceed velocities more than 4 feet per second, and do not exceed an aperture size of 1 inch.
- Do not use explosives under water.
- Implement containment measures adequate to prevent pollutants or construction and demolition materials, such as waste spoils, fuel or petroleum products, concrete cure water, silt, welding slag and grindings, concrete saw cutting by-products and sandblasting abrasives, from entering roadside gutters or waters of the State or U.S.

- Implement containment measures adequate to prevent flowing stream water from coming into contact with concrete or grout within the first 24 hours after placement.
- Do not end-dump riprap into the waters of the State or U.S. Place riprap from above the ordinary high water line.
- Cease project operations under high flow conditions that may result in inundation of the project area, except for efforts to avoid or minimize resource damage.
- The Engineer retains the authority to temporarily halt or modify the Work in case of excessive turbidity or damage to natural resources.
- If Work activities violate permit conditions or any requirement of this subsection, stop all in-water work activities and notify the Engineer.
- Do not cause a visible turbidity plume in waters of the State or U.S.

00290.42 Tree Protection - Add the following section:

City of Ashland Tree Protection

Tree removals shall be limited solely to those identified on the Tree Removal Table or as shown on the Construction Plans.

The Contractor shall take all necessary precautions to avoid damage to existing trees within the work area. As a minimum, the contractor will provide the following:

- **Protective Fencing:** As indicated on the plans or as directed by the engineer, the contractor shall provide temporary protective fencing. Fencing shall be installed at the drip line of the trees.
 1. Protective fencing shall occur around all existing trees and planted areas to be “saved and protected” and existing trees in adjacent areas, that occur within 30 feet of a demolition feature requiring the use of heavy equipment, for example, built structures, buildings and retaining walls, and around trees adjacent to the paths of travel for demolition and construction equipment. Install metal tee posts plumb and evenly spaced not to exceed eight feet along the fence line. Drive posts 18 to 24 inches into the ground; adjacent posts shall be within four inches of the same height above grade.
 2. All protective fence support posts shall have a minimum spacing distance of eight feet on center. Posts shall be placed in 18-24 inches deep, six-inch diameter augured hole and backfilled with $\frac{3}{4}$ inch minus crushed rock. All posts shall be made vertical and ridged to top of fence. If support roots of trees are encountered during post placement, move post to next acceptable location or consult the City’s arborist.
- **Tieback Protection:** Protect existing trees and plants against all types of damage. Tie back all flexible limbs and overhead branches which may, in the opinion of the Landscape Architect and or representative arborist, may be damaged by the passage or activity of equipment.
- **Excavation:**
 1. Minimize Excavation: Install shoring or other protective support systems to minimize sloping or benching of excavations.
 2. Excavation Within Drip Line: Do not excavate within tree drip line, unless otherwise indicated. No tree limbs may be removed without the written approval of the representative arborist. Excavation within drip line shall only occur under the direction of the representative arborist. Major lateral roots or taproots shall not be cut unless approved in writing by the arborist or under the direction of the representative arborist. Where excavation for new construction is required within tree drip lines, hand excavate to minimize damage to root systems. Use narrow-tine spading forks and comb soil to expose roots.
 - a. Notify project arborist to review areas of impact 48 hours prior to initiation of work.
 - b. Relocate roots in backfill areas wherever possible.
 - c. Roots encountered immediately adjacent to location of new construction and relocations are not practical, are to be cut appropriately three inches (75 mm) back from new construction. Prune torn roots with clean cut.

