



DAN JOHNSON  
DIRECTOR

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
DEVELOPMENT SERVICES BUILDING  
150 BEAVERCREEK ROAD OREGON CITY, OR 97045

October 24, 2024

BCC Agenda Date/Item: \_\_\_\_\_

Board of County Commissioners  
Clackamas County

**Approval of a Contract with Eagle-Elsner, Inc. for the Wildcat Mountain Drive Paving project. Total Contract Value is \$1,284,180. Funding is through County-approved American Rescue Plan Act funds. No County General Funds are involved.**

<b>Previous Board Action/Review</b>	10/22/24: Request for consent.		
<b>Performance Clackamas</b>	This project will provide strong infrastructure and ensure safe communities by maintaining the County’s existing road infrastructure.		
<b>Counsel Review</b>	10/8/2024, Andrew Naylor	<b>Procurement Review</b>	Yes
<b>Contact Person</b>	Jordan Cools	<b>Contact Phone</b>	503-742-4654

**EXECUTIVE SUMMARY:** This contract is for the Wildcat Mountain Drive Paving Project that will resurface approximately 5 miles of SE Wildcat Mountain Drive. SE Wildcat Mountain drive is classified as a rural connector, and the resurfacing is between SE Firwood Road and End of County Maintenance (M.P. 5.3). This contract included approximately 7,750 tons of asphalt pavement; cold plane pavement removal; completing pavement repairs of varying depth; placing pavement markers and striping; installing, maintaining, and removing temporary work zone traffic control measures; and performing additional incidental work as called for by the specifications and plans.

Funding for this contract is from the American Rescue Plan Act. Construction is expected to take five months with substantial completion of the project required by August 31, 2025. The purchase order expires December 31, 2026 to allow for completion of punch list items and receipt of final construction documentation.

**PROCUREMENT PROCESS:** This project was advertised in accordance with ORS and LCRB Rules on August 14, 2024 through Invitation to Bid #2024-71. Bids were publicly opened on September 12, 2024 and the County received six (6) bids in response to the Invitation to Bid. The

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lowest bidder was from Eagle-Elsner, Inc. for a total value of \$1,284,180.00. Upon review of the Bid Proposals, contracting with Eagle-Elsner, Inc. was determined to be in the best interest of the County based upon the evaluations of the bids.

**RECOMMENDATION:** Staff respectfully recommends that the Board of County Commissioners approve and sign this public improvement contract with Eagle-Elsner, Inc. for the Wildcat Mountain Drive Paving Project.

Respectfully submitted,

*Dan Johnson*

Dan Johnson  
Director of Transportation & Development



**CLACKAMAS COUNTY**  
**PUBLIC IMPROVEMENT CONTRACT**  
Contract #1017

This Public Improvement Contract (the "Contract"), is made by and between the Clackamas County, a political subdivision of the State of Oregon, hereinafter called "Owner," and **Eagle-Elsner, Inc.**, hereinafter called the "Contractor" (collectively the "Parties"), shall become effective on the date this Contract has been signed by all the Parties and all County approvals have been obtained, whichever is later.

**Project Name: # 2024-71 Wildcat Mountain Drive Paving Project**

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

The Contractor, in consideration of the sum of **One Million Two Hundred Eighty-Four Thousand One Hundred Eighty Dollars (\$1,284,180.00)** (the "Contract Price"), to be paid to the Contractor by Owner in the manner and at the time hereinafter provided, and subject to the terms and conditions provided for in the Instructions to Bidders and other Contract Documents (as defined in the project specifications) referenced within the Instructions to Bidders), all of which are incorporated herein by reference, hereby agrees to perform all Work described and reasonably inferred from the Contract Documents. The Contract Price is the amount contemplated by the Base Bid, as indicated in the accepted Bid.

The following documents are incorporated by reference in this Contract and made a part hereof:

- Notice of Contract Opportunity
- Supplemental Instructions to Bidders
- Bid Form
- Prevailing Wage Rates
- Plans, Specifications and Drawings
- ARPA Exhibit A
- Instructions to Bidders
- Bid Bond
- Performance Bond and Payment Bond
- Payroll and Certified Statement Form
- Addenda 1

The Plans, Specifications and Drawings expressly incorporated by reference into this Contract includes, but is not limited to, the Special Provisions for Wildcat Mountain Drive Paving Project (the "Specifications"), together with the provisions of the Oregon Standard Specifications for Construction (2021) referenced therein.

The Contractor shall comply with the prohibitions set forth in ORS 652.220, compliance of which is a material element of this Contract and failure to comply is a material breach that entitles County to exercise any rights and remedies available under this Contract including, but not limited to, termination for default.

**2. Representatives.**

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

Unless otherwise specified in the Contract Documents, the Owner designates Jon Sparks as its Authorized Representative in the administration of this Contract. The above-named individual shall be the initial point of contact for matters related to Contract performance, payment, authorization, and to carry out the responsibilities of the Owner.

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

**3. Key Persons.**

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

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

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

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

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

#### **4. Contract Dates.**

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

SUBSTANTIAL COMPLETION DATE: August 31, 2025

FINAL COMPLETION DATE: December 31, 2025

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

#### **5. Insurance Certificates and Required Performance and Payment Bonds.**

5.1 In accordance with Section 00170.70 of the Specifications, Contractor shall furnish proof of the required insurance naming Clackamas County as an additional insured. Insurance certificates may be returned with the signed Contract or may be emailed to the County Contract Analyst.

5.2 Primary Coverage: Insurance carried by Contractor under the Contract shall be the primary coverage. The coverages indicated are minimums unless otherwise specified in the Contract Documents.

5.2.1 Workers' Compensation: All employers, including Contractor, that employ subject workers who work under the Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. This shall include Employer's Liability Insurance with coverage limits of not less than the minimum amount required by statute for each accident. Contractors who perform the Work without the assistance or labor of any employee need not obtain such coverage if the Contractor certifies so in writing. Contractor shall ensure that each of its Subcontractors complies with these requirements. The Contractor shall require proof of such Workers' Compensation coverage by receiving and keeping on file a certificate of insurance from each Subcontractor or anyone else directly employed by either the Contractor or its Subcontractors.

5.3 Builder's Risk Insurance: During the term of the Contract, for new construction the Contractor shall obtain and keep in effect Builder's Risk insurance on an all risk forms, including earthquake and



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

5.4 Builder's Risk Installation Floater: For Work other than new construction, Contractor shall obtain and keep in effect during the term of the Contract, a Builder's Risk Installation Floater for coverage of the Contractor's labor, materials and equipment to be used for completion of the Work performed under the Contract. The minimum amount of coverage to be carried shall be equal to the full amount of the Contract. The policy will include as loss payees Owner, the Contractor and its Subcontractors as their interests may appear. Owner may waive this requirement at its sole and absolute discretion.

5.4.1 Such insurance shall be maintained until Owner has occupied the facility.

5.4.2 A loss insured under the Builder's Risk insurance shall be adjusted by the Owner and made payable to the Owner as loss payee. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner. The Owner shall have power to adjust and settle a loss with insurers.

5.5 "Tail" Coverage: If any of the required liability insurance is arranged on a "claims made" basis, "tail" coverage will be required at the completion of the Contract for a duration of 36 months or the maximum time period available in the marketplace if less than 36 months. Contractor shall furnish certification of "tail" coverage as described or continuous "claims made" liability coverage for 36 months following Final Completion. Continuous "claims made" coverage will be acceptable in lieu of "tail" coverage, provided its retroactive date is on or before the effective date of the Contract. Owner's receipt of the policy endorsement evidencing such coverage shall be a condition precedent to Owner's obligation to make final payment and to Owner's final acceptance of Work or services and related warranty (if any).

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

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

5.7 Before execution of the Contract, the Contractor shall file with the Construction Contractors Board, and maintain in full force and effect, the separate public works bond required by Oregon

Revised Statutes, Chapter 279C.830 and 279C.836, unless otherwise exempt under those provisions. The Contractor shall also include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before starting Work, unless otherwise exempt, and shall verify that the Subcontractor has filed a public works bond before permitting any Subcontractor to start Work.

5.8 When the Contract Price is \$50,000 or more, the Contractor shall furnish and maintain in effect at all times during the Contract Period a performance bond in a sum equal to the Contract Price and a separate payment bond also in a sum equal to the Contract Price. Contractor shall furnish such bonds even if the Contract Price is less than the above thresholds if otherwise required by the Contract Documents.

5.9 Bond forms furnished by the Owner and notarized by Contractor's surety company authorized to do business in Oregon are the only acceptable forms of performance and payment security, unless otherwise specified in the Contract Documents.

## **6. Responsibility for Damages/Indemnity.**

6.1 Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay that may be caused by, or result from, the carrying out of the Work to be done under the Contract, or from any act, omission or neglect of the Contractor, its Subcontractors, employees, guests, visitors, invitees and agents.

6.2 To the fullest extent permitted by law, Contractor shall indemnify, defend (with counsel approved by Owner) and hold harmless the Owner and its elected officials, officers, directors, agents, and employees (collectively "Indemnitees") from and against all liabilities, damages, losses, claims, expenses, demands and actions of any nature whatsoever which arise out of, result from or are related to: (a) any damage, injury, loss, expense, inconvenience or delay described in this Section 6.1; (b) any accident or occurrence which happens or is alleged to have happened in or about the Project Site or any place where the Work is being performed, or in the vicinity of either, at any time prior to the time the Work is fully completed in all respects; (c) any failure of the Contractor to observe or perform any duty or obligation under the Contract Documents which is to be observed or performed by the Contractor, or any breach of any agreement, representation or warranty of the Contractor contained in the Contract Documents or in any subcontract; (d) the negligent acts or omissions of the Contractor, a Subcontractor or anyone directly or indirectly employed by them or any one of them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder (except to the extent otherwise void under ORS 30.140); and (e) any lien filed upon the Project or bond claim in connection with the Work. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 6.2.

6.3 In claims against any person or entity indemnified under Section 6.2 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 6.2 shall not be limited on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

## **7. Tax Compliance.**

Contractor must, throughout the duration of this Contract and any extensions, comply with all tax laws of this state and all applicable tax laws of any political subdivision of this state. Any violation of this section shall constitute a material breach of this Contract. Further, any violation of Contractor's warranty in this Contract that Contractor has complied with the tax laws of this state and the applicable tax laws of any political subdivision of this state also shall constitute a material breach of this Contract. Any violation shall entitle

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

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

#### **8. Confidential Information.**

Contractor acknowledges that it and its employees or agents may, in the course of performing their responsibilities under this Contract, be exposed to or acquire information that is confidential to Owner. Any and all information of any form obtained by Contractor or its employees or agents in the performance of this Contract shall be deemed confidential information of Owner ("Confidential Information"). Contractor agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Contractor uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purpose unless specifically authorized in writing under this Contract.

#### **9. Counterparts.**

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

#### **10. Integration.**

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

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

#### **11. Liquidated Damages**

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

administration and use of temporary facilities. Liquidated damages are set forth in the Contract Documents and may include the following:

- 11.1 \$800 per Calendar day past the Substantial Completion date, as set forth in section 00180.85(b).
- 11.2 \$500 per 15 minutes, or for a portion of 15 minutes, per lane, for any lane closure beyond the limits listed in 00220.40(e), as set forth in 00180.85(c).
- 11.3 \$500 per 20 minutes, or for a portion of 20 minutes, for stopping or holding traffic longer than 20 minutes, as set forth in 00180.85(d).
- 11.4 \$500 per each calendar day or for a portion of a calendar day, for not constructing a driveway connection beyond 30 calendar days of when mainline was completed in front of the driveway, as set forth in 00180.85(e).

**12. Compliance with Applicable Law.** Contractor shall comply with all federal, state, county, and local laws, ordinances, and regulations applicable to the Work to be done under this Contract including, but not limited to, compliance with the prohibitions set forth in ORS 652.220, compliance of which is a material element of this Contract and failure to comply is a material breach that entitles County to exercise any rights and remedies available under this Contract including, but not limited to, termination for default.

**13. Responsibility for Taxes.** Contractor is solely responsible for payment of any federal, state, or local taxes required as a result of the Contract or the Work including, but not limited, to payment of the corporate activity tax imposed under enrolled HB 3427 (2019 Oregon regular legislative session). Contractor may not include its federal, state, or local tax obligations as part of the cost to perform the Work.

**14. No Attorney Fees.** In the event any arbitration, action or proceeding, including any bankruptcy proceeding, is instituted to enforce any term of this Contract, each party shall be responsible for its own attorneys' fees and expenses.

**15. Federal Contracting Requirements.** County intends that all or a portion of the consideration paid to Contractor is eligible for reimbursement by one or more federal agencies including, but not limited to, the Federal Emergency Management Agency. This Contract is subject to the additional terms and conditions, required by federal law for a federal award, set in Exhibit A, attached hereto and incorporated by this reference herein. All terms and conditions required under applicable federal law for a federal award including, but not limited to, 2 C.F.R. § 200.327 and 2 C.F.R. § Pt. 200, App. II, are hereby incorporated by this reference herein.

Contractor shall, as soon as commercially practicable, register itself with the federal System for Award Management (SAM). Information regarding registration with SAM may be found at <https://www.sam.gov>.

**Signature Page Follows**

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

Contractor DATA:  
Eagle-Elsner Inc.  
P.O. Box 23294  
Tigard, Oregon 97281

Contractor CCB # 27112 Expiration Date: 4/2/2026  
 Oregon Business Registry # 135009-13 Entity Type: DBC State of Formation: Oregon

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

Eagle Elsner, Inc.

Clackamas County

Richard Eagle, Pres 10/2/24  
 Authorized Signature Date

\_\_\_\_\_  
 Chair Date

RICHARD EAGLE, PRES.  
 Name / Title Printed

\_\_\_\_\_  
 Recording Secretary

APPROVED AS TO FORM  
[Signature] 10/08/2024  
 County Counsel Date

**Exhibit A**  
**ADDITIONAL FEDERAL TERMS AND CONDITIONS**

As used herein, “Contractor” means **Eagle-Elsner, Inc.**, and “County” means Clackamas County, a political subdivision of the State of Oregon.

1. This Contract is subject to the additional terms and conditions required by federal law for a federal award. All terms and conditions required under applicable federal law for a federal award including, but not limited to, 2 C.F.R. § 200.326 and 2 C.F.R. § Pt. 200, App. II, are hereby incorporated by this reference herein.
2. Termination. This Contract may be terminated by mutual agreement of the parties or by the County for one of the following reasons: (i) for convenience upon thirty (30) days written notice to Contractor; or (ii) at any time the County fails to receive funding, appropriations, or other expenditure authority as solely determined by the County.
3. By execution of this Contract, Contractor hereby certifies that it and all subcontractors will comply with (i) all Federal statutes relating nondiscrimination, including, but not limited to: Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis race, color or national origin; Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 et seq.), which prohibits discrimination on the basis of sex; the Age Discrimination Act of 1975, as amended (29 U.S.C. §§6101 et seq.), which prohibits discrimination on the basis of age; the Rehabilitation Act of 1973, as amended (29 U.S.C. §§793 et seq.), which prohibits discrimination against requires affirmative action for qualified individuals with disabilities; the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (42 U.S.C. §§4541 et seq.), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; Title VII of the Civil Rights Act of 1969 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; any other discrimination provisions in the specific statute(s) under which for Federal assistance is being made; and the requirements of any other nondiscrimination statute(s) which may apply; (ii) will comply with the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352 et. seq.), and shall file the required certification if the award is \$100,000 or more; and (iii) will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
4. During the performance of this Contract, the Contractor agrees as follows:
  - a. Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff

or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- b. Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- c. Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- d. Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- e. Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- f. Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- g. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- h. Contractor will include the portion of the sentence immediately preceding paragraph (a) and the provisions of paragraphs (a) through (h) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a

means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

5. Compliance with the Davis-Bacon Act. If applicable, all transactions regarding this Contract shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29C.F.R. pt. 5 as may be applicable. Contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable. Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. Additionally, contractors are required to pay wages not less than once a week.
6. Compliance with the Copeland "Anti-Kickback" Act.
  - a. Contractor. The Contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.
  - b. Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may by appropriate instructions require, and also a



clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

- c. Breach. A breach of the Contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.
7. If this Contract involves a federal award that meets the definition of a “funding agreement” under 37 CFR § 401.2 (a), and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.
8. If this Agreement is in excess of \$150,000, Contractor certifies that it and all subcontractors will comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, 42 U.S.C. 7401 et seq., and the Federal Water Pollution Control Act, as amended 33 U.S.C. 1251 et seq. Violations shall be reported to the awarding Federal Department and the appropriate Regional Office of the Environmental Protection Agency. Contractor shall include these requirements in all contracts with subcontractors receiving more than \$150,000.
9. If this Agreement is in excess of \$100,000 and involves the employment of mechanics or laborers, Contractor and all subcontractors will comply with all applicable standards, orders or regulations issued pursuant to the Contract Work Hours and Safety Standards Act 40 USC §§3701 et seq. as supplemented by Department of Labor regulations at 29 C.F.R. Part 5. See 2 C.F.R. Part 200, Appendix II, ¶ E. Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Further, no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous. Contractor shall include and require all providers to include in all contracts with subcontractors receiving more than \$100,000, language requiring the subcontractor to comply with the federal laws identified in this section.
10. Contractor shall comply with 2 CFR Part 180 (including executive orders 12549 and 12689). These regulations restrict sub-awards and contracts with certain parties that are debarred, suspended or otherwise excluded from or ineligible for participation in federal assistance programs or activities. Contractor is responsible for further requiring the inclusion of a similar term or condition in any subsequent lower tier covered transactions. Contractor may access the Excluded Parties List System at <https://www.sam.gov>. The Excluded Parties List System contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than E.O. 12549 and 12689. Awards that exceed the simplified acquisition threshold shall provide the required certification regarding their exclusion status and that of their principals prior to award. Contractor is required to verify that none of the Contractor's principals (defined at 2 C.F.R. 180.995) or its affiliates (defined at 2 C.F.R. 180.905) are excluded (defined at 2 C.F.R. 180.940) or disqualified (defined at 2 C.F.R. 180.935). The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction that Contractor enters into. This certification is a material representation of fact relied upon by the County. If it is later determined that the Contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, then in addition to remedies available to the County, the Federal Government may pursue available

remedies, including but not limited to suspension and/or debarment.

11. Record Retention. Contractor will retain and keep accessible all such financial records, books, documents, papers, plans, records of shipments and payments and writings that are directly related to this Agreement for a minimum of six (6) years, or such longer period as may be required by the federal agency or applicable state law, following final payment and termination of this Agreement, or until the conclusion of any audit, controversy or litigation arising out of or related to this Agreement, whichever date is later, according to 2 CFR 200.333-337. Contractor agrees to provide to the County, to the applicable federal funding agency, to the Comptroller General of the United States, or to any of their authorized representatives, access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions. Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed. The Contractor agrees to provide the FEMA Administrator or the Administrator's authorized representative's access to construction or other work sites pertaining to the Work being completed under the Contract. In compliance with the Disaster Recovery Act of 2018, the County and the Contractor acknowledge and agree that no language in this Contract is intended to prohibit audits or internal reviews by the approved federal administrator, including the Comptroller General of the United States.
12. DHS Seal, Logo, and Flags: Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.
13. Compliance with Federal Law, Regulations, and Executive Orders: This is an acknowledgement that FEMA financial assistance may be used to fund this Contract only. Contractor will comply with all federal law, regulations, executive orders, FEMA policies, procedures, and directives.
14. No Obligation by Federal Government: The Federal Government is not a party to this Contract and is not subject to any obligations or liabilities to the non-Federal entity, Contractor, or any other party pertaining to any matter resulting from the contract.
15. Program Fraud and False or Fraudulent Statements or Related Acts: Contractor acknowledges the 31 U.S.C. Chapter 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this Contract.
16. Contractor will comply with all applicable requirements of 2 CFR 200.216, 2 CFR 200.321, and 2 CFR 200.322.
17. Procurement of Recovered Materials (Reference 2 CFR 200.322): Contractor must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. Information about this requirement, along with the list of EPA-designate items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
18. Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended). Contractors who apply or bid for an award of \$100,000 or more shall file the required certification, set forth below. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection

with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

Contractor hereby makes the following certification:

**Byrd Anti-Lobbying Amendment Certification  
for Contracts, Grants, Loans, and Cooperative Agreements**

The undersigned certifies, to the best of his or her knowledge and belief, that:

- A. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- B. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- C. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Richard Eagle, Pres  
Signature of Contractor's Authorized Official

Richard Eagle, President  
Name and Title of Contractor's Authorized Official

10-08-24  
Date



**CLACKAMAS COUNTY  
PUBLIC IMPROVEMENT CONTRACT OPPORTUNITY**

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**CLACKAMAS COUNTY**  
**NOTICE OF PUBLIC IMPROVEMENT CONTRACT OPPORTUNITY**

**INVITATION TO BID #2024-71**  
**Wildcat Mountain Drive Paving Project**  
**August 14, 2024**

Clackamas County ("County") through its Board of County Commissioners is accepting sealed bids for the **Wildcat Mountain Drive Paving Project** until **September 5, 2024, 2:00 PM**, Pacific Time, ("Bid Closing") at the following location:

Bidding Documents can be downloaded from the state of Oregon procurement website ("OregonBuys") at the following address: <https://oregonbuys.gov/bsv/view/login/login.xhtml>, Document No.S-C01010-00011274.

Prospective Bidders will need to sign in to download the information and that information will be accumulated for a Plan Holder's List. Prospective Bidders are responsible for obtaining any Addenda from Website listed above.

**Submitting Proposals: Bid Locker**

Proposals will only be accepted electronically thru a secure online bid submission service, **Bid Locker**. *Email submissions to Clackamas County email addresses will no longer be accepted.*

- A. Completed proposal documents must arrive electronically via Bid Locker located at <https://bidlocker.us/a/clackamascounty/BidLocker>.
- B. Bid Locker will electronically document the date and time of all submissions. Completed documents must arrive by the deadline indicated in Section 1 or as modified by Addendum. **LATE PROPOSALS WILL NOT BE ACCEPTED.**
- C. Proposers must register and create a profile for their business with Bid Locker in order to submit for this project. It is free to register for Bid Locker.
- D. Proposers with further questions concerning Bid Locker may review the Vendor's Guide located at <https://www.clackamas.us/how-to-bid-on-county-projects>.

Engineers Estimate: \$1,480,900.00

**Contact Information**

Procurement Process and Technical Questions: Tralee Whitley at [Twhitley@clackamas.us](mailto:Twhitley@clackamas.us)

Bids will be opened and publicly read aloud at the above Delivery address after the Bid Closing. Bid results will also be posted to the OregonBuys listing shortly after the opening.

To be eligible for award under this Invitation to Bid, bidders (prime contractors) must submit a prequalification application (either ODOT or County) to the County at least two business days prior to the Bid Closing. County will reject bids from bidders who are not prequalified for the class of work indicated prior to the Bid Closing. **Bidders must be prequalified in Asphalt Concrete Paving (ACP), Temporary Traffic Control (TTC), and Pavement Markings (PAVE).**

**State Prevailing Wage**

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

listed amendments to that booklet), which are incorporated herein by reference, apply to the Work authorized under this Agreement:

PREVAILING WAGE RATES for Public Works Contracts in Oregon, July 5, 2024, which can be downloaded at the following web address: [http://www.oregon.gov/boli/WHD/PWR/Pages/pwr\\_state.aspx](http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx)  
The Work will take place in Clackamas County, Oregon.

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



## CLACKAMAS COUNTY PUBLIC IMPROVEMENT CONTRACT

### INSTRUCTIONS TO BIDDERS

Clackamas County Local Contract Review Board Rules (“LCRB Rules”) govern this procurement process. LCRB Rules may be found at: <http://www.clackamas.us/code/documents/appendixc.pdf>. The Instructions to Bidders is applicable to the procurement process for Clackamas County, or any component unit thereof identified on the Notice of Public Improvement Contract Opportunity, herein after referred to as the “Owner.”

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

The work contemplated under this contract with the Owner, includes all labor, materials, transportation, equipment and services necessary for, and reasonably incidental to, the completion of all construction work in connection with the project described in the Project Manual which includes, but is not necessarily limited to, the Notice of Public Improvement Contract Opportunity, Instructions to Bidders, Supplemental Instructions to Bidders, Bid Form, Bid Bond, Public Improvement Contract Form, Performance Bond, Payment Bond, and Plans, Specifications and Drawings.

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

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

The Owner will not be responsible for any loss or for any unanticipated costs, which may be suffered by the successful Bidder, as a result of such

Bidder's failure to be fully informed in advance with regard to all conditions pertaining to the work and the character of the work required, including site conditions. No statement made by an elected official, officer, agent, or employee of the Owner in relation to the physical or other conditions pertaining to the site of the work will be binding on the Owner, unless covered by the Project Manual or an Addendum.

#### **Article 3. Interpretation of Project Manual and Approval of Materials Equal to Those Provided in the Specifications**

If any Bidder contemplating submitting a Bid for the proposed contract is in doubt as to the true meaning of any part of the plans, specifications or forms of contract documents, or detects discrepancies or omissions, such Bidder may submit to the Architect (read "Engineer" throughout in lieu of Architect as appropriate) a written request for an interpretation thereof at least ten (10) calendar days prior to the date set for the Bid Closing.

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

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

To establish a basis of quality, certain processes, types of machinery and equipment or kinds of materials may be specified in the Project Manual either by description of process or by designating a

manufacturer by name and referring to a brand or product designation or by specifying a kind of material. Whenever a process is designated or a manufacturer's name, brand or item designation is given, or whenever a process or material covered by patent is designated or described, it shall be understood that the words "or approved equal" follow such name, designation or description, whether in fact they do so or not.

Any interpretation of the Project Manual or approval of manufacturer's material will be made only by an Addendum duly issued. All Addenda will be posted to the OregonBuys listing and will become a part of the Project Manual. The Owner will not be responsible for any other explanation or interpretation of the Project Manual nor for any other approval of a particular manufacturer's process or item for any Bidder.

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

#### **Article 4. Security to Be Furnished by Each Bidder**

Each Bid must be accompanied by either 1) a cashier's check or a certified check drawn on a bank authorized to do business in the State of Oregon, or 2) a Bid bond described hereinafter, executed in favor of the Owner, for an amount equal to ten percent (10%) of the total amount Bid as a guarantee that, if awarded the contract, the Bidder will execute the contract and provide a performance bond and payment bond as required. The successful Bidder's check or Bid bond will be retained until the Bidder has entered into a contract satisfactory to Owner and furnished a one hundred percent (100%) performance bond and one hundred percent (100%) payment bond. The Owner reserves the right to hold the Bid security as described in Article 10 hereof. Should the successful Bidder fail to execute and deliver the contract as provided for in Article 12 hereof, including a satisfactory performance bond and payment bond within twenty (20) calendar days after the Bid has been accepted by the Owner, then the contract award made to such Bidder may be considered canceled and the Bid security may be

forfeited as liquidated damages at the option of the Owner. The date of the acceptance of the Bid and the award of the contract as contemplated by the Project Manual shall mean the date of acceptance specified in the Notice of Intent to Award.

#### **Article 5. Execution of Bid Bond**

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

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

#### **Article 6. Execution of the Bid Form**

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

The Bid Form relates to Bids on a specific Project



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

#### **Article 7. Prohibition of Alterations to Bid**

Bids that are incomplete, or contain ambiguities or have differing conditions required by the Bidder, including requested changes or exceptions to the Public Improvement Contract form or other portions of the Project Manual, may be rejected in Owner's sole and absolute discretion.

#### **Article 8. Submission of Bid**

Each Bid shall be sealed in an envelope, properly addressed to the Owner, showing on the outside of the envelope the name of the Bidder and the name of the project. Bids will be received at the time and place stated in the Notice of Public Improvement Contract Opportunity.

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

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

At the time of opening and reading of Bids, each Bid received will be publicly opened and read aloud, irrespective of any irregularities or informalities in such Bids.

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

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

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

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

The Owner reserves the right to hold the Bid and Bid security of the three lowest Bidders for a period of thirty (30) calendar days from and after the time of Bid opening pending award of the contract. Following award of the contract the Bid security of the three lowest Bidders may be held twenty (20) calendar days pending execution of the contract. All other Bids will be rejected and Bid security will be returned.

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

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

#### **Article 11. Withdrawal of Bid**

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

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

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

The Owner will provide the successful Bidder with contract forms within seven (7) calendar days after

the completion of the award protest period. The Bidder is required to execute the contract forms as provided, including a performance bond and a payment bond from a surety company licensed to do surety business in the State of Oregon, within seven (7) calendar days after receipt of the contract forms. The contract forms shall be delivered to the Owner in the number called for and to the location as instructed by the Owner.

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

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

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

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

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

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

### **Article 15. Protest of Intent to Award**

Owner will name the apparent successful Bidder in a "Notice of Intent to Award" letter. Identification of the apparent successful Bidder is procedural only and creates no right in the named Bidder to the award of the contract. Competing Bidders will be notified by publication of the Notice of Intent to Award on the OregonBuys Website of the selection of the apparent successful Bidder(s) and Bidders shall be given seven (7) calendar days from the date on the "Notice of Intent to Award" letter to review the file at the Procurement Division office and file a written protest of award, pursuant to C-049-0450. Any

award protest must be in writing and must be delivered by email, hand delivery, or mail to the Procurement Division Director at: Procurement Division, 2051 Kaen Road, Oregon City, OR 97045.

### **Article 16. Disclosure of First-Tier Subcontractors**

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

Disclosures may be submitted with the Bid or may be hand delivered to the Bid Closing address or emailed to the Contract Information Analyst listed on the Notice of Contract Opportunity.



**CLACKAMAS COUNTY  
PUBLIC IMPROVEMENT CONTRACT**

**SUPPLEMENTAL INSTRUCTIONS TO BIDDERS**

**Project Name: # 2024-71 Wildcat Mountain Drive Paving Project**

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

1. To be eligible for award under this Invitation to Bid, bidders (prime contractors) must submit a prequalification application (either ODOT or County) to the County at least two business days prior to the Bid Closing. County will reject bids from bidders who are not prequalified for the class of work indicated prior to the Bid Closing. **Bidders must be prequalified in Asphalt Concrete Paving & Oiling (ACP), Temporary Traffic Control (TTC), and Pavement Markings (PAVE).**
1. **Electronic Submissions: The County is requiring all bids for this project be electronically submitted. Complete Bids (including all attachments) will only be accepted electronically thru a secure online bid submission service, Bid Locker. Email submissions to Clackamas County email addresses will no longer be accepted. <https://bidlocker.us/a/clackamascounty/BidLocker>.**

**Bids will be publicly read aloud via the computer application, Zoom. Bidders will be allowed to video conference or listen by phone to the bid results. The projects Zoom meeting can be accessed via the information below:**

ZOOM LINKS.

Join Zoom Meeting

<https://clackamascounty.zoom.us/j/85891338184>

Meeting ID: 858 9133 8184

One tap mobile

+17193594580,,85891338184# US

+12532050468,,85891338184# US

Dial by your location

• +1 719 359 4580 US

• +1 253 205 0468 US

• +1 253 215 8782 US (Tacoma)

• +1 346 248 7799 US (Houston)

- +1 408 638 0968 US (San Jose)
- +1 669 444 9171 US
- +1 669 900 6833 US (San Jose)
- +1 646 876 9923 US (New York)
- +1 646 931 3860 US
- +1 689 278 1000 US
- +1 301 715 8592 US (Washington DC)
- +1 305 224 1968 US
- +1 309 205 3325 US
- +1 312 626 6799 US (Chicago)
- +1 360 209 5623 US
- +1 386 347 5053 US
- +1 507 473 4847 US
- +1 564 217 2000 US

Meeting ID: 858 9133 8184

Find your local number: <https://clackamascounty.zoom.us/j/85891338184>

\*\*The Apparent Low bid results will be posted to the projects OregonBuys listing as soon as possible following the bid opening.

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

Bidders must perform Good Faith Effort (defined below) and submit **Form 1 and Form 2** for the Bidders Bid to be considered responsive. **Form 1 and Form 2** must be submitted within **two (2) hours** after the Closing Date and Time. Form 1 and Form 2 may be submitted to either the Contact Information Analyst listed on Notice of Contract Opportunity or via the <https://bidlocker.us/a/clackamascounty/BidLocker> listing.

“Good Faith Effort” is a requirement of a prime contractor to reach out to at least three Historically Underrepresented Business Subcontractors for each division of work that will be subcontracted out and to complete the required forms. If fewer than three Historically Underrepresented Business Subcontractors are reasonably available for a particular division of work, the Bidder must specifically note the reason for there being fewer than three contacts. The outreach should be performed with sufficient time to give the subcontractors at least 5 calendar days to respond to the opportunity. Form 3, which documents the actual amount of subcontractors on the project, must be submitted with the project final pay application. Compliance with the Good Faith Effort and submission of Forms 1, 2 and 3 is a contractual requirement for final payment.

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

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

Prime Contractor Name: EAGLE-ELSNER, INC.

Total Contract Amount: 1,284,180-

Project Name: # 2024-71 Wildcat Mountain Drive Paving Project

**PRIME SELF-PERFORMING:** Identify below ALL GFE Divisions of Work (DOW) to be self-performed. Good Faith Efforts are otherwise required.

DOW BIDDER WILL SELF-PERFORM (GFE not required)	
<u>GRADING</u>	
<u>PAVING</u>	
<u>PARTIAL TRAFFIC</u>	
<u>SIGNS</u>	

**PRIME CONTRACTOR SHALL DISCLOSE AND LIST ALL SUBCONTRACTORS**, including those Minority-owned, Woman-owned, and Emerging Small Businesses ("M/W/ESB") that you intend to use on the project. Delivery via bid locker <https://bidlocker.us/a/clackamascounty/BidLocker> within 2 hours of the BID/Quote Closing Date/Time.

<b>LIST ALL SUBCONTRACTORS BELOW</b> Use <u>correct legal name</u> of Subcontractor (No Assumed Business Names)	<b>Division of Work</b> (Painting, electrical, landscaping, etc.) List <b>ALL</b> DOW performed by Subcontractors	<b>DOLLAR AMOUNT OF SUBCONTRACT</b>	If Certified or self-reporting MBE/WBE/ESB Subcontractor  Check box <input checked="" type="checkbox"/>		
			MBE	WBE	ESB
Name <u>HICK'S STRIPING</u> Address <u>P.O. BOX 9127</u> City/St/Zip <u>BROOKS, OR 97305</u> Phone# <u>(503) 364-4577</u> OCCB# <u>240403</u>	<u>STRIPING</u>	<u>47,078-</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name <u>HQ TRAFFIC</u> Address <u>15400 LIBBY LANE SE</u> City/St/Zip <u>JEFFERSON, OR 97352</u> Phone# <u>(503) 949-8656</u> OCCB# <u>233615</u>	<u>FLAGGING</u>	<u>62.00/HR</u> <u>APPROX</u> <u>6200-</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Name <u>HATCH WESTERN CO.</u> Address <u>P.O. BOX 4070</u> City/St/Zip <u>WILSONVILLE, OR 97070</u> Phone# <u>(503) 563-6234</u> OCCB# <u>63338</u>	<u>GRINDING</u>	<u>27,465-</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name Address City/St/Zip Phone# OCCB#			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Prime Contractor: **Eagle-Elsner, INC.**

Project: # 2024-71 Wildcat Mountain Drive Paving Project

Prime Contractor must contact or endeavor to contact at least 3 M/W/ESB Subcontractors for each Division of Work. Prime Contractor shall record its contacts with M/W/ESB Subcontractors through use of this log (or equivalent) entering all required information. All columns shall be completed where applicable. Additional forms may be copied if needed.

NAME OF M/W/ESB SUBCONTRACTOR	Divisions of Work (Painting, electrical, landscaping, etc.)	Date Solicitation Letter / Fax Sent	PHONE CONTACT		BID ACTIVITY Check Yes or No			REJECTED BIDS (if bid received & not used)		Notes
			Date of Call	Person Receiving Call	Will Bid	Bid Received	Bid Used	Bid Amount	Reason Not Used (Price, Scope or Other. If Other, explain in Notes>>)	
High Quality Traffic Control	Traffic Control	8/22/24	8/22/24	Shelly	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Emailed plans to Shelly on 8/22/24.
One Stop Flagging LLC	Traffic Control	8/22/24	8/22/24	Kim	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Too Expensive	Emailed plans to Kim on 8/22/24.
C.O.A.T. Flagging	Traffic Control	8/22/24 & 9/6/24	8/22/24	Jeremy	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Emailed plans to Jeremy on 8/22/24.
Bedrock Concrete Cutting LLC	Saw Cutting	8/22/24	8/22/24	Left a voicemail for Ian Kirkley.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Too Expensive	Emailed plans to Ian on 8/22/24.
Fritz Cutting and Coring	Saw Cutting	8/22/24 & 9/6/24	8/22/24	Sean	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Emailed plans to Sean on 8/22/24.
UWB Prebuild, INC	Saw Cutting	8/22/24 & 9/6/24	8/22/24	Kimberly	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Emailed plans to Kimberly on 8/22/24.
DT Striping LLC	Striping	8/22/24 & 9/6/24	8/22/24	Left a voicemail for Donnie.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Emailed plans to Donnie on 8/22/24.

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

Prime Contractor: **Eagle-Elener, INC.**  
Project: # 2024-71 Wildcat Mountain Drive Paving Project

Prime Contractor must contact or endeavor to contact at least 3 M/W/ESB Subcontractors for each Division of Work. Prime Contractor shall record its contacts with M/W/ESB Subcontractors through use of this log (or equivalent) entering all required information. All columns shall be completed where applicable. Additional forms may be copied if needed.

NAME OF M/W/ESB SUBCONTRACTOR	Divisions of Work (Painting, electrical, landscaping, etc.)	Date Solicitation Letter / Fax Sent	PHONE CONTACT		BID ACTIVITY Check Yes or No			REJECTED BIDS (if bid received & not used)		Notes
			Date of Call	Person Receiving Call	Will Bid	Bid Received	Bid Used	Bid Amount	Reason Not Used (Price, Scope or Other. If Other, explain in Notes>>)	
Champion Parking Lot Maintenance	Parking Lot Maintenance/ Striping		8/22/24	Kidane	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Currently not striping at this time.
JBL Signs, Striping & Supplies	Striping	8/22/24 & 9/6/24	8/22/24	Eric	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Emailed plans to Eric on 8/22/24.
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			





CLACKAMAS COUNTY  
PUBLIC IMPROVEMENT CONTRACT

BID BOND

Project Name: # 2024-71 Wildcat Mountain Drive Paving Project

We, Eagle Elsner, Inc., as "Principal,"  
(Name of Principal)

and Western Surety Company, an South Dakota Corporation,  
(Name of Surety)

authorized to transact Surety business in Oregon, as "Surety," hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns to pay unto Clackamas County ("Obligee") the sum of (\$ 10% of Total Amount Bid---)

Ten Percent of Total Amount Bid--- dollars.

**WHEREAS**, the condition of the obligation of this bond is that Principal has submitted its proposal or bid to an agency of the Obligee in response to Obligee's procurement document (No.SC01010-00011274) for the project identified above which proposal or bid is made a part of this bond by 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 the procurement document.

**NOW, THEREFORE**, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

**IN WITNESS WHEREOF**, we have caused this instrument to be executed and sealed by our duly authorized legal representatives this 9th day of September, 2024

Principal: Eagle Elsner, Inc.

By: *Richard Eagle, Pres*  
Signature

*President*  
Official Capacity

Attest: *Mary Neuron*  
Corporation Secretary

Surety: Western Surety Company

By: *Chloe Lyons*  
Attorney-in-Fact

Chloe Lyons  
Name

PO Box 2808  
Address

Portland, OR 97208  
City State Zip

503-224-2500 503-224-9830  
Phone Fax



# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Philip O Forker, Vicki Mather, Gloria Bruning, J Patrick Dooney, Richard W Kowalski, Brent Olson, Leticia Romano, Joel Dietzman, Christopher A Reburn, Gail A Price, Justin Cumnock, Andrew Choruby, Chloe Lyons, Casey J Geske, Sterling Drew Roddan, Individually**

of Lake Oswego, OR, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

**- In Unlimited Amounts -**

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the Authorizing By-Laws and Resolutions printed at the bottom of this page, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 6th day of November, 2023.



WESTERN SURETY COMPANY

Larry Kasten, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 6th day of November, 2023, before me personally came Larry Kasten, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota, that he is a Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal, that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

March 2, 2026



M. Bent, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law and Resolutions of the corporation printed below this certificate are still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 9th day of September, 2024.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

### Authorizing By-Laws and Resolutions

#### ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

This Power of Attorney is signed by Larry Kasten, Vice President, who has been authorized pursuant to the above Bylaw to execute power of attorneys on behalf of Western Surety Company.

This Power of Attorney may be signed by digital signature and sealed by a digital or otherwise electronic-formatted corporate seal under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 27th day of April, 2022.

"RESOLVED: That it is in the best interest of the Company to periodically ratify and confirm any corporate documents signed by digital signatures and to ratify and confirm the use of a digital or otherwise electronic-formatted corporate seal, each to be considered the act and deed of the Company."

Go to [www.cnasurety.com](http://www.cnasurety.com) > Owner / Oblige Services > Validate Bond Coverage, if you want to verify bond authenticity.



CLACKAMAS COUNTY  
PUBLIC IMPROVEMENT CONTRACT

BID FORM

PROJECT: # 2024-71 Wildcat Mountain Drive Paving Project  
BID CLOSING: September 5, 2024, 2:00 PM, Pacific Time  
BID OPENING: September 5, 2024, 2:05 PM, Pacific Time

FROM: EAGLE-ELSNER, INC.  
*Bidder's Name (must be full legal name, not ABN/DBA)*

TO: <https://bidlocker.us/a/clackamascounty/BidLocker>

1. Bidder is (check one of the following and insert information requested):

- a. An individual; or
- b. A partnership registered under the laws of the State of \_\_\_\_\_; or
- c. A corporation organized under the laws of the State of OREGON; or
- d. A limited liability corporation organized under the laws of the State of \_\_\_\_\_;

and authorized to do business in the State of Oregon hereby proposes to furnish all material and labor and perform all work hereinafter indicated for the above project in strict accordance with the Contract Documents for the Basic Bid as follows:

One Million, Two Hundred Eighty-Four Thousand, One Hundred Eighty even Dollars (\$ 1,284,180<sup>00</sup> )

and the Undersigned agrees to be bound by the following documents:

- Notice of Public Improvement Contract Opportunity
- Instructions to Bidders
- Bid Bond
- Public Improvement Contract Form
- Prevailing Wage Rates
- Plans, Specifications and Drawings
- Supplemental Instructions to Bidders
- Bid Form
- Performance Bond and Payment Bond
- Payroll and Certified Statement Form

• ADDENDA numbered   /   through \_\_\_\_\_, inclusive (fill in blanks)

2. The Undersigned proposes to add to or deduct from the Base Bid indicated above the items of work relating to the following Alternate(s) as designated in the Specifications: N/A

3. The Undersigned proposes to add to or deduct from the Base Bid indicated above the items or work relating to the following Unit Price(s) as designated in the Specifications, for which any adjustments in the Contract amount will be made in accordance with the project specifications: **Provide the attached Bid Schedules with Bid.**

4. The work shall be completed within the time stipulated and specified in 00180.50(h) of the Special Provisions for **Wildcat Mountain Drive Paving Project, Clackamas County Department of**

**Transportation and Development.**

5. Accompanying herewith is Bid Security which is equal to ten percent (10%) of the total amount of the Basic Bid, plus the total sum of Alternatives (if any).

6. The Undersigned agrees, if awarded the Contract, to execute and deliver to Clackamas County, within twenty (20) calendar days after receiving the Contract forms, a Contract Form, and a satisfactory Performance Bond and Payment Bond each in an amount equal to one hundred percent (100%) of the Contract sum, using forms provided by the Owner. The surety requested to issue the Performance Bond and Payment Bond will be:

WESTERN SURETY  
(name of surety company - not insurance agency)

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

7. The Undersigned further agrees that the Bid Security accompanying the Bid is left in escrow with Clackamas County; that the amount thereof is the measure of liquidated damages which the Owner will sustain by the failure of the Undersigned to execute and deliver the above-named Contract Form, Performance Bond and Payment Bond, each as published, and that if the Undersigned defaults in either executing the Contract Form or providing the Performance Bond and Payment Bond within twenty (20) calendar days after receiving the Contract forms, then the Bid Security shall become the property of the Owner at the Owner's option; but if the Bid is not accepted within thirty (30) calendar days of the time set for the opening of the Bids, or if the Undersigned executes and timely delivers said Contract Form, Performance Bond and Payment Bond, the Bid Security shall be returned.

8. The Undersigned certifies that: (i) This Bid has been arrived at independently and is being submitted without collusion with and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment or services described in the invitation to bid designed to limit independent bidding or competition; and (ii) the contents of the Bid have not been communicated by the Undersigned or its employees or agents to any person not an employee or agent of the Undersigned or its surety on any Bond furnished with the Bid and will not be communicated to such person prior to the official opening of the Bid.

9. The undersigned  HAS,  HAS NOT (check one) paid unemployment or income taxes in Oregon within the past 12 months and  DOES,  DOES NOT (check one) a business address in Oregon. The undersigned acknowledges that, if the selected bidder, that the undersigned will have to pay all applicable taxes and register to do business in the State of Oregon before executing the Contract Form.

10. The Undersigned agrees, if awarded a contract, to comply with the provisions of ORS 279C.800 through 279C.870 pertaining to the payment of the prevailing rates of wage.

11. Contractor's CCB registration number is 27112. As a condition to submitting a bid, a Contractor must be registered with the Oregon Construction Contractors Board in accordance with ORS 701.035 to 701.055, and disclose the registration number. Failure to register and disclose the number will make the bid unresponsive and it will be rejected, unless contrary to federal law.

12. The successful Bidder hereby certifies that all subcontractors who will perform construction work as described in ORS 701.005(2) were registered with the Construction Contractors Board in accordance with ORS 701.035 to 701.055 at the time the subcontractor(s) made a bid to work under the contract.

13. The successful Bidder hereby certifies that, in compliance with the Worker's Compensation Law of

the State of Oregon, its Worker's Compensation Insurance provider is SAIF CORP.,  
Policy No. 810540, and that Contractor shall submit Certificates of Insurance as required.

14. Contractor's Key Individuals for this project (supply information as applicable):

Project Executive:	<u>DICK EAGLE</u>	Cell Phone:	<u>(971) 235-4577</u>
Project Manager:	<u>BRENT WILLIAMS</u>	Cell Phone:	<u>(971) 235-7189</u>
Job Superintendent:	<u>DAVE ELSNER</u>	Cell Phone:	<u>(971) 235-4571</u>
Project Engineer:	<u>BRENT WILLIAMS</u>	Cell Phone:	<u>(971) 235-7189</u>

15. The Undersigned certifies that it has not discriminated against minority, women, or emerging small businesses in obtaining any subcontracts for this project.

16. The Undersigned certifies that it has a drug testing program in accordance with ORS 279C.505.

**REMINDER:** Bidder must submit the below First-Tier Subcontractor Disclosure Form.

By signature below, Contractor agrees to be bound by this Bid.

NAME OF FIRM	<u>EAGLE-ELSNER, INC</u>
ADDRESS	<u>P.O. BOX 23294</u> <u>TIGARD, OR 97281</u>
TELEPHONE NO	<u>(503) 628-1137</u>
EMAIL	<u>DICK@EAGLE-ELSNER.COM</u>
SIGNATURE 1)	_____
	Sole Individual
or 2)	_____
	Partner
or 3)	<u><i>Dick Eagle, Pres</i></u>
	Authorized Officer of Employee of Corporation

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

Wildcat Mountain Drive Paving Project			Summer 2024			
Item #	Spec #	Item Description	Unit	Quantity	Unit Price	Amount
<b>HARASSMENT PREVENTION, MOBILIZATION, AND EXTRA WORK AS AUTHORIZED</b>						
101	00180	WORKPLACE HARASSMENT PREVENTION PLAN	LS	1.00	1,000.00	1,000.00
102	00196	EXTRA WORK	LS	1.00	\$30,000.00	\$30,000.00
103	00210	MOBILIZATION	LS	1.00	25,000.00	25,000.00
<b>HARASSMENT PREVENTION, MOBILIZATION, AND EXTRA WORK AS AUTHORIZED-SUBTOTAL</b>						<b>56,000.00</b>
<b>TEMPORARY FEATURES AND APPURTENANCES</b>						
104	00221	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	1.00	92,400.00	92,400.00
105	00222	PORTABLE CHANGEABLE MESSAGE SIGNS	EA	1.00	1,800.00	1,800.00
106	00222	TEMPORARY PROJECT INFORMATION SIGNS	SQFT	50.00	46.00	2,300.00
107	00225	TEMPORARY REMOVABLE TAPE	FOOT	150.00	2.80	420.00
108	00225	TEMPORARY FLEXIBLE PAVEMENT MARKERS	EA	1,500.00	2.92	4,380.00
109	00280	EROSION CONTROL	LS	1.00	2,000.00	2,000.00
110	00290	POLLUTION CONTROL PLAN	LS	1.00	1,000.00	1,000.00
<b>TEMPORARY FEATURES AND APPURTENANCES-SUBTOTAL</b>						<b>109,270.00</b>
<b>ROADWORK</b>						
111	00310	ASPHALT PAVEMENT SAW CUTTING	FOOT	550.00	7.00	3,850.00
112	00310	REMOVAL OF CONCRETE DRIVEWAY	SQYD	20.00	153.00	3,060.00
113	00490	CAST IRON MONUMENT BOXES	EA	3.00	1,050.00	3,150.00
<b>ROADWORK-SUBTOTAL</b>						<b>10,060.00</b>
<b>BASES</b>						
114	00620	COLD PLANE PAVEMENT REMOVAL, 0-3 INCHES DEEP	SQYD	2,000.00	21.00	42,000.00
115	00641	AGGREGATE SHOULDERS (1 1/2"-0)	TON	2,000.00	50.00	100,000.00
116	00641	AGGREGATE APPROACH: AGGREGATE BASE	TON	70.00	89.00	6,230.00
<b>BASES - SUBTOTAL</b>						<b>148,230.00</b>
<b>WEARING SURFACES</b>						
117	00745	LEVEL 2, 1/2 INCH ACP WITH FIBERS	TON	7,750.00	110.00	852,500.00
118	00748	16" ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	100.00	111.00	11,100.00
119	00749	EXTRA FOR ASPHALT APPROACHES	EA	98.00	330.00	32,340.00
120	00749	EXTRA FOR SPOT GRIND AND INLAY AREAS	SQYD	1,500.00	11.00	16,500.00
<b>WEARING SURFACES - SUBTOTAL</b>						<b>912,440.00</b>
<b>PERMANENT TRAFFIC CONTROL</b>						
121	00855	BI-DIRECTIONAL YELLOW TYPE 1AR MARKERS, RECESSED	EA	800.00	20.00	16,000.00
122	00866	HI-BUILD PAINT, 25 MIL, SPRAYED, SURFACE	FOOT	112,000.00	0.30	33,600.00
123	00866	DRIBBLE LINE, SPRAYED, SURFACE	FOOT	28,000.00	0.12	2,800.00
124	00867	PAVEMENT BAR, TYPE B-HS / SQFT	SQFT	60.00	13.00	780.00
<b>PERMANENT TRAFFIC CONTROL-SUBTOTAL</b>						<b>53,180.00</b>
<b>TOTAL</b>						<b>1,284,180.00</b>

Total Price One Million, Two Hundred Eighty-Four Thousand, One Hundred Eighty Dollars and zero Cents

Name of Firm Eagle-Elsner Inc  
 Name (Print) Richard Eagle, P.E.  
 Signature Richard Eagle, P.E. Date 09-12-24



**FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM  
PROJECT: #2024-71**

**BID OPENING: September 5, 2024, 2:00 PM, Pacific Time**

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

**INSTRUCTIONS:**

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

- A. Completed proposal documents must arrive electronically via Bid Locker located at <https://bidlocker.us/a/clackamascounty/BidLocker>.
- B. Bid Locker will electronically document the date and time of all submissions. Completed documents must arrive by the deadline indicated in Section 1 or as modified by Addendum. **LATE PROPOSALS WILL NOT BE ACCEPTED.**
- C. Proposers must register and create a profile for their business with Bid Locker in order to submit for this project. It is free to register for Bid Locker.
- D. Proposers with further questions concerning Bid Locker may review the Vendor's Guide located at <https://www.clackamas.us/how-to-bid-on-county-projects>.