- d. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap.
- e. Water and maintain in a moist condition and temporarily support and protect roots from damage until they are permanently relocated and covered with earth.
- **Utility Trenching:** Where utility trenches are required within tree drip lines, tunnel under or around any roots greater than two inches in diameter by drilling, pipe jacking, or digging by hand.
 1. Notify project representative arborist to review areas of impact 48 hours prior to initiation of work.
 2. Root Pruning: Do not cut main lateral roots or tap roots; cut only smaller roots that interfere with installation of new work. Cut roots with sharp pruning instruments; do not break or chop. If in doubt, contact arborist.
 3. Consult with arborist to determine if soil aeration may be necessary following utility installation if excessive compaction results from heavy equipment.
- **Regrading:**
 1. Grade Lowering: Where new finish grade is indicated below existing grade around trees, slope grade away from trees as recommended by arborist.
 - a. Notify project arborist to review areas of impact 48 hours prior to initiation of work.
 - b. Root Pruning: Prune tree roots exposed during grade lowering. Do not cut main lateral roots or tap roots; cut only smaller roots. Cut roots with sharp pruning instruments; do not break or chop.
 - c. Do not alter original grade more than three inches (75 mm) within drip-line of retained trees.
 2. Minor Fills: Where existing grade is six inches (150 mm) or less below elevation of finish grade shown, fill with planting soil mix. Place planting soil mix in a single un-compacted layer and hand grade to required finish elevations.
- **Tree Pruning:**
 1. General:
 - a. All tree pruning shall occur under the direction of the arborist. Notify the arborist to review areas of impact 48 hours prior to initiation of work.
 - b. Evaluate all trees, which are to remain within the limits of work for desired pruning. Prune as directed by the arborist.
 - c. Prune to compensate for root loss caused by damaging or cutting root system, health of trees, appearance, and public safety.
 - d. Provide subsequent maintenance during the Contract period as recommended by arborist.
 - e. Cut branches with sharp pruning instruments; do not break or chop.
 2. Pruning Standards: Prune trees according to the National Arborist Association's "Pruning Standards for Shade Trees."
 - a. Class II: Standard Pruning.
 - b. Class III: Hazard Pruning.
 - c. Class IV: Crown-reduction Pruning.
- **Tree Care During Construction:**
 1. Irrigation:
 - a. Provide one inch of irrigation water per week to the root system during the growing season.
 - b. Provide irrigation during the work of this contract.
 2. Construction Traffic: Construction traffic within tree protection zones is to be avoided. If limited access must occur, protect root zone from compaction with 4" layer of wood chips followed by a layer of plywood over all root zone areas subject to traffic. After construction, plywood and chips are to be removed.
- **Tree Repair and Replacement:**
 1. Promptly repair trees damaged by construction operations to prevent progressive deterioration.

2. Remove and replace dead and damaged trees that the arborist determines to be incapable of restoring to a normal growth pattern.
- **Disposal of Waste Materials:**
1. Burning on Owner's Property: Burning is not permitted on Owner's property.
 2. Disposal: Remove excess excavated material, displaced trees, and excess chips from Owner's property.

SECTION 00305 - CONSTRUCTION SURVEY WORK

Comply with Section 00305 of the Standard Specifications modified as follows:

00305.00 Scope - Provide construction survey work according to the current edition on the date of Advertisement, of the ODOT "Construction Surveying Manual for Contractors". This manual is available on the web at:

http://www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

00310.90 Payment - Add the following to the end of this subsection:

No separate or additional payment will be made for removal or disposal Work included in Section 00330 according to 00310.02.

SECTION 00320 – CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications.

SECTION 00330 - EARTHWORK

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

00330.00 Scope - Add the following to the end of this subsection:

Excavation and removal of excess material generated by the reclamation process and required to meet lines and grades shown in the Plans will be considered General Excavation.

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

Perform all earthwork under this Section on the excavation basis.

00330.41(a)(7) Abandoned Pipes and Miscellaneous Matter – add the following paragraph before the paragraph that begins “Place a watertight cap...”

Fill abandoned pipes greater than 12 inches diameter with sand, controlled low-strength material meeting the requirements of 00442, or other approved material.

00330.42(c)(3) Embankment Slope Protection - Add the following paragraph:

Construct the outer 12 inches of embankments with suitable materials to establish slope stabilization through permanent seeding. If suitable material is not available, provide suitable materials from a Contractor-provided source which conforms to the requirements of 00330.11 or 00330.13 and provides favorable conditions for germination of seed and growth of grass.

00330.91(d) General Excavation - Delete the bullet that begins "Includes Unsuitable Material...".

SECTION 00331 - SUBGRADE STABILIZATION

Comply with Section 00331 of the Standard Specifications.

SECTION 00340 - WATERING

Comply with Section 00340 of the Standard Specifications.

SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL

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

00405.11 Trench Foundation - Replace this Section with the following:

00405.11 Trench Foundation – Where additional excavation is required due to groundwater or other unstable conditions so that the native material cannot support the pipe, furnish 4” pit run for trench foundation material.

00405.46(e) Temporary Trench Plating – Replace this subsection with the following:

When temporary steel plates are installed over a street cut, they shall be capable of carrying at least MS-18 loading. Place steel plates with a minimum of 12 inches of bearing on all sides of the cut. Grind existing ACP as necessary to minimize shifting and rocking of the plates, additionally, shim plates using cold mix ACP as necessary. Provide minimum 1-foot cold mix wedges or plate locks for transitions to steel plates. Acceptance of steel plating will be at the discretion of the Agency.

SECTION 00440 - COMMERCIAL GRADE CONCRETE

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

Add the following subsection:

00440.02 Abbreviations and Definitions:

ASTV – Actual Strength Test Value – See 02001.02 for definition.

00440.12 Properties of Commercial Grade Concrete – Replace the bullet that begins "**Slump** - 5 inches..." with the following bullets:

- **Slump** - 5 inches or less
 - For concrete sidewalks, ramps, driveways, or other hand finished surface applications, and when using a high range water reducing admixture, provide a slump of 8 inches or less as approved by the Engineer.

00440.13 Field-Mixed Concrete - Replace the subsection, except for subsection number and title, with the following:

CGC Work items listed in 00440.14(a) may be field-mixed conventionally, or by volumetric/mobile mixers conforming to ASTM C685. When approved, concrete sidewalks, concrete curb ramps, concrete driveways, and other flat concrete surfaces may be field-mixed using volumetric/mobile mixers conforming to ASTM C685, request approval prior to placement. For all other CGC applications, submit written request to the Engineer for approval to use volumetric/mobile mixers conforming to ASTM C685 at least 21 Days prior to placement.

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

00440.14(d) Hardened CGC - Add the following to the end of this subsection:

The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

00440.40(b) Placing – Add the following bullet to the end of the bullet list:

- When haul time or placement conditions warrant exceeding the time of discharge, submit a detailed breakdown of the estimated time needed from batching to discharge of a load along with the measures that will be taken to ensure slump, temperature and uniformity will be maintained. Submit in advance to establish a new time limit at the Engineer’s discretion.

SECTION 00442 – CONTROLLED LOW STRENGTH MATERIALS

Comply with Section 00442 of the Standard Specifications.

SECTION 00445 – SANITARY, STORM, CUVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications.

SECTION 00495 - TRENCH RESURFACING

Comply with Section 00495 of the Standard Specifications.

SECTION 00610 – RECONDITIONING EXISTING ROADWAY

Comply with Section 00610 of the Standard Specifications.

SECTION 00620 – COLD PLANE PAVEMENT REMOVAL

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

00620.40(e) Warning Signs - Replace this subsection, except for the subsection number and title, with the following:

Provide warning signs as required where abrupt or sloped drop-offs occur at the edge of the existing or new surface according to Sections 00221 and 00222.

SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS

Comply with Section 00641 of the Standard Specifications.

SECTION 00645 - RECYCLED ASPHALT PRODUCTS IN BASE

Section 00645, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00645.00 Scope - This Work consists of hauling recycled asphalt as specified in Section 00160 and placing one or more layers of recycled asphalt products, mixed with water, on a prepared surface to the lines, grades,

thicknesses, and Cross Sections shown or established.