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

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

	SUBCONTRACTOR NAME	DOLLAR VALUE	CATEGORY OF WORK
1.	<u>Hatch Western</u>	<u>27000 ±</u>	<u>Grinding</u>
2.	<u>Hicko Striping</u>	<u>47000 ±</u>	<u>Striping &amp; Markers</u>
3.	<u>High Quality Tr. Control</u>	<u>50,000 ±</u>	<u>Traffic Control</u>
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

The above listed first-tier subcontractor(s) are providing labor, or labor and material, with a Dollar Value equal to or greater than:

- a) 5% of the total Contract Price, but at least \$15,000. If the Dollar Value is less than \$15,000 do not list the subcontractor above; or
- b) \$350,000 regardless of the percentage of the total Contract Price.

Firm Name: EAGLE-ELSNER, INC.

Bidder Signature: Richard Eagle, Pres Phone # (503) 628-1137



CLACKAMAS COUNTY
PUBLIC IMPROVEMENT CONTRACT

PERFORMANCE BOND

Bond No.: 30226324

Solicitation: #2024-71

Project Name: Wildcat Mountain Drive Paving Project

Table with 2 columns: Surety information and Bond Amount. Includes rows for Western Surety Company (Surety #1), (Surety #2)\*, and Total Penal Sum of Bond.

We, Eagle Elsner, Inc. as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves...

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

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Performance Bond by reference...

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and all authorized modifications of the Contract...

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal herein shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract...



all respects perform said contract according to law, then this obligation is to be void; otherwise, it shall remain in full force and effect for so long as any term of the Contract remains in effect.

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

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

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES.

Dated this \_\_\_\_\_ day of October, 2024.

**PRINCIPAL:** Eagle Elsner, Inc.

By: *Richard Eagle, Pres*  
Signature  
*President*  
Official Capacity

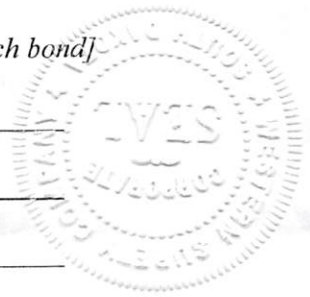
Attest: *Mary [Signature]*  
Corporation Secretary

**SURETY:** Western Surety Company  
*[Add signatures for each if using multiple bonds]*

**BY ATTORNEY-IN-FACT:**  
*[Power-of-Attorney must accompany each bond]*

Gloria Bruning Name  
*Gloria Bruning* Signature

PO Box 2808 Address  
Portland, OR 97208  
City State Zip  
503-224-2500 503-224-9830  
Phone Fax



# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Philip O Forker, Vicki Mather, Gloria Bruning, J Patrick Dooney, Richard W Kowalski, Brent Olson, Leticia Romano, Joel Dietzman, Christopher A Reburn, Gail A Price, Justin Cumnock, Andrew Choruby, Chloe Lyons, Casey J Geske, Sterling Drew Roddan, Individually**

of Lake Oswego, OR, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

**- In Unlimited Amounts -**

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the Authorizing By-Laws and Resolutions printed at the bottom of this page, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 6th day of November, 2023.



WESTERN SURETY COMPANY

*Larry Kasten*

Larry Kasten, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 6th day of November, 2023, before me personally came Larry Kasten, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

March 2, 2026



*M. Bent*

M. Bent, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law and Resolutions of the corporation printed below this certificate are still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this \_\_\_\_\_ day of October, 2024.



WESTERN SURETY COMPANY

*L. Nelson*

L. Nelson, Assistant Secretary

### Authorizing By-Laws and Resolutions

#### ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

This Power of Attorney is signed by Larry Kasten, Vice President, who has been authorized pursuant to the above Bylaw to execute power of attorneys on behalf of Western Surety Company.

This Power of Attorney may be signed by digital signature and sealed by a digital or otherwise electronic-formatted corporate seal under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 27<sup>th</sup> day of April, 2022:

“RESOLVED: That it is in the best interest of the Company to periodically ratify and confirm any corporate documents signed by digital signatures and to ratify and confirm the use of a digital or otherwise electronic-formatted corporate seal, each to be considered the act and deed of the Company.”

Go to [www.cnasurety.com](http://www.cnasurety.com) > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.



CLACKAMAS COUNTY
PUBLIC IMPROVEMENT CONTRACT

PAYMENT BOND

Bond No.: 30226324
Solicitation: #2024-71
Project Name: Wildcat Mountain Drive Paving Project

Table with 3 columns: Surety Name, Bond Amount No., and Amount. Includes entries for Western Surety Company (Surety #1), (Surety #2)\*, and Total Penal Sum of Bond.

We, Eagle Elsner, Inc., as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto Clackamas County, the sum of (Total Penal Sum of Bond) One Million Two Hundred Eighty Four Thousand One Hundred Eighty & No/100 (\$1,284,180.00) (Provided, that we the Sureties bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety); and

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

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

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

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by it undertaken to be performed under said Contract and any duly authorized modifications that are made, upon the terms set forth therein, and within the time prescribed therein, or as extended therein as provided in the Contract, with or without notice to the Sureties, and shall defend, indemnify, and save harmless Clackamas County and its elected officials, officers, employees and agents, against any claim for direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Contractor or its subcontractors, and shall promptly pay all persons supplying labor, materials or both to the Principal or its subcontractors for prosecution of the work provided in the Contract; and shall promptly pay all contributions due the State Industrial Accident Fund and the State Unemployment Compensation Fund from the Principal or its subcontractors in connection with the performance of the Contract; and shall pay over to the Oregon Department of Revenue all sums required to be deducted and retained from the wages of employees of the Principal and its subcontractors pursuant to ORS 316.167, and



shall permit no lien nor claim to be filed or prosecuted against Clackamas County on account of any labor or materials furnished; and shall do all things required of the Principal by the laws of this State, then this obligation shall be void; otherwise, it shall remain in full force and effect for so long as any term of the Contract remains in effect.

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

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

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES:

Dated this \_\_\_\_\_ day of October, 20 24.

PRINCIPAL: Eagle Elsner, Inc.

By: *Richard Eagle, Pres*  
Signature

Attest: *Mary Nelson*  
Official Capacity  
Corporation Secretary

SURETY: Western Surety Company

[Add signatures for each if using multiple bonds]

BY ATTORNEY-IN-FACT:

[Power-of-Attorney must accompany each bond]

Gloria Bruning  
Name

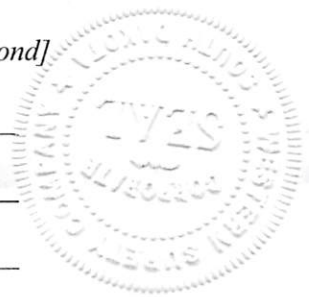
*Gloria Bruning*  
Signature

PO Box 2808  
Address

Portland, OR 97208  
City State Zip

503-224-2500      503-224-9830  
Phone Fax

503-224-2500      503-224-9830  
Phone Fax



# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Philip O Forker, Vicki Mather, Gloria Bruning, J Patrick Dooney, Richard W Kowalski, Brent Olson, Leticia Romano, Joel Dietzman, Christopher A Reburn, Gail A Price, Justin Cumnock, Andrew Choruby, Chloe Lyons, Casey J Geske, Sterling Drew Roddan, Individually**

of Lake Oswego, OR, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

**- In Unlimited Amounts -**

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the Authorizing By-Laws and Resolutions printed at the bottom of this page, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 6th day of November, 2023.



WESTERN SURETY COMPANY

*Larry Kasten*

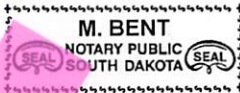
Larry Kasten, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 6th day of November, 2023, before me personally came Larry Kasten, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

March 2, 2026



*M. Bent*

M. Bent, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law and Resolutions of the corporation printed below this certificate are still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this \_\_\_\_\_ day of October, 2024.



WESTERN SURETY COMPANY

*L. Nelson*

L. Nelson, Assistant Secretary

### Authorizing By-Laws and Resolutions

#### ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company:

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

This Power of Attorney is signed by Larry Kasten, Vice President, who has been authorized pursuant to the above Bylaw to execute power of attorneys on behalf of Western Surety Company.

This Power of Attorney may be signed by digital signature and sealed by a digital or otherwise electronic-formatted corporate seal under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 27<sup>th</sup> day of April, 2022:

“RESOLVED: That it is in the best interest of the Company to periodically ratify and confirm any corporate documents signed by digital signatures and to ratify and confirm the use of a digital or otherwise electronic-formatted corporate seal, each to be considered the act and deed of the Company.”

Go to [www.cnasurety.com](http://www.cnasurety.com) > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.



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

**PROJECT: #2024-71 Wildcat Mountain Drive Paving Project**

**Project Background:**

The Wildcat Mountain Drive Paving Project is an asphalt paving contract. This contract will resurface 5.0 miles of road.

This contract will resurface SE Wildcat Mountain Drive, which is classified as a rural connector, between SE Firwood Road and End of County Maintenance at M.P. 5.3.

This contract will include, but not be limited to: approximately 7,750 tons of asphalt pavement; cold plane pavement removal; completing pavement repairs of varying depth, placing pavement markers and striping; installing, maintaining, and removing temporary work zone traffic control measures; and performing additional incidental work as called for by the specifications and plans.

**Engineers Estimate:** \$1,480,900.00

**Key Dates:**

All Basic Bid Work may begin as soon as the Notice to Proceed (“NTP”) is issued

Substantial Completion: August 31, 2025

Final Completion: December 31, 2025

Time is of the essence for this Project. Note the Liquidated Damages requirements as described in the project Specifications.

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

SPECIAL PROVISIONS FOR WILDCAT MOUNTAIN DRIVE PAVING PROJECT,  
CLACKAMAS COUNTY DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT,  
CLACKAMAS COUNTY, OREGON, dated August 2024 (49 PAGES)

Clackamas County Department of Transportation and Development, Wildcat Mountain road Drive Project  
Drawing Set (49 Pages)

**SPECIAL PROVISIONS**  
**FOR**  
**WILDCAT MOUNTAIN DRIVE PAVING PROJECT**

**CLACKAMAS COUNTY DEPARTMENT OF  
TRANSPORTATION AND DEVELOPMENT**

**CLACKAMAS COUNTY, OREGON**



Asphalt Paving & Oiling, Temporary Traffic Control, and Pavement Markings

SE Wildcat Mountain Dr. (SE Firwood Road to M.P. 5.32)

AUGUST 2024

**CLACKAMAS COUNTY DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**

**SPECIAL PROVISIONS**


**FOR**

**WILDCAT MOUNTAIN DRIVE PAVING PROJECT**

**CI-23315**

**CLACKAMAS COUNTY, OREGON**

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

<p>Seal w/signature</p>  <p>EXPIRES: 12/31/2025</p>	<p>I certify the Special Provisions Sections listed below are applicable to the design for the subject project for traffic and roadway improvements. Modified Special Provisions were prepared by me or under my supervision.</p> <p>Section 00110, 00210, 00220, 00221, 00222, 00223, 00224, 00225, 00228, 00280, 00290, 00310, 00330, 00331, 00340, 00490, 00610, 00620, 00641, 00730, 00744, 00748, 00749, 00850, 00855, 00866, 00867, 02020, 02640</p>
<p>Date Signed: <u>08/02/2024</u></p>	



## **SPECIAL PROVISIONS**

### **WORK TO BE DONE**

#### **WILDCAT MOUNTAIN DRIVE PAVING PROJECT, CLACKAMAS COUNTY, OREGON**

The Wildcat Mountain Drive Paving Project is an asphalt paving contract. This contract will resurface 5.0 miles of road.

SE Wildcat Mountain Drive has an average daily traffic of 1,095 vehicles per day and is classified as rural connector.

This contract will include, but not be limited to: approximately 7,750 tons of asphalt pavement; cold plane pavement removal; completing pavement repairs of varying depth, placing pavement markers and striping; installing, maintaining, and removing temporary work zone traffic control measures; and performing additional incidental work as called for by the specifications and plans. The project estimate for this contract is \$1,480,900.00.

### **APPLICABLE SPECIFICATIONS**

The Specification that is applicable to the Work on this Project is the 2021 edition of the "Oregon Standard Specifications for Construction" produced by the Oregon Department of Transportation and the Oregon Chapter of the APWA.

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

### **CLASS OF PROJECT**

This is a Clackamas County Project and is partially funded with federal funds.

### **CLASS OF WORK**

Asphalt Concrete Paving and Oiling (ACP)  
Pavement Markings (PAVE)  
Temporary Traffic Control (TTC)

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

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

### 00110.05(a) Grammer

Add the following bullet to the bullet list:

- For the purposes of this Contract, the terms "sidewalk ramp" and "sidewalk ramps" shall respectively refer to and shall be read to mean "curb ramp" and "curb ramps".

Replace the bullet that begins "Certain Subsections labeled "Payment" contain..." with the following bullet:

- Certain Subsections labeled "Payment" contain statements to the effect that the accepted quantities "will be paid for at the Contract unit price, per unit of measurement, for the following items" (followed by a list of items). In such cases, the Agency will pay for only those Pay Items listed in the Schedule of Items.

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

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

- Clackamas County's Local Contract Review Board (LCRB) Rules are accessible online on the County's website  
<https://dochub.clackamas.us/documents/drupal/ef976bc9-14f4-495b-9bd8-c69ee7334685>.

Add the following bullet:

- **Funding Terms and Conditions** - Comply with all federal grant requirements defined in ARPA Exhibit C Additional Federal Terms and Conditions.

**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
- BidExpress  
www.bidx.com
- EquipmentWatch  
www.equipmentwatch.com

- ODOT Construction Section  
[www.oregon.gov/odot/construction/pages/index.aspx](http://www.oregon.gov/odot/construction/pages/index.aspx)
- ODOT Construction Section - Qualified Products List (QPL)  
[www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx](http://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](http://www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf)
- ODOT Electronic Bidding Information Distribution System (eBids)  
(Also referred to as ODOT eBids website)  
[ecm.odot.state.or.us/cf/EBIDS/](http://ecm.odot.state.or.us/cf/EBIDS/)
- ODOT Estimating  
[www.oregon.gov/ODOT/Business/Pages/Steel.aspx](http://www.oregon.gov/ODOT/Business/Pages/Steel.aspx)
- Oregon Legislative Counsel  
[www.oregonlegislature.gov/lc](http://www.oregonlegislature.gov/lc)
- ODOT Procurement Office - Conflict of Interest Guidelines and Disclosure Forms  
[www.oregon.gov/ODOT/Business/Procurement/Pages/PSK.aspx](http://www.oregon.gov/ODOT/Business/Procurement/Pages/PSK.aspx)
- ODOT Procurement Office - Construction Contracts Unit Notice of Intent  
[www.oregon.gov/ODOT/Business/Procurement/Pages/NOI.aspx](http://www.oregon.gov/ODOT/Business/Procurement/Pages/NOI.aspx)
- ODOT Procurement Office - Construction Contracts Unit prequalification forms  
[www.oregon.gov/odot/business/procurement/pages/bid\\_award.aspx](http://www.oregon.gov/odot/business/procurement/pages/bid_award.aspx)
- Oregon Secretary of State: State Archives  
[sos.oregon.gov/archives/Pages/default.aspx](http://sos.oregon.gov/archives/Pages/default.aspx)
- ODOT Traffic Control Plans Unit  
[www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx](http://www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx)
- ODOT Traffic Standards  
[www.oregon.gov/ODOT/Engineering/Pages/Signals.aspx](http://www.oregon.gov/ODOT/Engineering/Pages/Signals.aspx)

#### **00110.10 Abbreviations**

Add the following:

- CCDA - Clackamas County Development Agency
- DTD - Clackamas County Department of Transportation and Development

- LCRB - Local Contract Review Board
- ODFW - Oregon Department of Fish and Wildlife
- UNS - Utility Notification System
- WES - Water Environment Services of Clackamas County

**00110.20 Definitions**-Add the following to this subsection:

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

**Amendment** – A contract modification for Additional Work, Changed Work, Extra Work, Field Directives, or other changes. An Amendment changes the contract value, scope, and/or time. Amendments require formal approval by the Board of County Commissioners, pursuant to LCRB Rule Division C-049-160, prior to approval of such work.

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

**Award** – Same as “Notice to Intent to Award”.

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

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

**Bid Closing** - The date and time for Bid Closing is the same as the date and time for Bid Opening.

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

- Invitation to Bid, Instructions to Bidders, Bid Form, Bid Proposal, Schedule of Prices, Bid
- Bond, Performance Bond
- Certificate of Insurance, Prevailing Wage Rates
- The "Oregon Standard Specifications for Construction" by ODOT and APWA, 2021 edition.
- Plans and drawings
- Other bid documents included or referenced in the bid documents
- Addenda, if any
- The Agreement Form and Special Provisions

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

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

**Contract** - The written contract agreement, including amendments, signed by the Contractor and Clackamas County, which describes the work to be done, the contract amount, and defines the relationships and obligations of the Contractor and the County.

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

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

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

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

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

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

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

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

**ODOT Procurement Office** – Clackamas County Procurement Division.

**Owner** – Synonymous with Agency.

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

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

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

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

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

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

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

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

Add the following to the end of this subsection:

See Clackamas County General Conditions for Public Improvement Contracts for additional definitions.

## END OF SECTION

### SECTION 00120 – BIDDING REQUIREMENTS AND PROCEDURES

Comply with Section 00120 of the Standard Specifications modified as follows:

**00120.00 Prequalification of Bidders** - Replace with the following:

**00120.00 Prequalification of Bidders** - See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00120.01 General Bidding Requirements** – Replace with the following:

**00120.01 General Bidding Requirements** – See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00120.05 Request for Plans, Special Provisions, and Bid Booklets:** – Replace with the following:

**00120.05 Request for Plans, Special Provisions, and Bid Booklets:** – Bid documents may be obtained from the Clackamas County Procurement Division as indicated in Notice of Public Improvement Contract Opportunity.

Copies of the 2021 Oregon Standard Specifications for Construction and Supplements might be found on the Oregon Department of Transportation website at:

[http://www.oregon.gov/ODOT/Business/Pages/Standard\\_Specifications.aspx](http://www.oregon.gov/ODOT/Business/Pages/Standard_Specifications.aspx)

**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 nondiscrimination 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 ORS 279A.112 (House Bill 3060, 2017)

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

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

**00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids** - See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00120.40 Preparation of Bids** – Replace with the following:

**00120.40 Preparation of Bids** – See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00120.45 Submittal of Bids** - Replace with the following:

**00120.45 Submittal of Bids** - See Clackamas County Public Improvement Contract: Instructions to Bidders.

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

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

**00120.60 Revision or Withdrawal of Bids** - See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00120.68 Mistakes in Bids** – Replace with the following:

**00120.68 Mistakes in Bids** – See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00120.70 Rejection of Nonresponsive Bids** – Replace with the following:

**00120.70 Rejection of Nonresponsive Bids** – See Clackamas County Public Improvement Contract: Instructions to Bidders.

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

## END OF SECTION

### SECTION 00130 – AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the Standard Specifications modified as follows:

**00130.00 Consideration of Bids** - Delete third paragraph.

**00130.10 Award of Contract** - Replace with the following:

**00130.10 Award of Contract** - See Clackamas County Public Improvement Contract: Instructions to Bidders.

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

**00130.15 Right to Protest Award** – See Clackamas County Public Improvement Contract: Instructions to Bidders.

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

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

- The "Oregon Standard Specifications for Construction", 2021 Edition, as published by the Oregon Department of Transportation (ODOT).
- "Oregon Standard Drawings" latest edition, as published by ODOT.
- Clackamas County Service District No. 1 "Surface Water Standard Specifications", latest edition.

**00130.40 Contract Submittals** - Replace with the following:

**00130.40 Contract Submittals** - See Clackamas County Public Improvement Contract: Instructions to Bidders.

**00130.70 Release of Bid Guaranties** – Replace with the following:

**00130.70 Release of Bid Guaranties** – See Clackamas County Public Improvement Contract: Instructions to Bidders.



**00130.80 Project Site Restriction-** Replace the paragraph that begins "Until the Agency sends...", with the following paragraph:

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

## END OF SECTION

### SECTION 00140 – SCOPE OF WORK

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

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

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

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

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

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

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

- 1) Record location of underground services and utilities as installed.
- 2) Record location of existing underground utilities and services that are to remain and that are encountered during the course of the work.

- 3) Record changes in dimension, location, grade or detail to that shown on the plans.
- 4) Record changes made by change order.
- 5) Record details not in the original plans.
- 6) Provide fully completed shop drawings reflecting all revisions.

## **END OF SECTION**

### **SECTION 00150 – CONTROL OF WORK**

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

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

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

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

**00150.10 Coordination of Contract Documents**

(a) **Order of Precedence** – Replace with the following:

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

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

Notes on a drawing shall take precedence over drawing details.

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

**00150.15(a) General** – Delete this subsection.

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

The Engineer will:

- Provide copies of plans and specifications.
- Perform measurements and calculations for pay quantities.
- Perform final "as constructed" measurements.

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

The Contractor shall be responsible to furnish all field controls for setting principal lines, grades, and measurements as needed to construct the Work as indicated in the Contract Documents.

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

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

**00150.50(c) Contractor Responsibilities** – Add the following to the bulleted list:

- Follow applicable rules adopted by the Oregon Utility Notification Center;
- Contact Utility owners during Bid preparation and after Contract is awarded to verify all Utilities involvement on the Project Site;
- Hold a utility scheduling meeting and monthly utility coordination meetings (see also 00180.42);
- Coordinate Project construction with Utilities' planned adjustments, take all precautions necessary to prevent disruption of Utility service, and perform its Work in the manner that results in the least inconvenience to the Utility owners;
- Include all Utility adjustment work, whether to be performed by the Contractor or the Utilities, on the Contractor's Project Work schedule submitted under 00180.41;
- Protect from damage or disturbance any Utility that remains within the area in which Work is being performed. Maintain and re-establish utility location marks according to OAR 952-001-0090(2)(a). Coordinate re-establishment of the location marks with the associated Utility;
- Not disturb an existing Utility if it requires an unanticipated adjustment, but shall protect the Utility from damage or disturbance and promptly notify the Engineer;
- Determine the exact location before excavating within the reasonable accuracy zone according to OAR 952-001-0090(2)(c);
- Backfill any exposed utilities as recommended and approved by the Utility representative. Obtain utility locate warning tape from the Utility and replace

damaged or removed warning tape. Utility locate warning tape may not be present at all existing utilities;

- Stake, place warning tape, and maintain no work limits around critical Utility facilities as shown or directed by the Engineer and the Utility;
- In addition to the notification required in OAR 952-001-0090(5), notify the Engineer and the Utility as soon as the Contractor discovers any previously unknown Utility conflicts or issues. Contrary to the OAR, stop excavating until directed by the Engineer and allow the Utility a minimum of two weeks to relocate or resolve the previously unknown utility issues;
- Report to the Engineer any Utility owner who fails to cooperate or fails to follow the planned Utility adjustment.

Subject to the Engineer's approval, the Contractor may adjust the Utilities by asking the Utility owners to move, remove, or alter their facilities in ways other than as shown on the Plans or in the Special Provisions. The Contractor shall conduct all negotiations, make all arrangements, and assume all costs that arise from such changes.

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

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

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

**(f) Utility Information:** The following organizations have utilities within the limits of the Project. Utility work is not anticipated beyond the adjustment work shown in the plans. Notify each utility, in writing, 14 Calendar Days before proposed pavement preservation work and coordinate adjustment work as necessary.

<b>Utility</b>	<b>Contact Person's Name and Phone Number</b>
1. Portland General Electric	Tyler Bettis, Assoc. DPM tyler.bettis@pgn.com Office: (503) 612-2944 Cell: (503) 676-4706
2. Ziplly Fiber	Scott Binney, Outside Plant Engineer scott.binney@ziplly.com Office: 503.643.0371 Cell: 971.416.6552

3. Astound Broadband

Jeff McConville, Construction PM  
jeffrey.mcconville@astound.com  
Office: (866) 928-3123  
Cell: (503) 318-9804

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

Portions of this project will be constructed in close proximity to existing private improvements. All private improvements disturbed by the Contractor's operations shall be repaired or replaced to equal or better condition at the Contractor's expense. The Engineer may withhold from future payments to the Contractor, an amount equal to the costs reasonably estimated by the Engineer to repair or replace, as the case may be, those private improvements disturbed by the Contractor's operations. Engineer shall release the retained amount once Engineer has determined that the Contractor has completed the repair consistent with the requirements of this provision. In addition, prior to construction, the Contractor shall provide to the Engineer video showing private property, which may be disturbed during construction.

**END OF SECTION**

**SECTION 00160 – SOURCE OF MATERIALS**

Comply with Section 00160 of the Standard Specifications.

**END OF SECTION**

**SECTION 00165 – QUALITY OF MATERIALS**

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

**00165.04 Costs of Testing** – Replace this section with the following sentence:

All testing required to be performed by the Contractor will be at the Contractor's expense.

**00165.10(a) Field-Tested Materials** – Add the following sentence:

The County follows the most current version of the MFTP on its projects:

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

The County follows the most current version of the NTMAG on its projects.

**END OF SECTION**

## SECTION 00170 – LEGAL RELATIONS AND RESPONSIBILITIES

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

Add the following subsection:

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

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

**00170.70 Insurance** - See Clackamas County Public Improvement Contract.

**00170.70(d) Additional Insured** - Add the following paragraph and bullets to the end of this subsection:

Add the following as Additional Insureds under the Contract:

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

**00170.72 Indemnity/Hold Harmless** – Replace with the following:

**00170.72 Indemnity/Hold Harmless** – See Clackamas County Public Improvement Contract.

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

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

**00170.79 Third Party Beneficiary** – Replace the text of this section with the following:

- Third-party beneficiaries to the Contract include the Oregon Department of Transportation and its officers, agents, and employees.

## END OF SECTION

## SECTION 00180 – PROSECUTION AND PROGRESS

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

**00180.06 Assignment of Funds Due under the Contract** – Replace this subsection, except for the subsection number and title, with the following:

Assignment of funds due or to become due under the Contract to the Contractor will not be permitted unless:

- The Contractor secures the written consent of the Contractor's Surety to the assignment; and
- The Engineer gives prior written consent to the assignment, which will not be unreasonably withheld.

**00180.21(a) Subcontracting** - Add the following to the end of this subsection:  
 All contracts with subcontractors or suppliers shall have provisions making the contract assignable to the County, at the option of the County, if the Contractor terminates, goes out of business, declares bankruptcy, or otherwise is unable to perform provided that the County gives the subcontractor notice of assignment within fourteen (14) days of learning of the inability of the Contractor to perform.

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

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

The Contractor must provide, at a minimum, a 48-hour notice to the Clackamas County Project Manager in order to perform any work on Saturdays.

**00180.40(b) On-Site Work** – Add the following bulleted item:

- Conduct a Traffic Control Meeting per Section 00221.08;
- An approved Subgrade Protection Plan per Section 00610.44;

Add the following paragraph to the end of the subsection:

The Contractor shall not begin On-Site Work before March 15, 2025, unless approved by the Engineer.

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:

<b>Limitations</b>	<b>Subsection</b>
Cooperation with Utilities .....	00150.50
On-Site Work.....	00180.40(b)
Contract Completion Time .....	00180.50(h)
Traffic Lane Restrictions .....	00220.40(e)
Special Events .....	00220.40(e)
Noise Control .....	00290.32
Maintenance Under Traffic .....	00620.43

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

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

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

**The Contractor shall notify the County 2 weeks before the first substantial work activity commences on the project site. Project Information Signs and Portable Changeable Message Signs shall be in place 2 weeks before the first substantial work activity commences on the project site.**

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

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

Submit the following during the preconstruction conference unless otherwise directed:

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

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

- Conduct the work at all times in a manner and sequence that will ensure minimal interference with traffic. The Contractor shall not begin work that will interfere with work already started. If it is in the County's best interest to do so, the County may require the Contractor to finish a portion or unit of the project on which work is in progress or to finish a construction operation before work is started on an additional portion or unit of the project.
- **The Contractor shall notify the County 2 weeks before the first substantial work activity commences on the project site.**



- **Project Information Signs and Portable Changeable Message Signs shall be in place 2 weeks before the first substantial work activity commences on the project site.**
- Conduct the work at all times in a manner and sequence that will ensure minimal interference with traffic. The Contractor shall not begin work that will interfere with work already started. If it is in the County's best interest to do so, the County may require the Contractor to finish a portion or unit of the project on which work is in progress or to finish a construction operation before work is started on an additional portion or unit of the project.
- The Contractor will be notified in writing of the specified date to commence work and will not begin work until receipt of this Notice to Proceed. Upon the commencement of grinding, tilling, grading or paving operations on any one respective work site, all necessary work including paving of driveways and road approaches shall be vigorously pursued to reach substantial completion within a 14 calendar day duration. **If at any time a work site is left prior to substantial completion (completed paving of driveways, road approaches, etc.) without written consent from the owner's project manager, this will be considered abandonment by the Contractor.** Failure to meet these time constraints or abandonment shall subject the contractor to the full amount of Liquidated Damages as detailed in Section 00180.50 of these Special Provisions.
- At the time Substantial Completion is reached, the Contractor shall submit a Notice of Substantial Completion.

Add the following subsection:

**00180.50(h) Contract Time** - Complete all Work to be done under the Contract not later than August 31, 2025.

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

If the Inspector has reason to believe that any safety provisions are not being adhered to, the Inspector will immediately notify the Contractor's site foreman and/or the appropriate person and the County Project Manager. The purpose of this discussion is to determine the validity of the alleged violation. This will also allow the Contractor a reasonable amount of time to correct or improve any of the provisions for the safety on this project. If the County Project Manager finds the problem still unresolved or uncorrected, they will notify the Contractor's Project Manager and the County's Risk Management Safety Analyst. If the County's Risk Management Safety Analyst finds that the job site contains any unresolved safety issues they will take appropriate action up to and including suspension of the Contractor's operations on all or part of the Work.

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

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

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

Add the following subsection:

**00180.85(c) Lane Closures and Road Closures** - Lane closures and road closures beyond the limits specified will inconvenience the traveling public and will be a cost to the Agency.

**(1) Lane Closures** - It is impractical to determine the actual damages the Agency will sustain in the event traffic lanes are closed beyond the limits listed in 00220.40(e). Therefore, the Contractor shall pay to the Agency, not as a penalty, but as liquidated damages, \$500 per 15 minutes, or for a portion of 15 minutes, per lane, for any lane closure beyond the limits listed in 00220.40(e). In addition to the liquidated damages, all added cost for traffic control measures, including flagging, required to maintain the lane closures beyond the allowed time limits, will be at no additional cost to the Agency. The required traffic control measures will be as determined by the Engineer.

The Engineer will determine when it is safe to reopen lanes to traffic. Assessment of liquidated damages will stop when all lanes have been safely reopened. Any liquidated damages assessed under these provisions will be in addition to those listed in 00180.85(b).

Add the following subsection:

**00180.85(d) Traffic Delays Beyond 20 Minutes** - Stopping or holding vehicles beyond the limits specified will inconvenience the traveling public and will be a cost to the Agency.

It is impractical to determine the actual damages the Agency will sustain in the event traffic is stopped or held longer than the 20-minute limit listed in 00220.02. Therefore, the Contractor shall pay to the Agency, not as a penalty, but as liquidated damages, \$500 per 20 minutes, or for a portion of 20 minutes, for stopping or holding traffic longer than 20 minutes. In addition to the liquidated damages, any added cost for traffic control measures, including flagging, required to stop or hold traffic beyond the 20-minute time limit, will be at no additional cost to the Agency. The required traffic control measures will be as determined by the Engineer.

Assessment of liquidated damages will stop when the Engineer determines that traffic is no longer stopped or held beyond the 20-minute limit. Any liquidated damages assessed under these provisions will be in addition to those listed in 00180.85(b).

Add the following subsection:

**00180.85(e) Installation of Driveways** – Not completing driveways in a time specified will be an inconvenience to the property owner and will be a cost to the Agency.

It is impractical to determine the actual damages the Agency will sustain in the event a driveway connection isn't constructed in 30 calendar days after mainline paving was completed in front of a driveway. Therefore, the Contractor shall pay to the Agency, not as a penalty, but as liquidated damages, \$500 per each calendar day or for a portion of a calendar day, for not constructing a driveway connection beyond 30 calendar days of when mainline was completed in front of the driveway.

**00180.88 Workplace Harassment Prevention Plan** – Add the following subsection:

Submit a workplace harassment prevention plan for review 10 days before the preconstruction conference. The plan shall ensure all workers are guaranteed a safe and respectful work environment regardless of their identity or status. The plan applies to, but is not limited to, a worker's race, gender, creed, or any protected characteristic under state or federal law. At a minimum, the plan shall include:

- A Statement that the Contractor shall provide a safe and respectful workplace on the jobsite for all workers, subcontractors, suppliers, and other persons performing work.
- A description of how the plan will be implemented and monitored during the project duration.
- A list of the in-person trainings that will be conducted for workers of all ranks working on the project to support, promote, and grow a positive jobsite culture.
- A list of meaningful policies including procedures for aggrieved workers in need of recourse.
- How incidents involving bullying or harassment will be investigated and resolved in a prompt, thorough, and impartial manner.

Contractor shall post on the jobsite and make available copies of policies about hate, intimidation, or harassment including how to report incidents and how to receive support. Materials will be provided in all languages necessary to be inclusive of the workforce.

Add the following subsection:

**00180.89 Measurement** – No measurement of quantities will be made for workplace harassment prevention plan.

**00180.90(a) Termination for Default** - In the paragraph that begins "Termination of the Contract for default...", add the following bullet to the end of the bullet list:

- Has liquidated and delinquent debt owed to the State or any department or Agency of the County.

Add the following subsection:

**00180.95 Payment** – Payment for workplace harassment prevention plan will be for at the Contract lump sum amount for the item "Workplace Harassment Prevention Plan".

Payment will be in full for developing and implementing the plan during construction of the project, in-person training, developing meaningful policies, and investigating incidents.

**END OF SECTION**

**SECTION 00190 – MEASUREMENT OF PAY QUANTITIES**

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

**00190.20(a) Contractor to Provide Vehicle Weigh Scales:** Delete and replace the last paragraph in this section with the following:

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.

**00190.20(f)(1) Scale with Automatic Printer:** Delete and replace the first sentence in this section with the following:

If the scales have an automatic weigh memo printer or an approved electronic weigh memo system that does not require manual entry of gross weight information, the Agency may periodically have a representative at the scales to observe the weighing procedures.

**00190.20(f)(1) Scale with Automatic Printer:** Delete and replace the last bullet in this section with the following:

- Furnish a legible, serially numbered weigh memo for each load of Materials to the Agency's Materials receiver at the point of delivery, or as directed by the Engineer. The memo shall identify the Project, the Materials, the date, net weight (gross and tare as appropriate), and identification of the vehicle and weigh technician. If approved by the Engineer an electronic weigh memo system may be used. Requests to use an electronic weigh memo system shall be submitted to the Engineer according to 00150.37, providing sufficient detail for the Engineer to perform an evaluation. If approved, the Contractor shall provide training, technical support, reports, and weigh memo information to the Engineer at no additional cost to the Agency. The electronic weigh memo system shall be:
  - Capable of recording and securely retaining the same required "weigh memo" information identified above. For retention see 00170.07(c).
  - Fully integrated with the provided weigh scale system.
  - Designed in such a way that the data electronically read from scales cannot be altered by the Contractor, Subcontractor, Supplier, Engineer, or other system users.
  - Designed to allow the Engineer remote access to all the weigh memo data in real-time and allow the Engineer to add comments to the individual weigh memo regarding waste, temperature, stations, yield or other information. The system shall identify the system user or individual that adds comments to the electronic weigh memo or otherwise access the system. The Contractor shall provide the Engineer a means to access the data if the Engineer cannot use an Agency provided hand held device for access.
  - Capable of providing all the weigh memo information, including any added comments, in an electronic data file the Engineer can easily access without proprietary software.

**00190.20(g) Agency-Provided Weigh Technician:** Replace subsection (g) with the following:

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

**00190.30 Plant Scales:** Add the following sentence after the bulleted list:

If approved by the Engineer an electronic weigh memo system may be used in place of a printer system. See 00190.20(f)(3).

## END OF SECTION

### SECTION 00195 – PAYMENT

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

**00195.10 Payment For Changes in Materials Costs** - Replace this subsection with the following subsection:

**00195.10 Asphalt Cement Material Price Escalation/De-escalation** - An asphalt cement escalation/de-escalation clause will be in effect during the life of the Contract.

The Agency reserves all of its rights under the Contract, including, but not limited to, its rights for suspension of the Work under 00180.70 and its rights for termination of the Contract under 00180.90, and this escalation/de-escalation provision shall not limit those rights.

**(a) Monthly Asphalt Cement Material Price (MACMP)** - The Monthly Asphalt Cement Material Price (MACMP) is established by the Agency each month. For the actual MACMP, go to the Agency website at:

<https://www.oregon.gov/ODOT/Business/Pages/Asphalt-Fuel-Price.aspx>

The MACMP is based on selling prices of asphalt cement published by Poten & Partners, Inc. for primarily PG 64-22 paving grades in the Portland, Oregon area and typical non-modified paving grades in the Boise, Idaho area. The MACMP for a given month is the average of the weekly published prices for each area reported each Friday in that month. If any portion of the Project Site is located within the boundaries of ODOT Maintenance District 13 or 14, the MACMP will be based on the prices for the Boise, Idaho area. If no portion of the Project Site is within the boundaries of ODOT Maintenance District 13 or 14, the Contractor may elect to have the MACMP based on the prices of either the Portland, Oregon area or the Boise, Idaho area. If electing to use Boise, Idaho area prices for determination of the MACMP, the Contractor shall notify the Engineer in writing of the Contractor's election before or within 7 Calendar Days after the date of the preconstruction conference. This election, once acknowledged by the Engineer, will be binding for the entire duration of the Contract. If no such written notification is made, the Portland, Oregon area prices will be used as the basis of the MACMP. The area selected as the basis of the MACMP, once chosen, will become the sole area to be used as the basis for all asphalt cement used on the Project.

If the weekly prices cease to be available from Poten & Partners, Inc. for any reason, the Agency, in its discretion will select and begin using a substitute price source or index to

establish the MACMP each month. The Agency does not guarantee that asphalt cement will be available at the MACMP.

**(b) Base Asphalt Cement Material Price (Base)** - The base asphalt cement material price for this Project is the MACMP published on the Agency website for the month immediately preceding the Bid Opening date.

**(c) Monthly Asphalt Cement Adjustment Factor** - The monthly asphalt cement adjustment factor will be determined each month as follows:

- If the MACMP is within  $\pm 5\%$  of the Base, there will be no adjustment.

- If the MACMP is more than 105% of the Base, then:

$$\text{Adjustment Factor} = (\text{MACMP}) - (1.05 \times \text{Base})$$

- If the MACMP is less than 95% of the Base, then:

$$\text{Adjustment Factor} = (\text{MACMP}) - (0.95 \times \text{Base})$$

**(d) Asphalt Cement Price Adjustment** - A price adjustment will be made for the items containing asphalt cement listed below. The price adjustment will only be applied to the quantity of asphalt cement in the mixture calculated from quality control testing performed (% AC, Pb obtained from the Incinerator Method AASHTO T 308) according to Oregon's Standard Specifications for Construction, Section 00744. The price adjustment as calculated in (c) above will use the MACMP for the month the asphalt is incorporated into the Project. The price adjustment will be determined by multiplying the asphalt incorporated during the month for subject Pay Items by the Adjustment Factor.

The Pay Items for which price adjustments will be made are:

**Pay Item(s)**

Level 2, 1/2 Inch ACP With Fibers

**00195.12 Steel Material Price Escalation/De-Escalation Clause** – Add the following sentence:

No steel material price escalation/de-escalations shall be used on this project. There is no option for Contractor participation.

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

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

Significant is defined as:

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

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

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

**00195.50(a) Progress Payments** - Modify as follows:

**(1) Progress Estimates** - Replace the first sentence with the following:

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

**(2) Value of Material on Hand** - Replace with the following:

**(2) Value of Material on Hand** - The Contractor will make an estimate of the amount and value of acceptable material to be incorporated in the completed work which has been delivered and stored as given in 00195.60(a) for review and approval.

**(4) Limitations on Value of Work Accomplished** - In the first sentence, change "Engineer's estimate" to "Contractor's reviewed estimate".

**00195.50 (b) Retainage** - Replace the first paragraph with the following:

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

**00195.50(c) Forms of Retainage** – Replace the first paragraph with the following:

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

Replace paragraph (2) with the following:

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

**00195.50(d) Release of Retainage** – Replace with the following:

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

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

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

#### **END OF SECTION**

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

Comply with Section 00196 of the Standard Specifications modified as follows:

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

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

#### **END OF SECTION**

#### **SECTION 00197 – PAYMENT FOR FORCE ACCOUNT WORK**

Comply with Section 00197 of the Standard Specifications.

#### **END OF SECTION**

#### **SECTION 00199 – DISAGREEMENTS, PROTESTS AND CLAIMS**

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



**00199.40 Claim Decision; Review; Exhaustion of Administrative Remedies** - Replace the entire section with the following:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Contractor shall comply with 00170.00.

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

**00199.60 Review of Determination Regarding Records** - Delete the entire section.

**END OF SECTION**

**SECTION 00210 - MOBILIZATION**

Comply with Section 00210 of the Standard Specifications.

**END OF SECTION**

**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 bullet to the end of the bullet list:

- When paving operations create an abrupt edge, protect traffic by installing a "DO NOT PASS" (R4-1) sign before the Work Area at sign spacing "A" from the TCD Spacing Table" shown on the Standard Drawings. Alternate "ABRUPT EDGE" (CW21-7) signs with appropriate (CW21-8) rider at 500 foot spacings. Install a "BUMP" (W8-1) sign 100 feet prior to the transverse paving edge.
- Maintain and coordinate access to all affected properties. Allow unrestricted vehicle and pedestrian access to all properties outside the allowable working hours.
- Open all lanes and adjacent asphalt surfaces (including shoulders and bike lanes) on all streets outside of allowable working or lane restriction hours with temporary or permanent pavement surfacing.
- Provide and maintain access to garbage containers and garbage pick-up, mail and other regularly scheduled deliveries. Coordinate with school districts and with public transit to minimize impacts and delays for any school and public bus routes.
- Notify all emergency services of all changes to the traffic control prior to completing the change. Notify Police and Fire of all lane closures.

**00220.40(e)(1) Closed Lanes** - Replace this subsection, except for the subsection number and title, with the following:

Traffic Lanes may be closed when allowed, shown, or directed during the following periods of time except as specified in 00220.40(e)(2):

**Single Lane Closures** – One Traffic Lane may be closed during the following times:

- Daily, Monday through Friday, between 7:00 a.m. and 6:00 p.m.

**00220.60(a)(1) Contractor Responsibility** - Add the following bullets after the bullet that begins "Maintain all detour...":

- Keep surfaces being used by bicycles and pedestrians free of all dirt, mud, gravel and other harmful materials. Surfaces include bike paths, bike lanes, roadway shoulders or the outside 4 feet of the roadway.
- Vacuum sweep loose aggregate, soil and other materials on the roadway out of the travel ways at the end of each day. Swept materials shall be removed by broom, or other means to prevent pollution of the storm sewer system or receiving streams.

## END OF SECTION

### SECTION 00221 - COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

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

**00221.03 Traffic Safety and Operations** - Replace the bullet that begins "When paving operations create..." with the following bullets:

- 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).
- All work zones exceeding 1,500 feet in length shall require the use of a pilot car. During pilot car operations, install a 15-inch by 24-inch "WAIT FOR PILOT CAR: (CR4-20) sign at each driveway approach and intersecting side street within the limits of the pilot car operation.

**00221.06 Traffic Control Plan** – Replace the first paragraph with the following:

The Contractor is required to submit a site-specific traffic control plan prepared by a TCP company, with additional detail meeting the project requirements for review 5 Calendar Days before the preconstruction conference.

**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 00744.44, and 00744.45, as applicable.

Add the following subsection:

**00221.08 Traffic Control Meeting** - All personnel who will directly supervise the traffic control must attend a traffic control meeting. Contractor to produce and distribute meeting minutes within seven (7) days following the meeting.

**00221.90(b) Temporary Protection and Direction of Traffic** – 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.

**00221.98 Payment, Method "B" – Lump Sum Basis** – Replace this subsection except for the heading and title with the following:

Work zone traffic control will be paid for at the Contract lump sum amounts for the items "Temporary Work Zone Traffic Control, Complete".

When the schedule of items includes both "Temporary Work Zone Traffic Control, Complete" and other unit based pay items described in Method "A", only the pay items included in the bid item schedule will be paid. All TCD and operations required to safely protect and direct traffic around and through the work zone(s) not listed in the bid item schedule shall be included in the lump sum price for "Temporary Work Zone Traffic Control, Complete."

Payment includes all traffic control costs including flagging (to the extent deemed necessary by the Engineer) during the course of construction and as needed to complete punch list items. Payment also includes the removal of existing striping and legends shown to be replaced.

## END OF SECTION

### 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:

- Place a "PEDESTRIANS ON ROADWAY" (CW11-2) sign at the beginning of each end of the Work Area, facing incoming traffic as shown, or as directed.
- Install a "PAVING SIGN" on a single wood post. Install a "PROJECT NOTIFICATION SIGN" on a single wood post. Place these Project Information Signs according to sign spacing "A" from the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Supplemental Drawings, in advance of the "ROAD WORK AHEAD" sign at each end of the Project, facing incoming traffic. See project plans for sign size and legend.

- Install an 18 by 24-inch "NO PARKING" (R8-3a) sign in every block where on-street parking is prohibited, facing incoming traffic.
- 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 Signing" detail shown on the Standard Drawings.
- All work zones exceeding 1,500 feet in length shall require the use of a pilot car. During pilot car operations, install a 15-inch by 24-inch "WAIT FOR PILOT CAR: (CR4-20) sign at each driveway approach and intersecting side street within the limits of the pilot car operation.
- In addition to the signs, public notification (e.g. flyers, door hangers) may be used to inform the residents that may be affected by the pilot car operations and the "WAIT FOR PILOT CAR" signs.

**00222.80(b) Unit Basis** - Add the following:

Portable Changeable Message Signs shall be installed for the duration of the project. No additional measurement will be made for relocating signs to accommodate changes in work zone or additional project sites.

**00222.90 Payment** - Add the following pay items:

(e) Temporary Project Information Signs..... Square Feet

Add the following after the sentence that begins "In item (d)";

Item (e) includes installing and removing temporary project information signs shown in the plans or as directed by the Engineer.

**END OF SECTION**

**SECTION 00223 - WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES**

Comply with Section 00223 of the Standard Specifications.

**END OF SECTION**

**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 to delineate the edge of Pavement immediately after construction Work or paving operations..." 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.

## END OF SECTION

### SECTION 00225 - TEMPORARY PAVEMENT MARKINGS

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

**00225.40 Temporary Pavement Markers** - Replace the paragraph that begins "Unless otherwise shown..." and the three bullets with the following paragraphs and bullets:

Install temporary flexible overlay pavement markers for temporary centerline marking as follows:

- Place and maintain one temporary flexible overlay pavement marker on 40 foot spacing in tangent and curve sections except as below.
- Place and maintain one temporary flexible overlay pavement marker on 20 foot spacing in curved alignment sections identified by a speed rider displaying less than the posted speed and channelization areas.

Establish alignment for placing the temporary flexible overlay pavement markers as follows:

- Control markers at:
  - 200 foot intervals on tangents
  - 50 foot intervals on curves
  - 40 foot intervals on curves with speed rider
- Use string line or other appropriate means to maintain proper alignment of the markers. Adjust placement to avoid straddling a longitudinal joint, while maintaining a suitable alignment of markers.
- Remove and replace misaligned markers at no additional cost to the Agency.

## END OF SECTION

### SECTION 00228 - TEMPORARY PEDESTRIAN AND BICYCLIST ROUTING

Comply with Section 00228 of the Standard Specifications modified as follows:

**00228.00 Scope** - Replace this subsection, except subsection number and title, with the following:

In addition to the requirements of Section 00221, this Work consists of furnishing, installing, operating, maintaining, inspecting, and removing temporary devices for accommodating pedestrians and bicyclists through a work zone.

## END OF SECTION

### SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

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

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

**00280.03 Standards** - Replace this subsection, except for the subsection number and title, with the following:

When designing, applying, installing, maintaining, inspecting, and removing erosion and sediment control devices, use the version in effect on the date the Project is advertised, of the Clackamas Water Environment Services *Erosion Prevention and Sediment Control Planning and Design Manual*.

**00280.62 Inspection and Monitoring** - Replace this subsection, except for the subsection number and title, with the following:

Inspect the Project Site and all ESC devices for potential erosion or sediment movement as follows:

- On initial date of construction activity
- Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site.
- At least once every 7 days for active sites.
- Every 2 weeks for inactive sites

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.

**00280.80 Measurement** - Add the following paragraph to the end of this subsection:

**(f) Incidental** – No measurement will be made and all Work shall be considered incidental to the Work. When unit based bid items are included in the bid item schedule, only those items listed will be measured and all other Work required to comply with this section and applicable permits shall be considered incidental.



**00280.90 Payment** – Add the following paragraph after the paragraph beginning “When only item (a)...”:

Only items listed in the bid schedule will be measured separately. All other work required to comply with this section and applicable permits will be considered incidental to the work and no additional payment will be made.

**END OF SECTION**

**SECTION 00290 - ENVIRONMENTAL PROTECTION**

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

**00290.32 Noise Control** - Replace the first bullet paragraph with the following:

- Do not perform construction within 1,000 feet of an occupied dwelling between the hours of 10:00 pm and 7:00 am, Monday through Friday, without the approval of the Engineer. No work is allowed on the weekend without the approval of the Engineer.

**END OF SECTION**

**SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

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

**00310.45 Maintenance Under Traffic** - Add the following subsection:

Traffic, including construction equipment, is not allowed on the milled pavement surface except for paving operations. Before opening the area to traffic, pave the surface according to 00744.51.

**00310.92 Separate Item Basis** – Add the following pay items:

- (i) Removal of Concrete Driveway.....Square Yard

Replace the paragraph that begins “Item (d) includes” with the following:

Add the following paragraph after the paragraph beginning “Item (g) applies...”:

Item (i) includes removal of all concrete driveways, reinforced or unreinforced, and all associated work including saw cutting and disposal of cementitious construction material.

**END SECTION**

## **SECTION 00330 - EARTHWORK**

Comply with Section 00330 of the Standard Specifications.

**END SECTION**

## **SECTION 00331 - SUBGRADE STABILIZATION**

Comply with Section 00331 of the Standard Specifications.

**END SECTION**

## **SECTION 00340 - WATERING**

Comply with Section 00340 of the Standard Specifications.

**END SECTION**

## **SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES**

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

**00490.01 Descriptive Terms** – Supplement the definition of “Adjust” with the following:

Adjusting structures (manhole rims, valves, boxes, and catch basins) shall also include hand removal of existing asphalt pavement around the structure as required to overlay or inlay the proposed pavement section. Adjusting inlets shall also include additional work associated with maintaining or revising the finish grade surrounding the catch basins to maintain or provide positive drainage.

**00490.48 Adjusting Boxes, Cleanout Lids and Similar Structures** – Add the following to the end of this subsection:

Survey monuments may be present throughout the project areas, located outside monument boxes. The Contractor shall protect all monuments from damage to the maximum extent feasible and install new boxes, where shown in the Plans. Including installing new monument boxes over existing monument pins located within the roadway that do not have an existing box. The Contractor shall be responsible for installing monument boxes at the exact

horizontal location of any monument that has been disturbed. The Engineer's surveyor will reset the vertical location of monuments that are disturbed after construction. Coordination with the Engineer's surveyor and protection of existing monuments shall be incidental to other work under this project.