Materials

00645.10 Materials - Furnish recycled asphalt products of the designated sizes except discard hardened lumps exceeding 2 inches on any measured face.

Acceptance of the recycled asphalt products will be by visual inspection.

00645.12 Limits of Mixture - Provide a mixture of recycled asphalt products and water having a uniform moisture content sufficient to obtain the required compaction. Water may be introduced in a mixing plant, or on the grade.

00645.15 Quality Control - Provide quality control according to Section 00165.

Equipment

00645.21 Hauling Equipment - Provide recycled asphalt products hauling vehicles capable of hauling and depositing the recycled asphalt products material with a minimum of material segregation.

00645.22 Watering and Spreading Equipment - Provide Equipment to add water to the recycled asphalt products and spread to the lines and grades shown or directed.

00645.23 Compacting Equipment - Provide self-propelled rollers and compactors capable of reversing without backlash and meeting the following requirements:

- A gross static weight of at least 10 Tons.
- Adequate to compact to specified density while the recycled asphalt products is still moist.

Labor

00645.30 Quality Control Personnel - Provide a technician having a CDT technical certification.

Construction

00645.40 Preparation of Foundation - Provide a firm surface or material on which recycled asphalt products is to be placed, according to Sections 00330 or 00610 as applicable.

00645.41 Mixing, Hauling, and Placing - Load the recycled asphalt products into the hauling vehicle without compacting material remaining in the stockpile.

Add water to recycled asphalt products while mixing to provide moisture content according to 00645.12.

Thoroughly mix the combined recycled asphalt products and water for as long as necessary to produce a homogeneous mixture. Mix, haul, and place the material by one of the following methods:

(a) **Stationary Mixing Plant** - Combine materials in a pug mill or rotary mixer.

Deliver and deposit the mixture without delay. Deliver the mixture to the spreading Equipment by direct deposit into its receiving device, or by placing in uniform windrows in front of the Equipment.

(b) **Road Mix** - Place materials for each layer, add water, and mix with a motor grader until a homogeneous mixture is achieved.

00645.43 Thickness and Number of Layers - If the required compacted depth of the Course exceeds

6 inches, construct it in two or more layers of nearly equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches unless approved by the Engineer.

Place each layer in spreads as wide as practical and to the full width of the Course before a succeeding layer is placed.

00645.44 Shaping and Compacting - Begin compaction of each layer immediately after the material is spread. Determine optimum roller pattern according to ODOT TM 306 C *Control Strip Method of Compaction*. Maintain optimum roller pattern throughout.

Shape and maintain the surface of each layer, during the compaction operations, to produce a uniform texture, and to meet the requirements of 00645.45.

Apply additional water over the materials for proper compaction.

00645.45 Surface Tolerance - The finished surface of the recycled asphalt products and the surface of each underlying layer shall parallel the established grade and Cross Section for the finished surface within 5/8 inch.

The finished surface of the compacted recycled asphalt products, when tested with a 12 foot straightedge, shall not vary from the testing edge by more than 5/8 inch at any point. Furnish and operate the straightedge as directed.

Maintenance

00645.60 Care of the Work - After construction of each layer and completion of recycled asphalt products Course, maintain the layer to specified conditions, and prevent or repair segregation, raveling, or rutting until it is covered with a following layer or until all work is completed.

Measurement

00645.80 Measurement - The quantities of recycled asphalt products will be measured on the area basis, of recycled asphalt products constructed to the full nominal thickness. In areas where the thickness is other than the full nominal thickness, the areas will be adjusted by converting it to an equivalent number of square yards at the full nominal thickness on a proportionate volume basis.

Payment

00645.90 Payment - The accepted quantities of recycled asphalt products will be paid for at the Contract unit price, per square yard, for the item "Recycled Asphalt Products in Base, 6 Inches Thick".

The thickness of the recycled asphalt products will be inserted in the blank.

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

No separate or additional payment will be made for water used to obtain compaction or in care of the work.