The Contractor may encounter cases where a utility facility (such as a valve box) has been adjusted by the utility owner and cold mix has been placed around the facility. The Contractor shall remove and dispose of this cold mix, replace it with asphalt concrete pavement, and hand-compact it in advance of the pavement Work. This Work is considered incidental to the box adjustment item on the bid schedule.

Water and gas valve access lids shall only be adjusted by raising the top section of the existing valve can.

**00490.80 Measurement** – Add the following to this subsection:

No measurement shall be made for adjusting structures or boxes owned by utility providers. All work associated with installing grade adjustment rings provided by others or raising boxes to finish grade during paving operations which are not owned by Clackamas County will be considered incidental to other bid items including coordination with utility owners.

**00490.90 Payment:** Add the following:

Add the following pay items to the pay item list:

<b>Pay Item</b>	<b>Unit of Measurement</b>
(j) Cast Iron Monument Boxes.....	Each

Add the following to the end of this subsection:

Item (i) includes furnishing and installing a new monument box over an existing monument to complete the work as approved by the Engineer. Coordination with the Engineer's surveyor and protection of existing monuments shall be incidental to other bid items and will not be paid separately under this bid item.

**END SECTION**

**SECTION 00610 - RECONDITIONING EXISTING ROADWAY**

Comply with Section 00610 of the Standard Specifications modified as follows:

Add the following section:

**00610.44 Protect Existing Subgrade** – The Contractor shall protect the existing roadway base and subgrade from damage following asphalt cold plane pavement removal. Protection will include limiting all construction activities that could damage either exposed or aggregate base covered subgrade such as continued loading with construction equipment as part of

haul routes for other work, continued loading during periods with inclement weather or as part of hauling operations that could compromise subgrade soils and all other activities within control of the Contractor. The Contractor shall protect subgrades from excessive moisture after pavement removal. Preventative measures shall be utilized to protect the subgrade during forecasted precipitation. Any damage to the subgrade as a result of the Contractor's negligence shall be repaired at the Contractor's expense.

The Contractor shall prepare and submit a subgrade protection plan that identifies the Contractor's intended means and methods of removing existing surfaces, constructing new base or subgrade surfaces as prescribed in the Contract Documents, and protecting the existing subgrade from potential damage by the Contractor's operations or outside factors such as weather. The Contractor shall be responsible to phase all work that places construction loads directly on the existing subgrade and select equipment sizes and classes in an effort to minimize potential overloading of the existing subgrade. If the Contractor's plan includes running haul equipment on exposed subgrades or aggregate covered subgrades, the haul equipment shall be limited to half of the maximum legal load.

**00610.80 Measurement** – Replace this subsection, except for the number and title, with the following:

No Measurement of quantities will be made for Work that is required to be done under these Specifications.

**00610.90 Payment** – Replace this subsection, except for the number and title, with the following:

No Separate or additional payment will be made for Work that is required to be done under these Specifications.

## END SECTION

### 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.

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

Traffic is not allowed on cold planed surfaces. Before opening the area to traffic, pave the surface according to 00744.51.



h) Aggregate Approach: Aggregate Base.....Ton

Add the following to the end of this subsection:

In items (f), the size of the aggregate shall be included after the bid item in parenthesis.

Item (h) includes aggregate sections constructed as part of driveway approach transitions.

**END SECTION**

**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".

**00730.22 Asphalt Distributor** – Add the following to the end of this subsection:

Apply emulsified asphalt material to vertical surfaces (curb faces, catch basin faces, butt joints, etc.). Avoid excess tack coat overspray being applied to vertical surfaces. Shields protecting vertical faces shall be provided and used during tacking operations. All overspray shall be promptly removed.

**00730.44 Applying Tack Coat** – Replace the paragraph beginning with "Apply the emulsified asphalt..." with the following sentence:

A tack coat shall be applied between the existing pavement and the overlay and between all pavement courses.

Tack coat shall be applied only so far in advance as is appropriate to insure a tacky condition of the asphalt at the time of placing the next course of pavement material. Application shall be scheduled so as to offer the least interference to traffic and to permit one-way traffic without pickup or tracking. The tack coat shall be covered the same day as applied.

Apply the emulsified asphalt to the prepared surface at a rate between 0.08 and 0.20 gallons per square yard as directed and with the emulsified asphalt temperature between 140 °F and 185 °F as recommend by the manufacture. Additional application of tack may be required, as directed by the Inspector, to obtain the necessary residual asphalt.

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

No separate or additional payment will be made for Emulsified Asphalt tack coat.

**END SECTION**

## SECTION 00744 - ASPHALT CONCRETE PAVEMENT

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

**00744.00 Scope** - Add the following paragraph(s) to the end of this subsection:

Where shown, Work shall include furnishing all materials, labor, and incidentals for mixing aramid fibers into ACP, when aramid fiber is required as a mixture ingredient. The fiber reinforced HMAC will be subject to all requirements for ACP in Section 00744, except as modified in this Section.

**00744.02 Definitions** – Insert the following in alphabetical order:

**Reinforcing Fibers** – An asphalt concrete pavement additive consisting of aramid fibers blended at time of mixing.

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

Provide PG 64-22 grade asphalt cement for this Project.

Add the following subsections:

**00744.15 Reinforcement Fiber Blend** - Provide a reinforcing fiber blend of Virgin Polyolefins and Virgin Aramids conforming to the minimum requirements below. Design JMF without the reinforcing fibers. Do not alter the final mix design for the addition of fiber at the asphalt plant. Certified reinforcing fiber test data for the fibers to be used on the project shall be submitted at the time of the JMF submittal.

<b>Property</b>	<b>Measure</b>	<b>Standard</b>
Material	Aramid	ASTM D276
Form	Monofilament fibers	Manufacturer Certification
Length	0.75 inches (+/- 10%)	Manufacturer Certification
Specific Gravity	1.44	ASTM D276
Minimum Tensile Strength	400,000 psi	ASTM D3379
Maximum Tensile Elongation	1.8 %	ASTM D3379
Degradation Temperature	800 degrees F	ASTM D276
Acid and Alkali Resistance	Inert	Manufacturer Certification

Submit the following:

- a. Provide a representative fiber product sample.
- b. Provide a fiber product data sheet and certification from the manufacturer that the fiber product supplied meets the requirements of this specification.
- c. Manufacturer's instructions and general recommendations.

d. Provide the following from the product supplier at least three weeks prior to HMA production.

- Identify the mixing plant.
- The supplier's specified mix rate for the fiber product.
- Evidence showing how many times, if any, the supplier's fiber product has been successfully produced at the asphalt plant to be used for the project.
- Process for introducing the fiber product to the mix.

**00744.25 Fiber Storage, Mixing and Mix Production** - Store, mix and produce the fiber reinforced ACP mixture in accordance with the following requirements:

1. Deliver fiber-reinforcement in sealed, undamaged containers with labels intact and legible, indicating material name and lot number.

2. Deliver fiber-reinforcement to location where it will be added to each batch or loaded into the mixer.

3. Store materials covered and off the ground. Keep sand and dust out of boxes and do not allow boxes to become wet.

4. Add aramid and polyolefin reinforcing fiber blends at a dosage rate of one (1) pound fiber per one (1) ton of asphalt. Non-aramid fiber blends, aramid fiber blends with dosages less than 1 pound per ton, or fiber ton equivalents will not be accepted.

5. Have a fiber manufacturer's representative on site during mixing and production.

6. Batch Plant - When a batch plant is used, add fiber to the aggregate in the weigh hopper and increase both dry and wet mixing times. Ensure that the fiber is uniformly distributed before the injection of asphalt cement into the mixture.

7. Drum Plant:

a. Inject fibers through the RAP collar manually or by feeding them with a metered air blown system to promote rapid and complete fiber dispersion. Rate the feeding of fibers with the rate the plant is producing asphalt mix. If there is any evidence of fiber bundles at the discharge chute, increase the mixing time and/or temperature or change the angle of the fiber feeder line to increase dry mixing time.

b. Add fibers continuously and in a steady uniform manner. Provide automated proportioning devices and control delivery within  $\pm 10\%$  of the mass of the fibers required. Perform an equipment calibration to the satisfaction of the fiber manufacturer's representative to show that the fiber is being accurately metered and uniformly distributed into the mix.

Include the following with the air blown system:

- Low level indicators
- No-flow indicators
- A printout of feed rate status in pounds/minute
- A section of transparent pipe in the fiber supply line for observing consistency of flow or feed.
- Manufacturer's representative's approval of fiber addition system



**00744.26 Reinforcement Fiber Quality Control** - Provide reinforcement fiber quality control according to the following:

1. Collect a 10kg sample of mix from the discharge chute during first 50 tons of production. Visually assess the state of aramid fibers and rate the sample as “Pass” or “Fail”.
  - i. “Pass” = All fibers exist in an Individual State and no Undistributed Clips or Agitated Bundles of fiber are detected.
  - ii. “Fail” = One or more Undistributed Clips or Agitated Bundles are detected.
2. If a sample is rated as “Fail”, adjust mixing operations to improve fiber dispersion and repeat Step 1 above.
3. If Visual Test results in three consecutive “Fail” ratings, stop production until a plan for corrective action is approved by the Engineer.
4. In addition to Visual Test, use a shovel to inspect the fiber reinforced mix in the back of first three trucks and every tenth truck thereafter to confirm adequate blending of the fiber.
5. Remove any observed fiber bundles from placed mixture and adjust operations per the manufacturer’s recommendation to eliminate future fiber bundle development, and repeat Steps 1 through 3 above to confirm adequate aramid fiber dispersion.

**00744.27 Trucks** – Do not use vehicles or transfers with rear drop axles in which raising the drop axle would cause the vehicle to exceed legal load limits.

**00744.30 Quality Control Personnel** - Add the following to the end of the subsection:

Providing a fiber reinforcing product representative at the ACP plant site when producing mixture for the Project.

**00744.42 Preparing Underlying Surfaces** - Replace this subsection, except for the subsection number, with the following:

- a) **Overlay Preparation** - Existing pavement surfaces shall be cleaned of all loose material, dirt vegetation, and dust by brooming, by flushing with water or other approved methods prior to applying the tack coat. Any grass or other vegetation between the existing asphalt concrete and the curb shall be totally removed. Any vegetation that exists over the face of the curb line shall be removed in a neat workman like manner. Any existing curb shall be cleaned and a tack coat applied to the curb face prior to paving.

**NOTE: The Contractor is responsible for street sweeping. Special attention will be given to organic materials in cracks and the removal of all materials on the edge of the existing pavement. The Contractor shall use vacuum sweepers that are self-propelled equipped with rotating brooms and brushes that are capable of loosening dirt and debris from the road surface and collecting the material by vacuum device.**

All work required in the cleaning and preparing the work site as described above and payment for this item shall be considered incidental to and included in the unit price for asphalt concrete material, and no additional compensation shall apply.

- b) **Tack Coat** - Construct a tack coat before placing each Lift of ACP according to Section 00730. A tack coat is not required before placing ACP on Aggregate Base.

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

Treat all paved surfaces on and against which ACP is to be placed with an asphalt tack coat according to Section 00730. Before applying the tack coat, clean and dry the surface to be tacked.

Treat all waterproofing membranes on and against which ACP is to be placed with an asphalt tack coat meeting the requirements of 00744.11(a) or as recommended by the membrane manufacturer.

**00744.44(a)(2) Wearing Course** - Replace the paragraph that begins "Construct longitudinal joints ..." with the following paragraph:

Construct longitudinal joints six inches from permanent lane markings, or as shown or directed.

**00744.44(b) Drop-Offs** - Replace the bullet that begins "Provide warning signs and markings..." with the following bullet:

- Provide warning signs and markings according to Sections 00221, 00222, 00224 and 00225 where abrupt or sloped edge drop-offs greater than 1 inch in height occur.

Add the following subsections:

**00744.46 Depositing** - For driveways and other approaches the Contractor shall deposit additional material for approach apron. In no case will material be removed from the traveled lane for approach apron.

**00744.51 Opening Sections to Traffic** - Schedule work so that, during the same shift, the surfaces being paved are paved full width and length through the top Base Course before opening to traffic. Traffic will not be allowed on the top milled surfaces.

Before beginning wearing Course paving operations, make repairs to the existing surface as directed according to 00610, 00620, and 00748.

**00744.76 Sand Seal** - All joints between asphalt concrete pavement, Portland Cement Concrete, old surfaces, curbs, gutters, inlet structures, manholes, etc. shall be sealed by an application of CSS-1 emulsified asphalt followed immediately by a cover coat of clean sand. Width of joint seal coat shall be no less than four inches and no more than six inches.

**00744.77 Cleanup** - Clean and remove all excess asphalt, debris and tack from all facilities including but not limited to manhole covers, valve boxes, catch basins, concrete gutter and curb faces.

Keep a sweeper on site at all times to sweep areas at the end of each work shift, as needed and as directed.

**00744.78 Finish Surfaces** - Finish surfaces to the necessary grade which establishes a smooth and drivable surface free from bumps, humps or other vertical abnormalities. Establish grades for positive drainage which matches existing acceptable drainage or improves the existing conditions of the site prior to pavement overlay, grind/inlay, and base grading. Grading which continues to cause ponding shall be discussed and approved by the Engineer prior to paving.

**00744.80 Measurement** - Replace the paragraph that begins "The quantities of ACP..." with the following paragraph:

The quantities of ACP shown in the Contract Schedule of Items were computed on the basis of ACP Mixture having a compacted density of 1.95 tons per cubic yard.

The quantities of ACP will be measured on the weight basis. No separate measurement will be made for asphalt cement used in the mixture. No deduction will be made for lime or any other additive used in the mixture.

**00744.90 Payment** - Replace the paragraph that begins "No separate or additional..." with the following paragraph:

No separate or additional payment will be made for:

- reconditioning existing roadway
- asphalt cement, mineral filler, lime, fibers, and anti-stripping or other additives contained in the mixture
- tack coat
- cleaning existing pavement surfaces in preparation for applying the tack
- power sweeping existing surfaces
- sand sealing joints
- QC Testing
- temporary asphalt concrete pavement placed to open the roadway to traffic
- sawing, cleaning, and filling joints on bridge deck overlays

Add the following subsection:

**00744.95 Price Adjustments** - There will be no ACP Price Adjustments for this project. Asphalt concrete placed that does not comply with the compaction requirements herein shall be removed and replaced at the discretion of the Engineer.

**END SECTION**

## SECTION 00748 - ASPHALT CONCRETE PAVEMENT REPAIR

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

**00748.40 Excavation and Confirmation of Subgrade Suitability** – Replace this subsection, except for the subsection number, with the following:

(a) **Excavation** - Excavate and remove material to the lines and grades shown or directed. Dispose of the excavated material according to 00330.41(a)(5).

(b) **Confirmation of Subgrade Suitability** - Where subgrade or aggregate is exposed from grinding or repair operations and prior to paving, test the stability of the exposed material in the presence of the inspector by either foundation probe or proof roll. Subgrade that is found to be unsatisfactory is subject to additional rehabilitation at the discretion of the Engineer.

**00748.80 Measurement** – Supplement this section with the following:

The Engineer will delineate repair areas in the field prior to the Contractor completing work under this section. Measurement of repair areas will be based on the actual measurements delineated by the Engineer. No adjustment to the measurements will be made if the Contractor elects to remove additional area based on available equipment sizes and limitations.

**00748.90 Payment** – Add the following:

No separate or additional payment will be made for sawcutting existing pavements associated with this work.

## END SECTION

## SECTION 00749 - MISCELLANEOUS ASPHALT CONCRETE STRUCTURES

Comply with Section 00749 of the Standard Specifications modified as follows:

Add the following subsection:

**00749.03 Definitions:**

**Spot Grind and Inlay Areas** - Spot grind and inlay areas are pavement areas that require localized cold plan pavement removal and ACP inlay to address existing pavement deficiencies following initial mainline cold plane pavement removal and sweeping operations. The Engineer shall determine the location of spot grind and inlay areas.

**00749.90 Payment** – Replace the paragraph that begins “Aggregate will be paid...”, with the following paragraph:

When aggregate base is not included as a separate Pay Item, no separate or additional payment will be made for aggregate base.

**00749.91 Method "A" – Weight and Extras Basis** – Replace this subsection, except for the subsection number and title, with the following:

The items to be paid for under Method "A" are:

<b>Pay Item</b>	<b>Measurement</b>
a) Extra for Asphalt Approaches.....	Each
b) Extra for Spot Grind and Inlays.....	Square Yard

Item (a) includes road approaches, street connections, alley approaches, paved driveways, guardrail flares, non-flared guardrail terminals, and mailbox turnouts.

Item (b) includes spot grind and inlay areas as shown or as directed by the Engineer. This Work shall be performed after initial mainline cold plane pavement removal and sweeping operations. Areas will be based on a typical grinder width (7-foot minimum pay limit width). Asphalt concrete pavement and cold plane pavement removal will be measured and paid for separately. Payment will be payment in full for all extra or additional costs involved in cold plane pavement removal and in placing asphalt concrete as specified. These costs are in addition to those which are included in the payment for cold plane pavement removal and asphalt concrete incorporated into the spot grind and inlay areas.

Payment will be payment in full for all extra or additional costs involved in placing asphalt concrete or aggregate base in the respective Structures as specified. These costs are in addition to those which are included in the payment made for the asphalt concrete and aggregate bases incorporated into the Structures.

**END SECTION**

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

Comply with Section 00850 of the Standard Specifications modified as follows:

Add the following subsection:

**00850.12 Reflective Elements** – Swarco 3130 blend or approved equal from the ODOT QPL shall be used with Hi-Built Paint.

**00850.30 Manufacturer's Representative** - Replace this subsection, except for the subsection number and title, with the following:

For Sections referencing 00850.30, the services of a manufacturer's representative are not required. Place pavement markings only when the pavement is ready for the pavement marking material according to the manufacturer's installation instructions.

**END SECTION**

**SECTION 00855 - PAVEMENT MARKERS**

Comply with Section 00855 of the Standard Specifications.

**END SECTION**

**SECTION 00866 - LONGITUDINAL PAVEMENT MARKINGS - HIGH PERFORMANCE**

Comply with Section 00866 of the Standard Specifications, modified as follows.

Add the following subsection:

**00866.44 Alignment Layout** - Place control points for lines every 50 feet on tangent and every 25 feet on a curve. Using these control points, layout a continuous narrow guideline for each line, along one edge of, or uniformly offset from the intended permanent line location. Do not proceed with installation until the dribble line until guidelines are approved by the Engineer.

Dribble lines shall consist of marking the pavement with spots of paint no more than 2 inches in width and not more than 5 feet apart using a striping machine. Dribble lines shall be on a straight line between control points on tangent alignment and on a true arc control points on a curved alignment. Paint for dribble lines shall be the same color as the traffic stripe that will be placed. Do not proceed with installation of pavement markings until dribble lines are approved by the Engineer.

**00866.80 Measurement** – Add the following to the end of this subsection:

The quantities of dribble line will be measured on the length basis. Measurement will be the actual dribble line. Gaps between dribble marks will not be measured.

**00866.90 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:

<b>Pay Item</b>	<b>Unit of Measurement</b>
<b>Method 2 (Sprayed)</b>	
(a) Hi-Build Paint, 25 Mil, Sprayed, _____	..... Foot

(b) Dribble Line, Sprayed, \_\_\_\_\_ ..... Foot

The word "Surface" or "Grooved" will be inserted in the blank.

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

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

**END SECTION**

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

Comply with Section 00867 of the Standard Specifications.

**END SECTION**

**SECTION 02020 - WATER**

Comply with Section 02020 of the Standard Specifications.

**END SECTION**

**SECTION 02640 - SHOULDER AGGREGATE**

Comply with Section 02640 of the Standard Specifications modified as follows:

**02640.10 Dense-Graded Aggregate** – Modify this section as follows:

Use 1 ½" – 0" column in Table 02630-1 for the specified gradation.

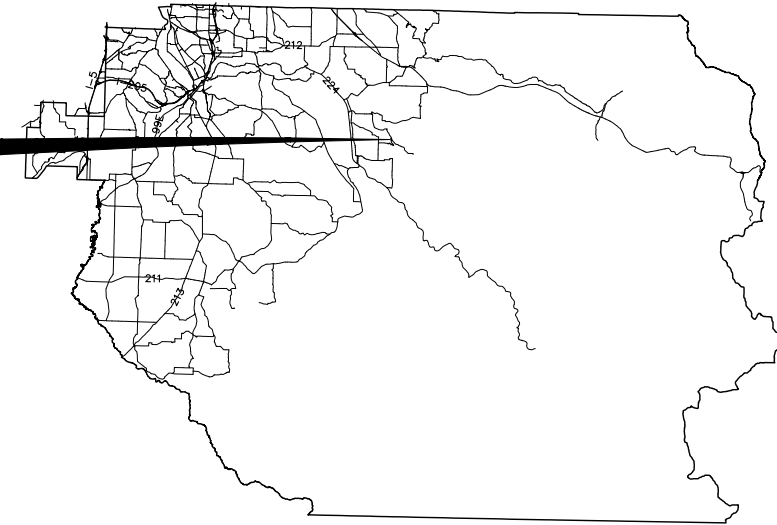
**END SECTION**

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# CLACKAMAS COUNTY DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

PLANS FOR PROPOSED PROJECT  
PAVING, GRINDING, AND GRADING

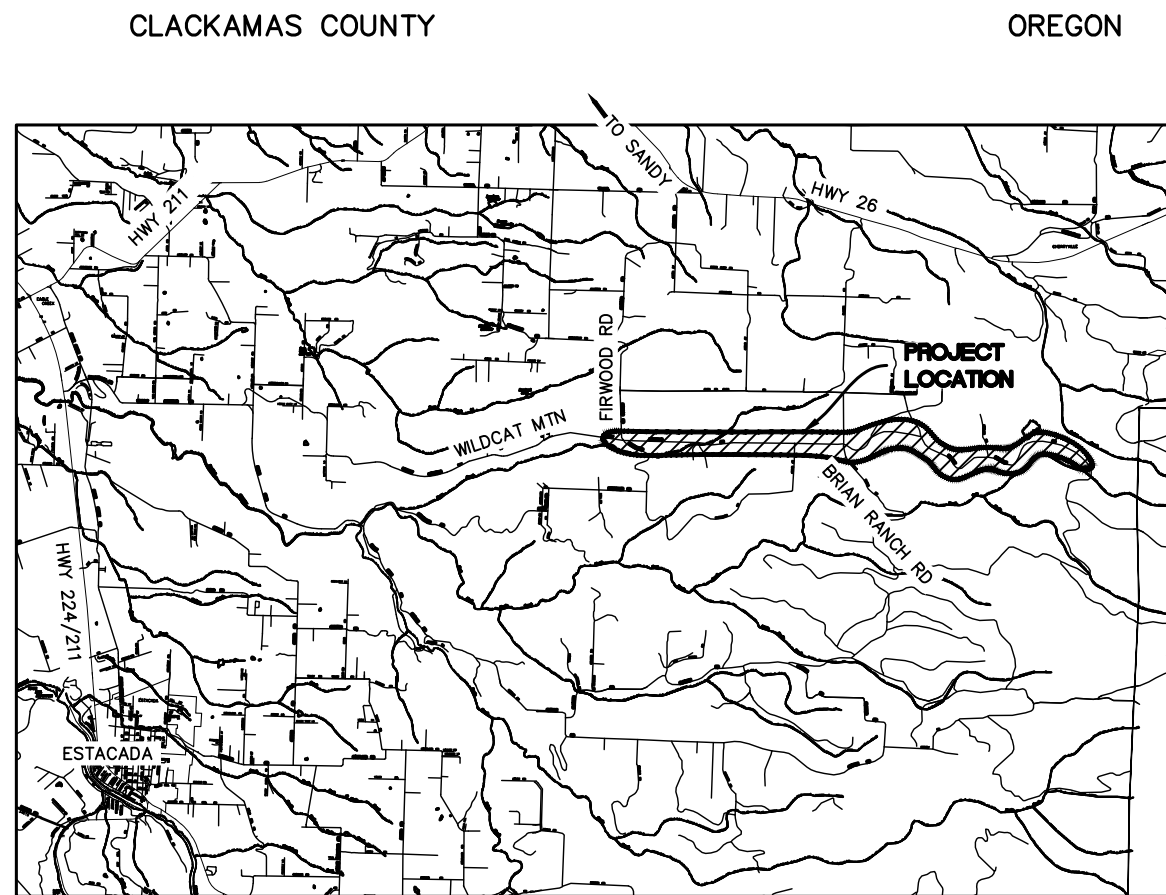
## WILDCAT MOUNTAIN ROAD DRIVE PROJECT (FIRWOOD RD. - MP 0.00) to (END OF MAINTENANCE - MP 5.32) 2024 PAVEMENT PRESERVATION



INDEX OF SHEETS	
1	COVER SHEET
2	GENERAL NOTES
3	SYMBOLS AND LEGENDS
4	TYPICAL SECTIONS
5	ACP DETAILS
6	STRIPING DETAILS AND ACP REPAIR TYPICALS
7-27	PLAN SHEETS

### GENERAL NOTES:

- COORDINATE VALUE, MANHOLES AND UTILITY VAULT/BOX ADJUSTMENTS WITH UTILITIES.
- PAVE DRIVEWAY TRANSITIONS. DEPTH, WIDTH AND LENGTH (2'-25') WILL VARY. LIMITS TO BE DETERMINED BY ENGINEER AFTER WEARING COURSE APPLIED.
- CONTRACTOR TO RESTORE SHOULDER 2'-4' WIDTH, SEE DETAIL.



VICINITY MAP  
NOT TO SCALE



T. 3S, R. 5E, SEC. 1-6

### ROAD #35001

#### ATTENTION !

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

### RIGHT-OF-WAY REPRESENTATION:

ALL LINE-WORK SHOWN RELATING PROPERTY BOUNDARY TO SCAN DATA IS FOR GRAPHICAL REPRESENTATION ONLY. ANY APPARENT DISCREPANCIES BETWEEN SAID DATA WILL REQUIRE FIELD VERIFICATION THROUGH A PROPER RIGHT-OF-WAY RESOLUTION.



EXPIRES: 12/31/2025

COVER SHEET	WILDCAT MOUNTAIN DRIVE	PROJECT NO.: CI-23315
	PAVING PROJECT	
 CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR	DESIGNED BY: JC DRAFTED BY: RM CHECKED BY: STAFF
	DAN JOHNSON	
REVISIONS	NO DATE:	
Sheet No.	1	



**GENERAL NOTES:**

- COORDINATE VALVE, MANHOLE AND UTILITY VAULT/BOX ADJUSTMENTS WITH UTILITY PROVIDERS.
- PAVE DRIVEWAY TRANSITIONS. DEPTH, WIDTH AND LENGTH WILL VARY (2'-25'). LIMITS TO BE DETERMINED BY ENGINEER AFTER WEARING COURSE IS APPLIED.
- RESTORE SHOULDER (2' - 4' WIDTH) SEE DETAIL
- GRADE ASPHALT TO MAINTAIN POSITIVE DRAINAGE
- HAVE ALL UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION.
- NOTIFY SCHOOL DISTRICT, EMERGENCY SERVICES, PUBLIC TRANSPORTATION AGENCIES AND LOCAL BUSINESSES WHEN TRAFFIC DELAYS ARE TO BE EXPECTED.
- ACCESS FOR EMERGENCY SERVICES SHALL BE MAINTAINED AT ALL TIMES.
- MAINTAIN ACCESSES TO BUSINESSES AND RESIDENCES AT ALL TIMES. TEMPORARY INTERRUPTIONS IN ACCESS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PROPERTY OWNERS/TENANT AND THE COUNTY INSPECTOR PRIOR TO IMPLEMENTING CLOSURE.
- INFORM AND CONTACT ALL AFFECTED RESIDENTS AND BUSINESSES WITH SPECIAL WRITTEN NOTICES APPROVED BY THE ENGINEER, WITHIN THE PROJECT AREA WITHIN 48 HOURS BEFORE EACH WORK ACTIVITY.
- COORDINATE ACCESS FOR SERVICES INCLUDING BUT NOT LIMITED TO: MAIL DELIVERY, TRASH PICKUP, TRANSIT AND ANY SPECIAL TRANSPORTATION SERVICES THAT EXIST WITHIN THE PROJECT AREA.
- OBTAIN STORAGE AND PARKING AREAS AS NEEDED. NO STAGING AREAS HAVE BEEN SECURED FOR THE CONTRACTORS USE. CONTRACTORS EMPLOYEES, SUPPLIERS AND SUBCONTRACTORS SHALL NOT PARK IN OR UTILIZE PRIVATE DRIVEWAYS OR PARKING LOTS WITHOUT PRIOR WRITTEN PERMISSION FROM THE PROPERTY OWNERS.
- AT THE END OF EACH WORK DAY CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURE MANNER.
- PRIOR TO FINAL ACCEPTANCE, CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ACP, CONCRETE OR OTHER ITEMS DEPOSITED BY CONTRACTOR PERSONNEL DURING THE PERFORMANCE OF THIS CONTRACT. RESTORE ALL SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES.

**RIGHT-OF-WAY REPRESENTATION:**

ALL LINE-WORK SHOWN RELATING PROPERTY BOUNDARY, UTILITIES OR FENCES IS FOR GRAPHICAL REPRESENTATION ONLY. ANY APPARENT DISCREPANCIES WILL REQUIRE FIELD VERIFICATION THROUGH A PROPER RIGHT-OF-WAY RESOLUTION OR FIELD SURVEY.



**PILOT CAR SIGN**

NOTES:  
SIGN SHALL BE PLACED AT EACH DRIVEWAY APPROACH WHEN PILOT CAR IS USED.  
SIGN SHALL CONFORM TO ODOT DRAWING CR4-20 OR CR4-20A.



**PAVING SIGN**

**SIGN NOTES**

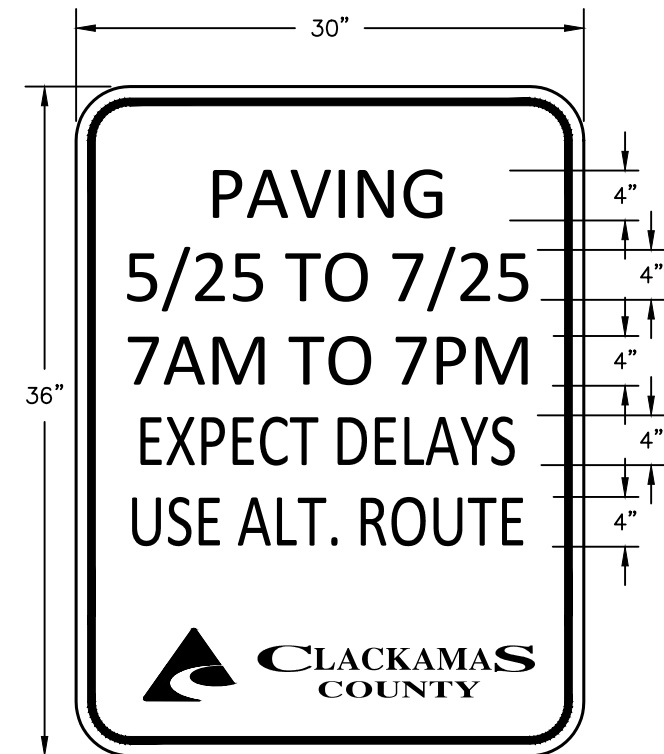
- SIGNS TO ORANGE BACKGROUND WITH BLACK LETTERING AND BORDERS.
- TEXT FONT TO BE FHWAC.
- COUNTY LOGO TO COMPLY WITH SPECIFICATIONS IN THE COUNTY BRAND GUIDE:  
[HTTP://WEB1.CLACKAMAS.US/PGS/LOGO.HTML#GUIDE](http://web1.clackamas.us/pgs/logo.html#guide)
- CONTRACTORS APPROVED SCHEDULE TO DETERMINE DATES ON PROJECT NOTIFICATION SIGNS.

**ODOT STANDARD DRAWINGS**

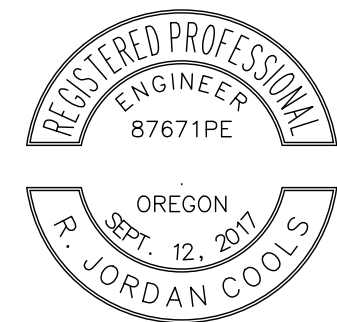
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RD 101	RD 451	RD 1010
RD 400	RD 610	RD 1032
RD 405	RD 615	RD 1033
RD 415	RD 701	
TM 500	TM 517	TM 820
TM 502	TM 530	TM 821
TM 503	TM 560	TM 841
TM 515	TM 800	TM 850

**CLACKAMAS COUNTY ROADWAY STANDARD DRAWINGS**

D 500



**PROJECT NOTIFICATION SIGN**



EXPIRES: 12/31/2025

<b>GENERAL NOTES AND SIGNS</b>	
WILDCAT MOUNTAIN DRIVE PAVING PROJECT	
DATE: 6/26/2024 PROJECT NO.: CI-23315	
<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: JC	DRAFTED BY: RM
CHECKED BY: STAFF	
<b>REVISIONS</b>	
NO. DATE:	
Sheet No.	2

### SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED	
	MAIL BOX				DETECTOR LOOP		
	TELEPHONE RISER				JUNCTION BOX		
	TELEPHONE MANHOLE				SIGNAL CONTROLLER		
	UNIDENTIFIED UTILITY VAULT				SIGNAL HEAD		
	TELEPHONE VAULT				VIDEO DETECTION		
	POWER VAULT				SIGNAL POLE BASE		
	UTILITY POLE, GUY ANCHOR				STREET LITE 2		
	GB 2/GB-1 CATCH BASIN/CURB INLET				STREET LITE 1		
	DRAINAGE MANHOLE				PUSHBUTTON PED POLE		
	SANITARY MANHOLE				SINGLE SUPPORT SIGN		
	GAS METER				RAILROAD CROSSING SIGNAL		
	GAS VALVE				RAILROAD SIGNAL CONTROLLER		
	FIRE HYDRANT				RAILROAD CROSSING GATE		
	WATER METER				MONUMENT BOX		
	WATER VALVE						

### LINETYPES

EXISTING		PROPOSED	
	AUDIBLE WARNING (CURB RAMP)		
	CONCRETE SURFACE		
	EDGE OF UNPAVED SURFACE		
	EDGE OF PAVED SURFACE		
	FENCE LINE		
	GUARDRAIL		
	EASEMENT LINE		
	CENTERLINE		
	ROAD RIGHT OF WAY		
	CITY BOUNDARY		
	COUNTY BOUNDARY		
	DLC BOUNDARY WIDTH		
	STORM PIPE		
	DITCH LINE		
	PUBLIC WATER LINE		
	SANITARY SEWER LINE		
	FIBER OPTIC LINE		
	UNDERGROUND TELEPHONE LINE		
	UNDERGROUND POWER LINE		
	CABLE TELEVISION LINE		
	GAS LINE		
	HIGH PRESSURE GAS		
	SIGNAL CONDUIT		

### ABBREVIATIONS

CB	CATCH BASIN (INLET)	NE	NORTHEAST	EMB	EMBANKMENT	Sq Ft	SQUARE FEET
CL	CENTERLINE	NW	NORTHWEST	EQUA	EQUATION	STD	STANDARD
CTR	CENTER	No.	NUMBER	EXC	EXCAVATION	STA	STATION
COMP	COMPACTED	OBL	OBLITERATE	EXTG	EXISTING	STL	STEEL
CONC	CONCRETE	OH/P/T/C	OVERHEAD///UTILITIES	FH	FIRE HYDRANT	ST	STREET
CONST	CONSTRUCT	P	POWER	FL	FLOW LINE	STRM	STORM
CONT	CONTINUOUS	PP	POWER (UTILITY) POLE	FND	FOUND	STR, STRUCT	STRUCTURE
COR	CORNER	PPL	POWER POLE W/ LIGHT	FDTN	FOUNDATION	SURF	SURFACING
Cu.Yd.	CUBIC YARD	PER	PERPENDICULAR	FT	FEET	T(1-3)	TOWNSHIP
CULV	CULVERT	PL	PLATE	GA	GAGE	T, TEL	TELEPHONE
DIA	DIAMETER	R(1-7)	RANGE	GALV	GALVANIZED	TEMP	TEMPORARY
DIST	DISTANCE	REM	REMOVE	G V	GAS VALVE	THKN	THICKNESS
DLC	DONATION LAND CLAIM	RT	RIGHT	GAR	GARAGE	TYP SECT	TYPICAL SECTION
DWG	DRAWING	R/W, ROW	RIGHT OF WAY	GEN	GENERAL	VAR	VARIABLE
DR	DRIVE	SAN	SANITARY	HT	HEIGHT	VERT	VERTICAL
DWY	DRIVEWAY	SECT	SECTION	HWY	HIGHWAY	W M	WILLAMETTE MERIDIAN
EA	EACH	SEW	SEWER	HORIZ	HORIZONTAL	WAT	WATER
E	EAST	SL	SLOPE	IE	INVERT ELEV	WAT M	WATER METER
EASE	EASEMENT (ALL PURPOSES)	S	SOUTH	IN PL	IN PLACE	WV	WATER VALVE
ELECT	ELECTRICAL	SE	SOUTHEAST	INST	INSTALL	W	WEST
ELEV	ELEVATION	SW	SOUTHWEST	IR	IRON ROD		

SYMBOLS AND LEGEND  
 WILDCAT MOUNTAIN DRIVE  
 PAVING  
 PROJECT  
 DATE: 6/26/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045  
 DIRECTOR  
 DAN JOHNSON

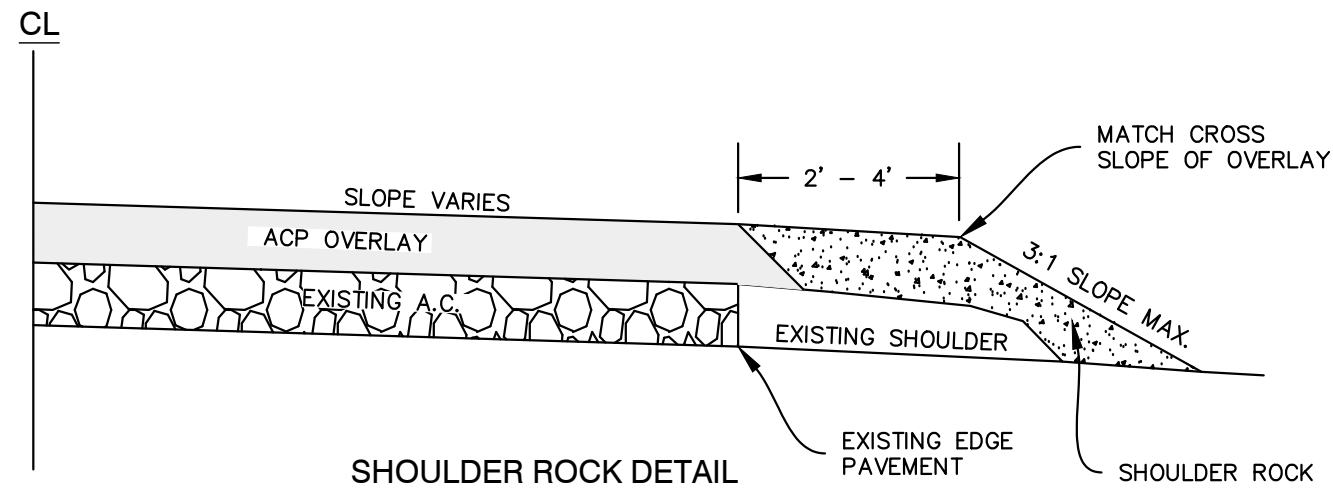
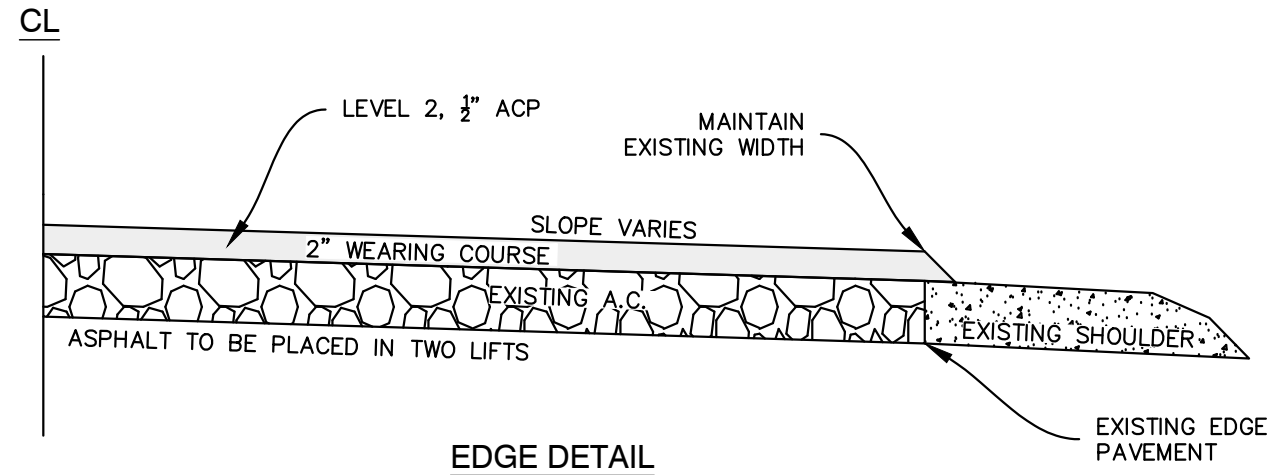
DESIGNED BY: JC  
 DRAFTED BY: RM  
 CHECKED BY: STAFF

NO.	DATE:	REVISIONS



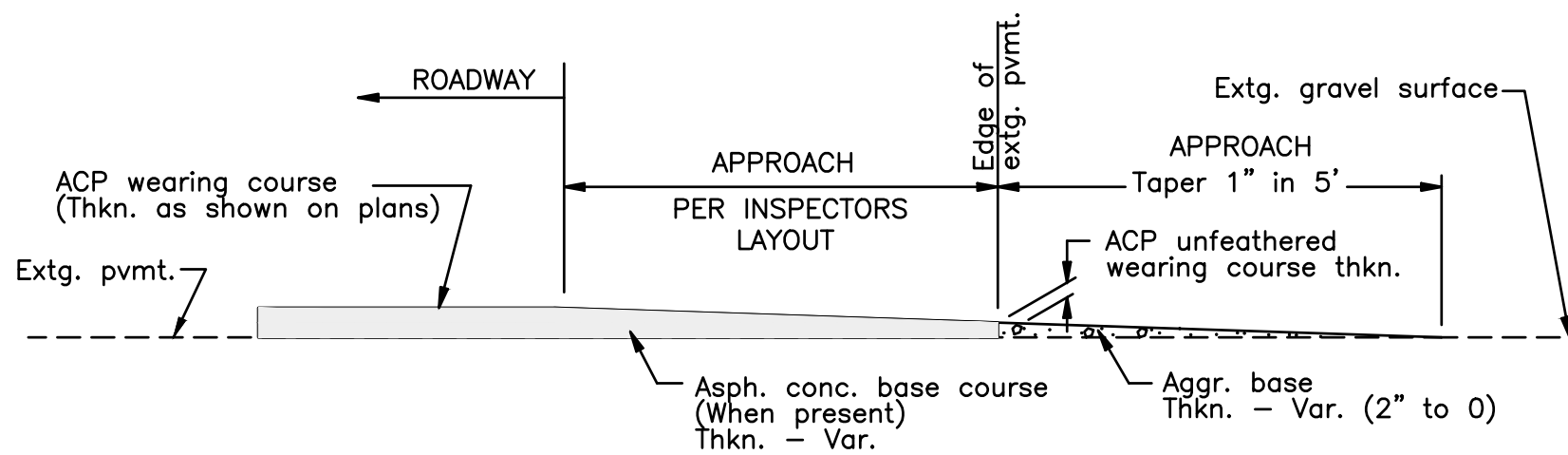
EXPIRES: 12/31/2025

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**ASPHALT APPROACH GENERAL NOTES:**

ASPHALT APPROACHES ON PLANS ARE VISUAL FOR ESTIMATING PURPOSES ONLY. ASPHALT APPROACHES SHALL BE BUILT PER THE INSPECTOR'S FIELD LAYOUT. INSPECTOR WILL LAYOUT ASPHALT APPROACHES **AFTER** MAIN LINE PAVING HAS BEEN COMPLETED.



**METHOD OF FEATHERING ACP PAVEMENT AT GRAVEL APPROACHES**

TYPICAL SECTIONS  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

DATE: 7/11/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045



DIRECTOR  
DAN JOHNSON

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

REVISIONS

NO.	DATE:

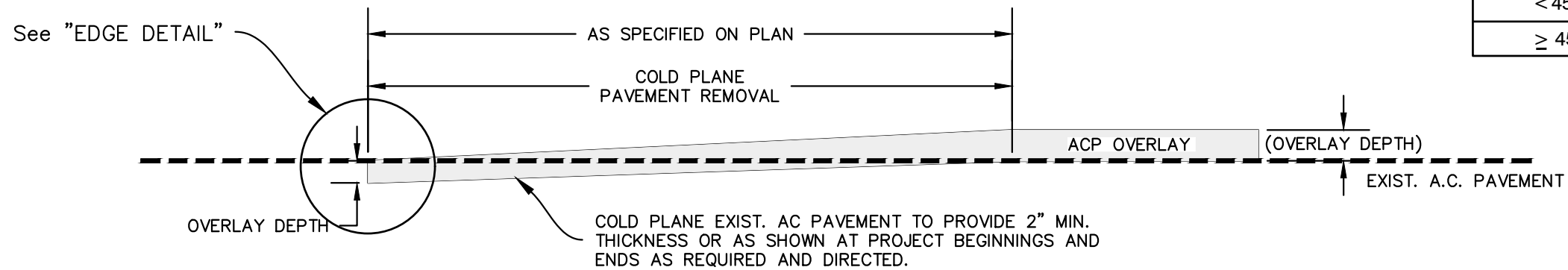


EXPIRES: 12/31/2025

Sheet No.

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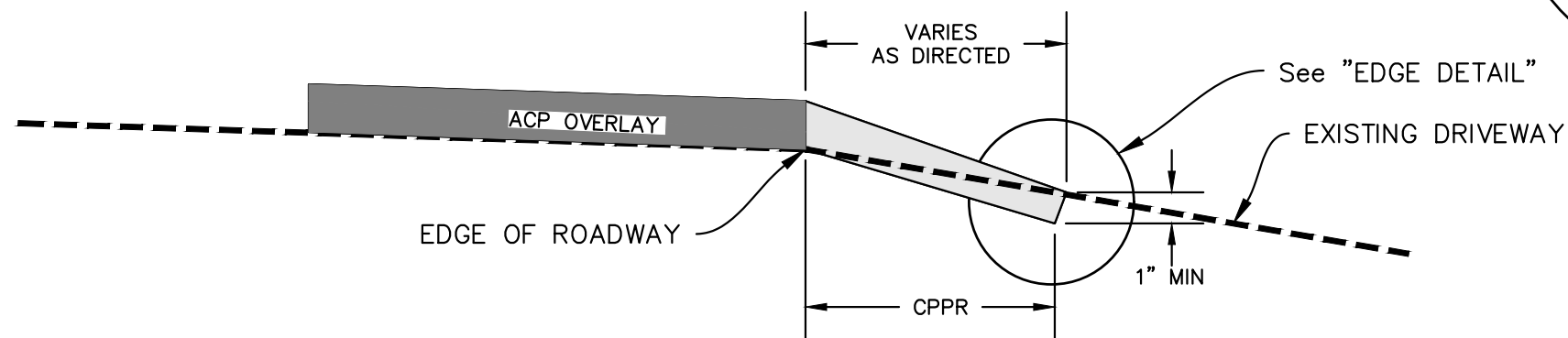
**ACP PAVEMENT MATCH AT PROJECT ENDS OR BRIDGE ENDS  
WHEN NOT OVERLAYING THE BRIDGE**



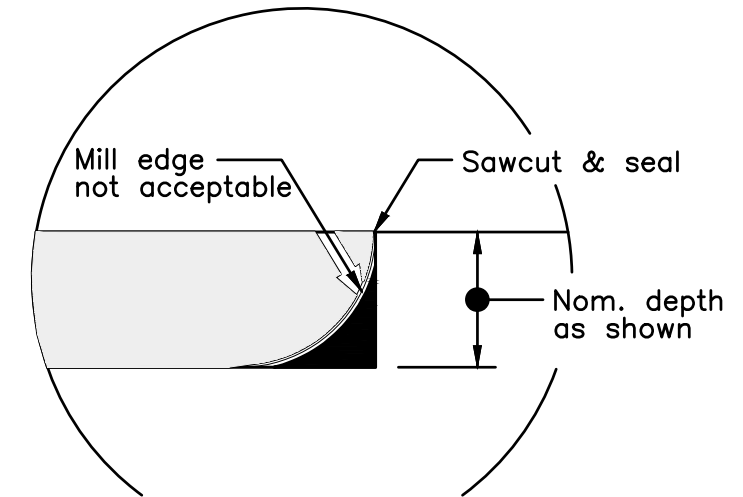
**METHOD C**

TABLE 1 TAPER LENGTHS	
Posted Speed	Taper Length
< 45 mph	1" per 50'
≥ 45 mph	1" per 100'

**ASPHALT DRIVEWAY APPROACH**



**METHOD E**

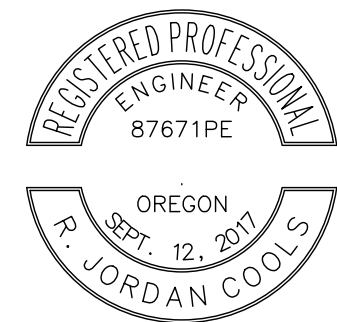


**EDGE DETAIL**

**COLD PLANE PAVEMENT REMOVAL (CPPR)  
GENERAL NOTES:**

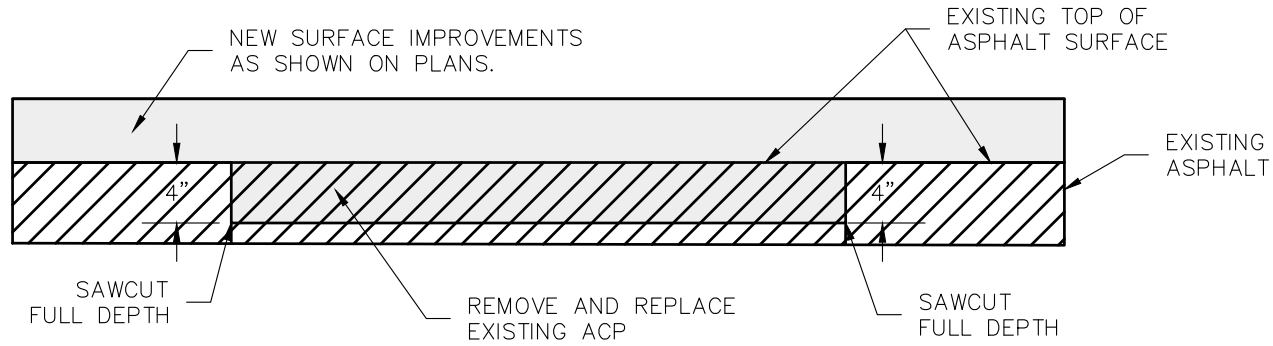
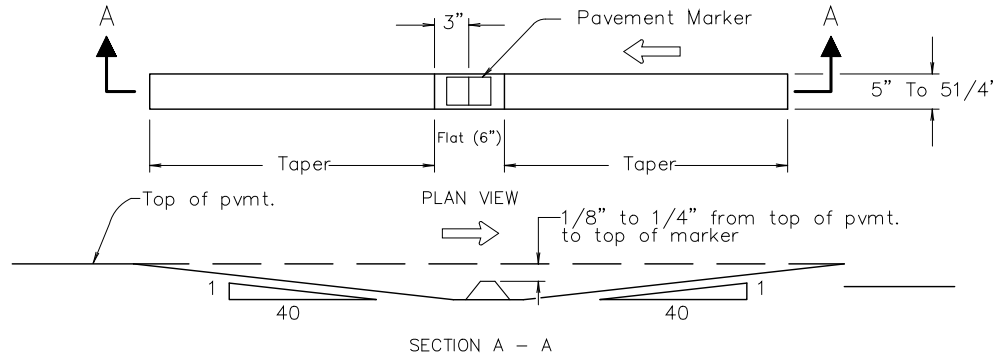
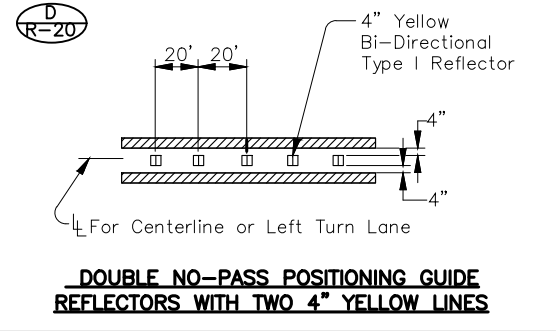
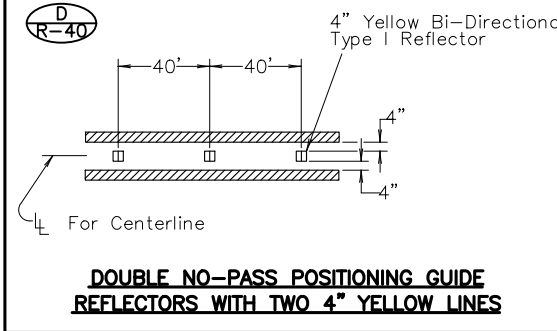
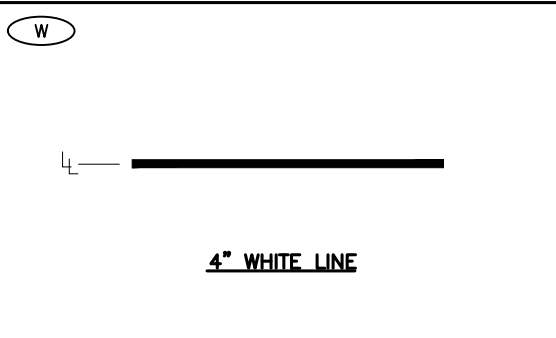
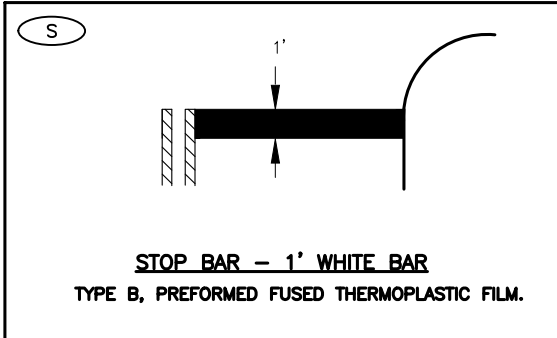
ALL CPPR DIRECTED BY ENGINEER SHALL BE PAID UNDER THE FOLLOWING PAY ITEM(S):

- COLD PLANE PAVEMENT REMOVAL, 0 -3 INCHES DEEP



EXPIRES: 12/31/2025

<b>ACP DETAILS</b>		
WILDCAT MOUNTAIN DRIVE PAVING PROJECT		
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON	
DESIGNED BY: JC	DATE: 7/11/2024	
DRAFTED BY: RM	PROJECT NO.: CI-23315	
CHECKED BY: STAFF		
REVISIONS		
NO	DATE	DESCRIPTION
Sheet No.		5



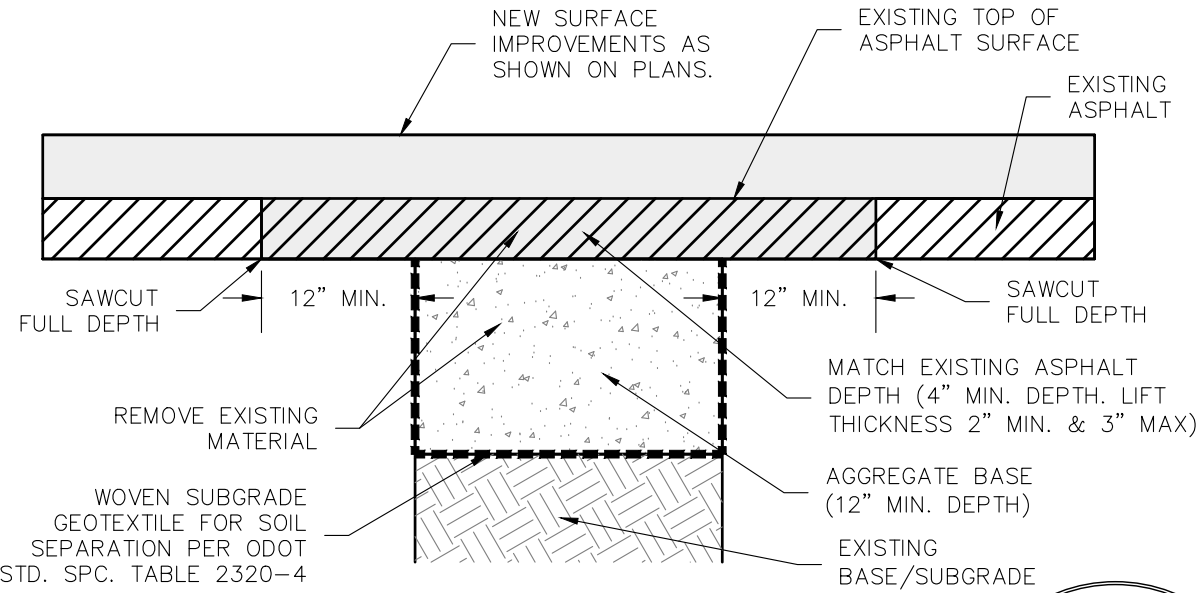
**4" ASPHALT SPOT GRID & INLAY DETAIL**  
NOT TO SCALE

**NOTE:**  
PAYMENT WILL BE PAYMENT IN FULL FOR FURNISHING AND PLACING ALL MATERIALS, AND FOR FURNISHING ALL EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ACP WILL BE PAID FOR ACCORDING TO 00745.90

NO SEPARATE OR ADDITIONAL PAYMENT WILL BE MADE FOR SAW CUTTING, EXCAVATION, COLD PLANE PAVEMENT REMOVAL, AGGREGATE, AND WATER.

**\*ALL SURFACES SHALL BE GROUND AND PAVED BACK DURING THE SAME SHIFT.**



**16" ASPHALT CONCRETE REPAIR DETAIL**  
NOT TO SCALE

**NOTE:**  
PAYMENT WILL BE PAYMENT IN FULL FOR FURNISHING AND PLACING ALL MATERIALS, AND FOR FURNISHING ALL EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ACP WILL BE PAID FOR ACCORDING TO 00745.90

NO SEPARATE OR ADDITIONAL PAYMENT WILL BE MADE FOR SAW CUTTING, EXCAVATION, COLD PLANE PAVEMENT REMOVAL, GEOSYNTHETICS, STONE EMBANKMENT, AGGREGATE, AND WATER.



**STRIPING DETAILS**  
WILDCAT MOUNTAIN DRIVE  
PAVING PROJECT

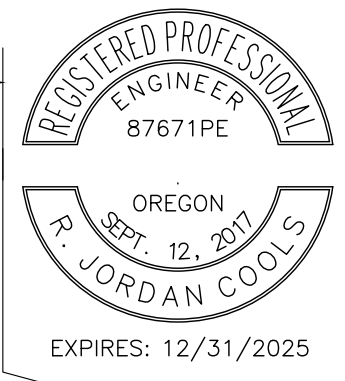
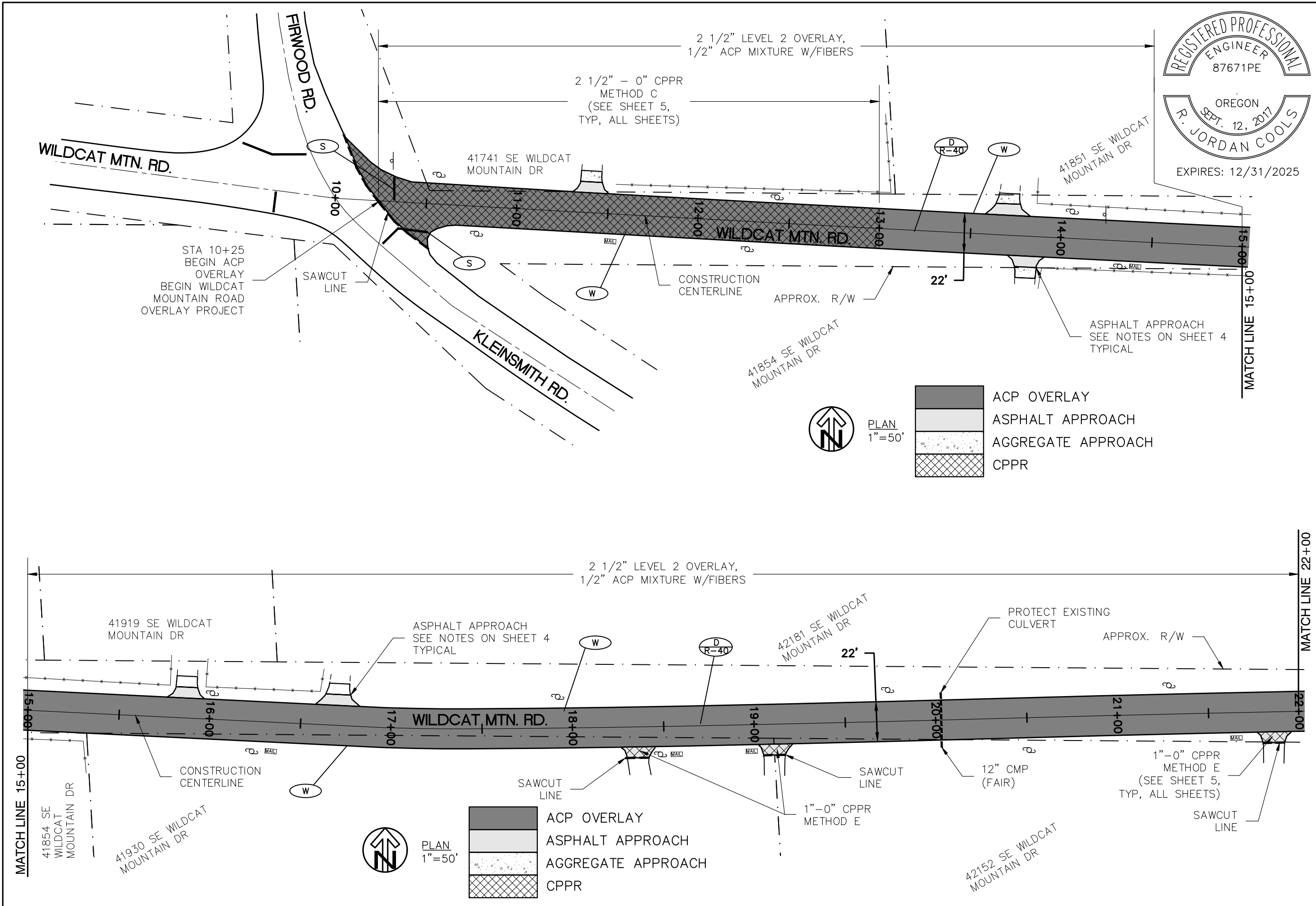
CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DAN JOHNSON  
DIRECTOR

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

NO.	DATE:	REVISIONS

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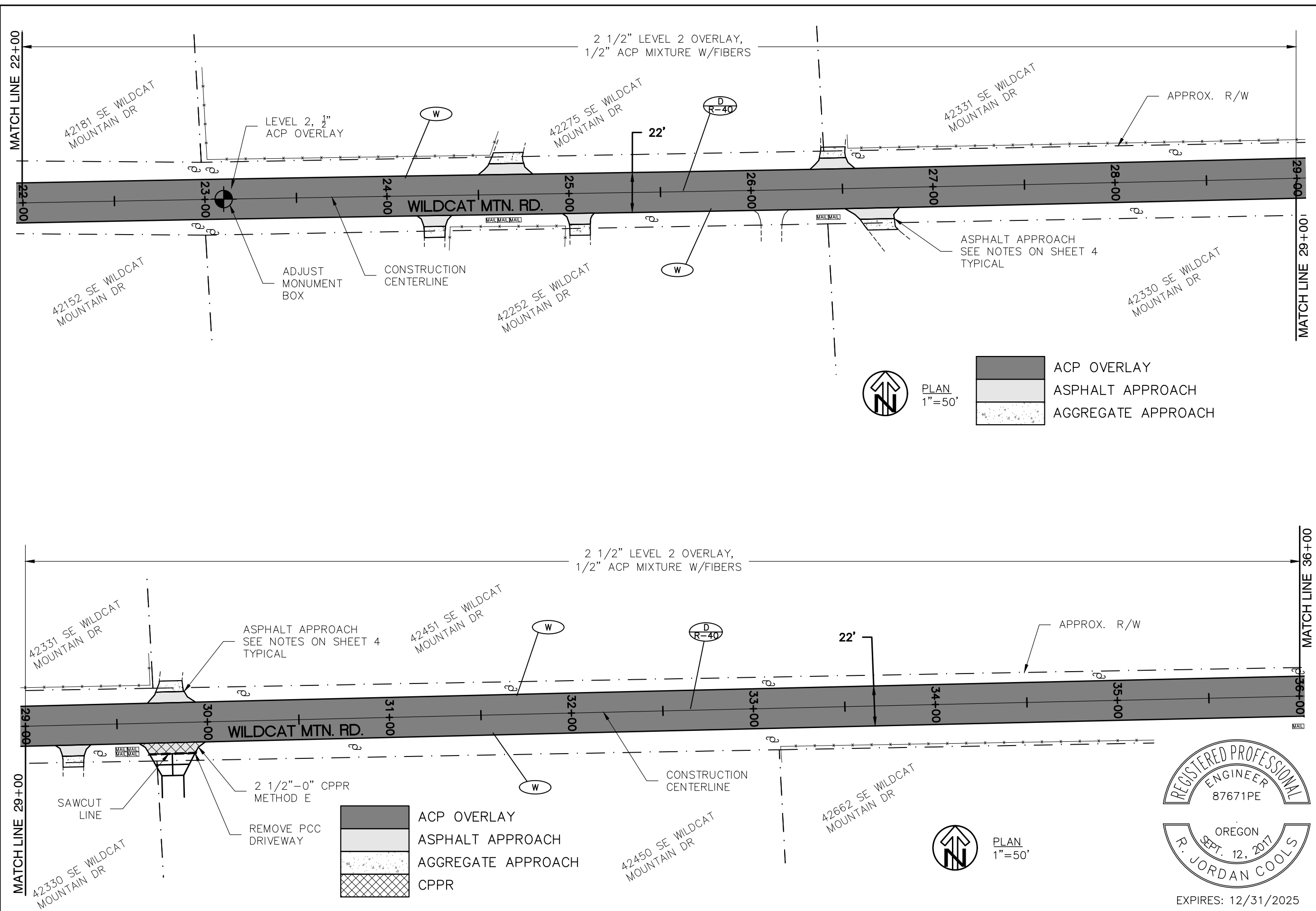
**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

DESIGNED BY:	JC
DRAFTED BY:	RM
CHECKED BY:	STAFF
NO.	DATE:

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PLAN  
1"=50'

- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH



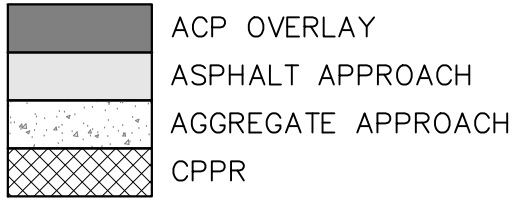
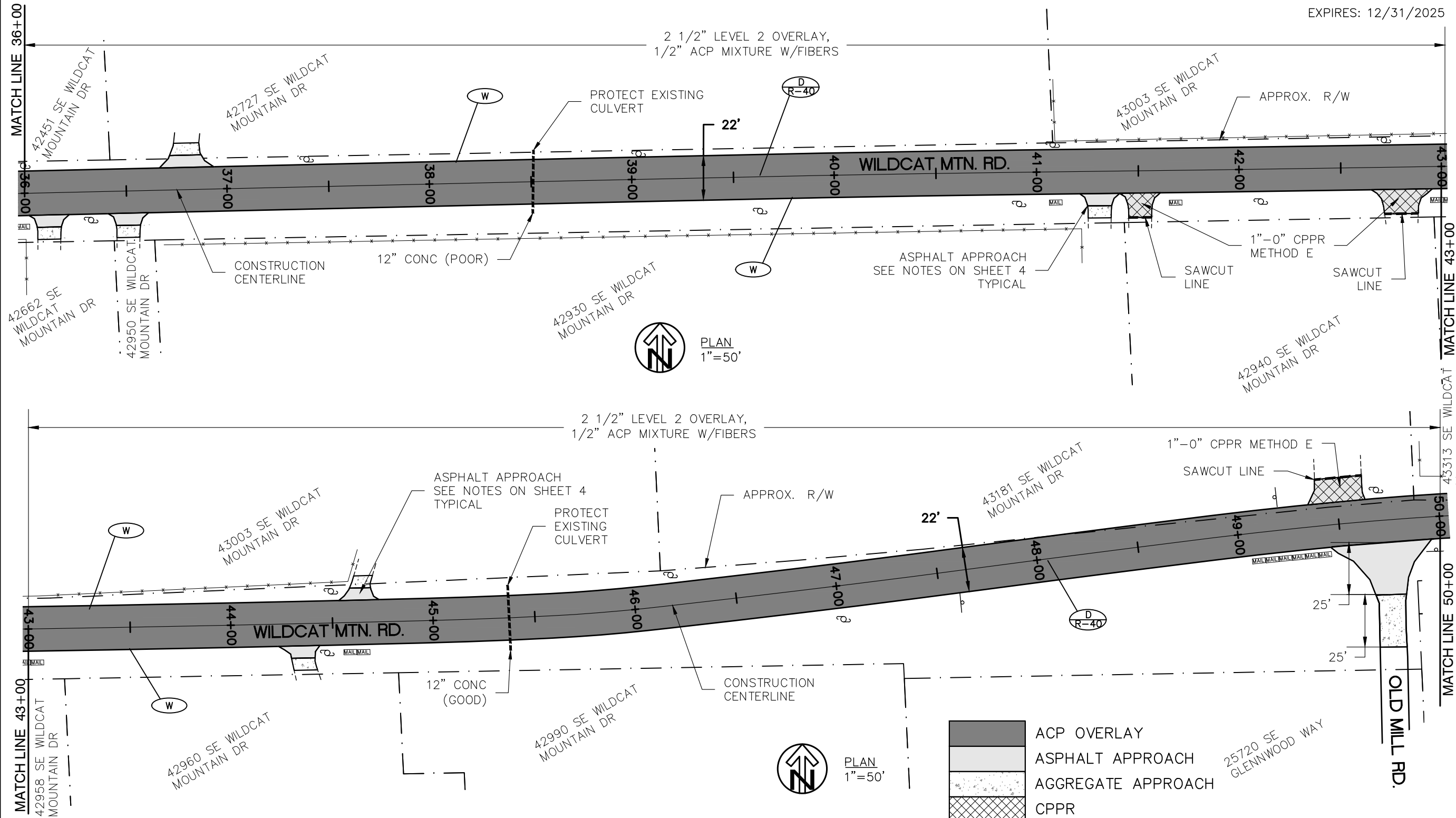
PLAN  
1"=50'

- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH
- CPPR



<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		<b>CLACKAMAS COUNTY</b>
DAN JOHNSON DIRECTOR		DIRECTOR
<b>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</b>		<b>PLAN</b>
DATE: 7/22/2024		PROJECT NO.: CI-23315
<b>REVISIONS</b>	<b>DESIGNED BY:</b> JC	<b>CHECKED BY:</b> STAFF
<b>NO.</b>	<b>DATE:</b>	<b>DRAFTED BY:</b> RM
Sheet No. <b>8</b>		

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PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DIRECTOR  
DAN JOHNSON

DESIGNED BY: jc  
DRAFTED BY: RM  
CHECKED BY: STAFF

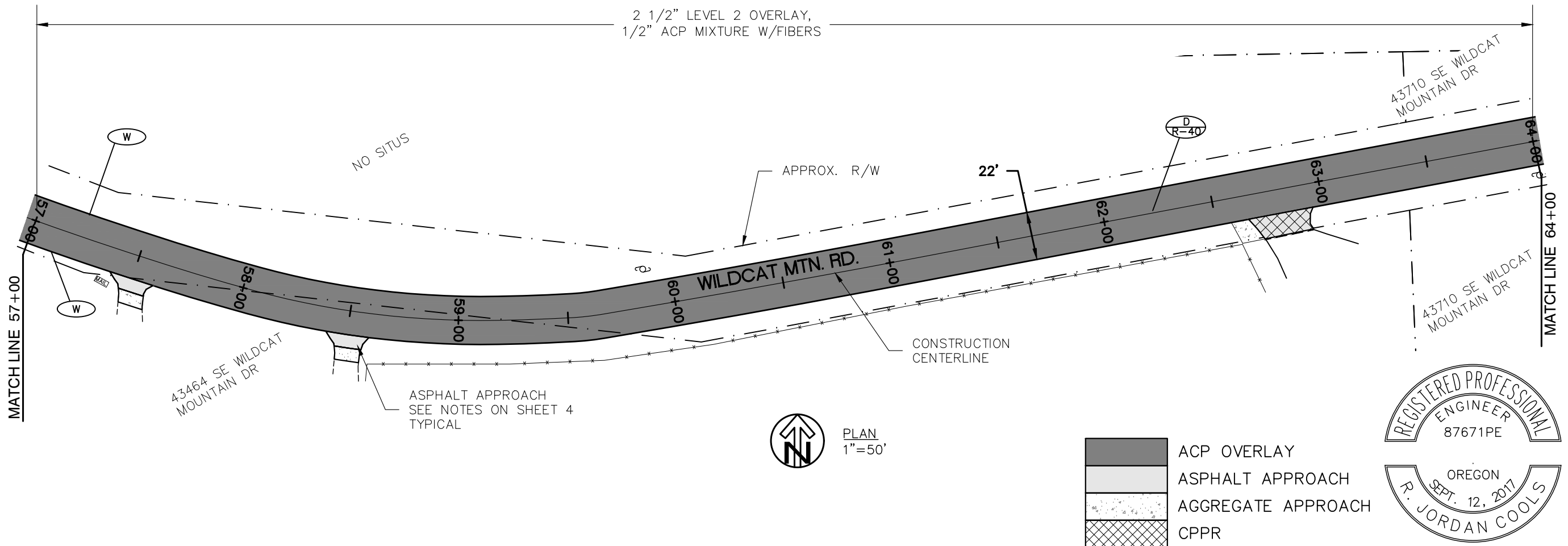
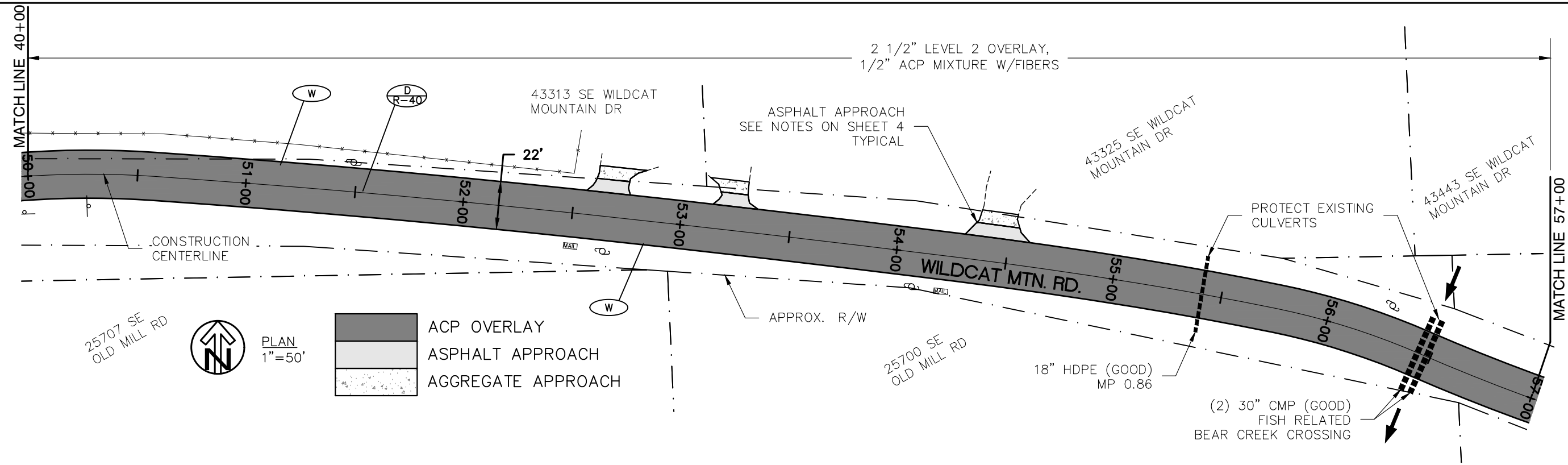
NO.	DATE:	REVISIONS

Sheet No. 9

DATE: 7/22/2024 PROJECT NO.: CI-23315



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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

NO.	DATE	REVISIONS

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 DRAFTED BY: RM  
 CHECKED BY: STAFF

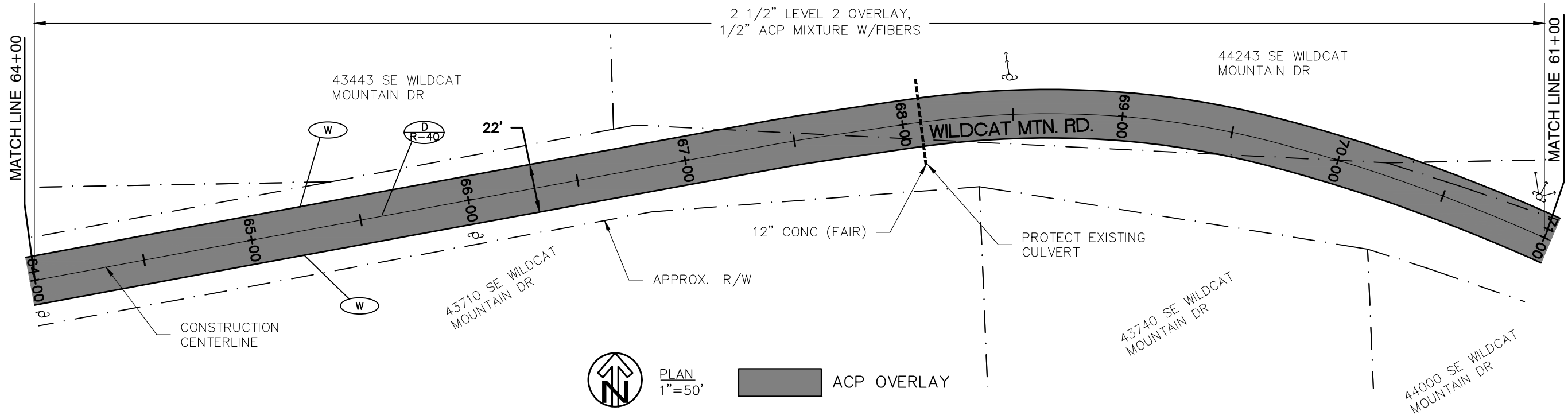
- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH
- CPPR

**REGISTERED PROFESSIONAL**  
 ENGINEER  
 87671PE

**OREGON**  
 SEPT. 12, 2017  
**R. JORDAN COOLS**

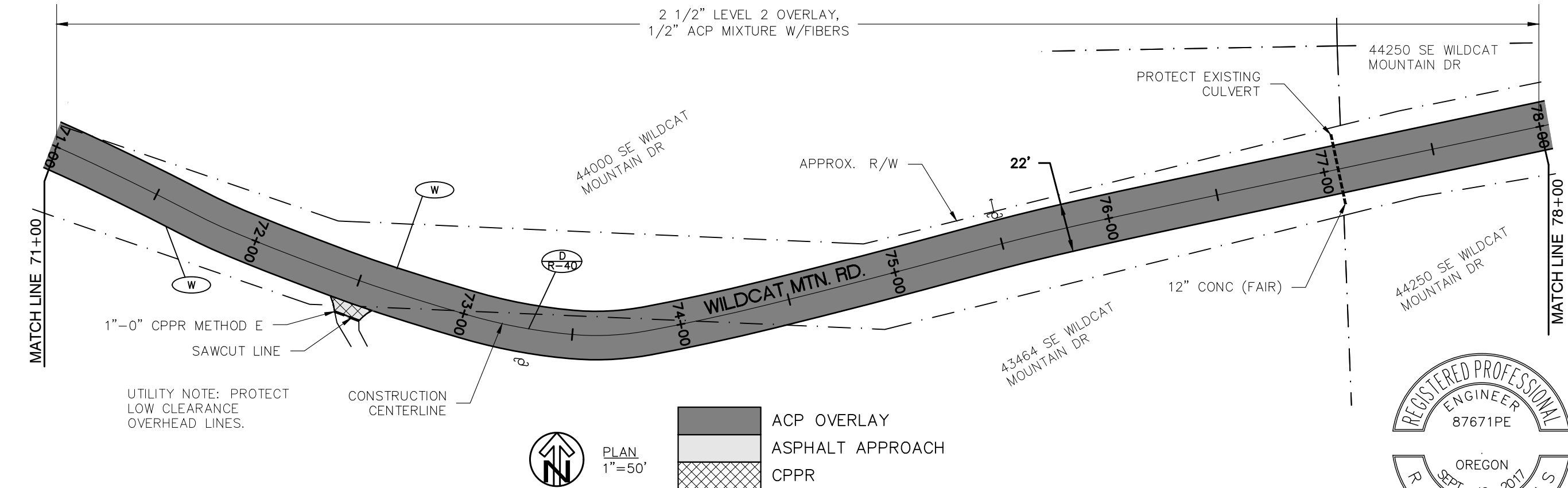
EXPIRES: 12/31/2025

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PLAN  
1"=50'

ACP OVERLAY



PLAN  
1"=50'

ACP OVERLAY  
ASPHALT APPROACH  
CPPR

UTILITY NOTE: PROTECT  
LOW CLEARANCE  
OVERHEAD LINES.



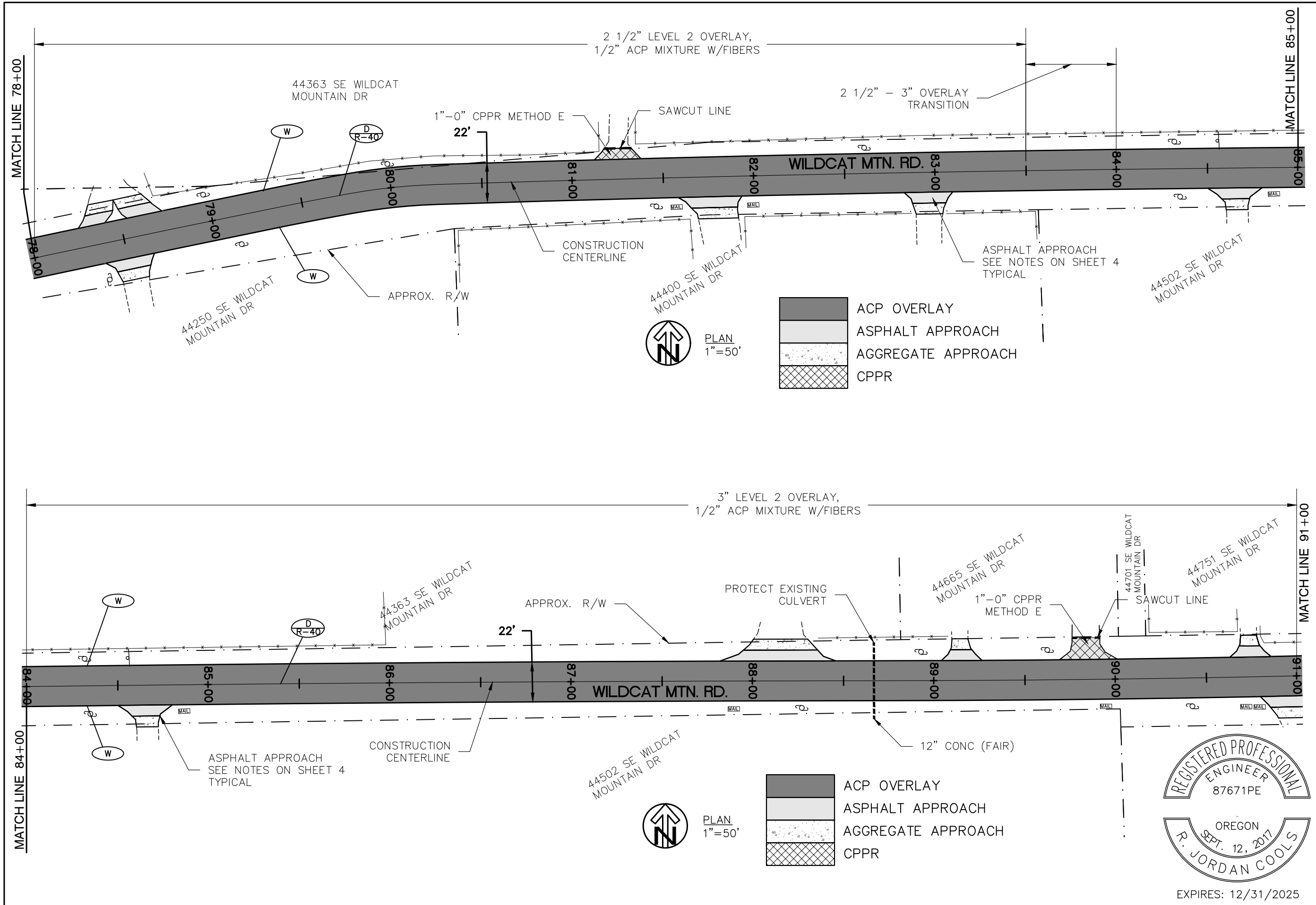
PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT  
DATE: 7/24/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045  
DAN JOHNSON  
DIRECTOR

REVISIONS	
NO	DATE

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

REVISIONS	
NO.	DATE:

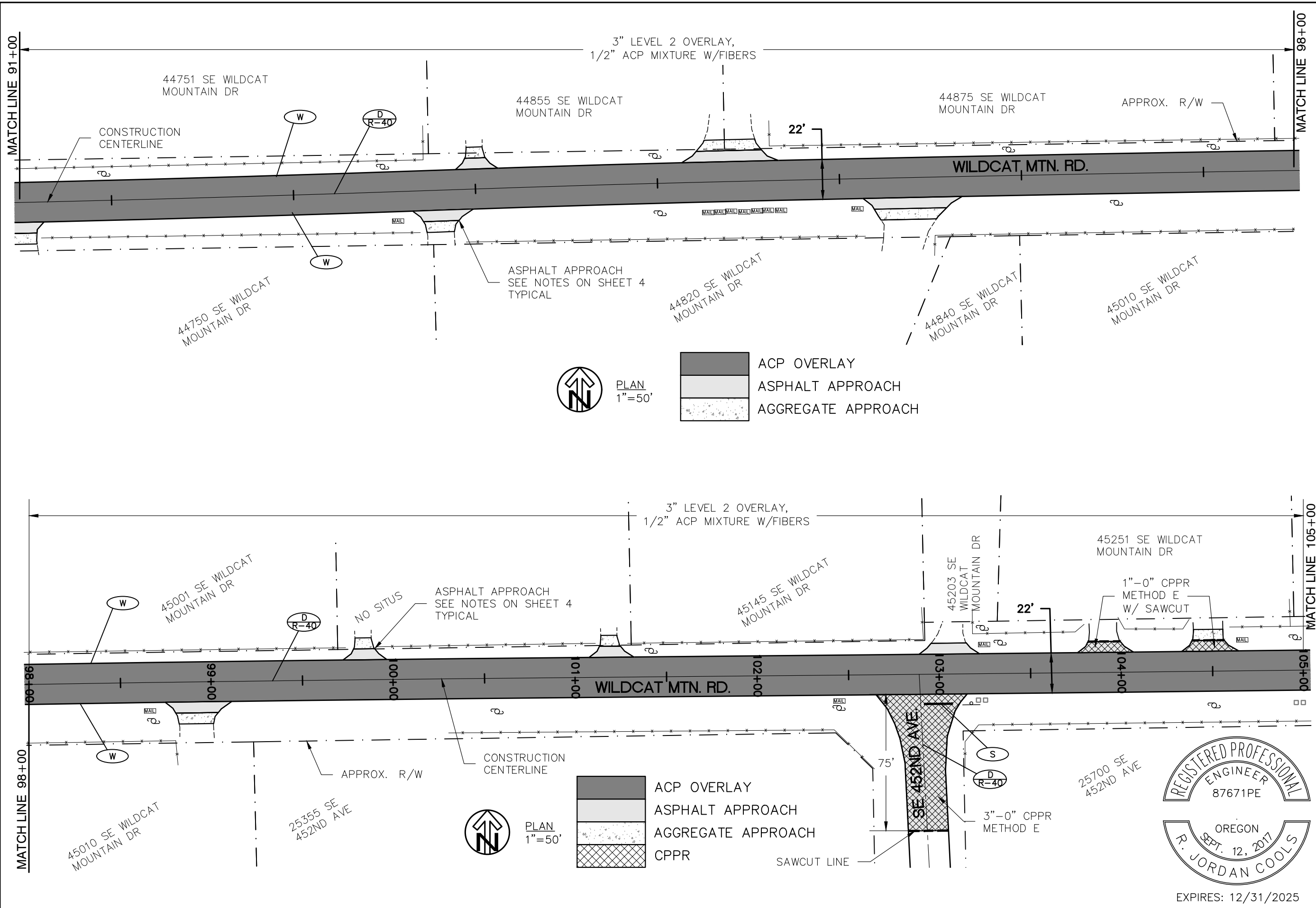
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 DRAFTED BY: RM  
 CHECKED BY: STAFF


Sheet No. 12

DATE: 7/24/2024 PROJECT NO.: CI-23315

REGISTERED PROFESSIONAL  
 ENGINEER  
 87671PE  
 OREGON  
 R. JORDAN COOLS  
 SEPT. 12, 2017  
 EXPIRES: 12/31/2025

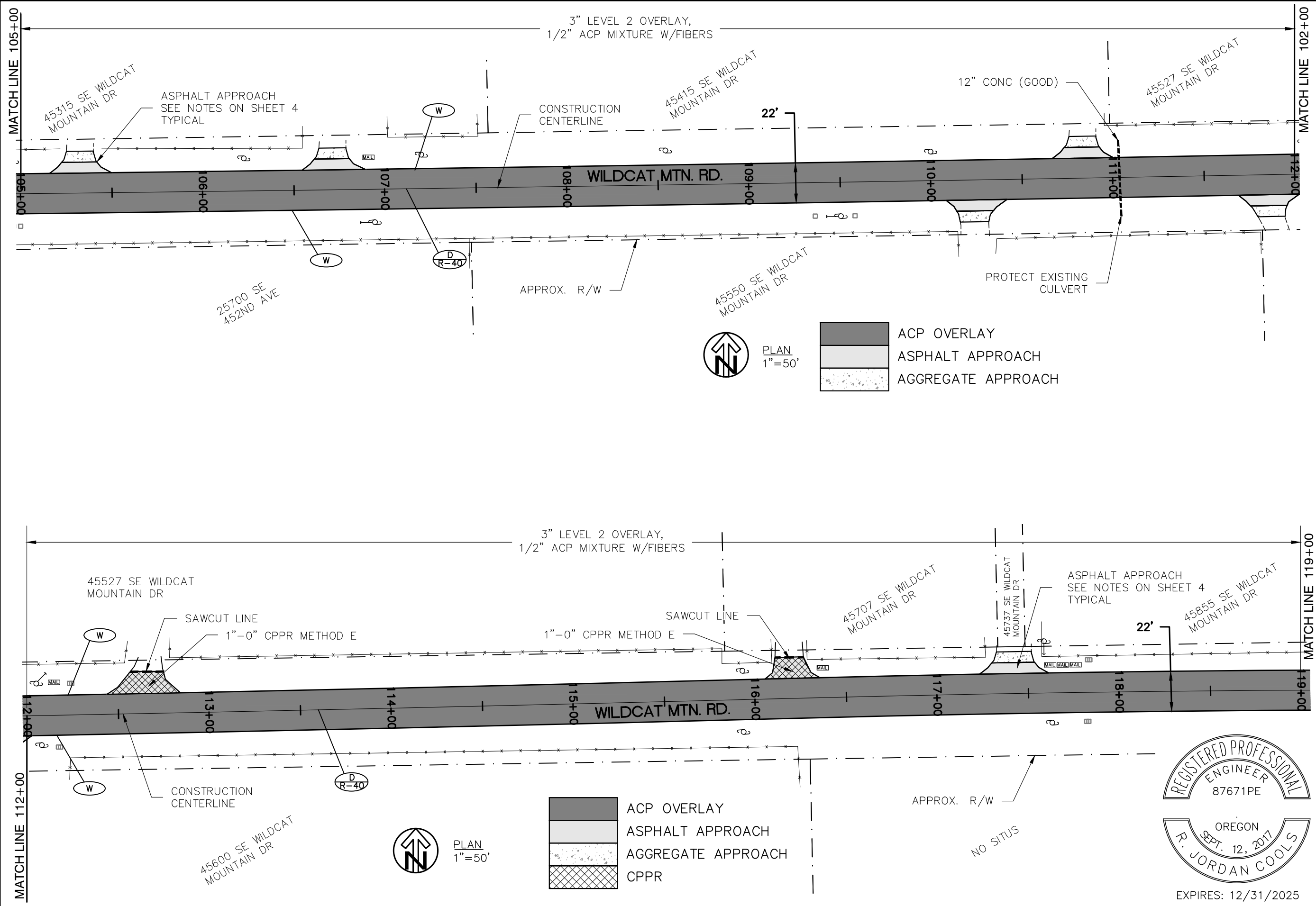
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<p><b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045</p>  <p>DAN JOHNSON DIRECTOR</p>		<p><b>PLAN</b></p> <p>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</p>
<p>DESIGNED BY: JC</p> <p>DRAFTED BY: RM</p> <p>CHECKED BY: STAFF</p>		<p>DATE: 7/24/2024</p> <p>PROJECT NO.: CI-23315</p>
<p>NO. DATE:</p>		<p>REVISIONS</p>
<p>Sheet No. 13</p>		<p>EXPIRES: 12/31/2025</p>



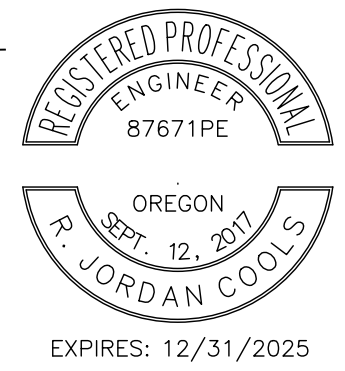
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- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH

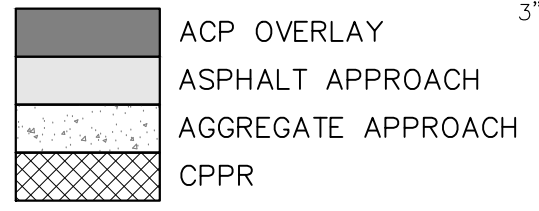
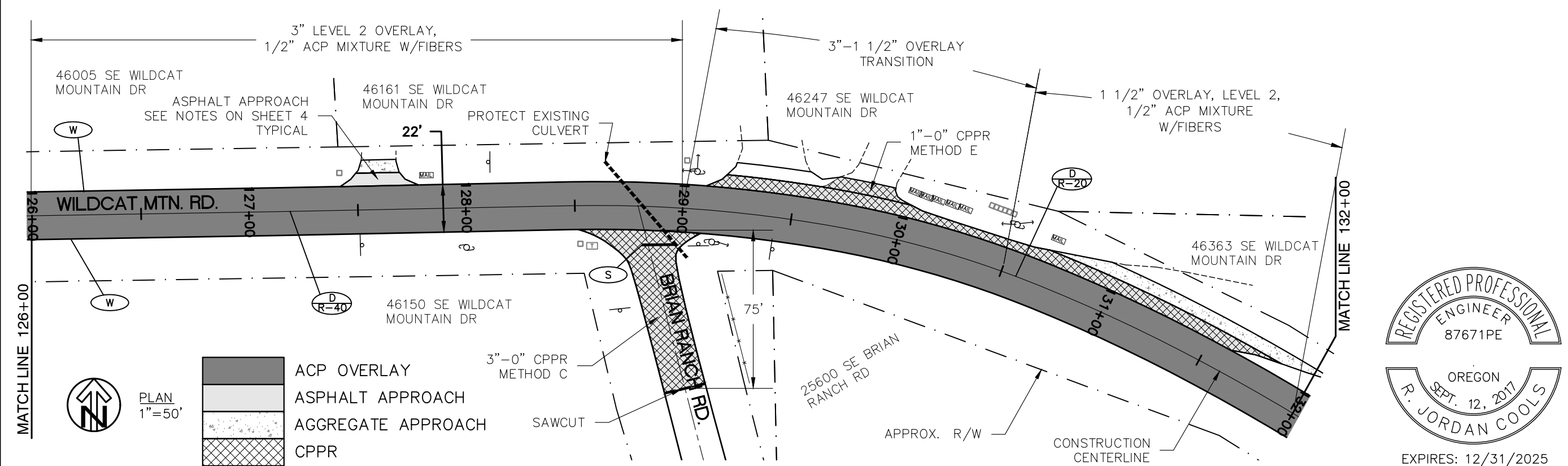
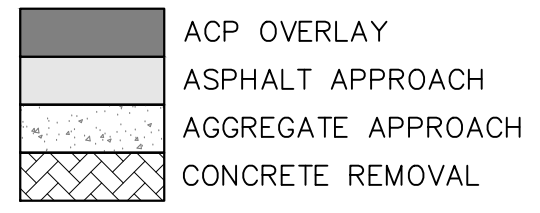
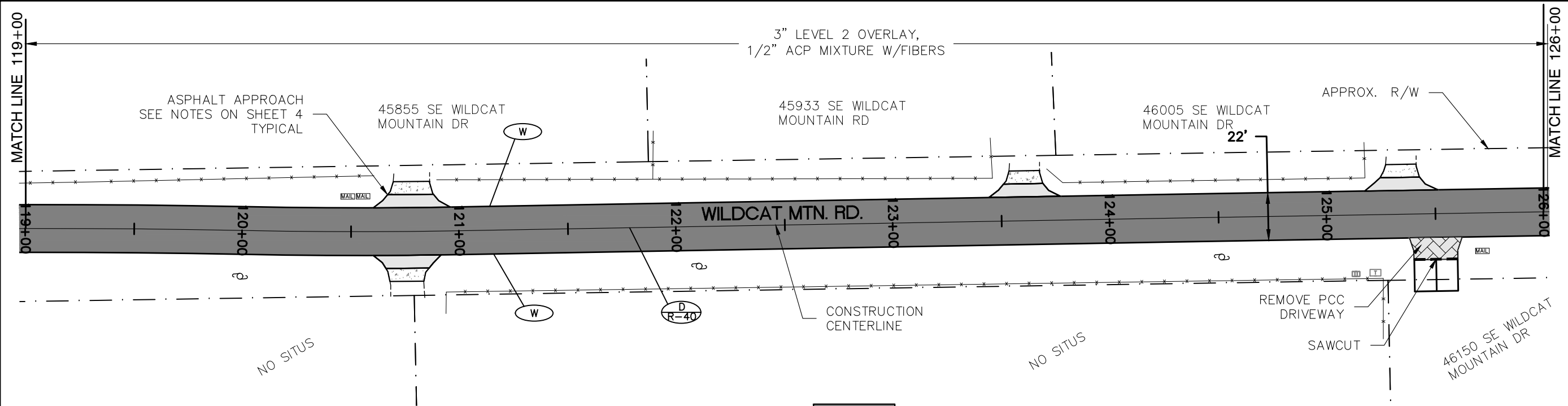


- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH
- CPPR



<b>PLAN</b>							
WILDCAT MOUNTAIN DRIVE PAVING PROJECT							
 CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON						
DESIGNED BY: JC DRAFTED BY: RM CHECKED BY: STAFF	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION			
NO.	DATE	DESCRIPTION					
PROJECT NO.: CI-23315 DATE: 7/24/2024							
Sheet No. 14							

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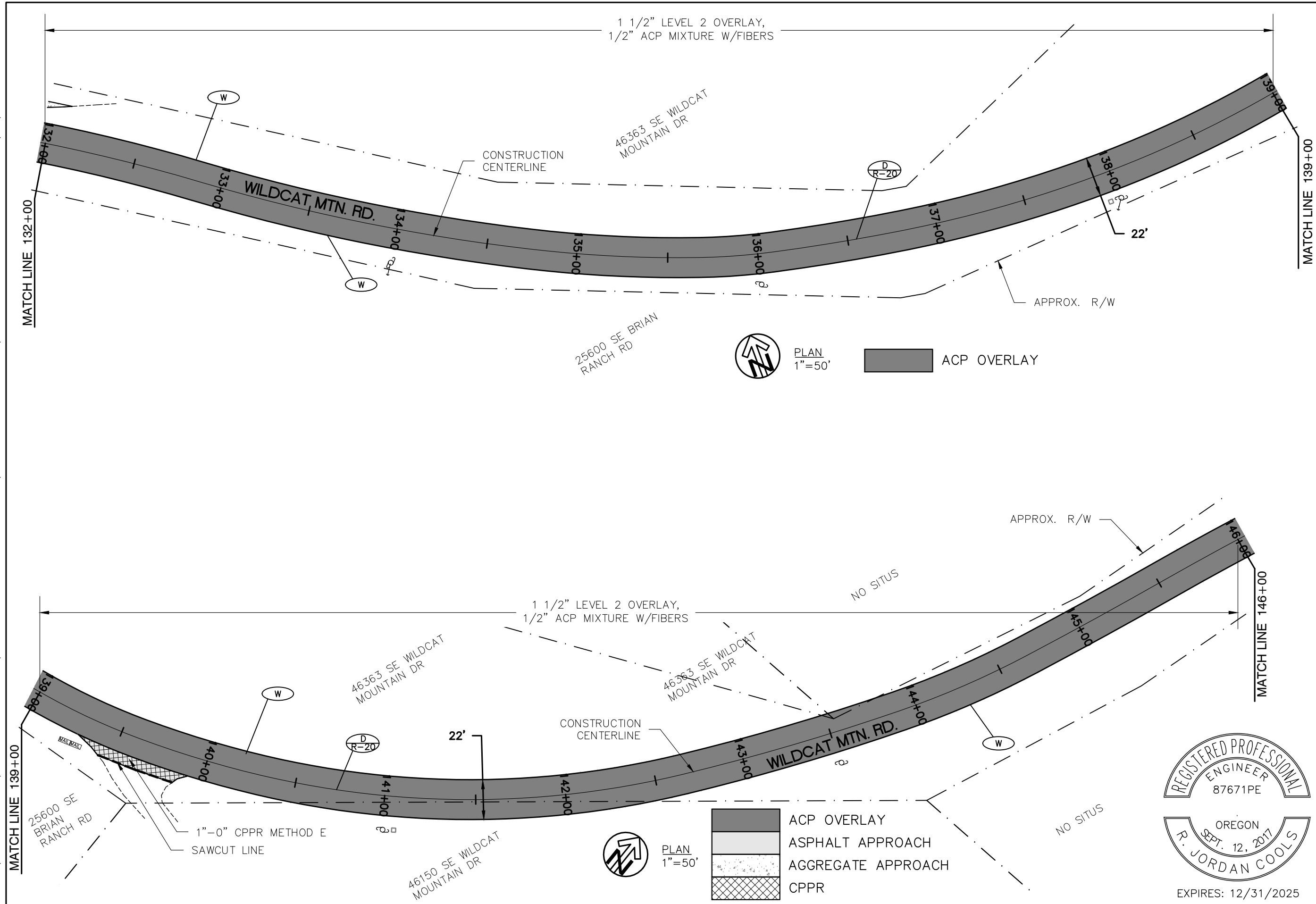
**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