SECTION 00730 - EMULSIFIED ASPHALT TACK COAT

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

00730.11 Emulsified Asphalt - In the paragraph that begins "Obtain samples according to AASHTO T 40..." replace the words "AASHTO T 40" with the words "AASHTO R 66".

SECTION 00744 - ASPHALT CONCRETE PAVEMENT

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

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

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

Add the following subsection:

00744.51 Opening Sections to Traffic - Schedule work so that, during the same shift, the surfaces being paved are paved full width and length through the wearing Course before opening to traffic.

SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications.

SECTION 01040 - PLANTING

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

01040.49 General Planting - Add the following to the end of this subsection:

Perform initial watering and continue with the watering frequencies according to 01040.71.

01040.71 Plant Care and Success Criteria - Add the following to the end of this subsection:

The following watering frequencies are required:

- Watering of all plant material shall be at a frequency that maintains optimal soil moisture content and shall be no less than twice per week

01040.80(b) Topsoil and Wetland Topsoil - Replace the paragraph that begins "Topsoil and wetland Topsoil will be measured..." with the following paragraph:

Topsoil and wetland Topsoil will be measured on the volume basis at the time of placement. Trucking invoices may be used to determine volumes if the quantities are verifiable to the satisfaction of the Engineer.

01040.80(f) Mulch - Replace this subsection, except for the subsection number and title, with the following:

Mulch will be measured on the volume basis at the time of placement, or on the weight basis. Trucking invoices may be used to determine volumes if the quantities are verifiable to the satisfaction of the Engineer.

01040.90(d) Plant Materials - Replace the paragraph that begins "Partial payments for plant Materials will..." and the partial payment table with the following paragraph and table:

Partial payments for plant Materials will be made as follows:

At the time of the original planting	60%
After the first plant establishment inspection.....	10%
After the second plant establishment inspection	10%
After the third plant establishment inspection.....	10%
At completion of the establishment period	10%

SECTION 01140 - POTABLE WATER PIPE AND FITTINGS

Comply with Section 01140 of the Standard Specifications modified as follows:

01140.10 Materials – Replace the materials list with the following list:

Commercial Grade Concrete in Thrust Blocks	00440
Detectable Marking Tape and Wire	02470
Ductile Iron Pipe Fittings	02475
Ductile Iron Pipe	02470

01140.42 Jointing Pipe – Add the following item to this subsection:

01140.42(c) Mechanical Joint Adaptors – Provide foster adaptors for all mechanical joint adaptors unless approved otherwise by the City in writing.

01140.47(f) Tapping Existing Mains – When tapping existing water main lines, the contractor shall use a Romac SST Tapping Tee or approved equivalent. Ductile Iron tapping sleeves are not acceptable for use, except on Ductile Iron pipe.

When tapping existing water main lines, the contractor shall make provisions to continuously flush and purge water through the non-pressurized side of the tapping valve (toward the bottom), or through the tapping machine. Using a corporation stop on the testing tap on the tapping sleeve is not acceptable. City personnel must be present before tapping existing City water mains.

01140.51 Hydrostatic Testing:

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

Test by pumping the main up to the required pressure for at least 2 hours. Provide additional pumping during the test period to continuously maintain a pressure of 200 psi. During the test, observe the section being tested to detect any visible leakage. Use a clean container to hold water for pumping up pressure on the main being tested. Sterilize this makeup water by adding chlorine to a concentration of 25 ppm.

(3) **Time Test** – Replace this subsection, except for the subsection number and title, with the following:

Test by pumping the main up to the required pressure for at least 2 hours. Provide additional pumping during the test period to continuously maintain a pressure of 200 psi. During the test, observe the section being tested to detect any visible leakage. Use a clean container to hold water for pumping up pressure on the main being tested. Sterilize this makeup water by adding chlorine to a concentration of 25 ppm.

(5) **Loss Formula** – Replace this subsection, except for the subsection number and title, with the following:

There shall be no measure of water lost from the main during the test.

01140.90 Payment - In the paragraph that begins “No separate or additional payment will be...”, add the following bullet to the bullet list:

- pipe reconnections

SECTION 01150 - POTABLE WATER VALVES

Comply with Section 01150 of the Standard Specifications modified as follows:

01150.10 Materials - Delete “Ball Valves” from the list of materials.

01150.90 Payment - Replace the paragraph that begins “No separate or additional...” with the following paragraph:

No separate or additional payment will be made for:

- earthwork not covered under other Pay Items
- jointing
- blocking of valves
- protective coatings
- valve boxes
- valve box extensions
- valve operator extensions
- valve reconnections
- hydrostatic testing

SECTION 01160 - HYDRANTS AND APPURTENANCES

Comply with Section 01160 of the Standard Specifications.

SECTION 02001 - CONCRETE

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

02001.02 Abbreviations and Definitions - Replace this subsection, except for the subsection number and title, with the following:

- ASTV** - Actual Strength Test Value
- f'_c** - Minimum Specified Compressive Strength at 28 days
- f'_{cr}** - Required Average Compressive Strength.
- GGBFS** - Ground Granulated Blast Furnace Slag
- HPC** - High Performance Concrete
- HRWRA** - High-Range Water-Reducing Admixture (super-plasticizer)
- IC** - Internally Cured
- LWFA** - Lightweight Fine Aggregate
- PPCM** - Precast prestressed concrete member
- SCM** - Supplementary Cementitious Materials
- SSD** - Saturated Surface-Dry
- w/cm Ratio** - Water-Cementitious Material Ratio
- WRA** - Water Reducing Admixture

Actual Strength Test Value - The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

Cementitious Materials - Portland cement and supplementary cementitious materials.

High Performance Concrete - Concrete designed for enhanced durability and performance characteristics. High performance concrete is identified by the letters "HPC" in front of the concrete class designation (for example, HPC4500 - 1 1/2).

Internally Cured Concrete – Concrete designed to utilize lightweight fine aggregate to mitigate shrinkage.

Moderate Exposure - Elevations below 1,000 feet.

Pozzolans - Fly ash, silica fume, and metakaolin.

Severe Exposure - Elevations 1,000 feet and above.

Supplementary Cementitious Materials - Fly ash, silica fume, metakaolin, and ground granulated blast furnace slag.

02001.15(b)(2) Trial Batch Hardened Properties - Replace this subsection, except for the subsection number and title, with the following:

When applicable, test properties according to the following test methods:

Test	Test Method
Compressive Strength	AASHTO T 22
Flexural Strength	AASHTO T 97
Length Change	ASTM C157
Permeability	AASHTO T 277

a. **Compressive Strength Tests** - For each trial batch, cast and cure at least three test cylinders according to AASHTO T 23 or AASHTO R 39, in 6 inch by 12 inch or 4 inch by 8 inch single use plastic molds. The use of unbonded caps according to ASTM C1231 is permitted. Test at 28 days according to AASHTO T 22.

b. **Flexural Strength Tests** - For each paving concrete trial batch, cast and cure at least three flexural beams according to AASHTO T 23 or AASHTO R 39. Test flexural beams at 28 days according to AASHTO T 97.

c. **Length Change Tests** - For all HPC mix designs, except for precast bridge rail elements, make at least three specimens from the trial batch for length change testing. Sample prisms shall have a square, 4 inch by 4 inch cross section. Wet cure the samples until they have reached an age of 28 days, including the period in the molds. Following the wet cure, air store and measure samples according to ASTM C157, Section 11.1.2 for 28 days. Report length change results at total specimen age of 56 days.

d. **Permeability Tests** - For alternate HPC mix designs, make at least three specimens from the trial batch for permeability testing. Prepare, cure, dry and test according to AASHTO T 277. Report permeability in coulombs at 90 days.