DESIGNED BY:	JC
DRAFTED BY:	RM
CHECKED BY:	STAFF
NO.	DATE:

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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

NO	DATE	REVISIONS

DESIGNED BY: JC  
 DRAFTED BY: RM  
 CHECKED BY: STAFF

Sheet No. 16

DATE: 7/24/2021 PROJECT NO.: CI-23315

**REGISTERED PROFESSIONAL**  
 ENGINEER  
 87671PE

**R. JORDAN COOLS**  
 OREGON  
 SEPT. 12, 2017

EXPIRES: 12/31/2025

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PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

DATE: 7/24/2024 PROJECT NO.: CI-23315

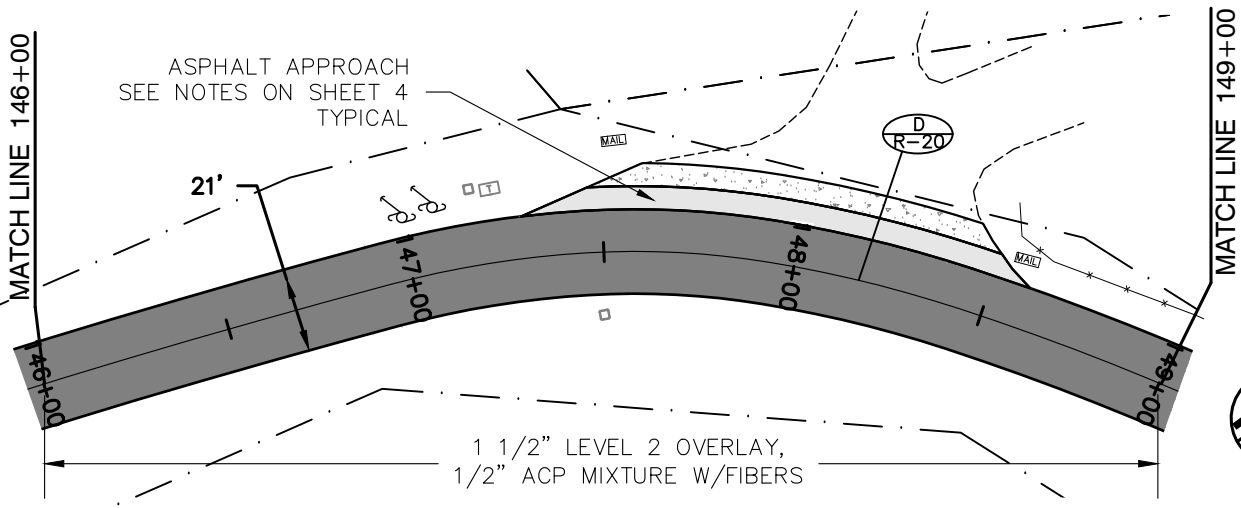
CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DAN JOHNSON  
DIRECTOR

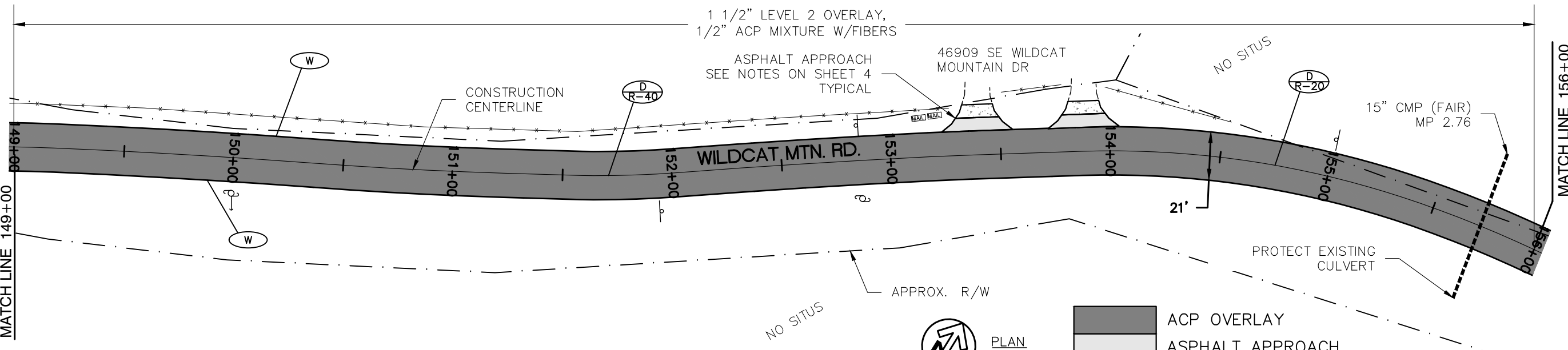
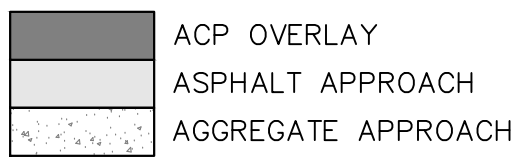
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DRAFTED BY: RM  
CHECKED BY: STAFF

NO.	DATE:	REVISIONS

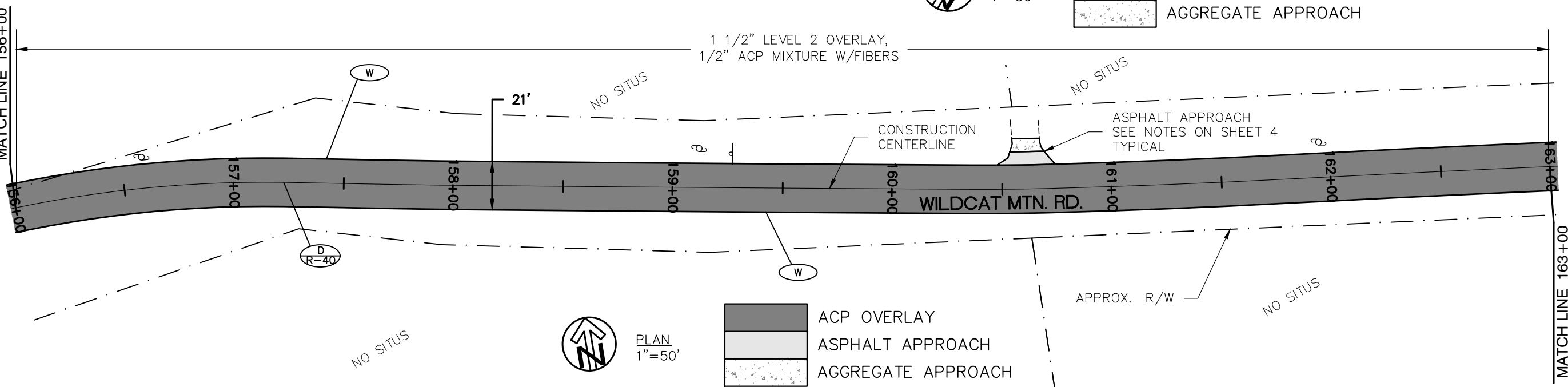
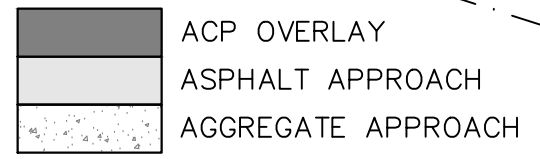
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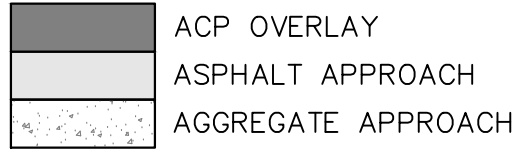
PLAN  
1"=50'



PLAN  
1"=50'

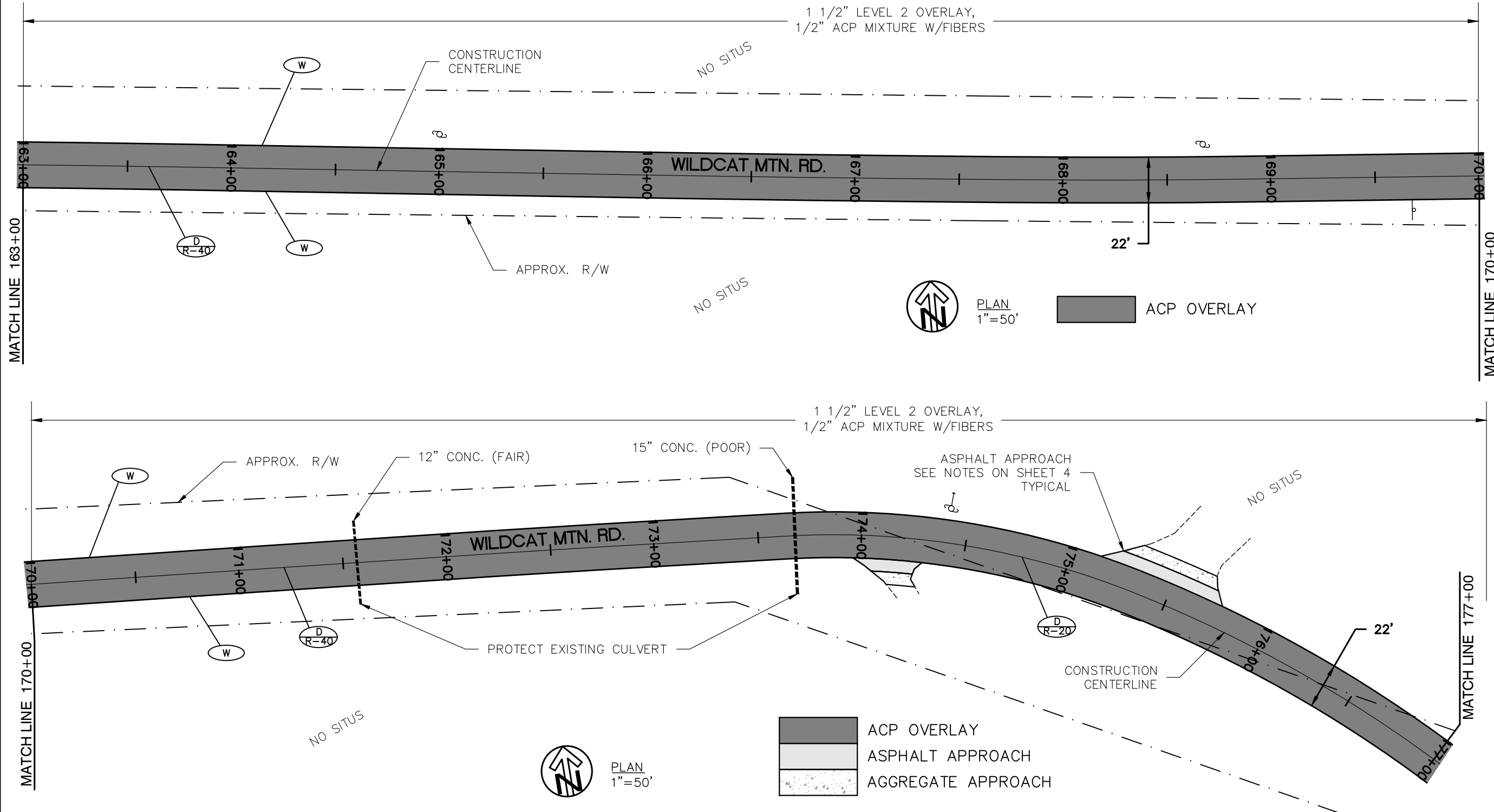


PLAN  
1"=50'





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REGISTERED PROFESSIONAL ENGINEER  
87671PE  
OREGON  
SEPT. 12, 2017  
R. JORDAN COOLS  
EXPIRES: 12/31/2025

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

CLACKAMAS COUNTY  
DAN JOHNSON  
DIRECTOR

NO.	DATE	REVISIONS

DESIGNED BY: jc  
DRAFTED BY: RM  
CHECKED BY: STAFF

Sheet No. 18

PROJECT NO.: CI-23315  
DATE: 7/24/2024

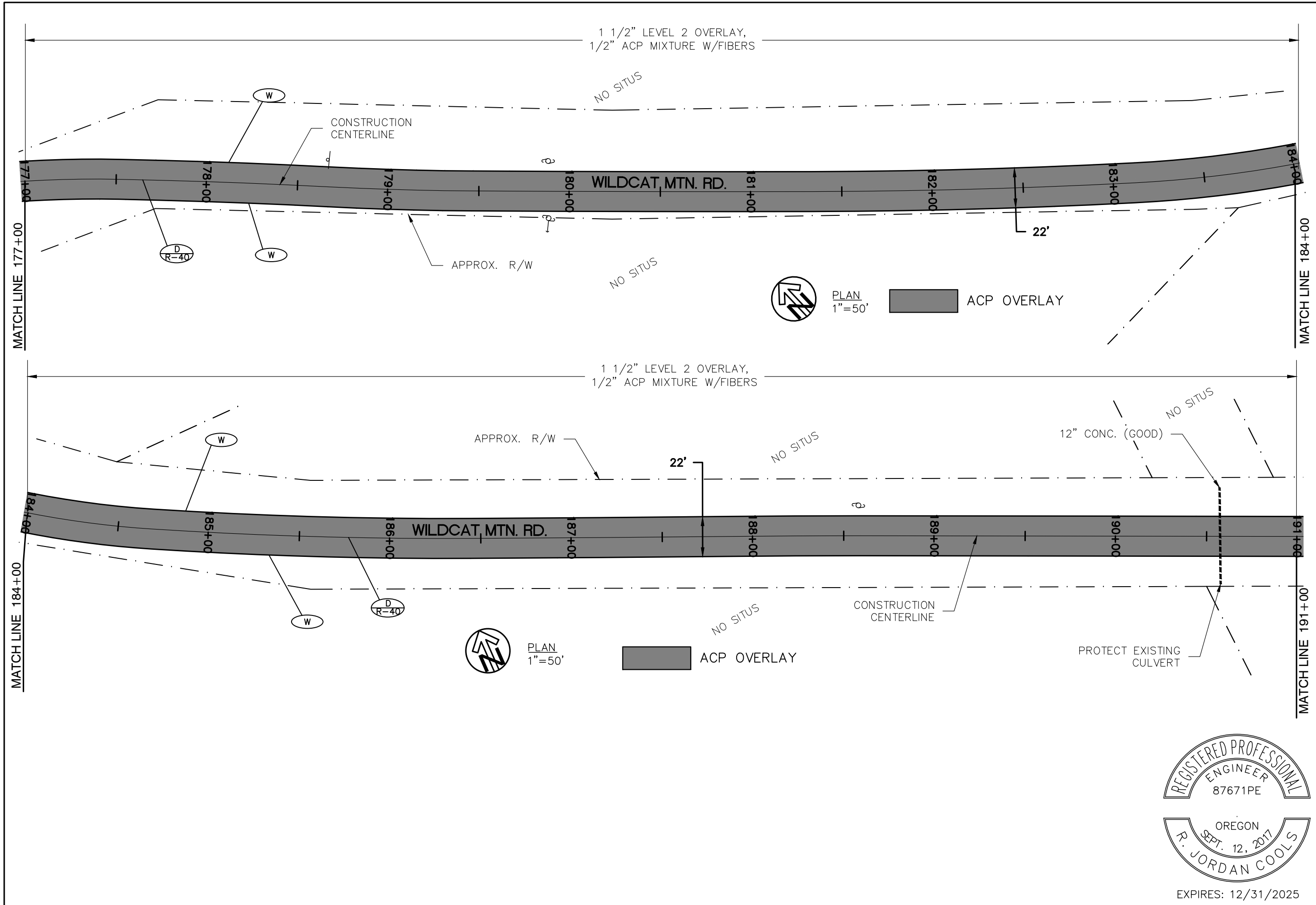
PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

ACP OVERLAY  
ASPHALT APPROACH  
AGGREGATE APPROACH

PLAN 1"=50'  
ACP OVERLAY

PLAN 1"=50'

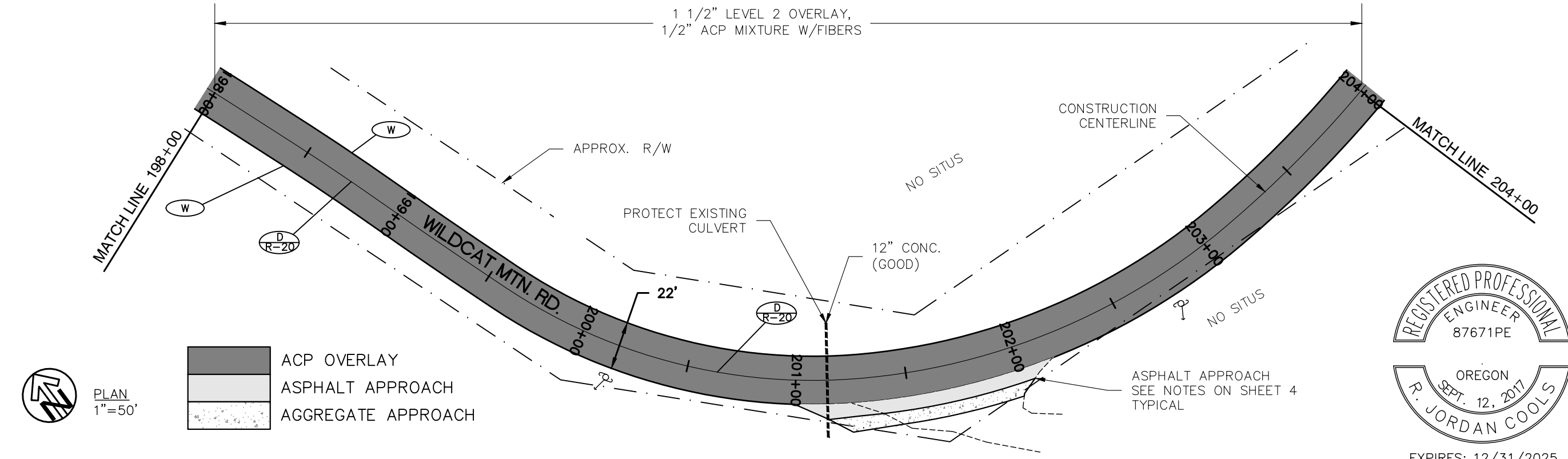
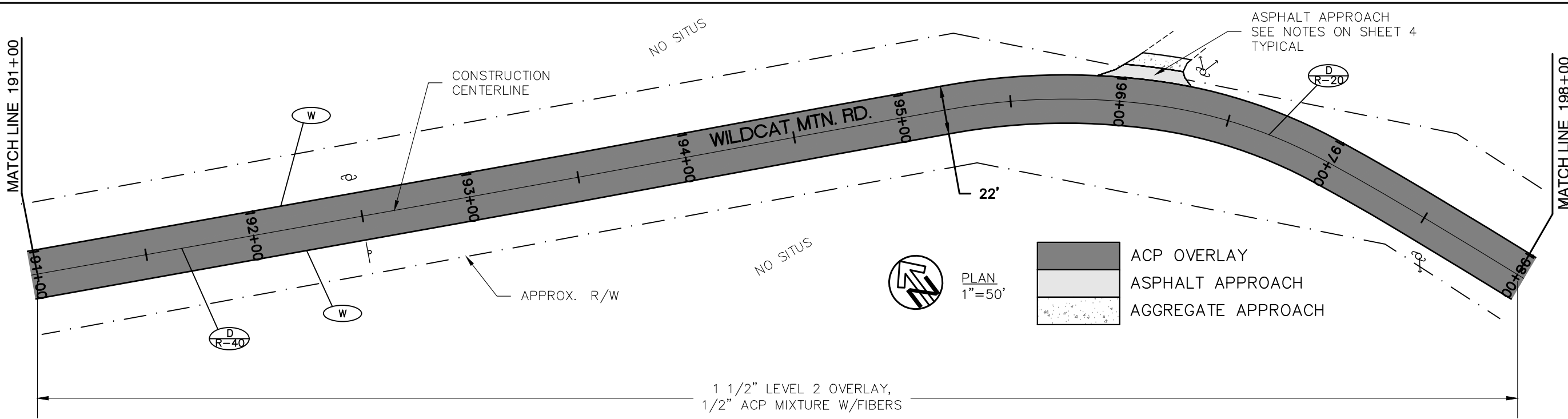
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REGISTERED PROFESSIONAL  
ENGINEER  
87671PE  
OREGON  
R. JORDAN COOLS  
SEPT. 12, 2017  
EXPIRES: 12/31/2025

CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		CLACKAMAS COUNTY DIRECTOR DAN JOHNSON	
DESIGNED BY: JC	DRAFTED BY: RM	CHECKED BY: STAFF	PROJECT NO.: CI-23315
NO. DATE:			DATE: 7/24/2024
REVISIONS		PLAN	
		WILDCAT MOUNTAIN DRIVE PAVING PROJECT	
Sheet No.		19	

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- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH

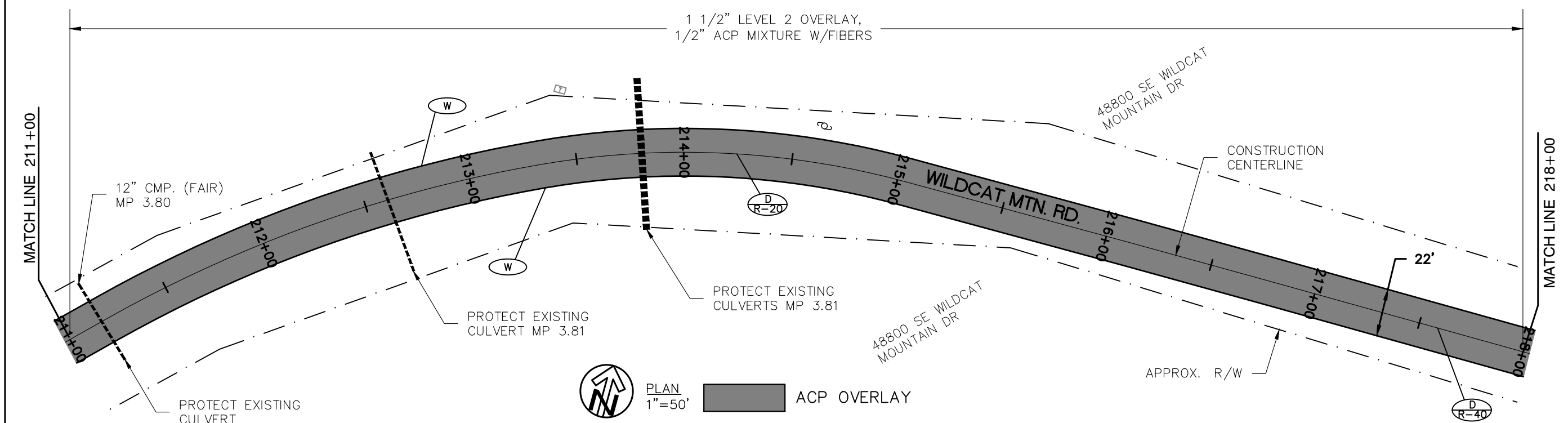
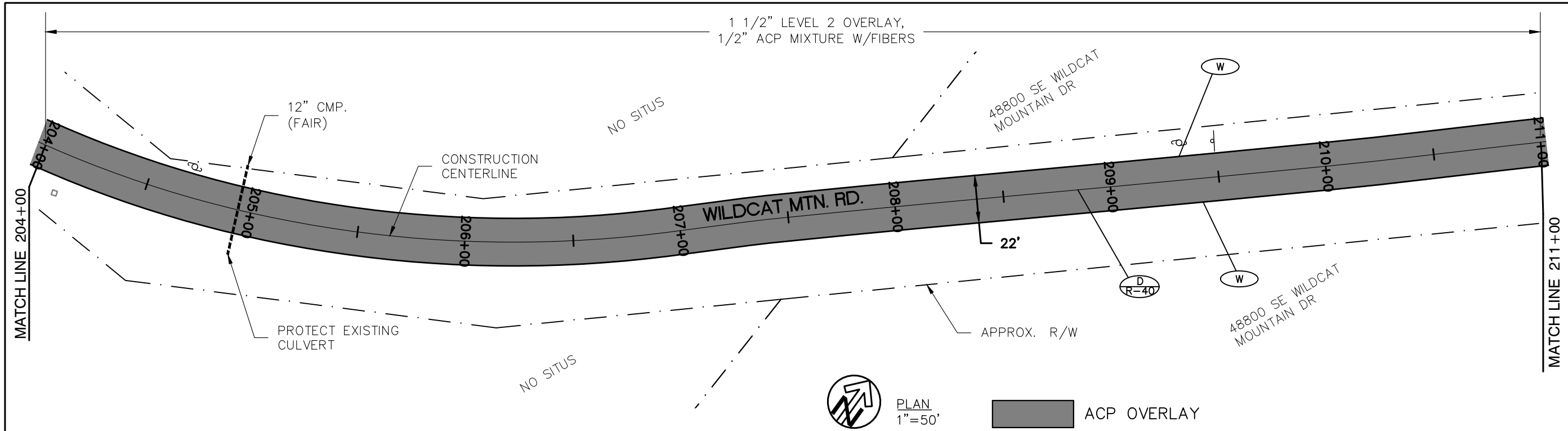
PLAN  
1"=50'

- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH



<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		<b>CLACKAMAS COUNTY</b> DAN JOHNSON DIRECTOR
<b>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</b>		PROJECT NO.: CI-23315
PLAN		DATE: 7/24/2024
MATCH LINE 191+00		MATCH LINE 198+00
MATCH LINE 198+00		MATCH LINE 204+00
NO. DATE:		REVISIONS:
DESIGNED BY: JC		CHECKED BY: STAFF
DRAFTED BY: RM		SHEET NO. 20

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PLAN  
1"=50'

ACP OVERLAY

PLAN  
1"=50'

ACP OVERLAY



EXPIRES: 12/31/2025

PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DAN JOHNSON  
DIRECTOR

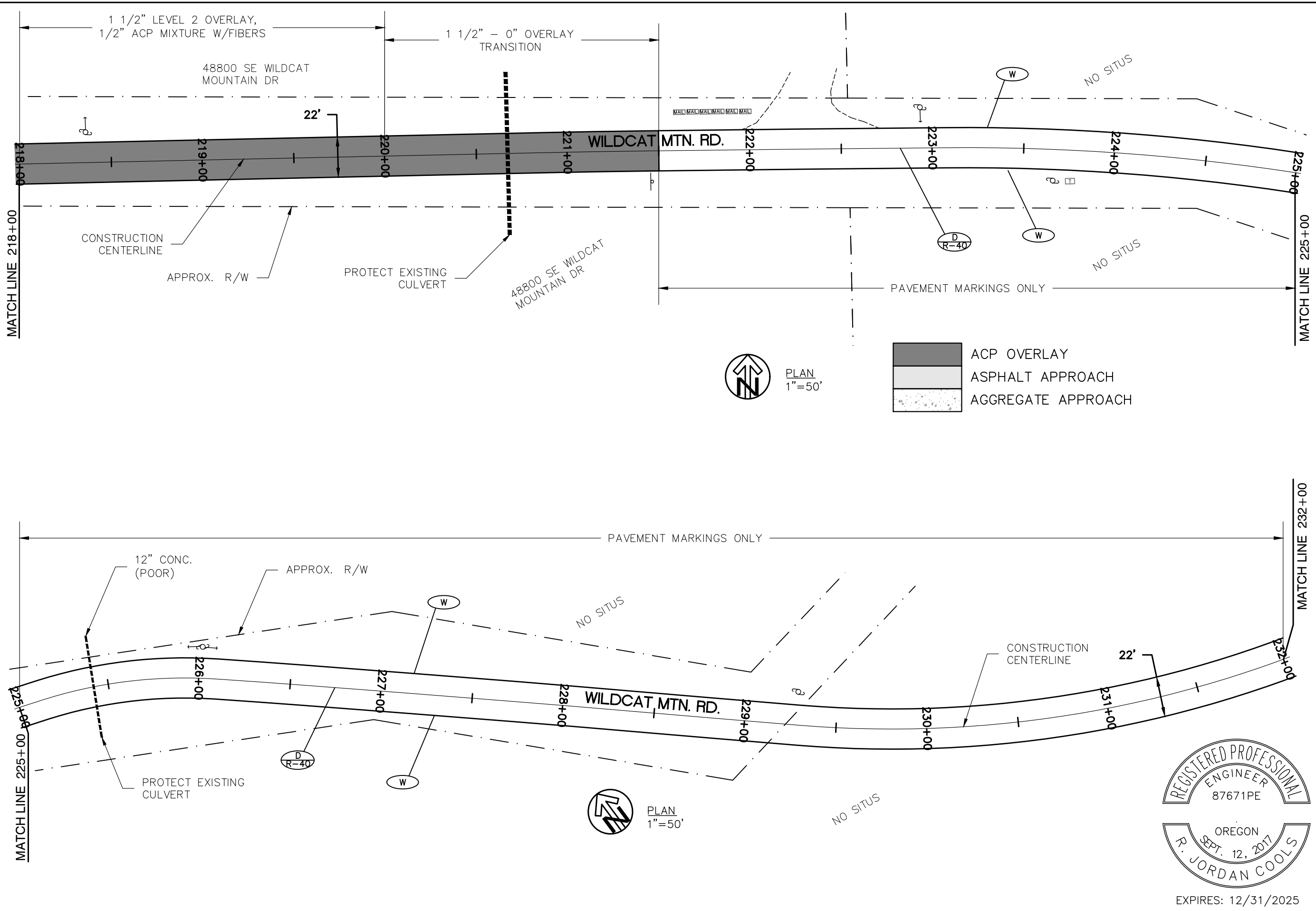
NO.	DATE	REVISIONS

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

PROJECT NO.: CI-23315  
DATE: 7/24/2024

Sheet No. 21

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PLAN  
 WILDCAT MOUNTAIN DRIVE  
 PAVING  
 PROJECT

CLACKAMAS COUNTY  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

DAN JOHNSON  
 DIRECTOR

DESIGNED BY:	JC
DRAFTED BY:	RM
CHECKED BY:	STAFF
NO. DATE:	
REVISIONS	
Sheet No.	22

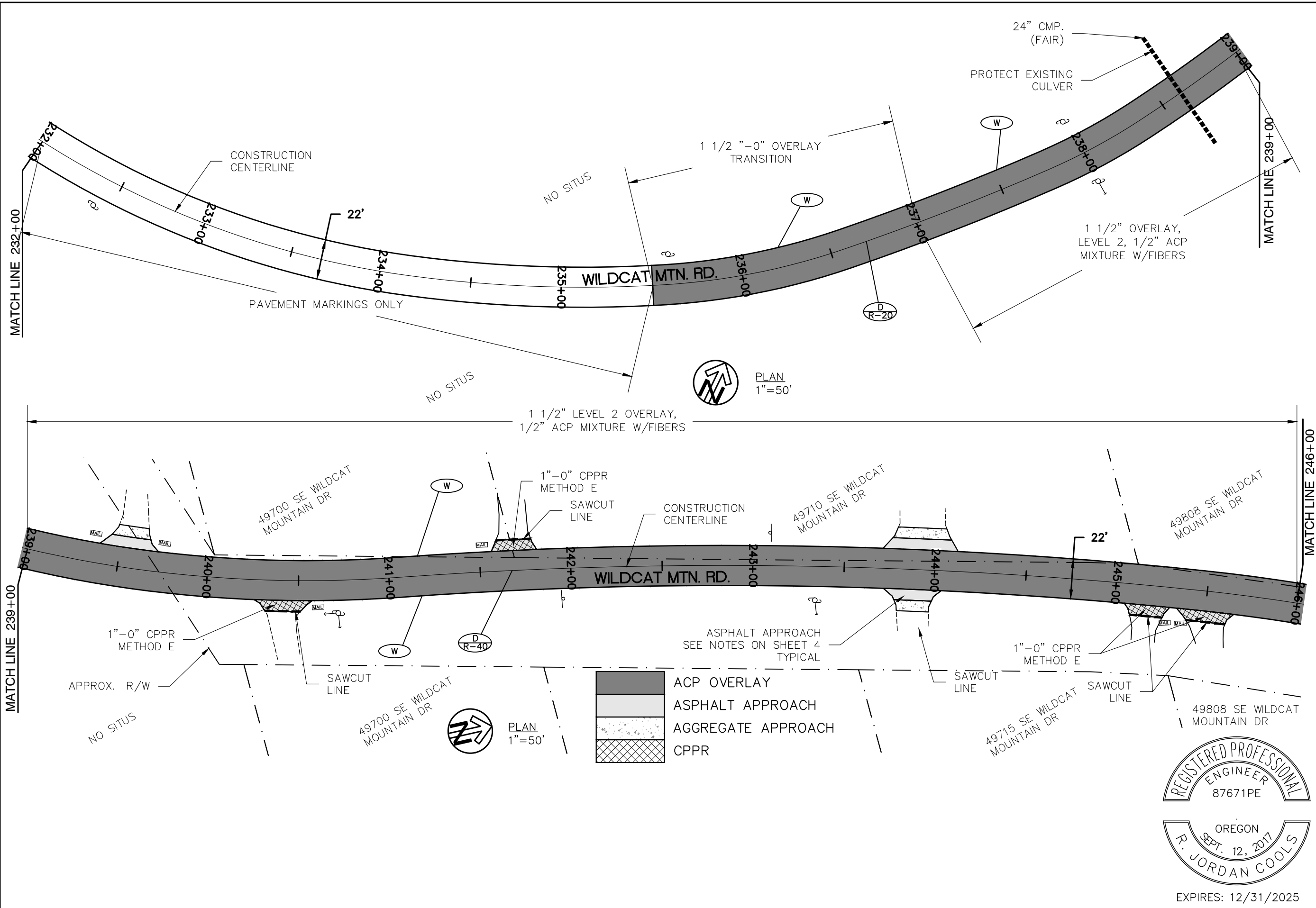
DATE: 7/24/2024 PROJECT NO.: CI-23315

REGISTERED PROFESSIONAL  
 ENGINEER  
 87671PE

OREGON  
 SEPT. 12, 2017  
 R. JORDAN COOLS

EXPIRES: 12/31/2025

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	ACP OVERLAY
	ASPHALT APPROACH
	AGGREGATE APPROACH
	CPPR

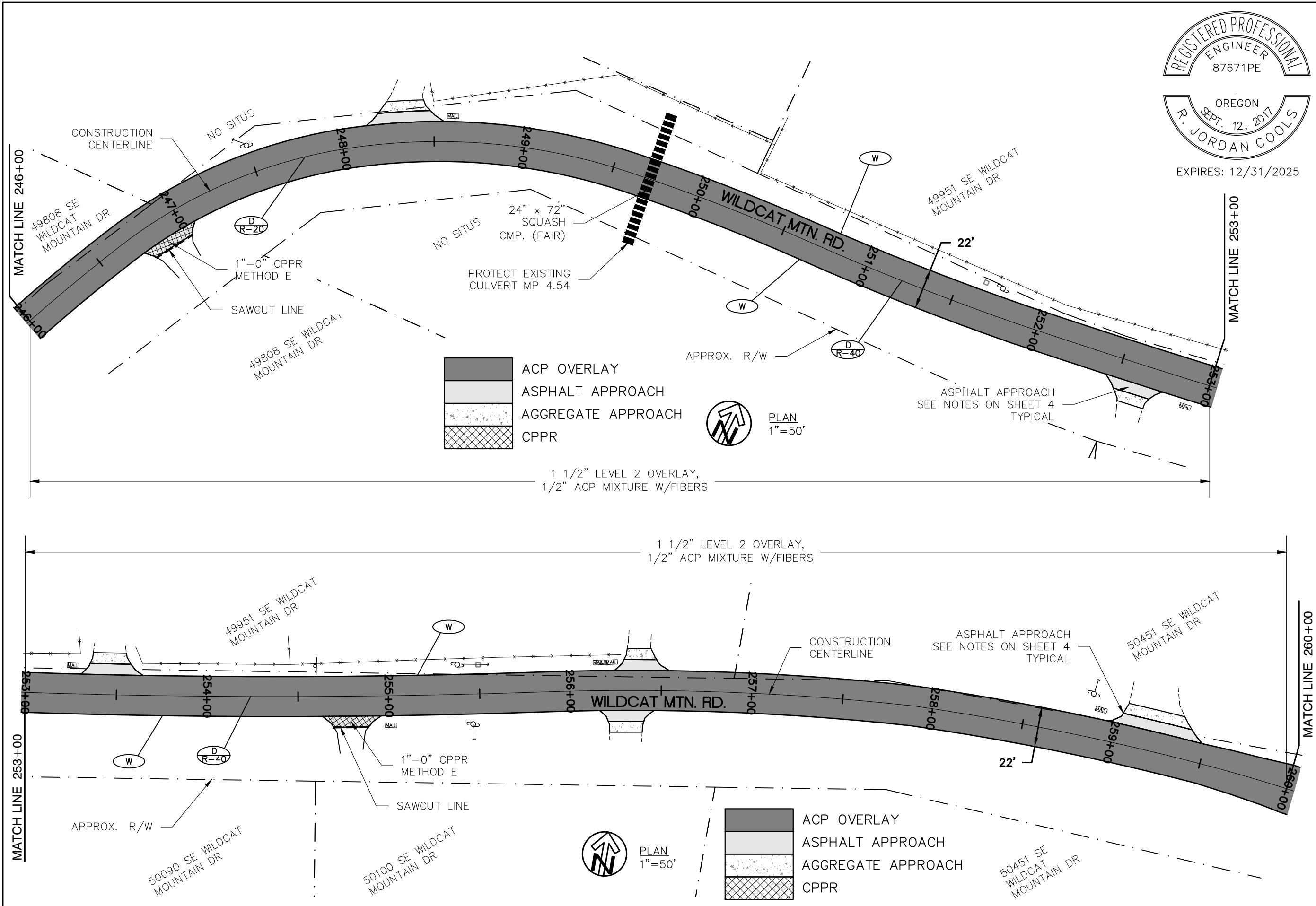
REGISTERED PROFESSIONAL  
ENGINEER  
87671PE

OREGON  
SEPT. 12, 2017  
R. JORDAN COOLS

EXPIRES: 12/31/2025

<p>CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045</p>		<p>CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045</p>
<p>DESIGNED BY: JC</p>		<p>DIRECTOR DAN JOHNSON</p>
<p>DRAFTED BY: RM</p>		<p>PROJECT NO.: CI-23315</p>
<p>CHECKED BY: STAFF</p>		<p>DATE: 7/24/2024</p>
<p>NO. DATE:</p>		<p>REVISIONS</p>
<p>Sheet No. 23</p>		<p>PLAN WILDCAT MOUNTAIN DRIVE PAVING PROJECT</p>

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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

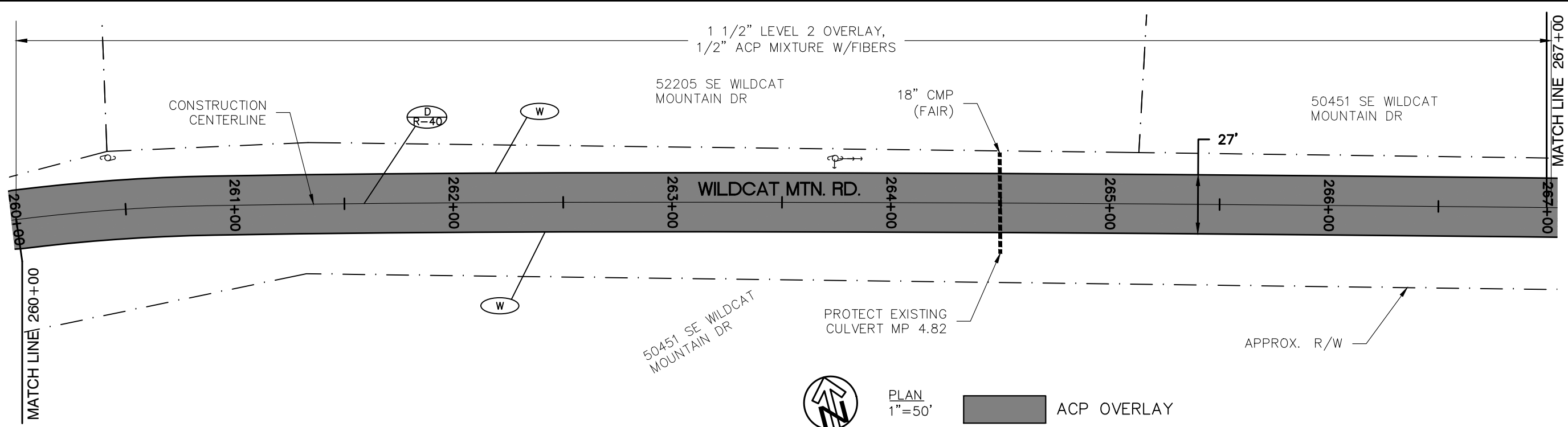
**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

DESIGNED BY:	JC
DRAFTED BY:	RM
CHECKED BY:	STAFF
NO. DATE:	
REVISIONS	

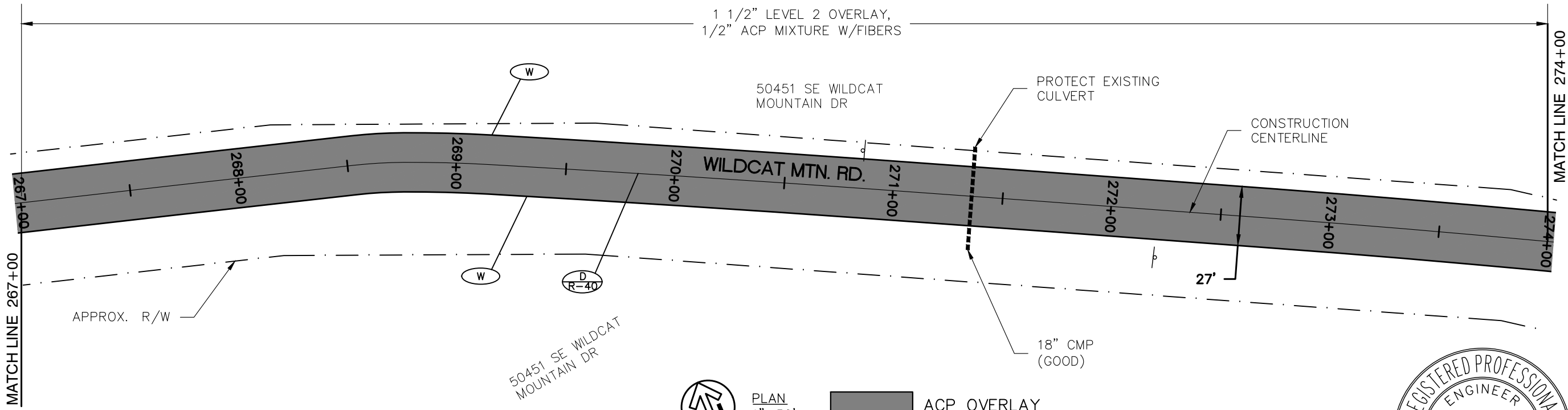
DATE: 7/24/2024 PROJECT NO.: CI-23315

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PLAN  
1"=50'

ACP OVERLAY



PLAN  
1"=50'

ACP OVERLAY



EXPIRES: 12/31/2025

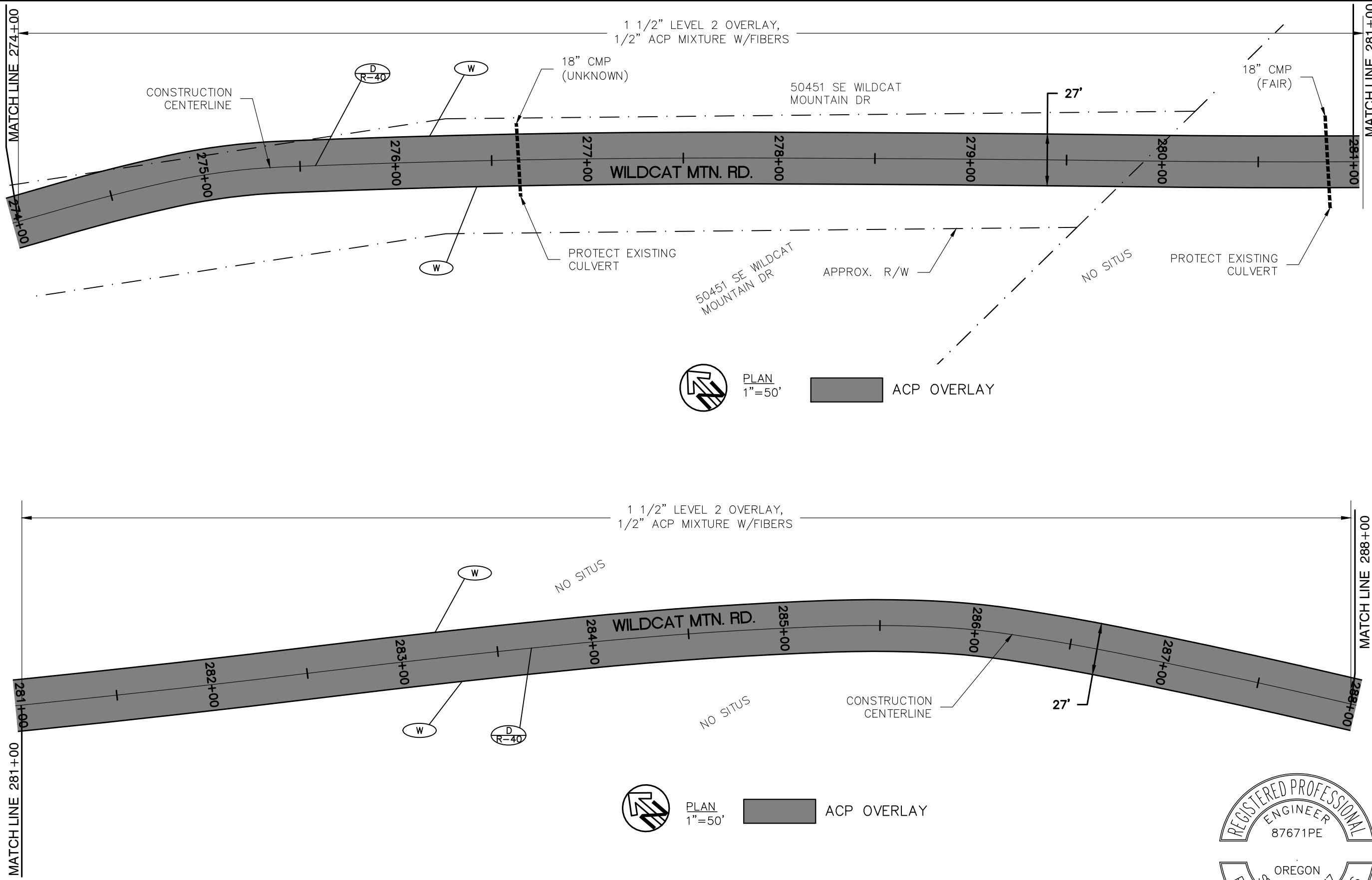
PLAN	
WILDCAT MOUNTAIN DRIVE PAVING PROJECT	
DATE: 7/24/2024	PROJECT NO.: CI-23315

CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR
	DAN JOHNSON

DESIGNED BY:	JC
DRAFTED BY:	RM
CHECKED BY:	STAFF
NO.	DATE:



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PLAN  
1"=50'



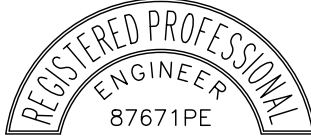
ACP OVERLAY



PLAN  
1"=50'



ACP OVERLAY



EXPIRES: 12/31/2025

<b>PLAN</b>	
WILDCAT MOUNTAIN DRIVE	
PAVING	
PROJECT	
DATE: 7/24/2024	PROJECT NO.: CI-23315

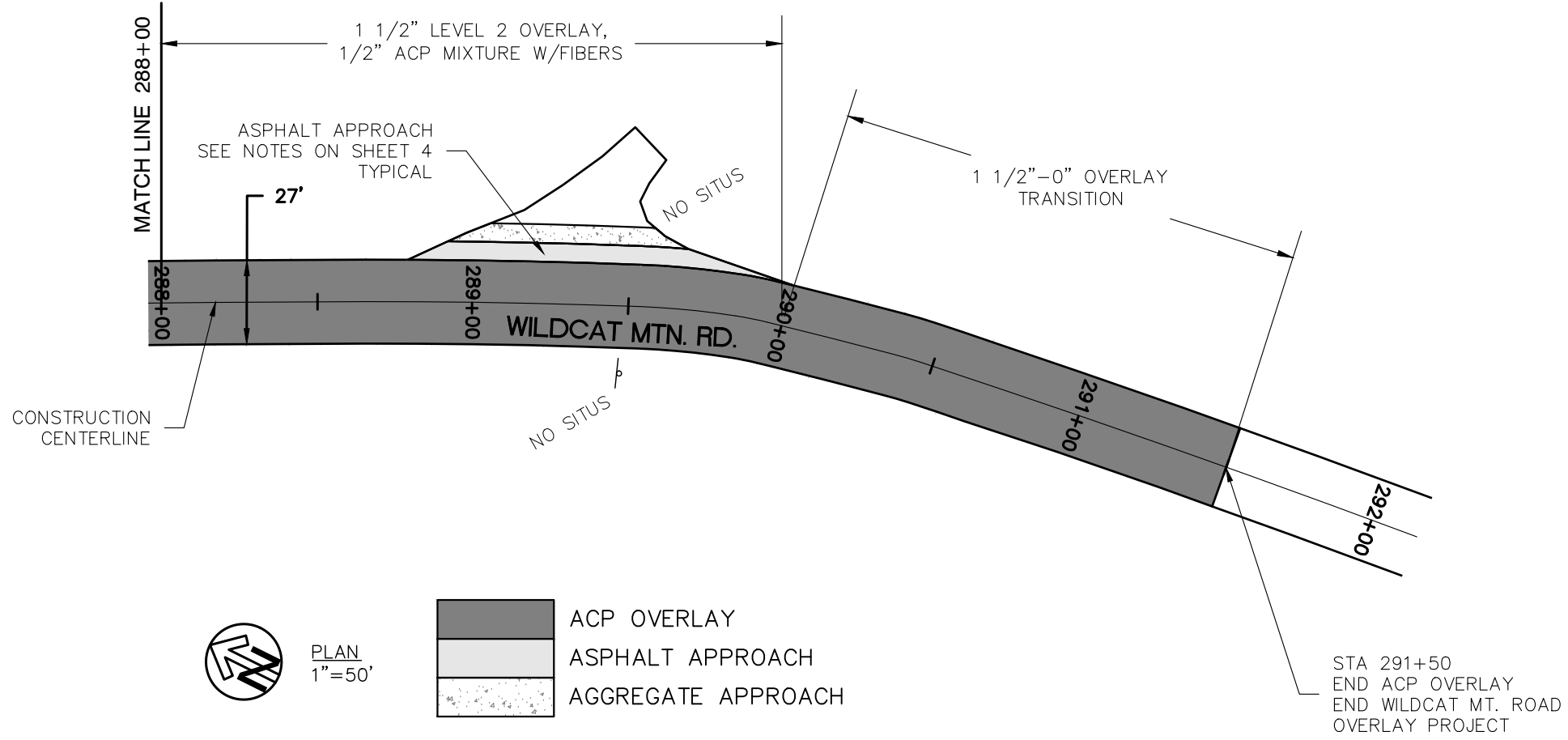
**CLACKAMAS COUNTY**  
DEPT. OF TRANSPORTATION AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DAN JOHNSON  
DIRECTOR

NO.	DATE	REVISIONS

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

Sheet No. 26



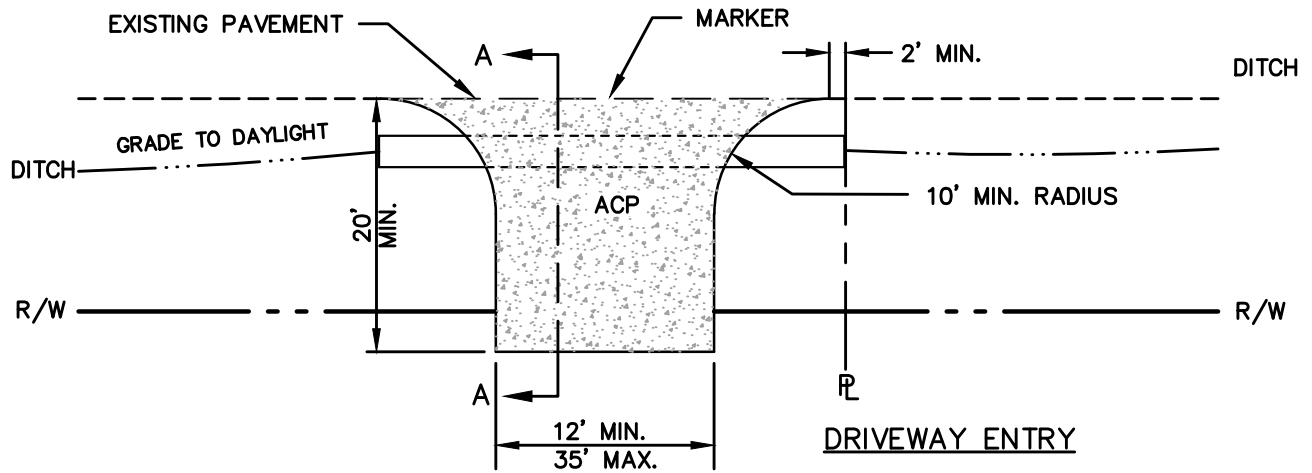
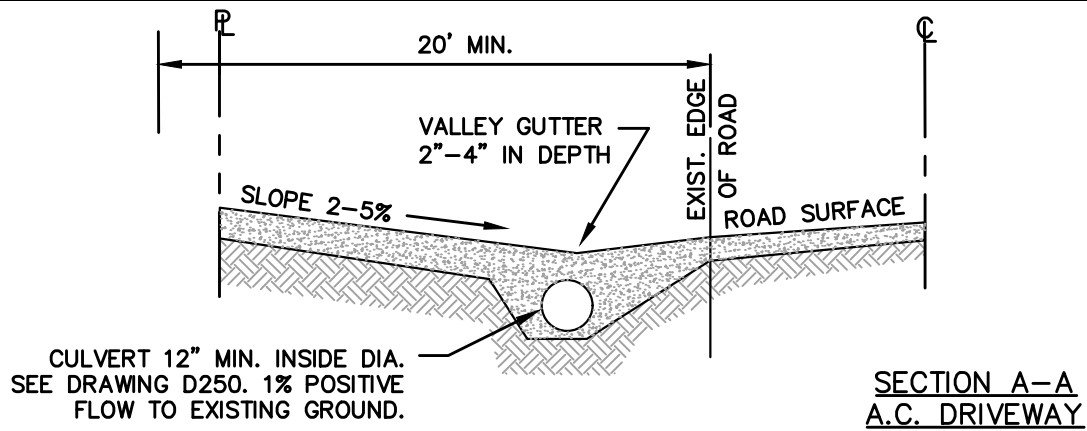
PLAN  
1"=50'

- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH



EXPIRES: 12/31/2025

MATCH LINE 271+00	
<b>PLAN</b>	
WILDCAT MOUNTAIN DRIVE PAVING PROJECT	
DATE: 7/24/2024 PROJECT NO.: CI-23315	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: JC	CHECKED BY: STAFF
DRAFTED BY: RM	NO. DATE:
REVISIONS	
Sheet No. 27	



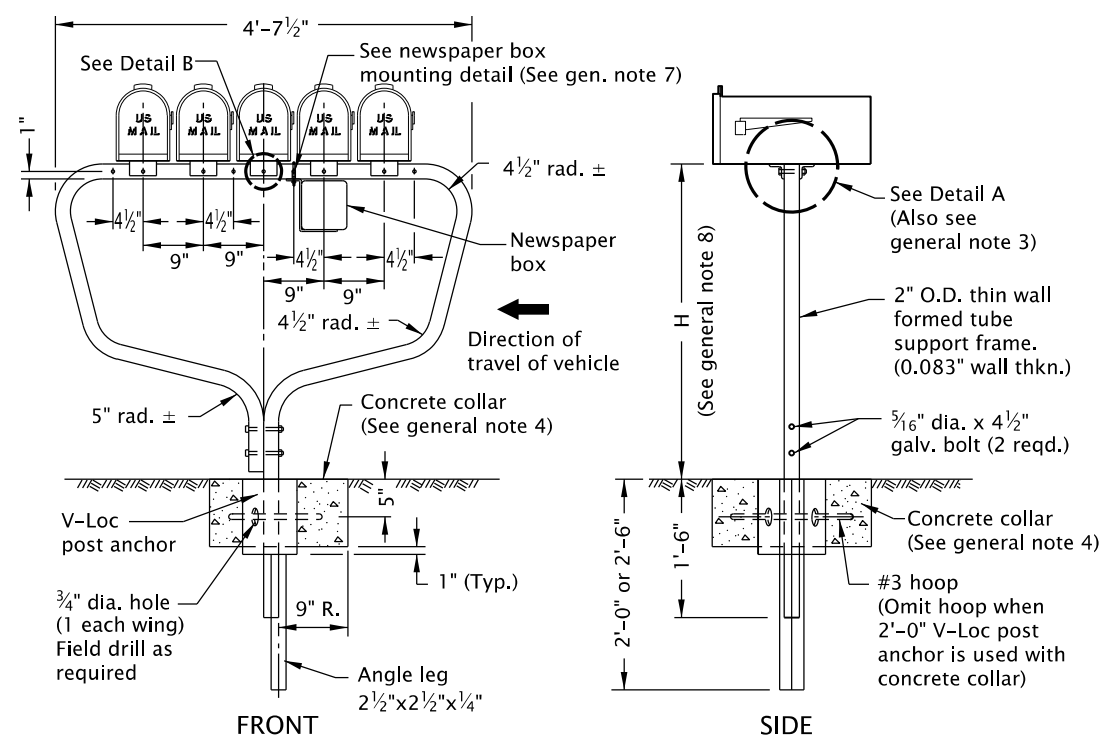
**NOTES**

1. LOCATION AND DIMENSIONS TO BE APPROVED BY THE COUNTY ON A SITE SPECIFIC BASIS. PLACE A MARKER, AS INDICATED, AT THE CENTER OF THE PROPOSED DRIVEWAY FOR INITIAL INSPECTION BY THE COUNTY. NO PORTION OF THE DRIVEWAY MAY BE PLACED ON AN ADJOINING FRONTAGE.
2. SPECIFICATIONS FOR MATERIALS USED IN CONSTRUCTION SHALL CONFORM TO CURRENT ODOT/APWA STANDARD SPECIFICATIONS.
3. AT CORNER LOTS, DRIVEWAY ENTRANCE MUST BE PLACED ON THE SECONDARY ROADWAY IN URBAN AREAS AND ON ROADS WITH MORE THAN 7,500 ADT IN THE RURAL AREA.
4. SEE SECTION 220 FOR ACCESS SPACING BETWEEN DRIVEWAYS, TO AN INTERSECTION AND TO A PROPERTY LINE ALSO FOR MULTIPLE ACCESSES TO ON PROPERTY.
5. MEET SPACING STANDARDS PER SECTION 220.
6. IF A CULVERT IS REQUIRED, INSTALL CULVERT PIPE PER STANDARD DRAWING D250.
7. PROVIDE SIGHT DISTANCE PER SECTION 240.
8. DRIVEWAY SHALL INTERSECT ROAD AT A 90 DEGREE ANGLE.
9. DRIVEWAY APPROACH SHALL MEET STRUCTURAL SECTION PER R100.