02001.20(a) Strength - Replace this subsection, except for the subsection number and title, with the following:

Provide concrete meeting the required Classes shown in the Contract Documents. The class of concrete designates the minimum required compressive strength, f'_c at 28 days.

Table 02001-1

Concrete Strength and Water/Cementitious Material (w/cm) Ratio		
Type of Concrete	Strength f'_c (psi)	Maximum w/cm Ratio
Structural	3300	0.50
	3300 (Seal)	0.45
	4000	0.48
	4000 (Drilled Shaft)	

	HPC4500	0.40
	HPC(IC)4500	
	5000+	
Paving	4000	0.44
PPCM's (with cast-in-place decks and no entrained air)	5000	0.48
	5500	0.44
	6000+	0.42

(1) **Required Average Compressive Strength (f'_{cr})** - Except for PPCM designs, provide calculations demonstrating compliance with ACI 301 section 4.2.3.3 using the ASTV from either field results or trial batch cylinders.

(2) **Flexural Strength** - Provide paving concrete mix designs with a minimum of 600 psi at 28 Days.

Add the following subsection:

02001.20(e) Durability - For HPC and SFC designs, except designs for precast bridge rail elements, the following additional requirements apply:

Test	Test Method	Acceptance Value
Length Change	ASTM C157	-0.045%
Permeability	AASHTO T 277	1,000 Coulombs (max.) at 90 days ¹

¹ Only required for alternate HPC designs. See 02001.30(b)(2).

SECTION 02320 - GEOSYNTHETICS

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

02320.10(a)(1) Geotextiles - Add the following bullet to the beginning of the bullet list:

- QPL approved for the intended application.

02320.10(b) Acceptance Requirements - Replace this subsection with the following subsection:

02320.10(b) Identification - Identify geotextiles by the product name printed directly on the geotextile by the Manufacturer. For all other geosynthetics and when geotextiles are not marked with a product name, identify geosynthetics by the product label attached to the original packaging or the geosynthetic itself by the Manufacturer.

Allow the Engineer to visually verify geosynthetic products before installation. Open packaged geosynthetics before use in the presence of the Engineer to confirm the correct product. Geotextile rolls without the product name printed on the geotextile or the product label affixed to the geotextile or roll core by the Manufacturer will be rejected. Any other geosynthetics that are unwrapped, missing original packaging or previously opened may not be used unless approved by the Engineer.

02320.10(c)(1) Geotextiles - Replace this subsection, except for the subsection number and title, with the following:

Geotextile products listed in the QPL that are identified as "NTPEP listed" in the remarks column have been approved based on participation in the AASHTO National Transportation Product Evaluation Program

(NTPEP) and test data from the program. Manufacturer's test certification is not required for NTPEP listed geotextiles from the QPL. For other geotextiles, include the following unless directed otherwise:

- QPL product category and proposed project application.
- Product name printed directly on the geotextile by the Manufacturer. For geotextiles that are not marked with a product name, provide geotextile with product label attached to the geotextile or original packaging by the Manufacturer.
- Manufacturer's name, lot number, roll number, production facility address, and full product information (style, brand, name, etc.).
- Chemical composition of filaments and yarns, including polymer(s) used.
- Minimum average roll values for each of the specified properties from the same lot of geotextiles as the delivered material.

SECTION 02470 – POTABLE WATER PIPE MATERIALS

Comply with Section 02470 of the Standard Specifications.

SECTION 02475 – POTABLE WATER FITTING MATERIALS

Comply with Section 02475 of the Standard Specifications modified as followed:

02475.50 Restrained Joints – Replace the first sentence of this subsection with the following:

Restrain pipes, fittings, and valves by using an approved bolted system. Restraint system must be mechanical; the City does not allow gasket-type restraints.

SECTION 02480 – POTABLE WATER VALVE MATERIALS

Comply with Section 02480 of the Standard Specifications modified as follows:

02480.30(b) Sleeves – Replace this subsection with the following:

02480.30(b) Sleeves – Provide Romac SST Tapping Sleeve or approved equal. Ductile Iron tapping sleeves are not acceptable for use, except on Ductile Iron pipe.

SECTION 02485 - HYDRANTS AND APPURTENANCE MATERIALS

Comply with Section 02485 of the Standard Specifications modified as follows:

SECTION 02510 - REINFORCEMENT

Comply with Section 02510 of the Standard Specifications modified as follows:

02510.11(c) Coated Reinforcement Ties and Supports - Replace this subsection, except for the subsection number and title, with the following:

Ties and supports for coated reinforcement, including ties for coated to uncoated reinforcement connections, shall be nonmetallic coated.

SECTION 02690 - PCC AGGREGATES

Comply with Section 02690 of the Standard Specifications modified as follows:

02690.20(a) Harmful Substances - In the paragraph that begins “Material passing No. 200 sieve...”, replace the words “T 11” with the words “T 27 / T 11”.

02690.20(e) Grading and Separation by Sizes for Prestressed Concrete - Replace this subsection with the following subsection:

02690.20(e) Grading and Separation by Sizes - Sampling shall be according to AASHTO R 90. Sieve analysis shall be according to AASHTO T 27 and AASHTO T 11. Provide aggregates meeting the gradation requirements of Table 02690-1 for structural concrete. Provide a CAgT to perform sampling and testing when required.

Table 02690-1
Gradation of Coarse Aggregates
Percent passing (by Weight)

Size Number	Nominal Size Square Openings	Sieve Size											
		(2½ in.)	(2 in.)	(1½ in.)	(1 in.)	(¾ in.)	(½ in.)	(¾ in.)	(No. 4)	(No. 8)	(No. 16)	(No. 50)	(No. 200)
3	(2 to 1 in.)	100	90 to 100	35 to 70	0 to 15	—	0 to 5	—	—	—	—	—	**
357*	(2 in. to No. 4)	100	95 to 100	—	35 to 70	—	10 to 30	—	0 to 5	—	—	—	**
4	(1½ to ¾ in.)	—	100	90 to 100	20 to 55	0 to 15	—	0 to 5	—	—	—	—	**
467*	(1½ to No. 4)	—	100	95 to 100	—	35 to 70	—	10 to 30	0 to 5	—	—	—	**
5	(1 to ½ in.)	—	—	100	90 to 100	20 to 55	0 to 10	0 to 5	—	—	—	—	**
56	(1 to ¾ in.)	—	—	100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	—	—	—	**
57	(1 to No. 4)	—	—	100	95 to 100	—	25 to 60	—	0 to 10	0 to 5	—	—	**
6	(¾ to ½ in.)	—	—	—	100	90 to 100	20 to 55	0 to 15	0 to 5	—	—	—	**
67	(¾ to No. 4)	—	—	—	100	90 to 100	—	20 to 55	0 to 10	0 to 5	—	—	**
68	(¾ to No. 8)	—	—	—	100	90 to 100	—	30 to 65	5 to 25	0 to 10	0 to 5	—	**
7	(½ to No. 4)	—	—	—	—	100	90 to 100	40 to 70	0 to 15	0 to 5	—	—	**
78	(½ to No. 8)	—	—	—	—	100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5	—	**
8	(¾ to No. 8)	—	—	—	—	—	100	85 to 100	10 to 30	0 to 10	0 to 5	—	**
89	(¾ to No. 16)	—	—	—	—	—	100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	**

* Use two or more separated sizes which when combined meet these gradation limits.

** See 02690.20(a). Do Not evaluate material passing the No. 200 sieve according to 00165.40.

02690.20(f) Grading and Separation by Sizes for Other Concrete - Delete this subsection.

02690.30(b) Harmful Substances - In the paragraph that begins “Material passing No. 200 sieve...”, replace the words “T 11” with the words “T 27 / T 11”.

02690.30(g) Grading - In the paragraph that begins “Sampling shall be according to...”, replace the words “AASHTO T 2” with the words “AASHTO R 90”.