REVISION	DATE	BY	DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT	APPROVAL DATE: 6/1/2020	SCALE: N.T.S.	STANDARD DRAWING
REVISED	11/19	AAR	150 BEAVERCREEK ROAD OREGON CITY, OR 97045	STANDARD DRIVEWAY ENTRY ONTO PAVED COUNTY ROADS WITH NO CURBS		D500



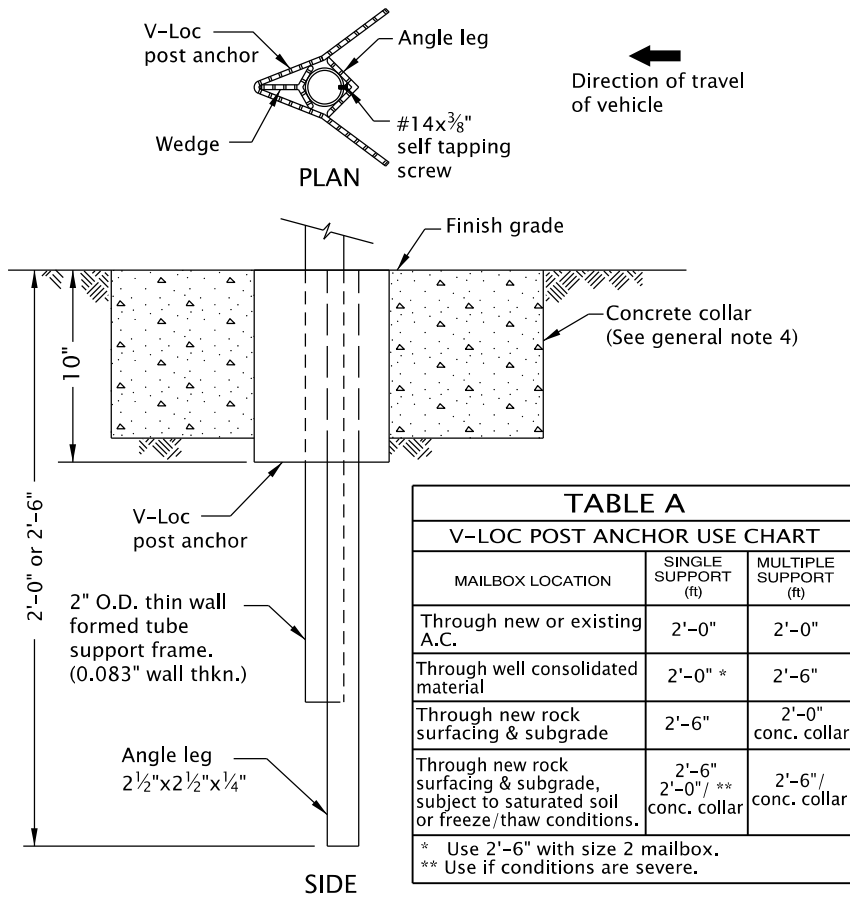
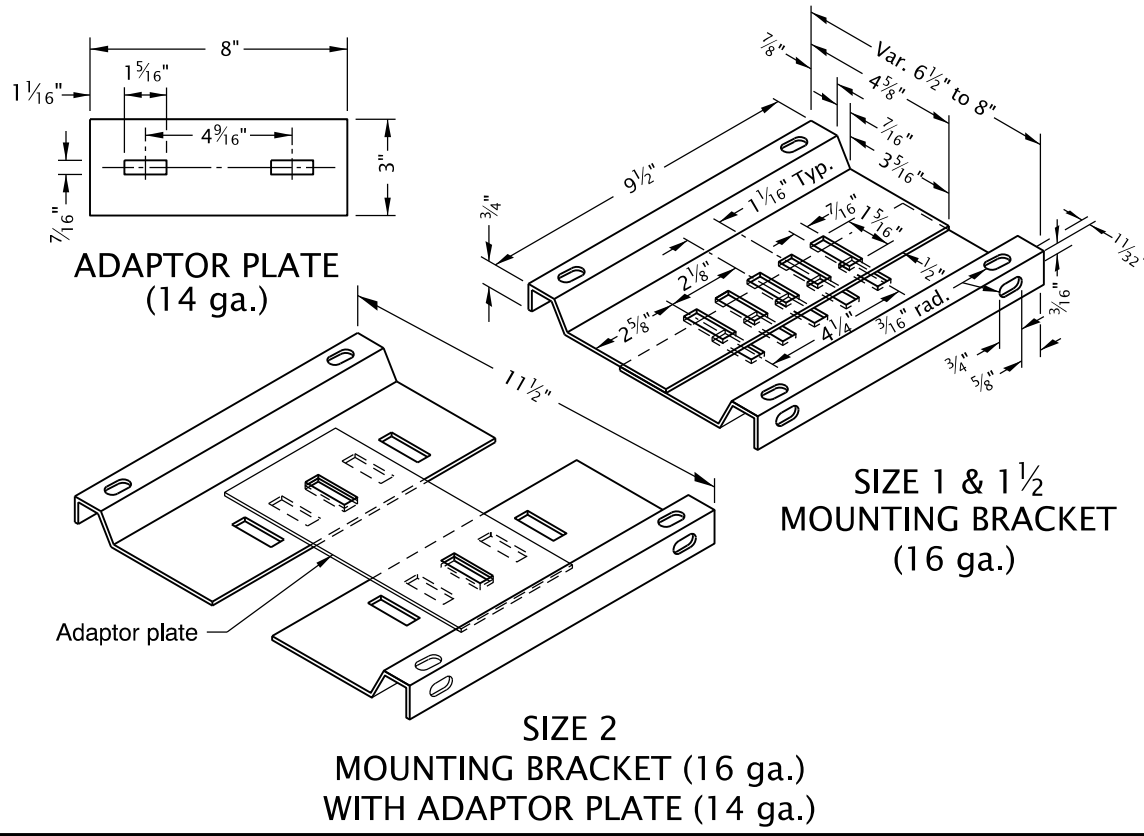
19-JAN-2024  
RD100.dgn



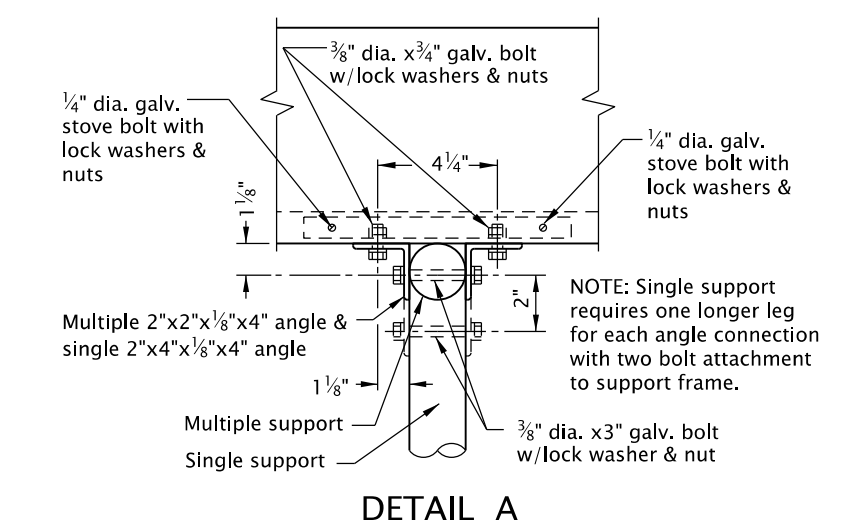
**CONCRETE COLLAR**  
(See general note 4)

**MULTIPLE SUPPORT**

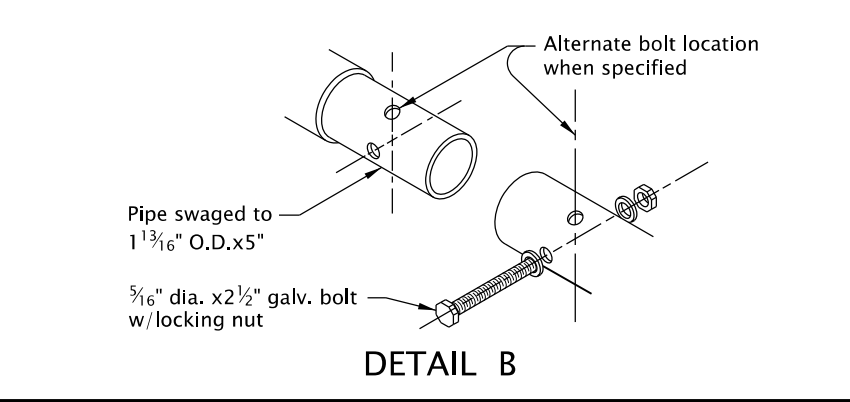
(Supports 5 standard (Sizes 1 & 1 1/2) mailboxes or 4 large (Size 2) mailboxes)



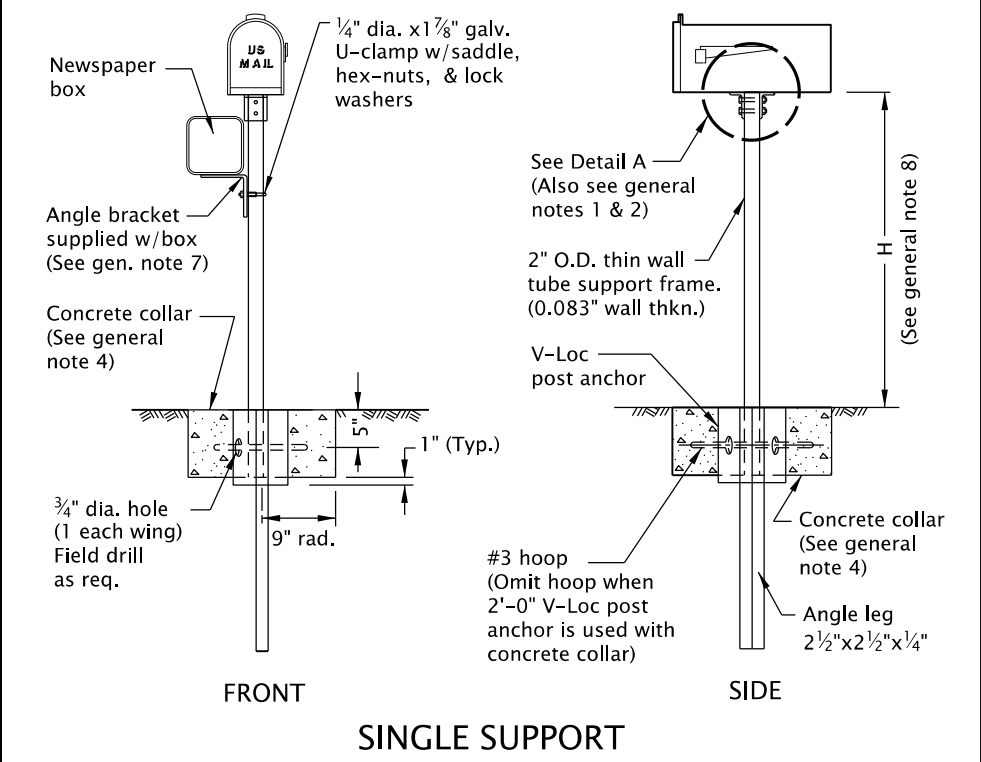
**POST MOUNTING SOCKET**



**DETAIL A**



**DETAIL B**



**SINGLE SUPPORT**

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- Angle connections to be parallel to traffic flow for Size 2 mailbox mounted on single post.
  - All holes in the tube support frame are to be predrilled by the manufacturer.
  - Size 2 mailbox mounted on a multiple support requires 2 each 3/8" dia. x 5/8" galv. bolts with lock washers and nuts to attach the adaptor plate to the mounting bracket. The unit will then require 4 angle connections to attach to the formed tube support frame. See Detail A.
  - Provide concrete collar when any of the following conditions exist:
    - when required in Table A
    - when required by project plans
    - as directed by the Engineer
 Concrete collar, when required, to be poured in place after V-Loc post anchor has been installed, level and plumb. Do not excavate below bottom of V-Loc post anchor. Care shall be taken that no concrete is placed within anchor.
  - Other proprietary products available as listed in ODOT's QPL.
  - For mailbox installation locations, see Std. Dwg. RD101 and project plans.
  - For Newspaper Box Mounting Detail, see Std. Dwg. RD101.
  - Mounting height (H) shall be from 41" Min. to 45" Max. (42" nominal), measured from vehicle driving surface.
  - See project plans for detail 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**

**MAILBOX SUPPORT**

2024

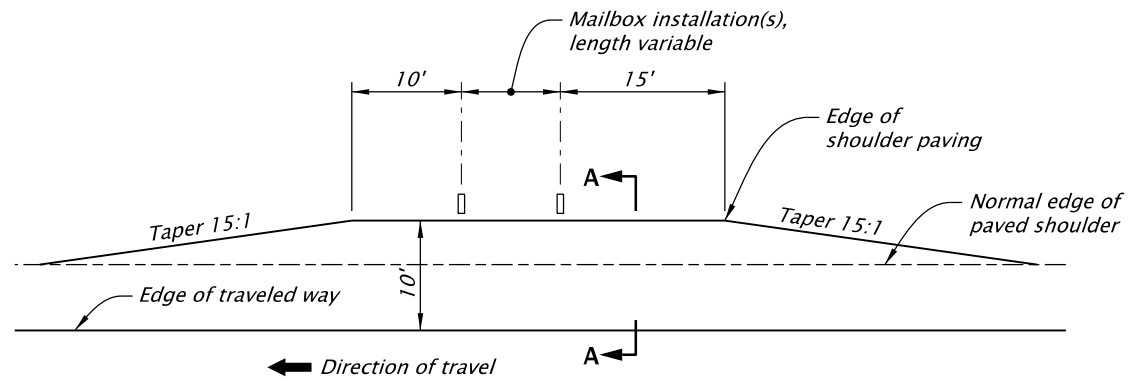
DATE	REVISION	DESCRIPTION
12-2023	REVISED NOTES AND DETAILS	

CALC. BOOK NO. ---	N/A ---	SDR DATE- 19-JAN-2024	<b>RD100</b>
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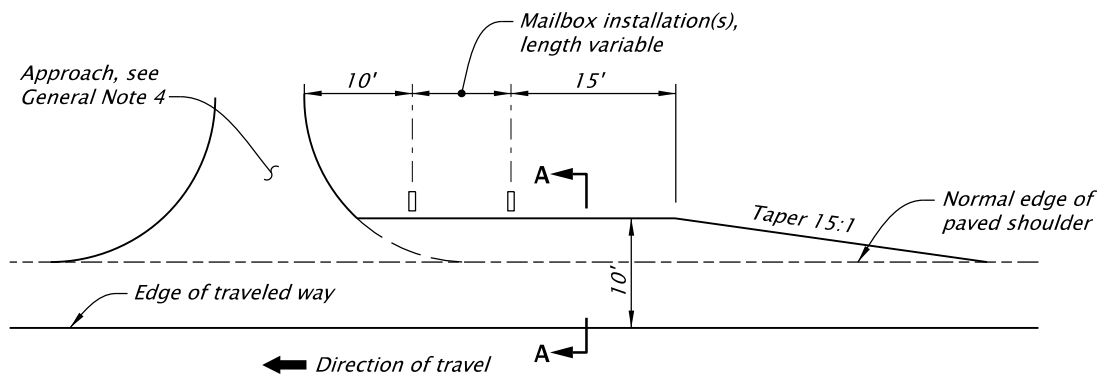
19-JAN-2024  
RD101.dgn

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

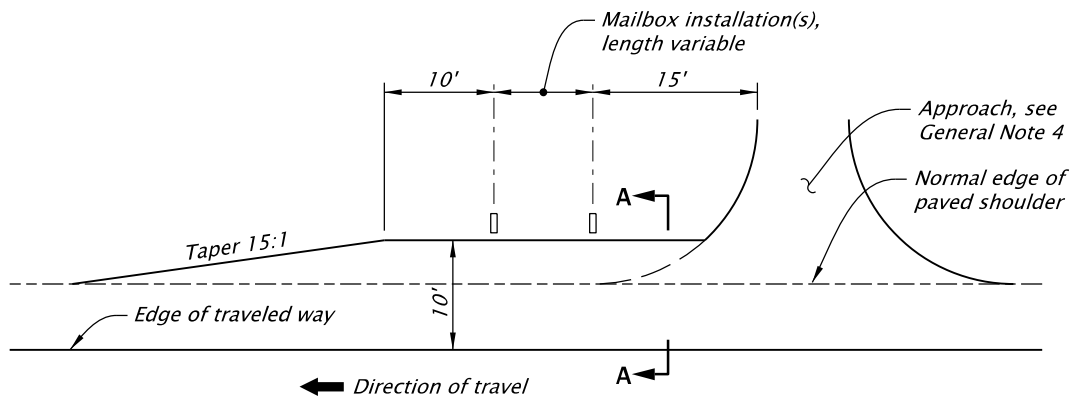
1. All holes in the tube support frame are to be predrilled by the manufacturer.
2. Other proprietary products available as listed in ODOT's QPL.
3. For mailbox support details, see Std. Dwg. RD100.
4. For approach details, see Std. Dwg. RD715.
5. Mounting height ("H") shall be from 41 inches minimum to 45 inches maximum (42 inches nominal), measured from vehicle driving surface.
6. See project plans for details not shown.



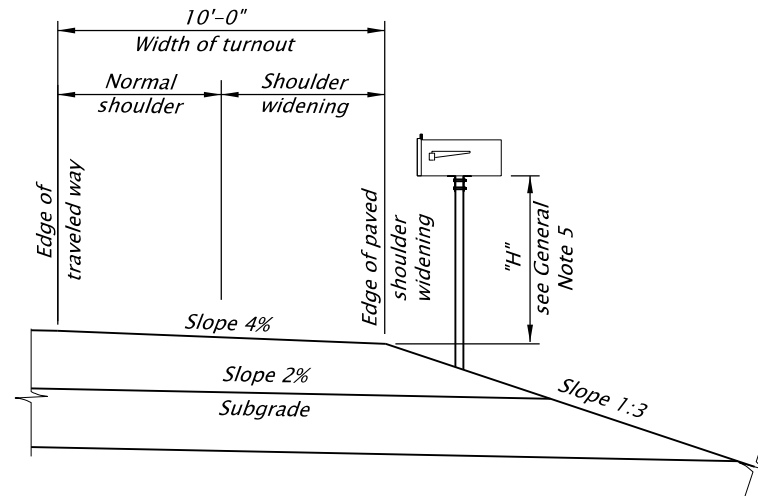
**MAILBOX SERVICE TURNOUT**



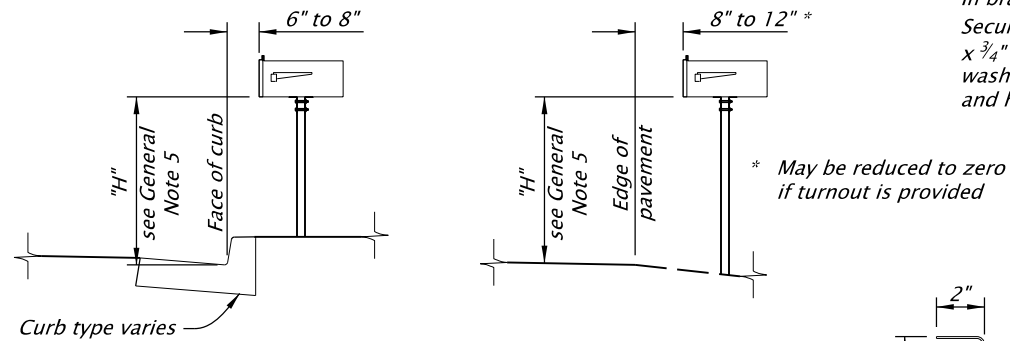
**MAILBOX SERVICE TURNOUT BEFORE APPROACH**



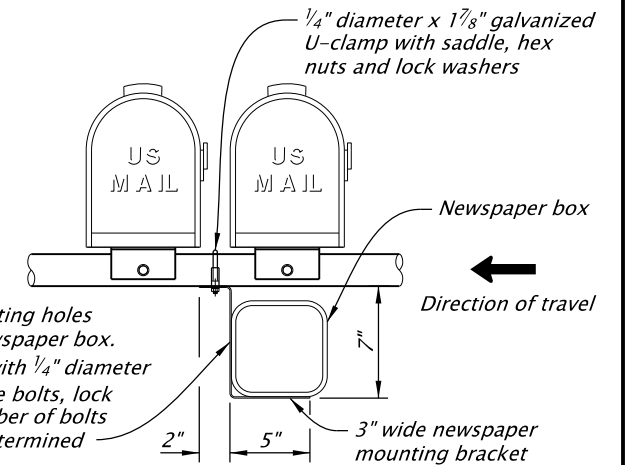
**MAILBOX SERVICE TURNOUT AFTER APPROACH**



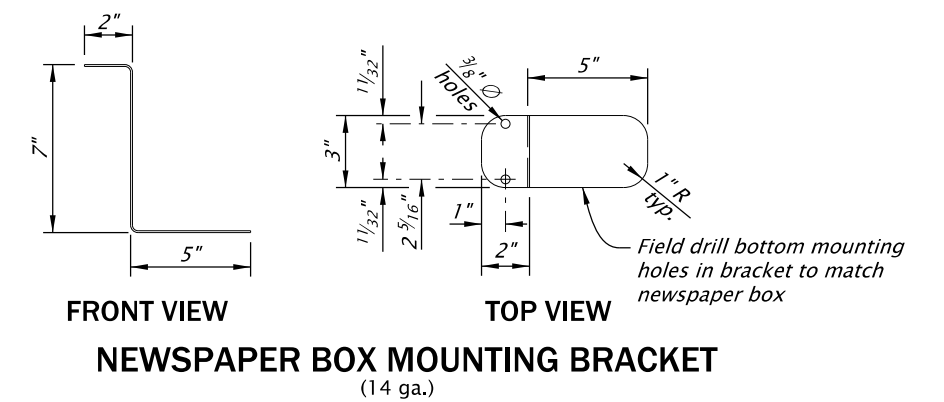
**INSTALLATION AT MAILBOX TURNOUT SECTION A-A**



**TYPICAL MAILBOX INSTALLATIONS**



**NEWSPAPER BOX MOUNTING DETAIL**

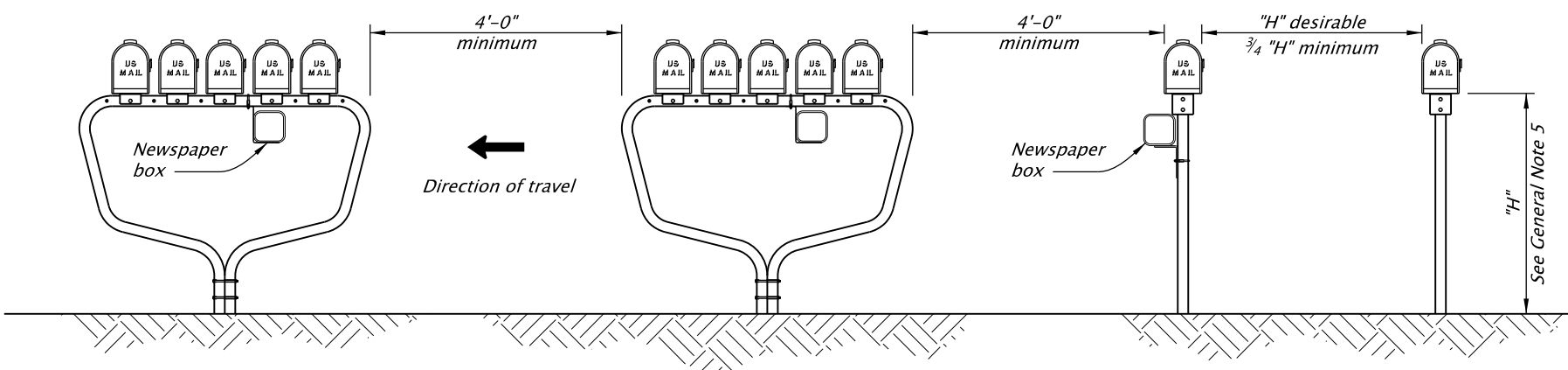


**NEWSPAPER BOX MOUNTING BRACKET (14 ga.)**

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.		
<b>OREGON STANDARD DRAWINGS</b>		
<b>MAILBOX INSTALLATION</b>		
2024		
DATE	REVISION	DESCRIPTION
01-2024		REVISED NOTES AND DETAILS, UPDATED DRAWING CAD STANDARDS
CALC. BOOK NO.	N/A	SDR DATE: 19-JAN-2024
		<b>RD101</b>

**TYPICAL MAILBOX SUPPORT SPACING**



20-JUL-2020  
RD610.dgn

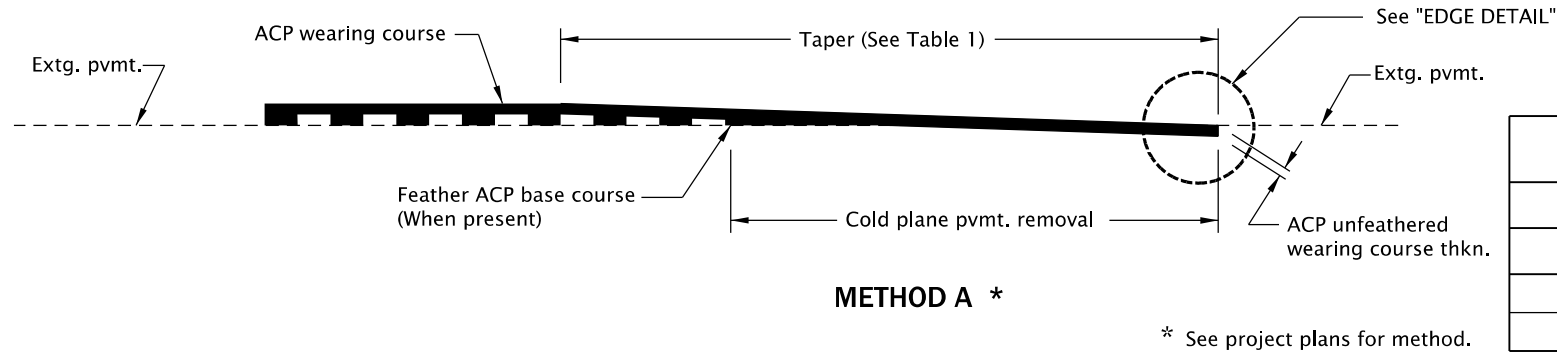
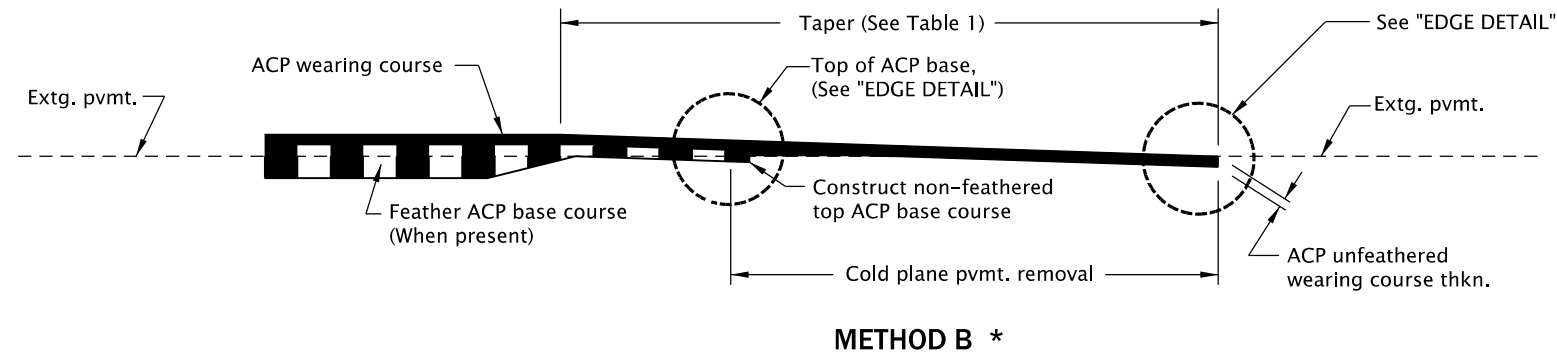
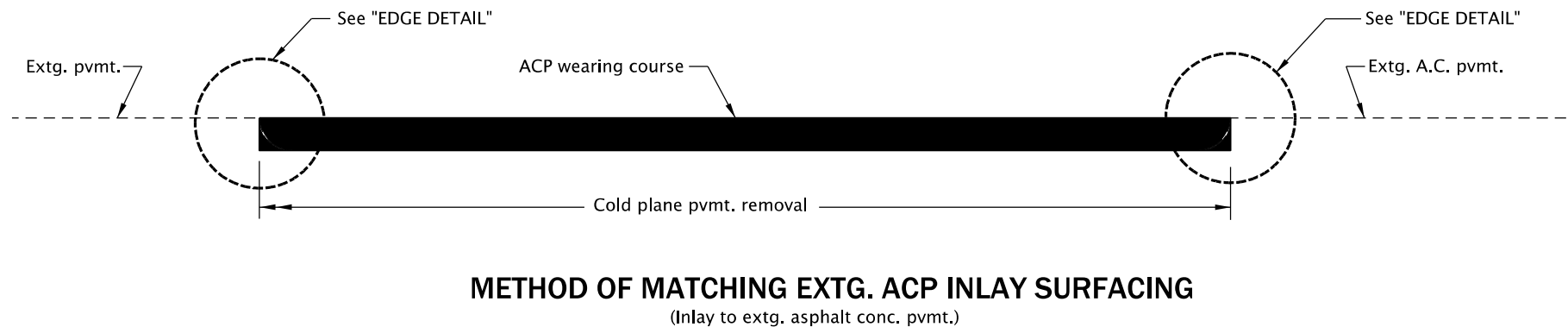
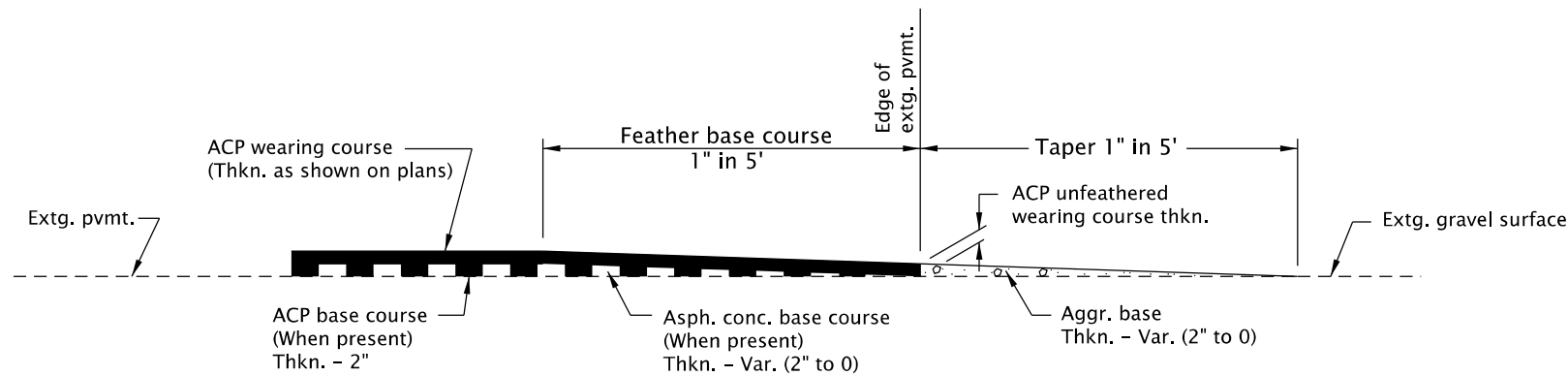
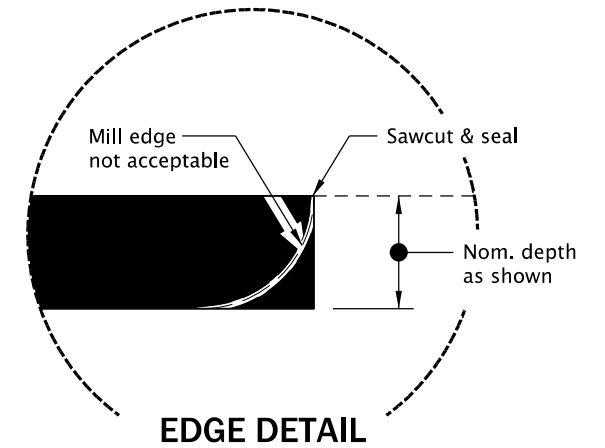


TABLE 1 TAPER LENGTHS	
Posted Speed	Taper Length
< 45 mph	1" per 50'
≥ 45 mph	1" per 100'



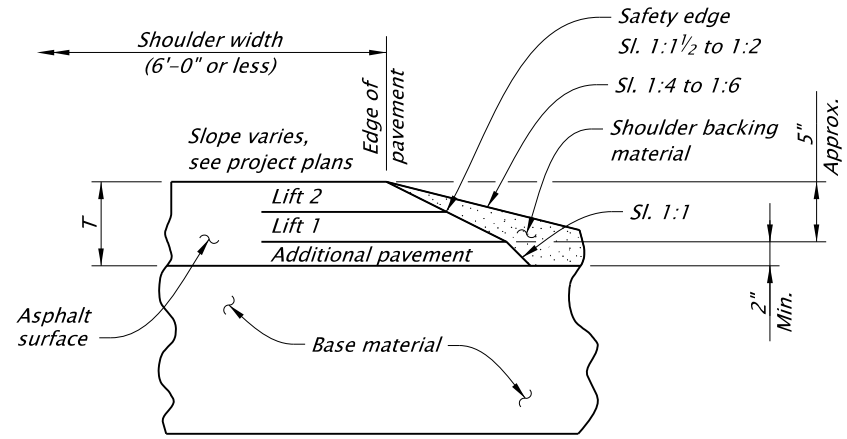
**ACP PAVEMENT MATCH AT PROJECT ENDS  
OR BRIDGE ENDS WHEN NOT OVERLAYING THE BRIDGE**



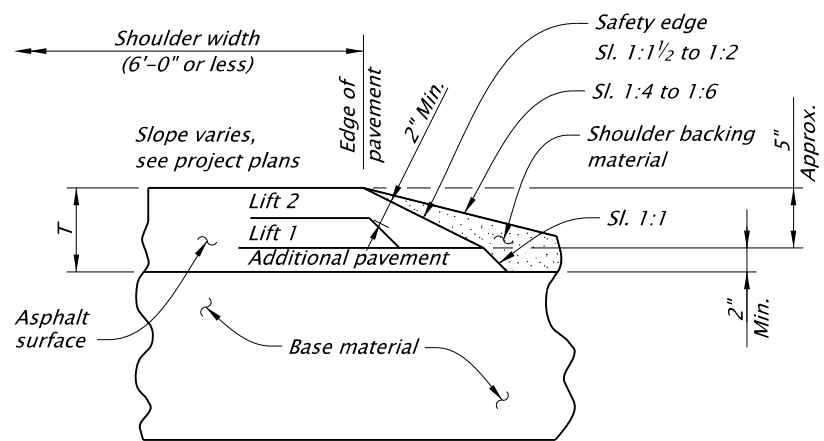
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>ASPHALT CONCRETE PAVEMENT (ACP) DETAILS</b>			
2024			
DATE	REVISION DESCRIPTION		
CALC. BOOK NO.	N/A	SDR DATE	25-JUL-2017
			<b>RD610</b>

Effective Date: December 1, 2024 – May 31, 2025

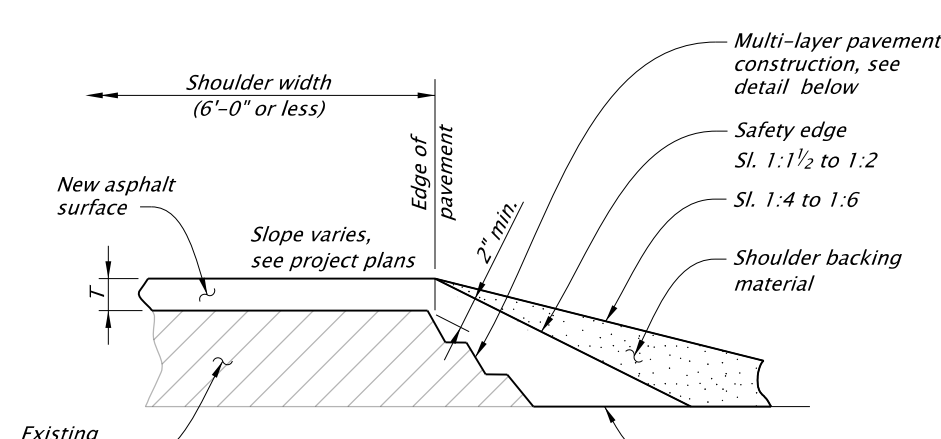


**SAFETY EDGE PLACED WITH LIFTS**

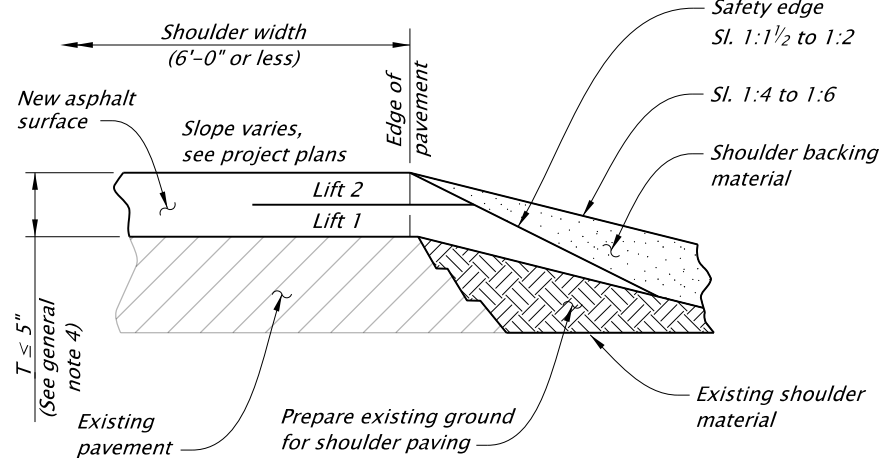


**SAFETY EDGE PLACED ONLY WITH FINAL LIFT**

**SAFETY EDGE FOR ASPHALT CONCRETE (NEW CONSTRUCTION)**

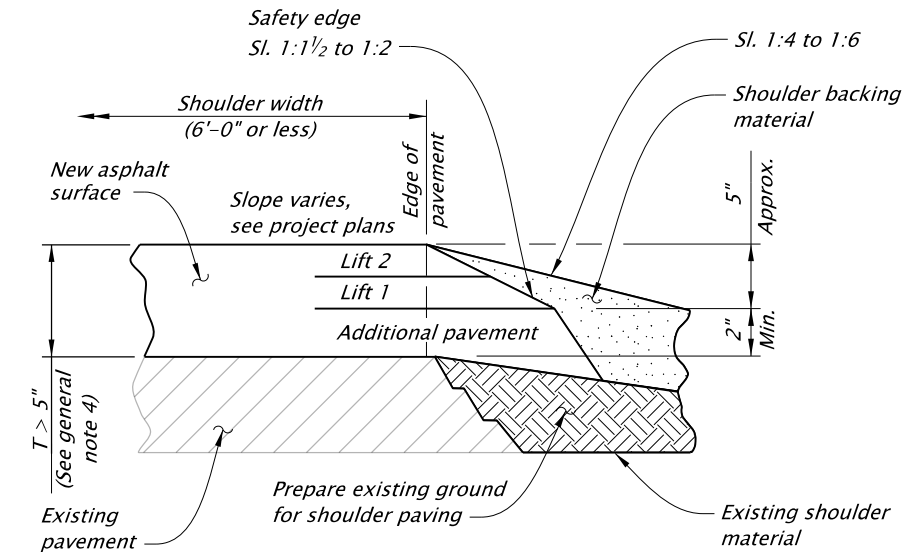


**SINGLE COURSE OVERLAY**



**PAVEMENT THICKNESS (T) 5" OR LESS**

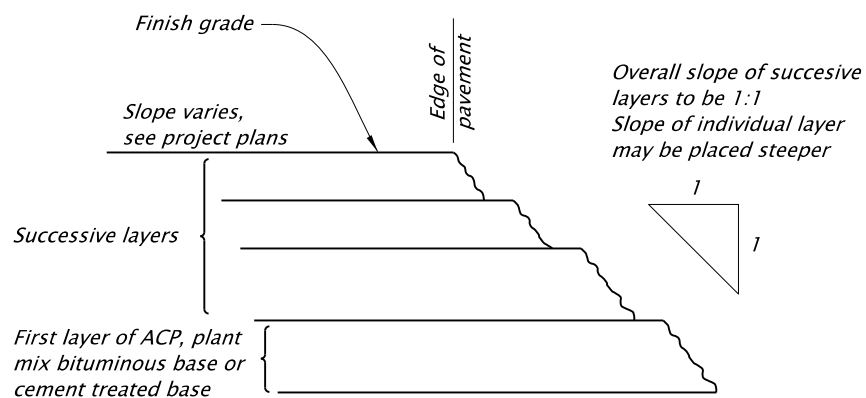
**SAFETY EDGE FOR ASPHALT CONCRETE RECONSTRUCTION (INCLUDING MILL, INLAY AND OVERLAY)**



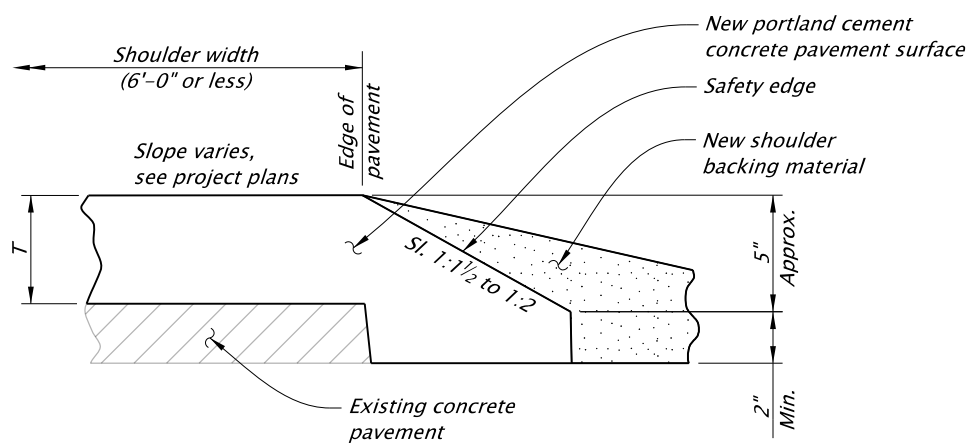
**PAVEMENT THICKNESS (T) GREATER THAN 5"**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Safety edges are required at the outside edges of the paved roadway (edge of travel lane or edge of paved shoulders), where the wearing surface thickness is 2" or greater, except where indicated in the plans.
2. Construct the safety edge at a slope of 1:1 1/2 to 1:2 measured from the pavement surface.
3. Do not construct safety edge at intersections, paved drives, or other obstructions.
4. For total new asphalt depth of "T" ≤ 5", construct the safety edge to the full thickness of the surface and intermediate courses. For total new asphalt depth of "T" > 5", construct the safety edge to a depth of 5" approximately with a 1:1 sloped face below the safety edge.



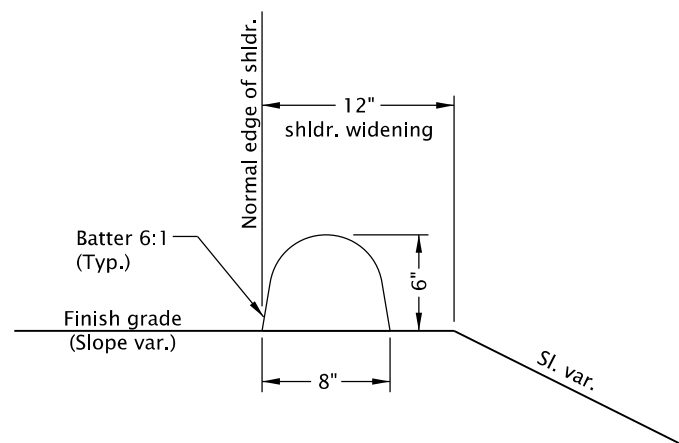
**MULTI-LAYER PAVEMENT CONSTRUCTION**



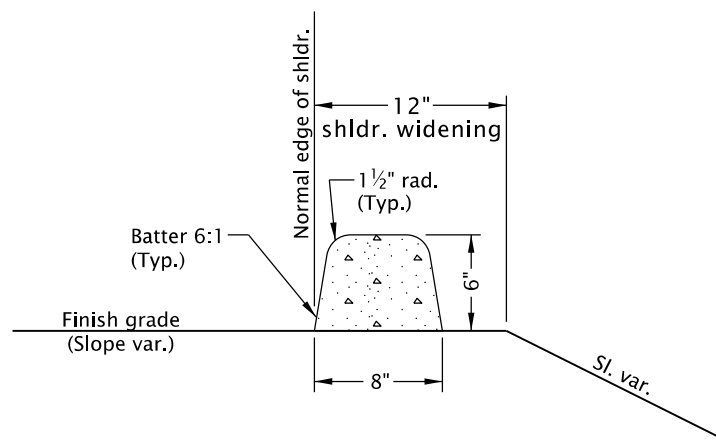
**SAFETY EDGE FOR PORTLAND CEMENT CONCRETE PAVEMENT OVERLAY**

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.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>SURFACE EDGE DETAILS</b>			
2024			
DATE	REVISION	DESCRIPTION	
07-2021	TITLE CHANGED,	REVISED DETAILS AND NOTES	
CALC. BOOK NO.	N/A	SDR DATE	19-JUL-2021
			<b>RD615</b>



ASPHALT CONCRETE

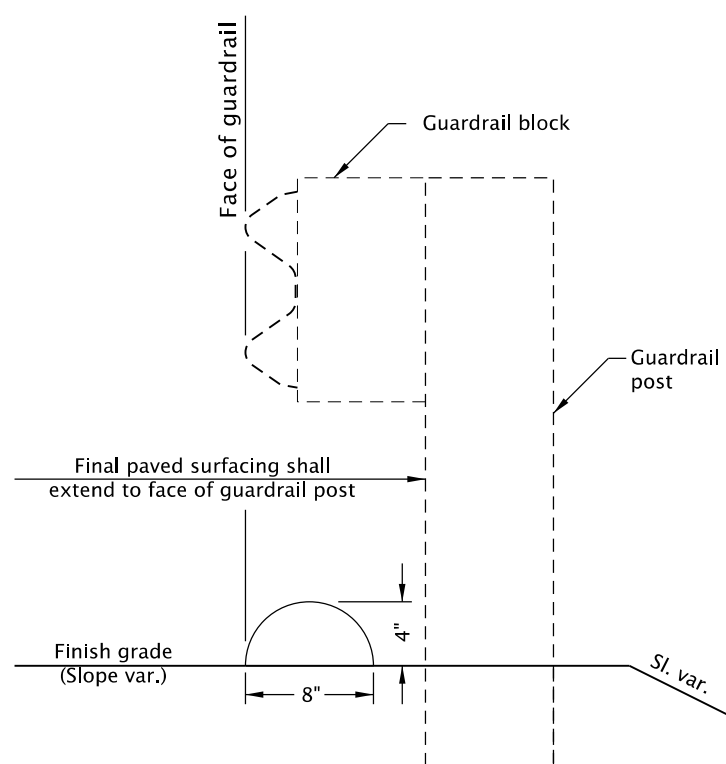


PORTLAND CEMENT CONCRETE

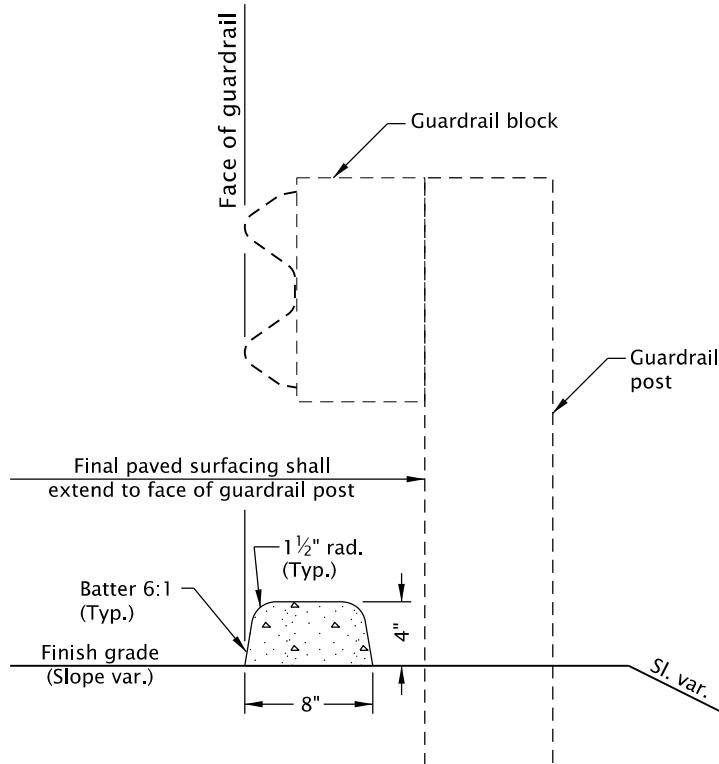
**DRAINAGE CURBS**  
(See general note 4)

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. For PCC drainage curbs, construct curb expansion joints at 200' maximum spacing, and at points of tangency.
2. For PCC drainage curbs, construct curb contraction joints at 15' maximum spacing.
3. Dimensions are nominal, vary to conform with curb machine approved by the engineer.
4. When bonding to dense graded ACP, apply epoxy cement between surfaces.
5. When drainage curb is required, curb alignment shall be the same as face of guardrail, as shown above. When a run of drainage curb, or any part thereof, is placed under guardrail, curb height shall be 4".
6. For other curb types, see Std. Dwg. RD700.
7. For guardrail details not shown, see Std. Dwg. RD400.



ASPHALT CONCRETE



PORTLAND CEMENT CONCRETE

**DRAINAGE CURBS UNDER GUARDRAIL**  
(See general note 4)

*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**

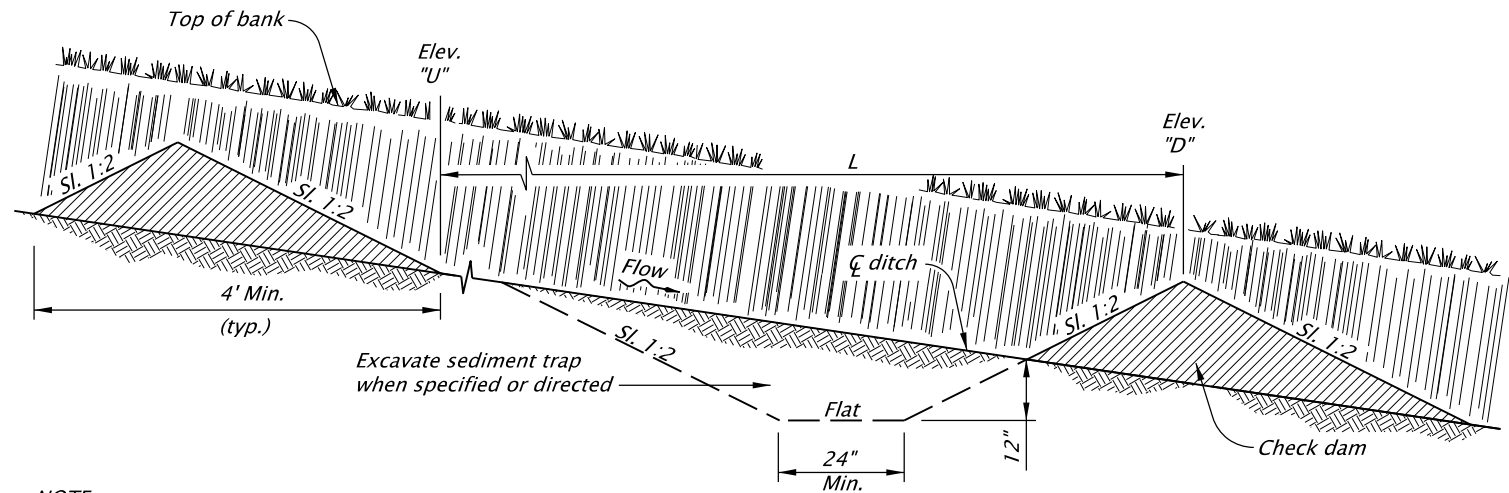
**DRAINAGE CURBS**

2024

DATE	REVISION	DESCRIPTION

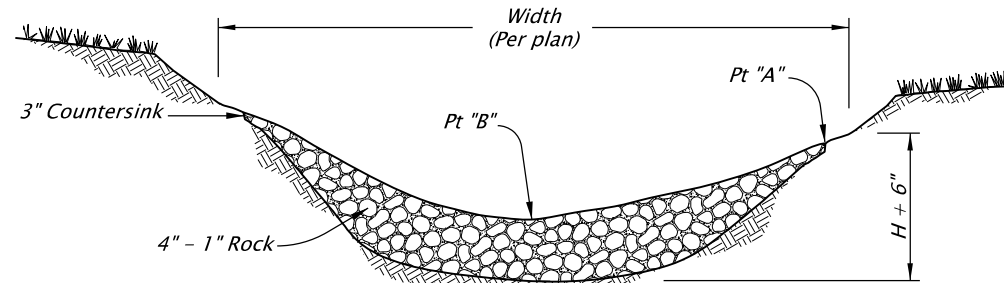
CALC. BOOK NO. ---	N/A ---	SDR DATE-- 20-JUL-2020 --	<b>RD701</b>
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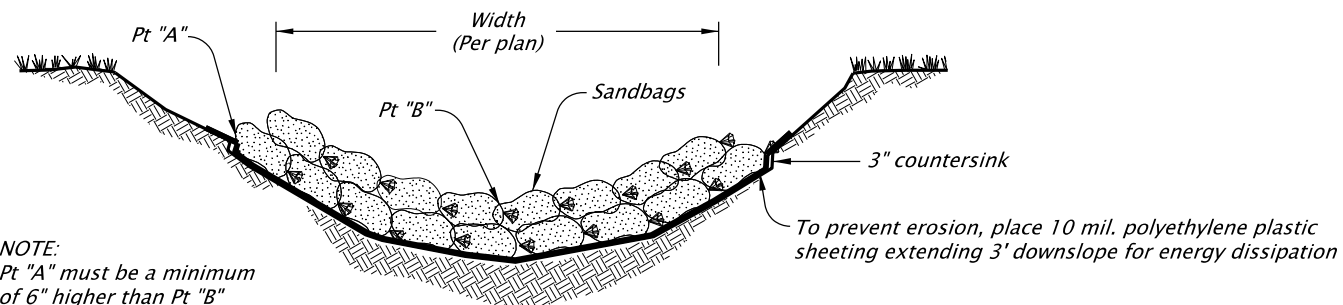
NOTE:  
L = Spacing along swale or ditch so that Elevation "U" equals Elevation "D".

**TYPICAL PROFILE SECTION CHECK DAMS (SHOWN WITH AGGREGATE)**  
NOT TO SCALE



NOTE:  
Pt "A" must be a minimum of 6" higher than Pt "B"

**AGGREGATE CHECK DAM - TYPE 1**  
NOT TO SCALE



NOTE:  
Pt "A" must be a minimum of 6" higher than Pt "B"

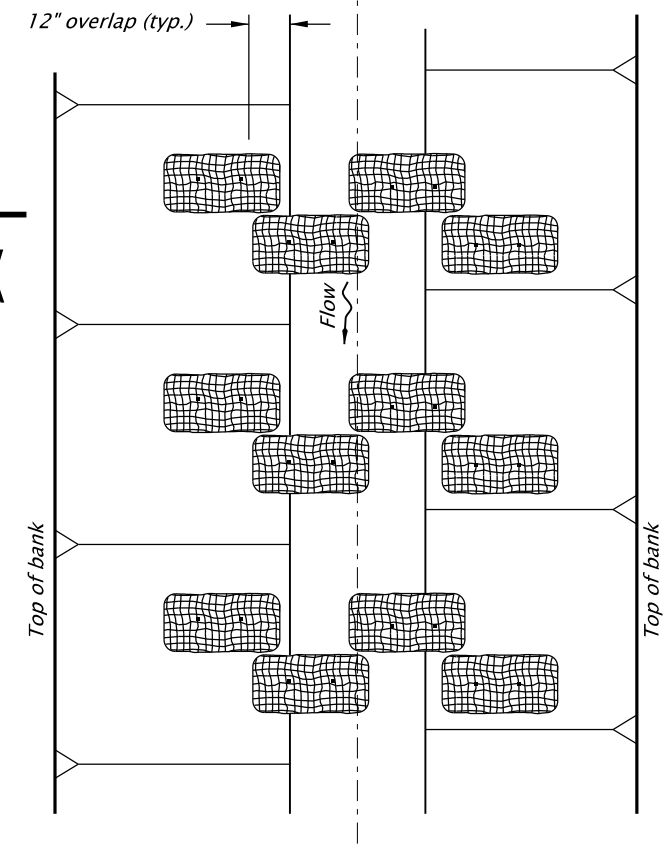
**SANDBAG CHECK DAM - TYPE 4**  
NOT TO SCALE

**NOTES:**

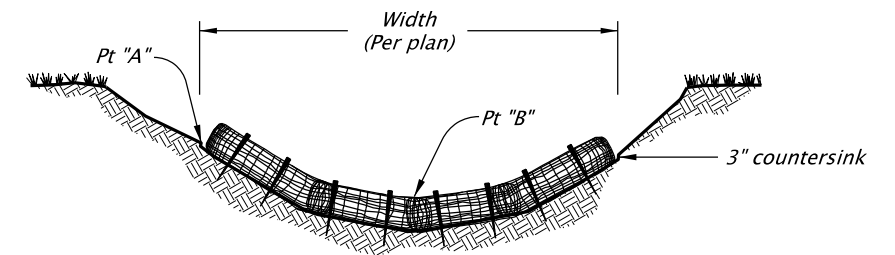
1. Type 3 - stake biofilter bags with two 2"x2"x18" (minimum) wood stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags. Omit stakes if placed over paved surfaces. Overlap bags 12" minimum at each joint.
2. Type 4 - Tightly abut or overlap ends of sandbags at each joint.
3. Spacing between check dams for all check dam types shall comply with the typical profile section shown above.
4. Construct check dams Type 3 or 4 with two bags when installed in paved gutter with curb section.

MAXIMUM CHECK DAM SPACING "L"				
Ditch Grade	H=8"	H=12"	H=18"	H=24"
10%	**	**	15'	20'
9%	**	**	16'	22'
8%	**	**	18'	25'
7%	**	**	21'	28'
6%	**	16'	25'	33'
5%	**	20'	30'	40'
4%	16'	25'	37'	50'
3%	22'	33'	50'	66'
2%	33'	50'	75'	100'

\*\* Not allowed H = Min. dam height



**PLAN**



**SECTION A-A**

**BIOFILTER BAG CHECK DAM - TYPE 3**  
NOT TO SCALE

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**

**CHECK DAMS TYPE 1, 3 AND 4**

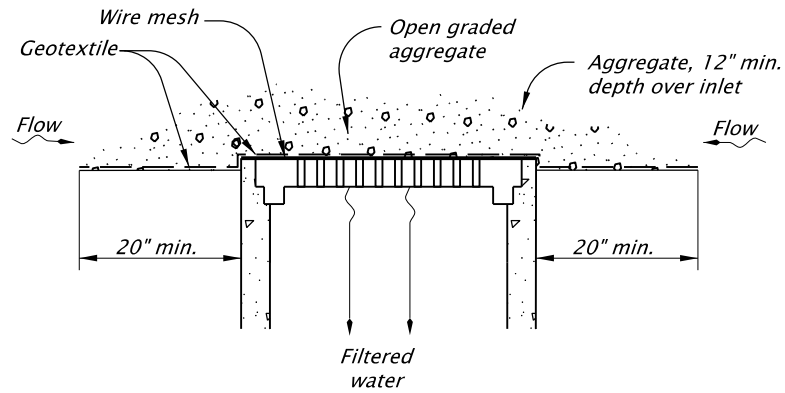
2024

DATE	REVISION	DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS	
07-2024	ADDED NOTE 4	

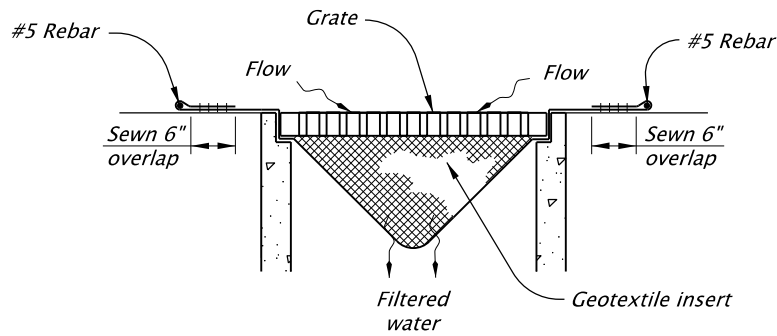
CALC. BOOK NO. --- N/A --- SDR DATE- 12-JUL-2024 - **RD1005**

20-JAN-2021

RD1010.dgn

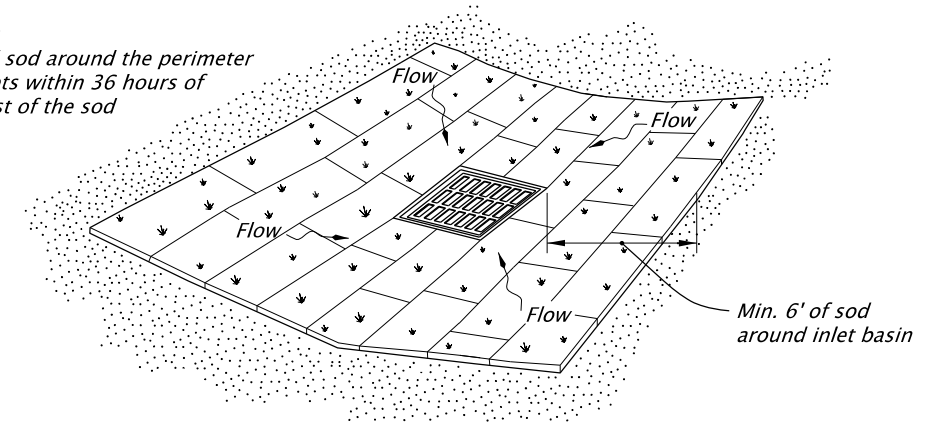


**GEOTEXTILE/WIRE MESH/AGGREGATE - TYPE 2**  
NOT TO SCALE

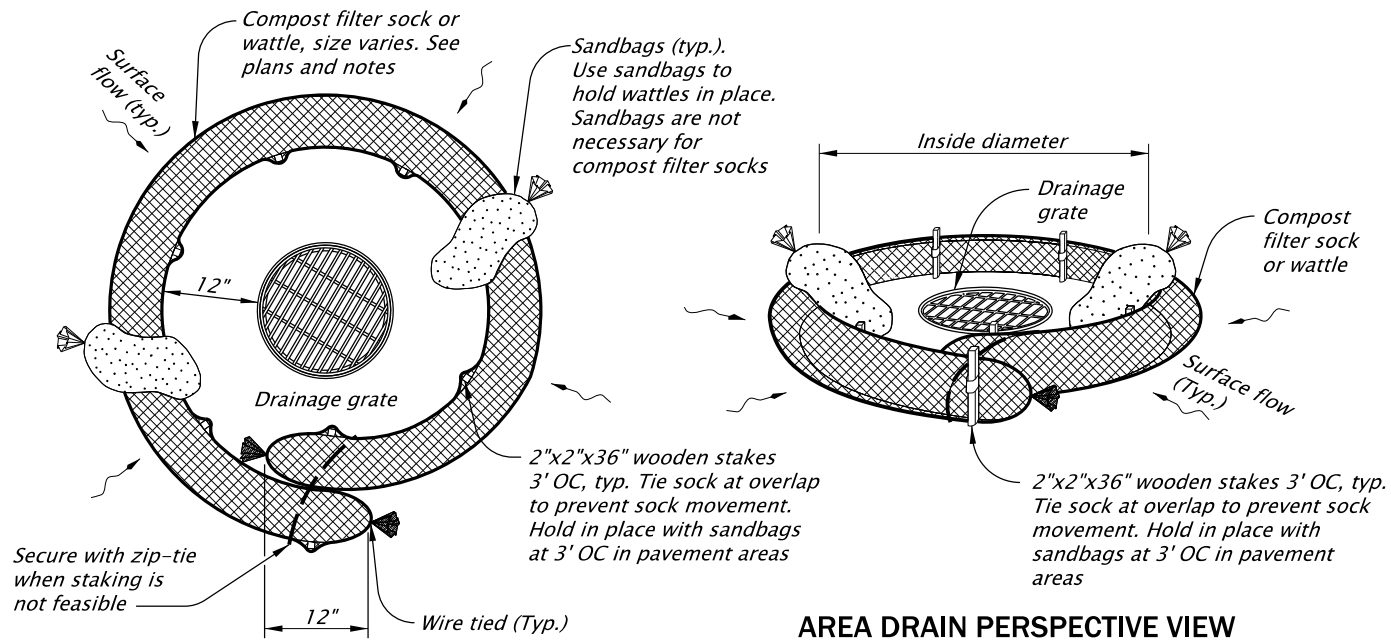


**PREFABRICATED FILTER INSERT - TYPE 3**  
NOT TO SCALE

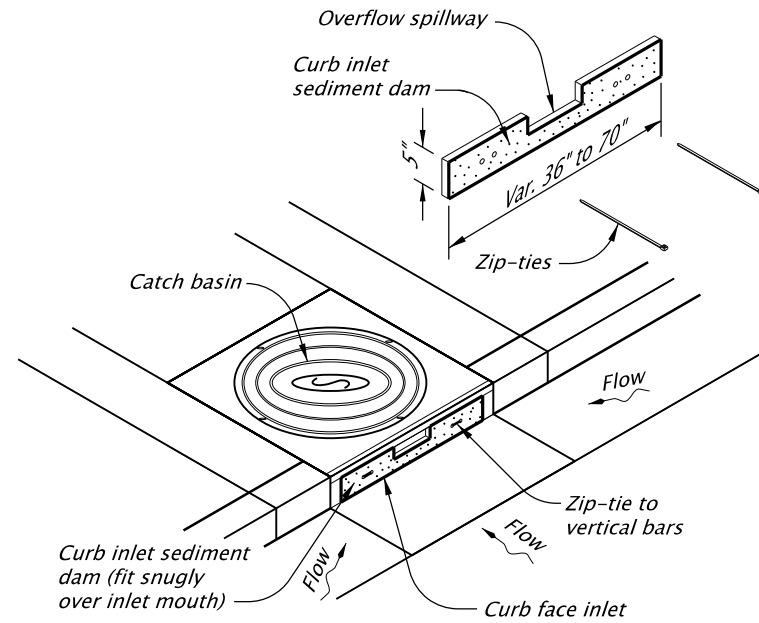
NOTE:  
Install sod around the perimeter  
of inlets within 36 hours of  
harvest of the sod



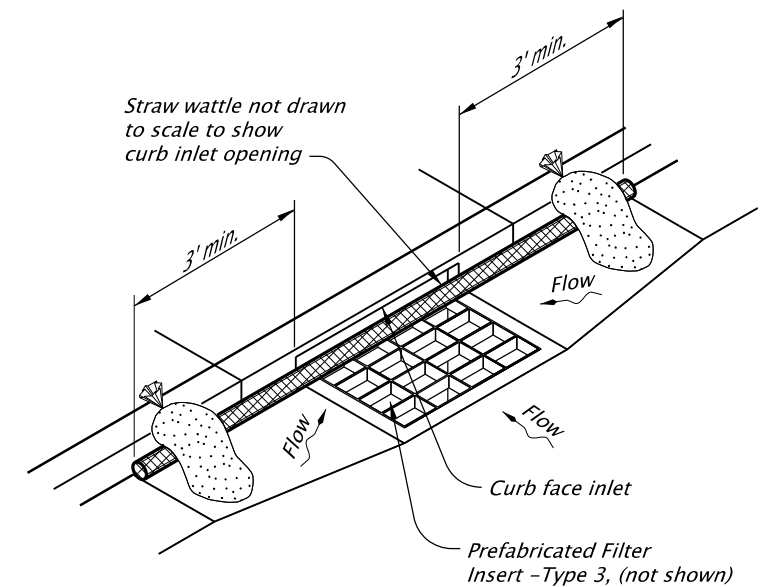
**SOD PROTECTION - TYPE 6**  
NOT TO SCALE



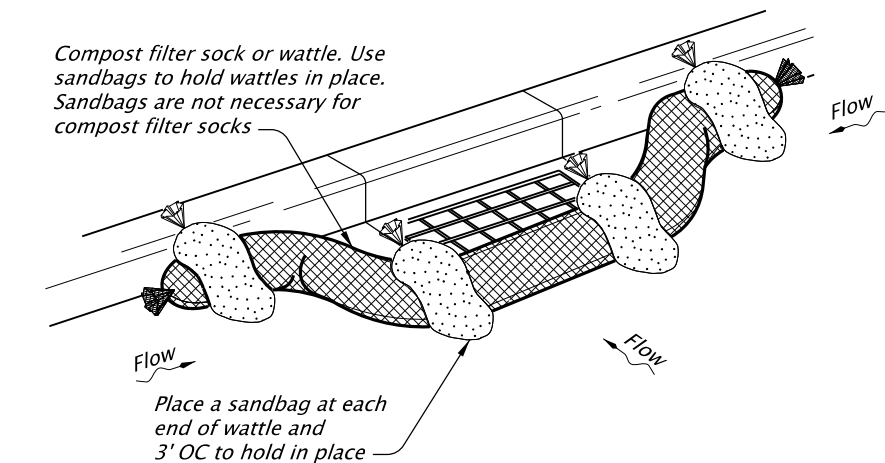
**AREA DRAIN PERSPECTIVE VIEW**



**CURB INLET SEDIMENT DAM - TYPE 10**  
NOT TO SCALE



**WATTLE BARRIER WITH FILTER INSERT - TYPE 11**  
NOT TO SCALE



**COMPOST FILTER SOCK OR WATTLE - TYPE 7**  
NOT TO SCALE

NOTES:  
Type 2 - Geotextile/wire mesh/aggregate  
Place the wire mesh over the grate.  
Place sediment fence geotextile over the  
wire mesh and perimeter area around  
structure.  
Install aggregate over the geotextile fabric.

Type 3 - Prefabricated filter inserts  
Install prefabricated filter inserts according  
to the plans, special provisions, and  
manufacturer recommendations.  
Prefabricated inserts with provisions for  
overflow are allowed only when  
accompanied by additional BMP's to  
prevent the potential of sediments  
entering project storm systems.  
Field fabricated inserts are not allowed.

Type 7 - Compost filter sock  
Drive 2"x2" wood stakes a minimum of  
6" into ground and flush with the top  
of the sock.  
Overlap ends of sock per manufacturers  
recommendations (12" min., 36" max.).  
Use 8" to 12" dia sock on curbside in traffic  
areas.

(Type 7 cont.)  
Use 12" to 18" dia sock in non-traffic areas  
or areas where the larger socks can be  
used safely.  
use synthetic mesh socks for temporary  
installations.

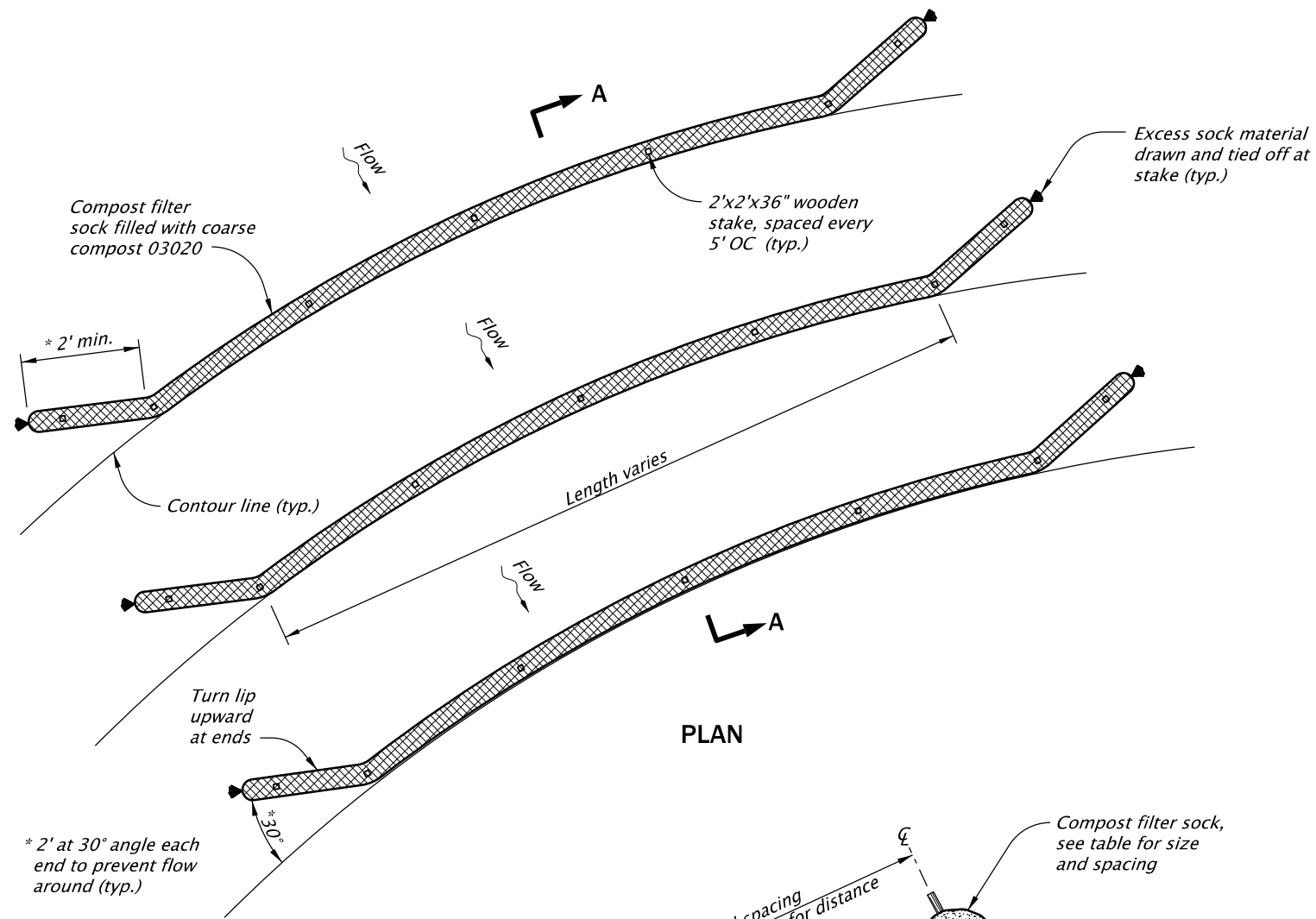
Type 10 - Curb inlet sediment dam  
Fit curb inlet sediment dam snugly into inlet  
mouth. Curb inlet sediment dam is  
required for use with inlet filter insert  
where at-grade inlet grate and curb inlet  
are combined at a catch basin.

Type 11 - Wattle barrier with filter insert  
Install prefabricated filter insert per Type 3  
detail.  
Install wattles over opening and 36" to each  
side of opening tight against curb. Adjust  
wattle to force storm water to flow through  
filter insert or wattle prior to leaving the  
site.  
Adjust, replace or modify the inlet protection  
as needed to prevent sediment laden water  
from entering the catch basin.

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.

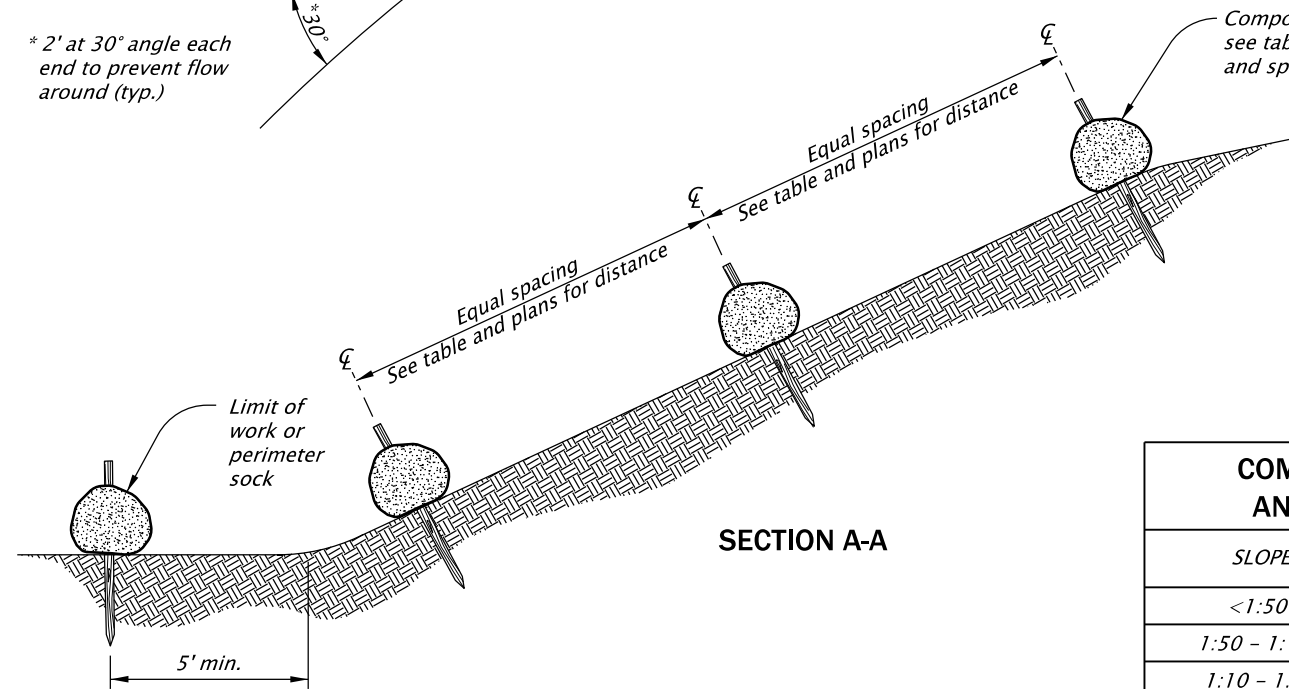
All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>INLET PROTECTION TYPE 2, 3, 6, 7, 10 AND 11</b>			
2024			
DATE	REVISION	DESCRIPTION	
01-2021	REMOVED CALC BOOK NUMBERS		
01-2021	MOVED NOTES UP FROM OVERLAPPING THE SHEET BORDER		
CALC. BOOK NO.	N/A	SDR DATE	20-JAN-2021
			<b>RD1010</b>

Effective Date: December 1, 2024 - May 31, 2025



PLAN

\* 2' at 30° angle each end to prevent flow around (typ.)

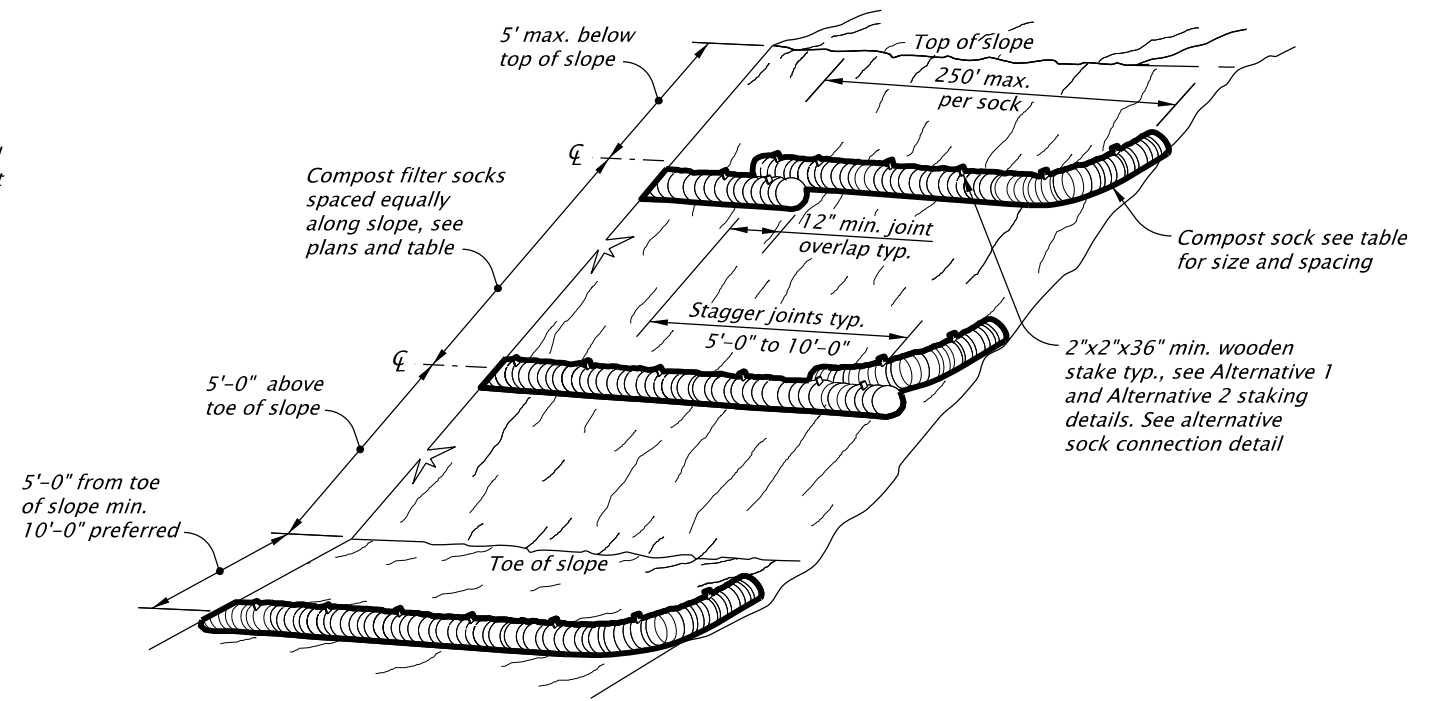


SECTION A-A

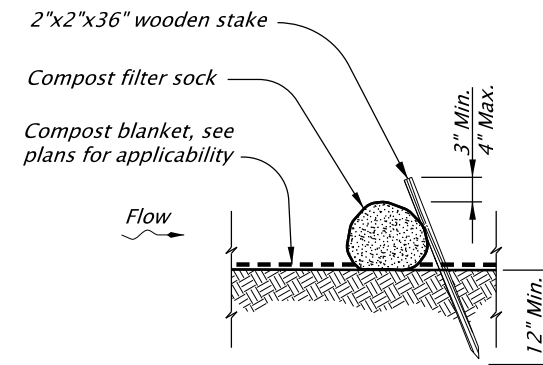
NOTE:  
Fully biodegradable compost sock mesh is recommended for permanent installations. Where compost socks must be moved or removed, synthetic sock mesh should be used.

COMPOST FILTER SOCK DIAMETER AND SPACING BASED ON SLOPE		
SLOPE	SPACING (ft)	DIAMETER (in)
<1:50	250	8
1:50 - 1:10	125	12
1:10 - 1:5	100	12
1:5 - 1:2	50	18
>1:2	25	18

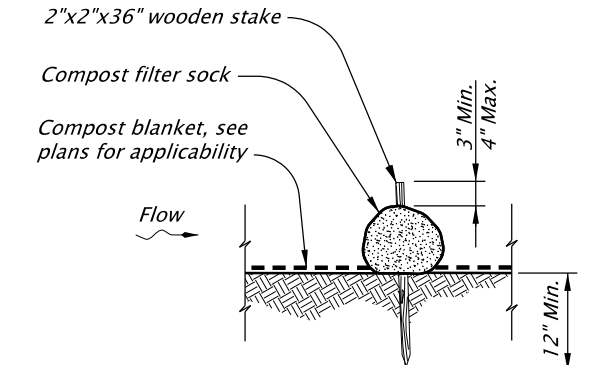
COMPOST FILTER SOCK  
NOT TO SCALE



SLOPE APPLICATION - PERSPECTIVE VIEW



ALTERNATIVE 1 (Staking)



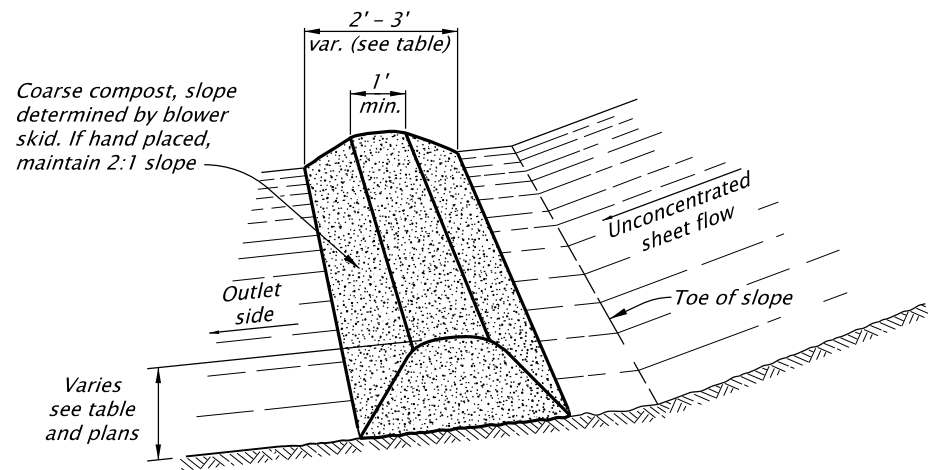
ALTERNATIVE 2 (Staking)

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.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>SEDIMENT BARRIER TYPE 8</b>			
2024			
DATE	REVISION DESCRIPTION		
01-2021	REMOVED CALC BOOK NUMBERS		
CALC. BOOK NO.	N/A	SDR DATE	20-JAN-2021
			<b>RD1032</b>

20-JAN-2021

RD1033.dgn

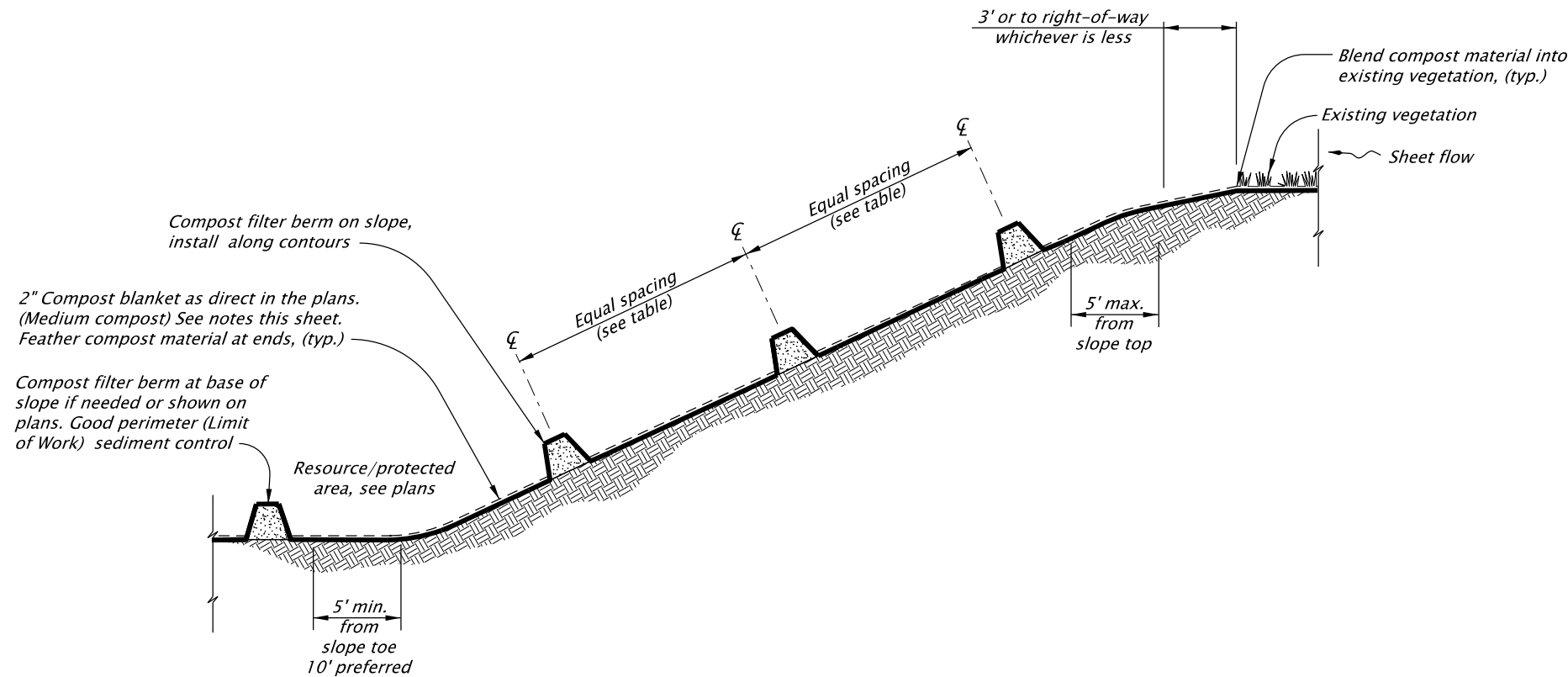


**COMPOST FILTER BERM - TYPE 9**  
NOT TO SCALE

COMPOST FILTER BERM DIMENSIONS AND SPACING BASED ON SLOPE				
SLOPE	BERM SPACING	BERM DIMENSIONS		
		HEIGHT	BOTTOM WIDTH	TOP WIDTH
> 50:1	250 ft	1 ft	2 ft (min.)	1 ft
50:1 - 10:1	125 ft	1 ft	2 ft (min.)	1 ft
10:1 - 5:1	100 ft	1 ft	2 ft (min.)	1 ft
3:1 - 2:1	50 ft	1.3 ft	2.6 ft (min.)	1 ft
> 2:1		1.5 ft	3 ft (min.)	1 ft

**NOTES:**

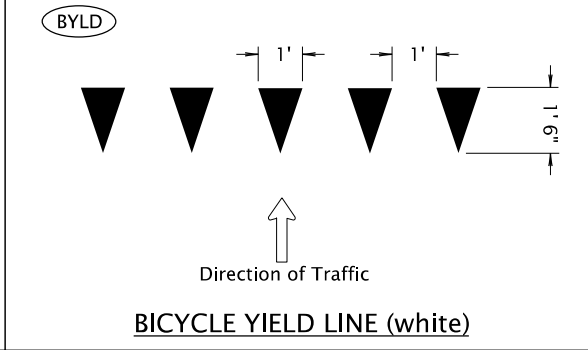
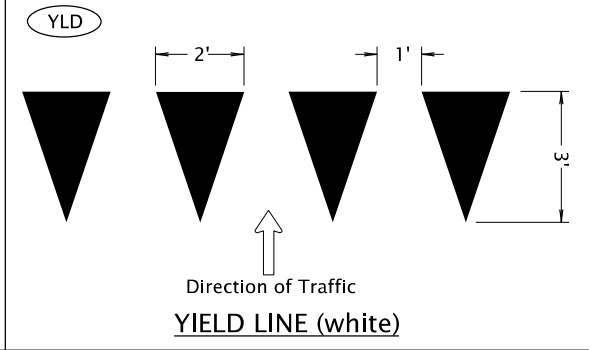
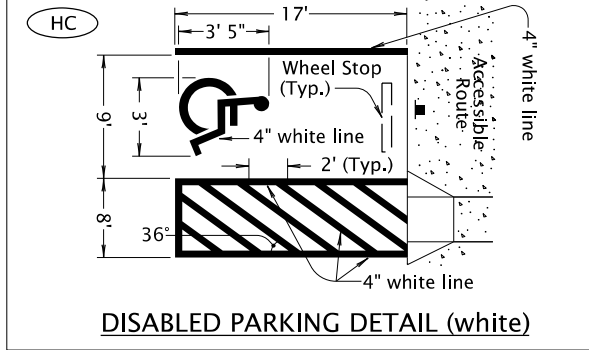
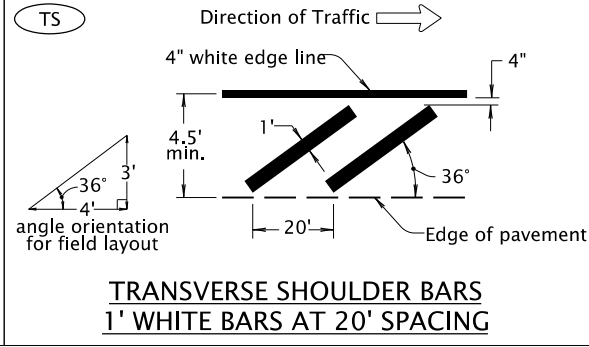
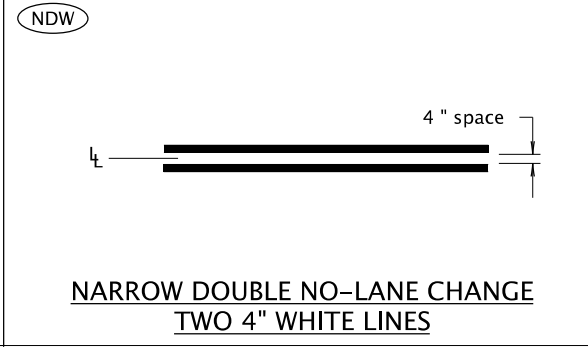
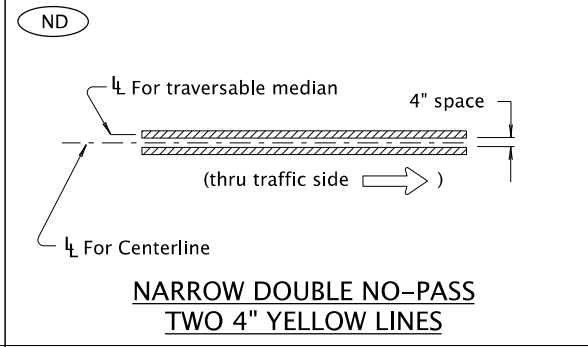
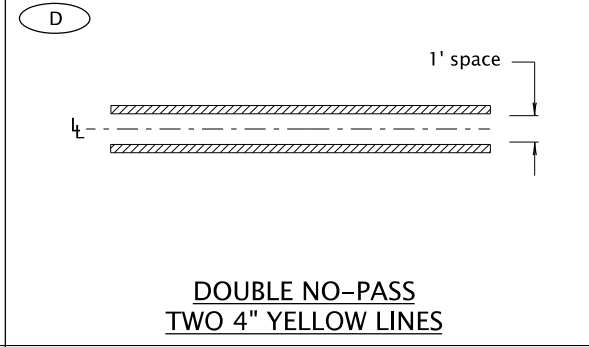
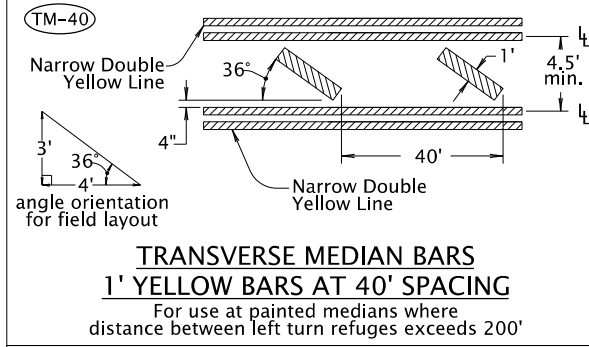
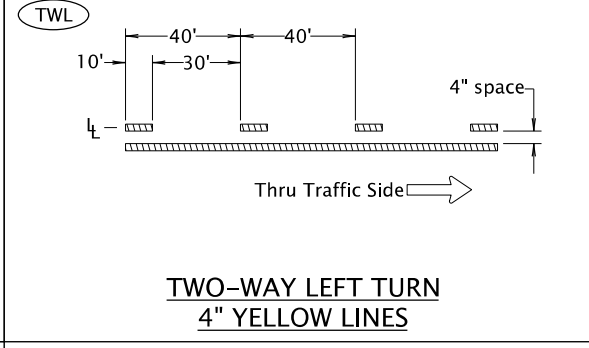
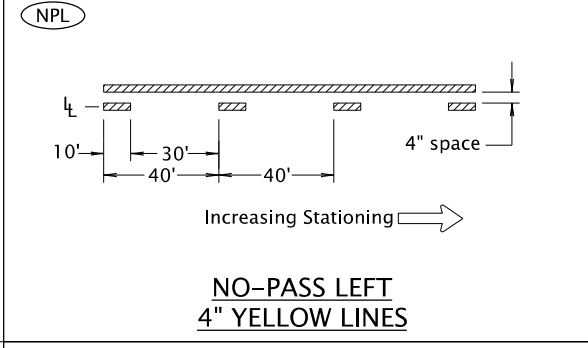
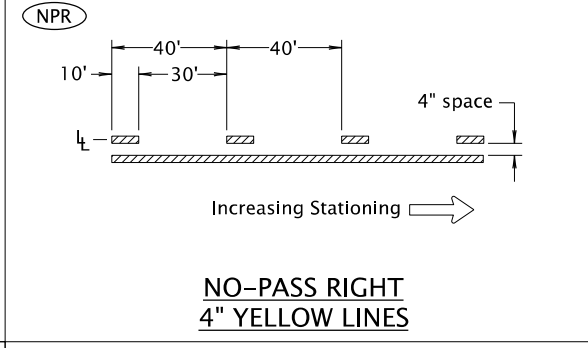
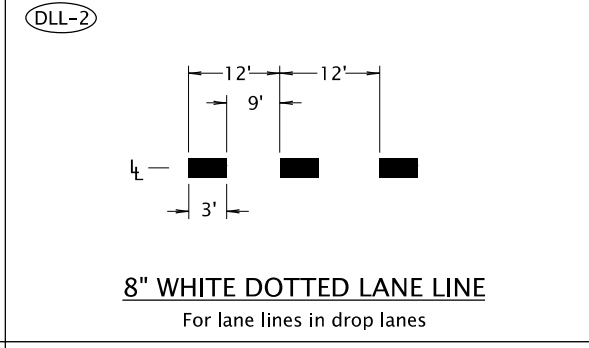
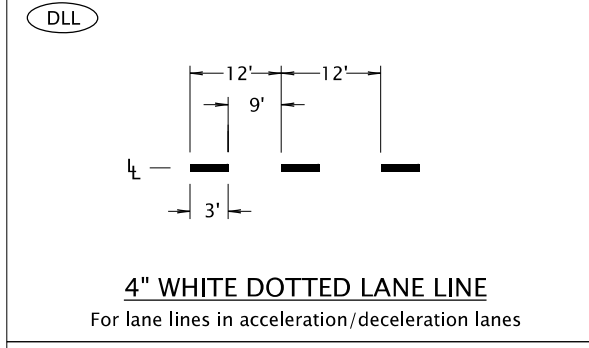
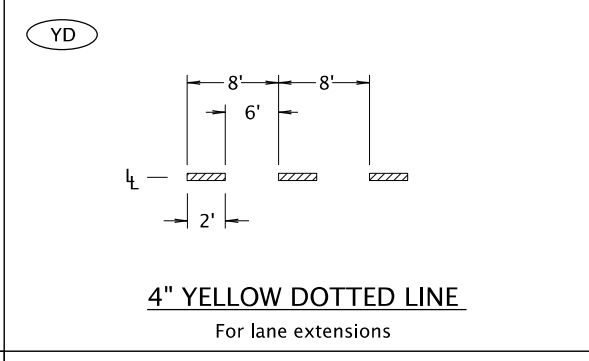
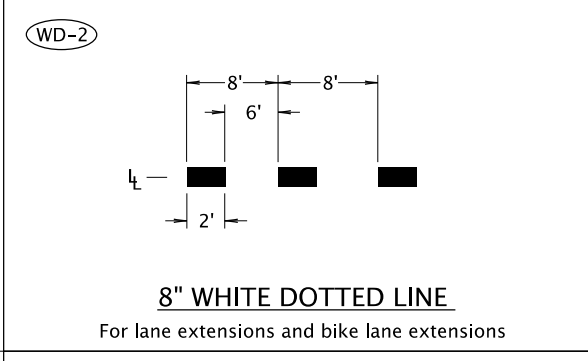
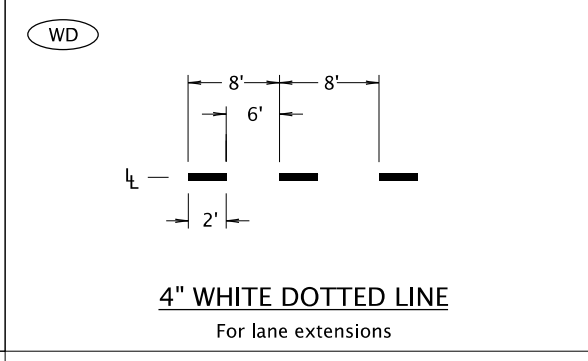
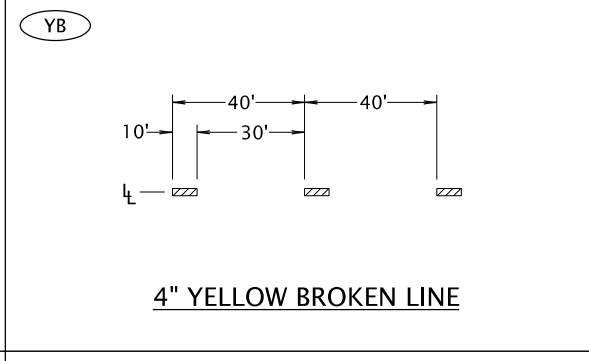
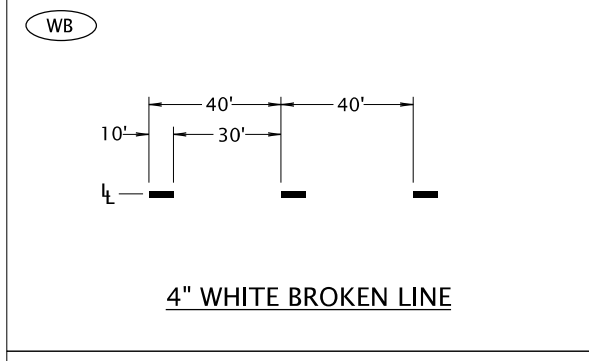
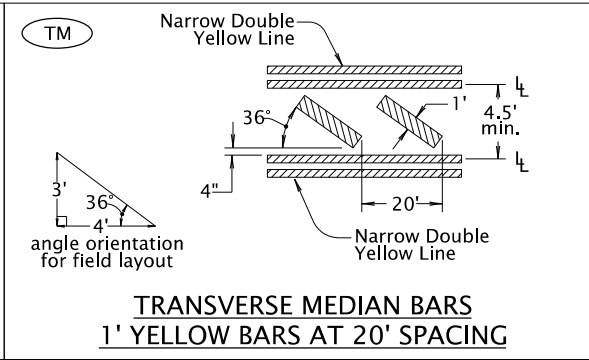
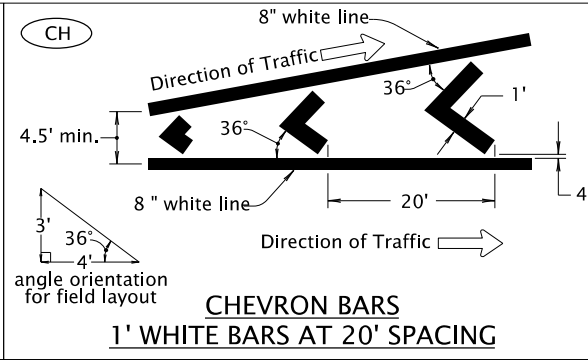
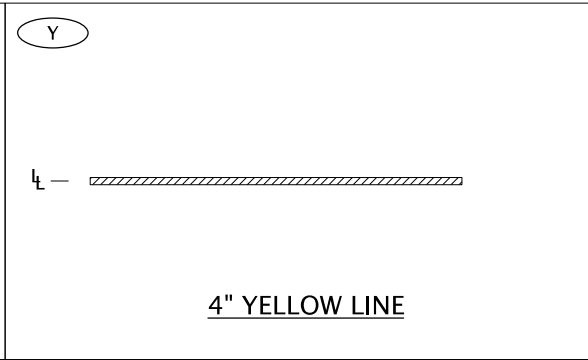
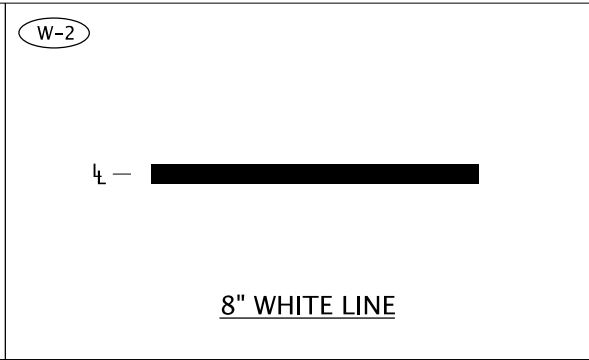
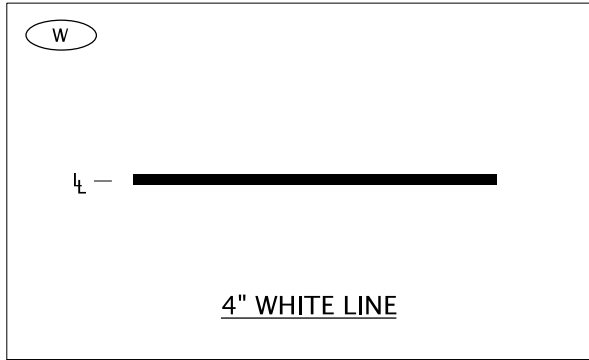
1. Compost filter berm's are sediment control devices for areas where runoff occurs as sheet flow. See Section 00280, Oregon Standard Specifications.
2. The maximum drainage area for a continuous berm shall be 1/4 acre per 100 linear feet of filter berm.
3. Where possible, berm's should be placed away from the toe of slopes a minimum of 5 feet (10 feet preferred) to allow for energy dissipation and sediment storage.
4. Direct the outlet side of filter berm, located at base of slope, onto a stabilized area, such as vegetation and/or aggregate.
5. Place filter berm's along or on the ground contour with the ends of the filter berm turned up slope. Adequate area shall be provided behind berm for ponding.
6. Compost filter berm's may be vegetated with temporary or permanent seeding after placement.
7. If placed in area with existing ground vegetation, cut vegetation to 2-4 inches above grade at berm footprint. Do not remove existing vegetation or cut back outside berm footprint unless directed by Agency.
8. If soils are exposed apply compost blanket per details and specifications.



**COMPOST FILTER BERM SERIES**  
NOT TO SCALE

<p>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.</p>		All materials shall be in accordance with the current Oregon Standard Specifications.	
		<b>OREGON STANDARD DRAWINGS</b>	
		<b>SEDIMENT BARRIER TYPE 9</b>	
		2024	
DATE	REVISION	DESCRIPTION	
01-2021	REMOVED	CALC BOOK NUMBERS	
CALC. BOOK NO.	N/A	SDR DATE	20-JAN-2021
			<b>RD1033</b>

Effective Date: December 1, 2024 – May 31, 2025



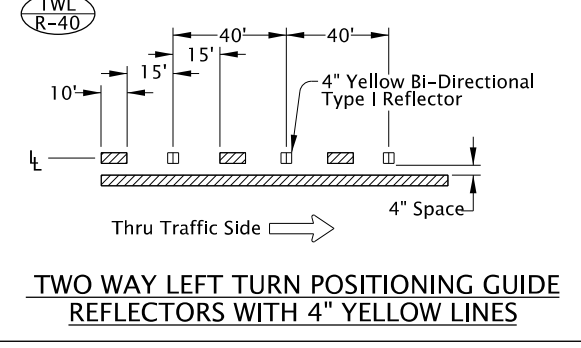
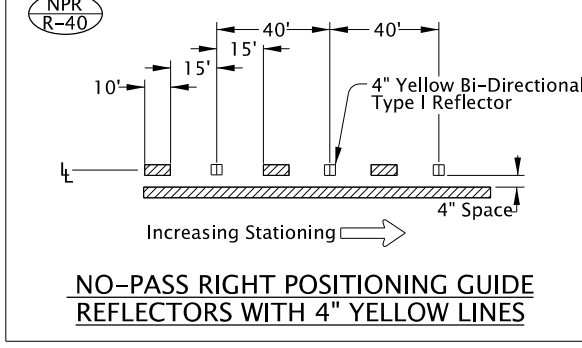
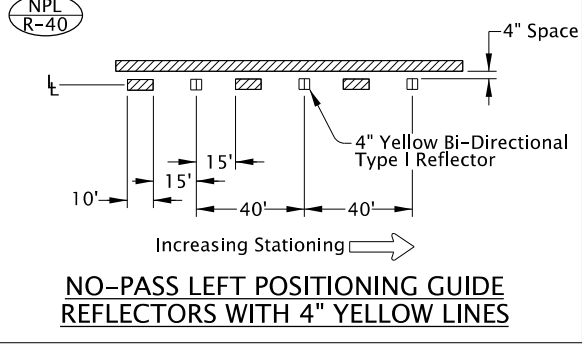
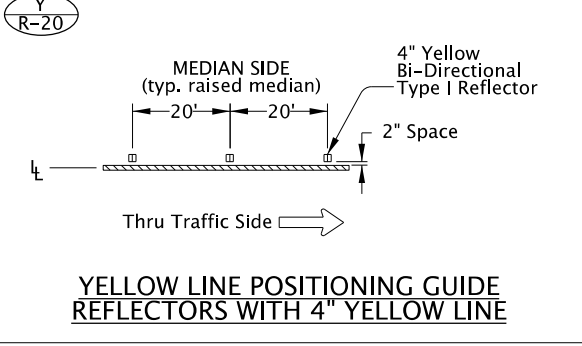
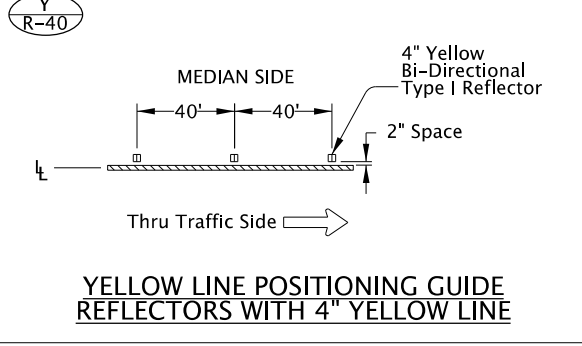
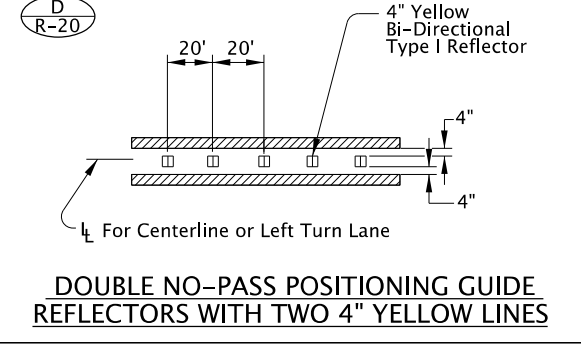
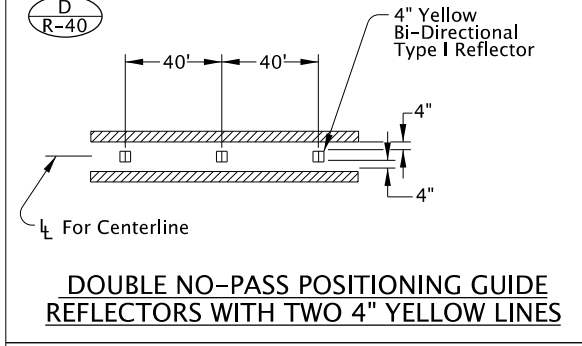
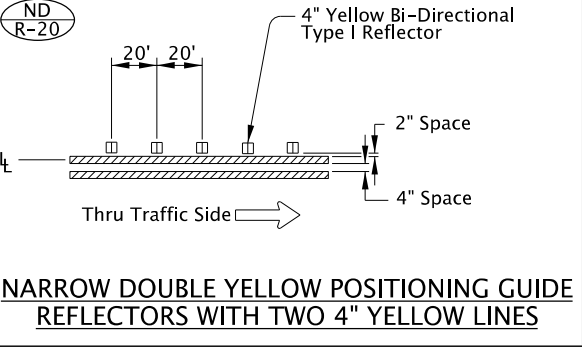
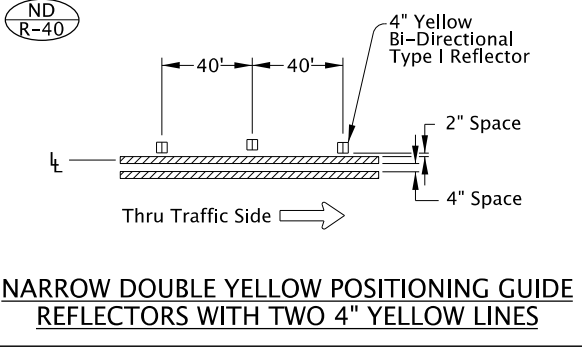
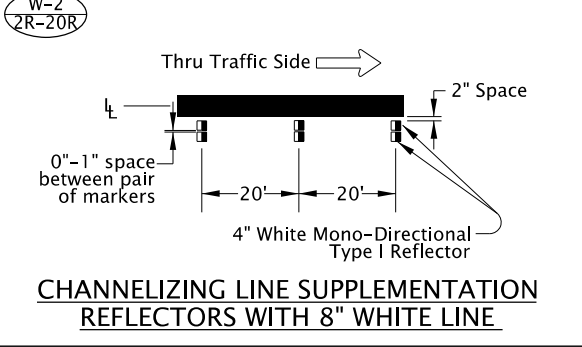
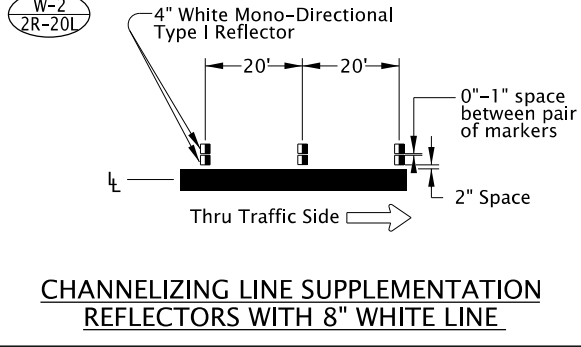
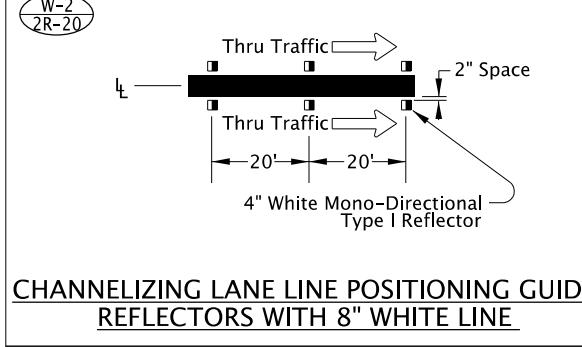
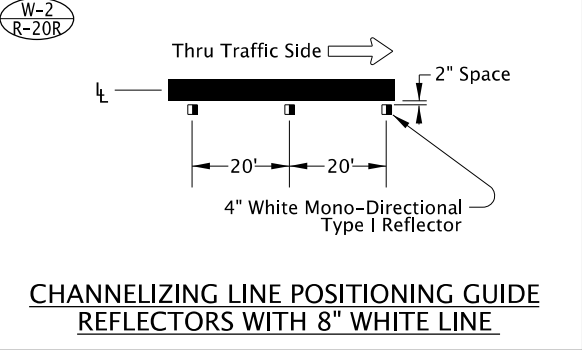
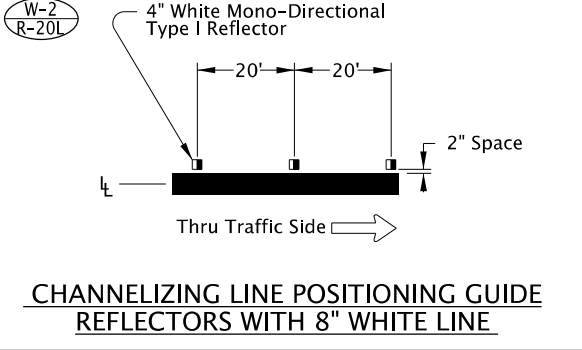
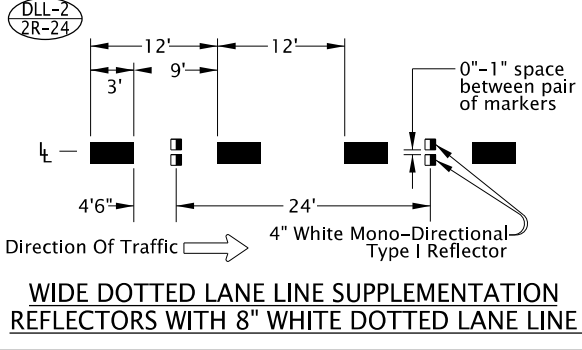
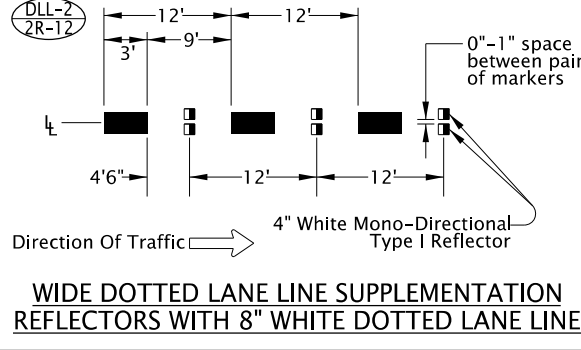
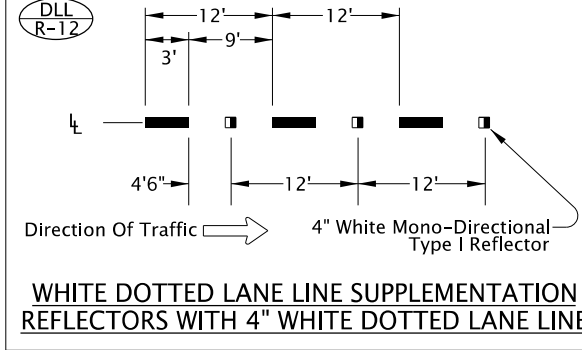
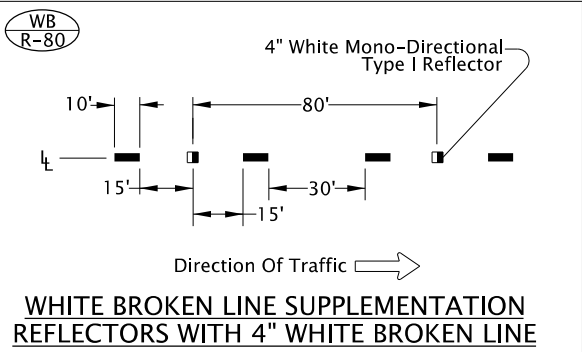
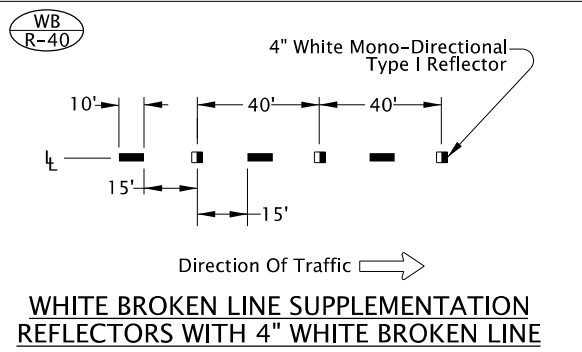
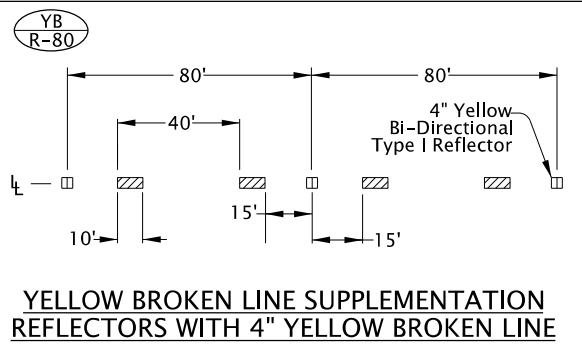
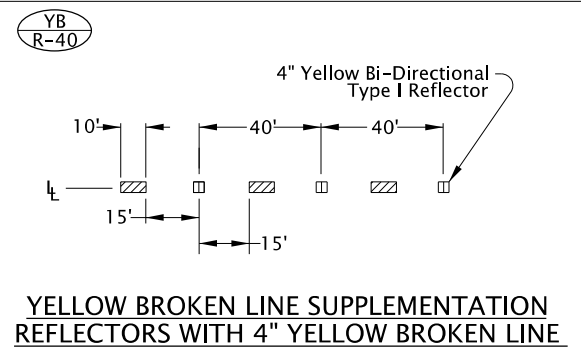
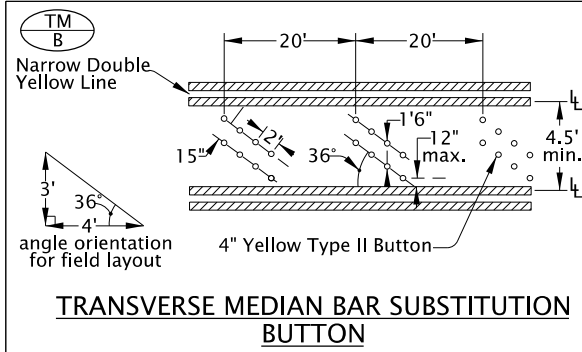
LEGEND

← Direction Of Traffic, Increasing Stationing Or Thru Traffic Side

⊥ Lane line dimensions are shown on the striping plans

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<b>OREGON STANDARD DRAWINGS</b>	
<b>PAVEMENT MARKING STANDARD DETAIL BLOCKS</b>	
2024	
DATE	REVISION DESCRIPTION
07-2020	Changed Min. widths for CH, TM, TM-40, and TS
CALC. BOOK NO.	SDR DATE
N/A	07-01-2020
<b>TM500</b>	



General note:  
1) Surface mount Raised Pavement Markers (RPMs) unless otherwise specified.

- LEGEND**
- ← Direction Of Travel, Increasing Stationing or Thru Traffic Side
  - ⊥ Lane line dimensions are shown on the striping plans
  - Mono-directional crystal white marker reflects white to the left in this symbol
  - Bi-directional yellow marker reflects yellow both left and right in this symbol

*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.

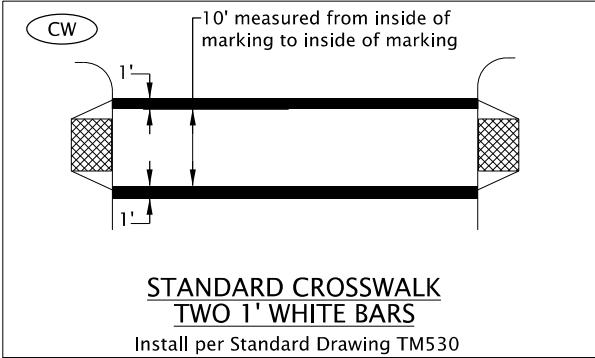
**OREGON STANDARD DRAWINGS**

**PAVEMENT MARKING STANDARD DETAIL BLOCKS**

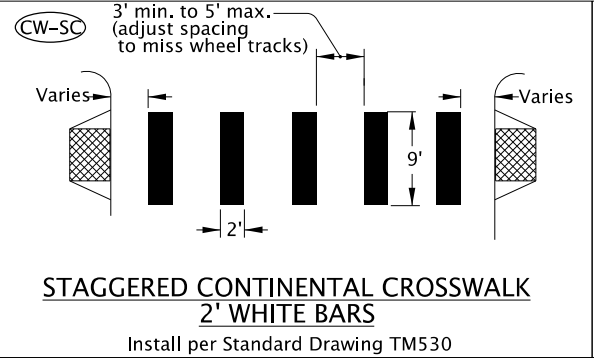
2024

DATE	REVISION	DESCRIPTION
07-2020	Changed min. width of TM/B from 6' to 4.5'	
01-2022	Removed "LANE" from W-2/R-20R title	

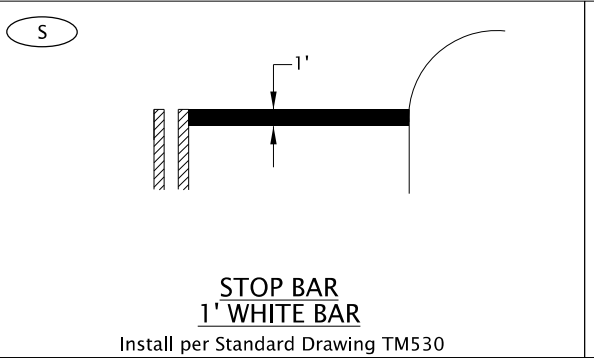
CALC. BOOK NO. --- N/A ---	SDR DATE: 01-03-2022	<b>TM502</b>
----------------------------	----------------------	--------------



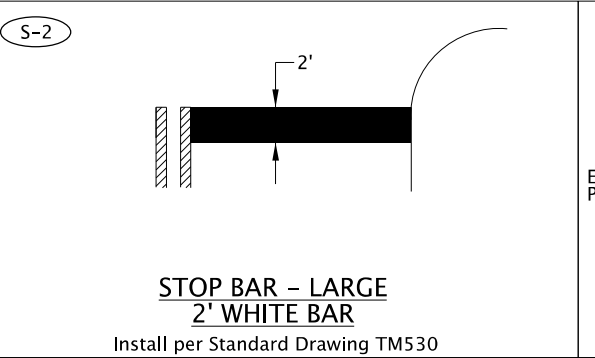
**STANDARD CROSSWALK**  
**TWO 1' WHITE BARS**  
Install per Standard Drawing TM530



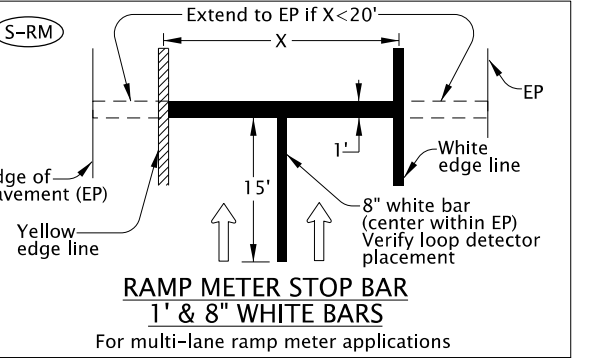
**STAGGERED CONTINENTAL CROSSWALK**  
**2' WHITE BARS**  
Install per Standard Drawing TM530



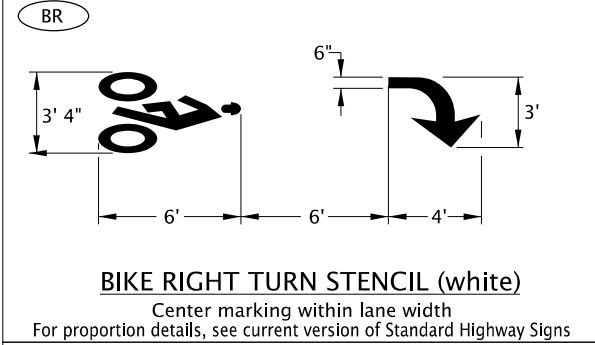
**STOP BAR**  
**1' WHITE BAR**  
Install per Standard Drawing TM530



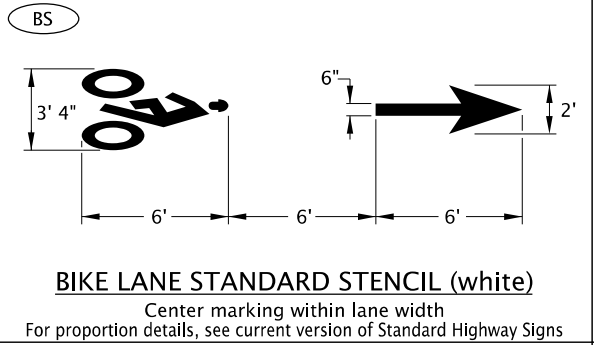
**STOP BAR - LARGE**  
**2' WHITE BAR**  
Install per Standard Drawing TM530



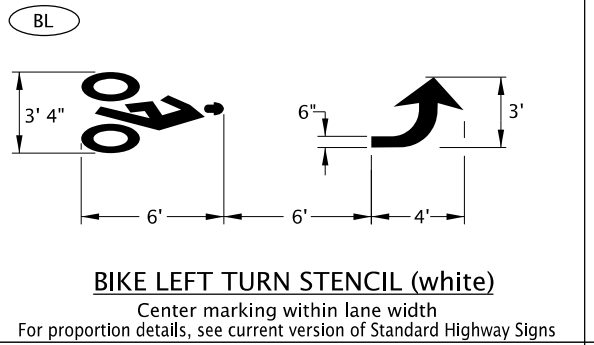
**RAMP METER STOP BAR**  
**1' & 8" WHITE BARS**  
For multi-lane ramp meter applications



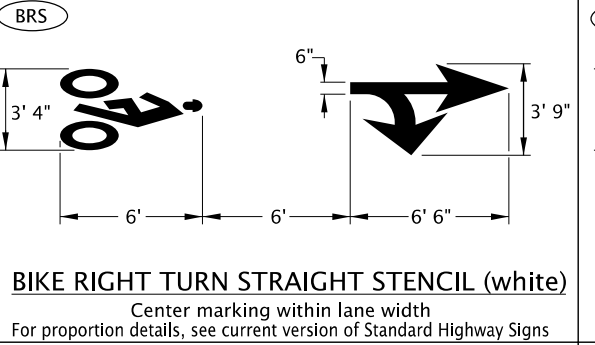
**BIKE RIGHT TURN STENCIL (white)**  
Center marking within lane width  
For proportion details, see current version of Standard Highway Signs



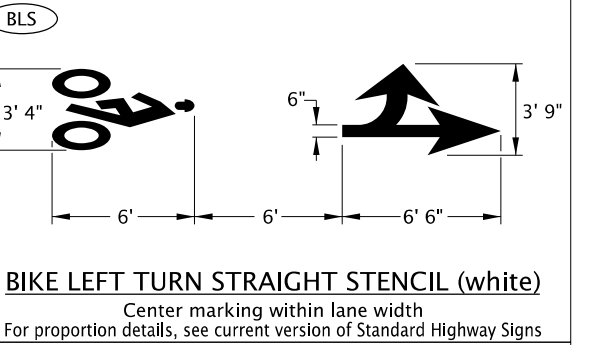
**BIKE LANE STANDARD STENCIL (white)**  
Center marking within lane width  
For proportion details, see current version of Standard Highway Signs



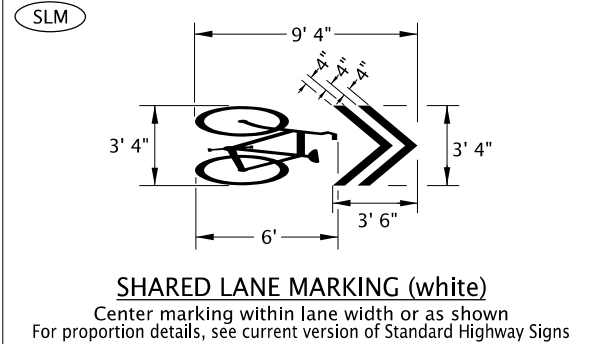
**BIKE LEFT TURN STENCIL (white)**  
Center marking within lane width  
For proportion details, see current version of Standard Highway Signs



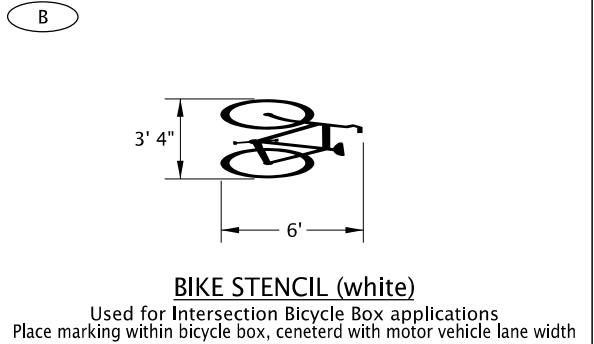
**BIKE RIGHT TURN STRAIGHT STENCIL (white)**  
Center marking within lane width  
For proportion details, see current version of Standard Highway Signs



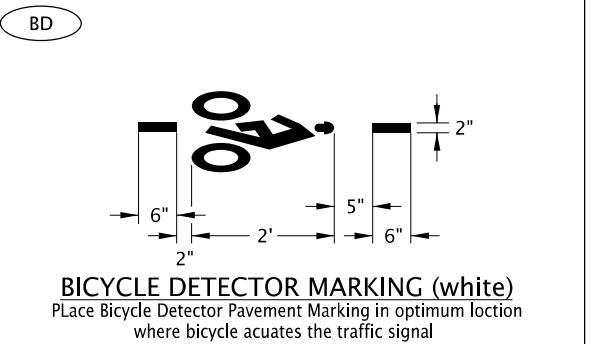
**BIKE LEFT TURN STRAIGHT STENCIL (white)**  
Center marking within lane width  
For proportion details, see current version of Standard Highway Signs



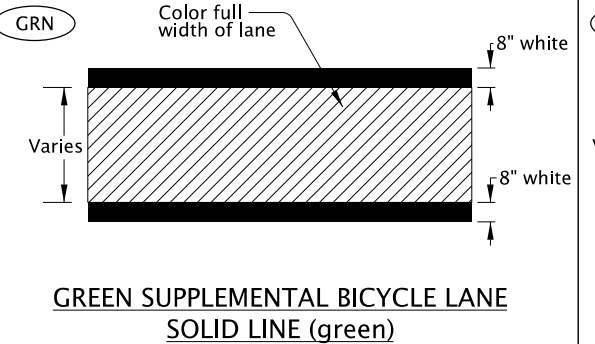
**SHARED LANE MARKING (white)**  
Center marking within lane width or as shown  
For proportion details, see current version of Standard Highway Signs



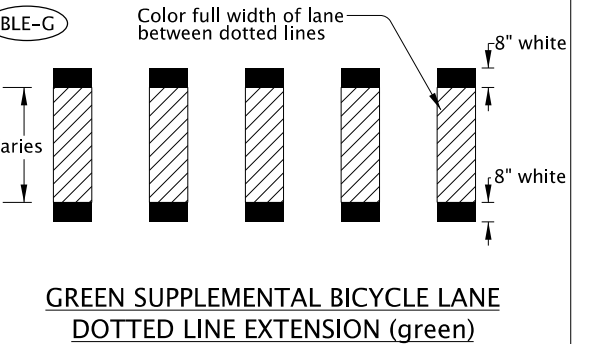
**BIKE STENCIL (white)**  
Used for Intersection Bicycle Box applications  
Place marking within bicycle box, centered with motor vehicle lane width



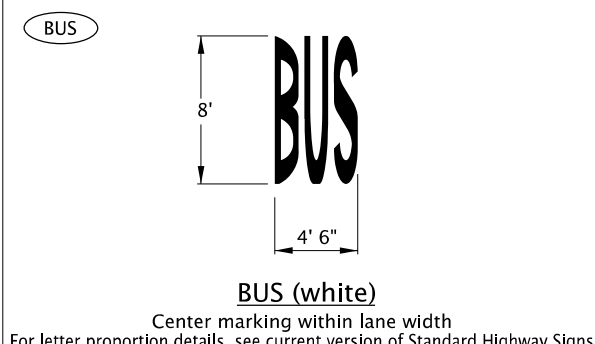
**BICYCLE DETECTOR MARKING (white)**  
Place Bicycle Detector Pavement Marking in optimum location where bicycle acuates the traffic signal



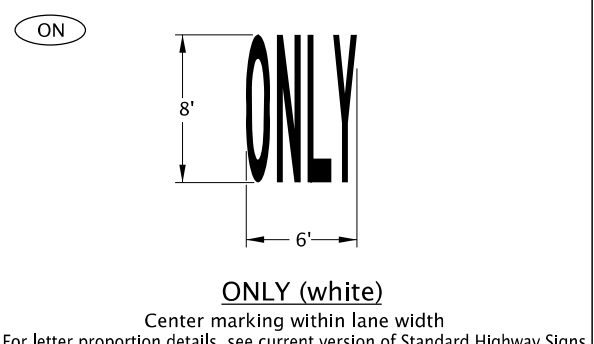
**GREEN SUPPLEMENTAL BICYCLE LANE**  
**SOLID LINE (green)**



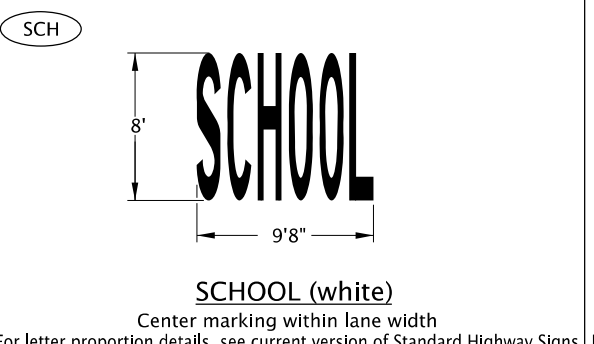
**GREEN SUPPLEMENTAL BICYCLE LANE**  
**DOTTED LINE EXTENSION (green)**



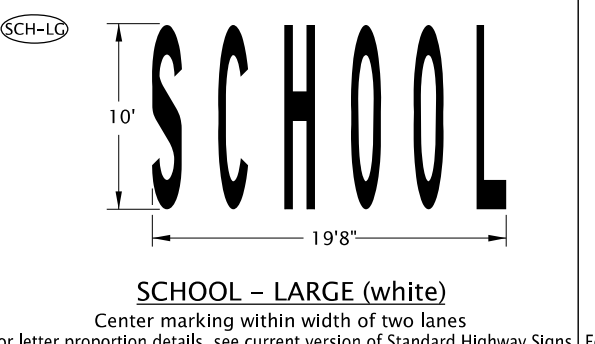
**BUS (white)**  
Center marking within lane width  
For letter proportion details, see current version of Standard Highway Signs



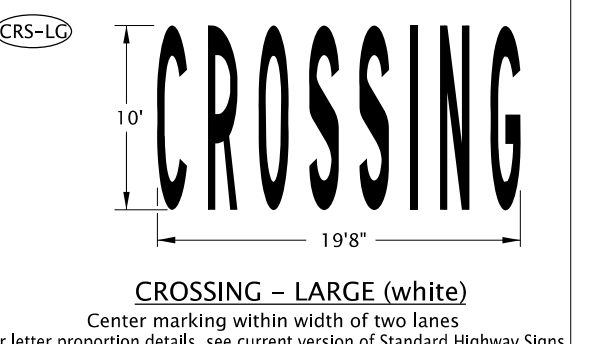
**ONLY (white)**  
Center marking within lane width  
For letter proportion details, see current version of Standard Highway Signs



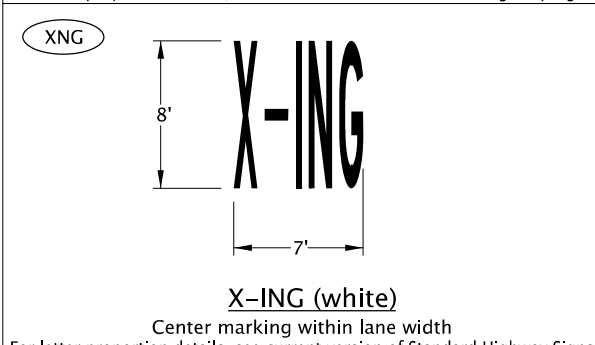
**SCHOOL (white)**  
Center marking within lane width  
For letter proportion details, see current version of Standard Highway Signs



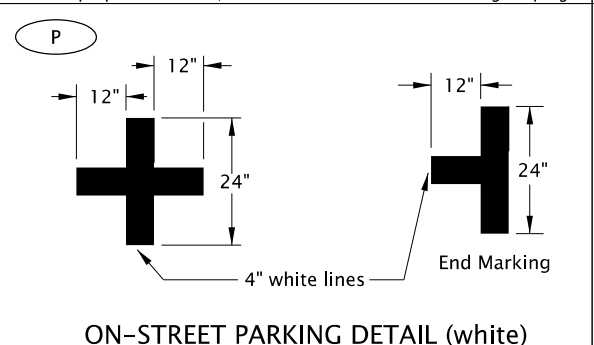
**SCHOOL - LARGE (white)**  
Center marking within width of two lanes  
For letter proportion details, see current version of Standard Highway Signs



**CROSSING - LARGE (white)**  
Center marking within width of two lanes  
For letter proportion details, see current version of Standard Highway Signs



**X-ING (white)**  
Center marking within lane width  
For letter proportion details, see current version of Standard Highway Signs



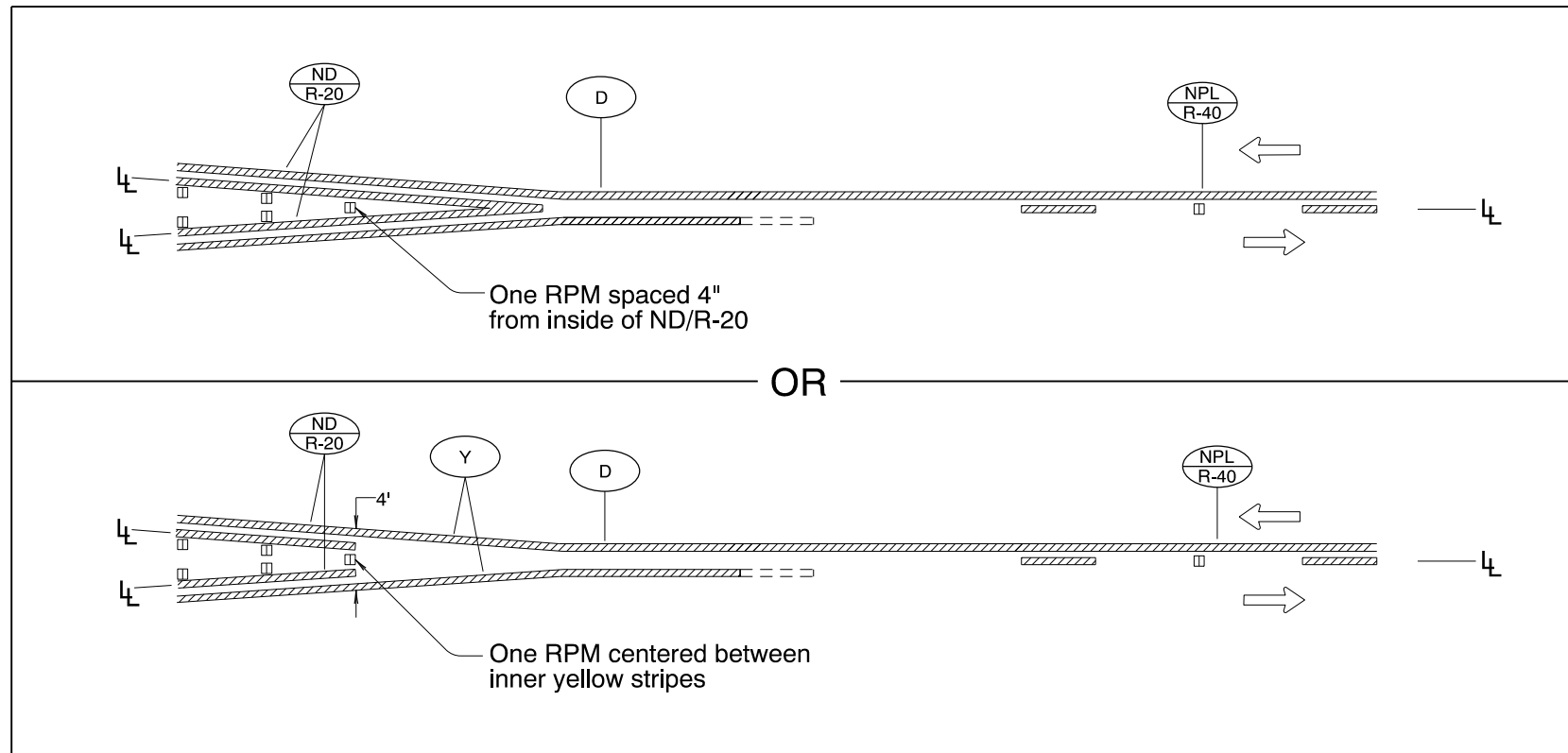
**ON-STREET PARKING DETAIL (white)**

**General Note:**  
1. Arrow, letter, and bike symbol dimensions nominal.

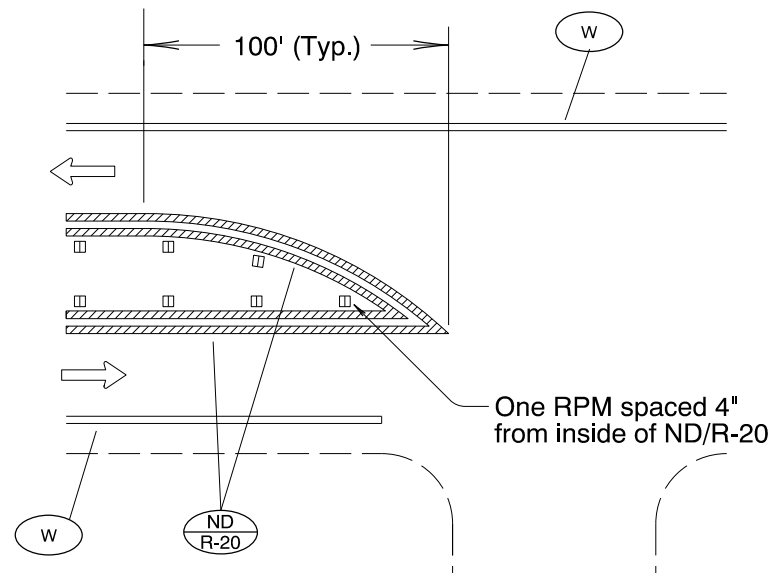


*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

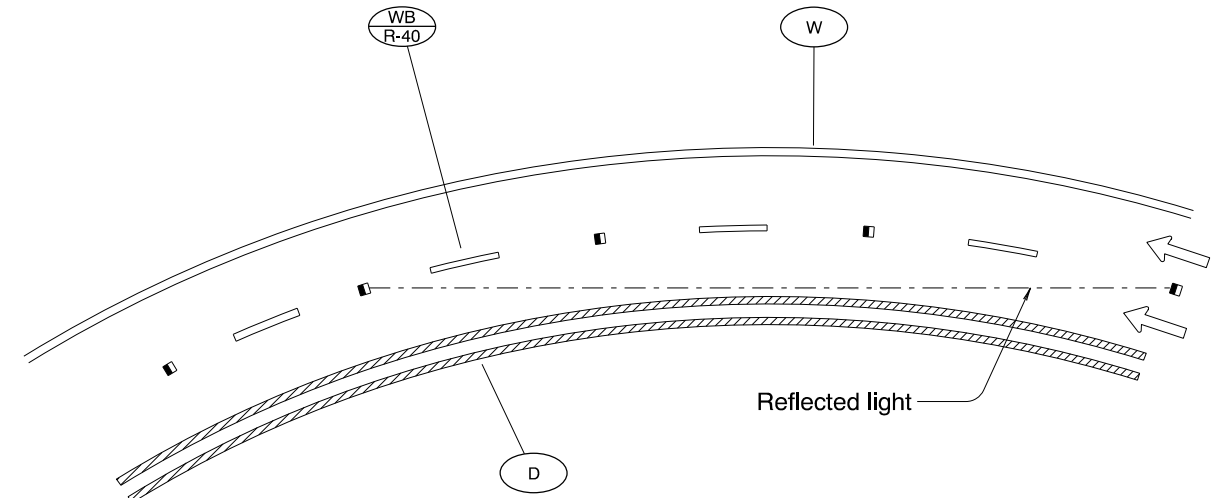
All materials shall be in accordance with the current Oregon Standard Specifications.		
<b>OREGON STANDARD DRAWINGS</b>		
<b>PAVEMENT MARKING</b>		
<b>STANDARD DETAIL BLOCKS</b>		
2024		
DATE	REVISION DESCRIPTION	
07-2022	Added note for measurement of Standard Crosswalk	
CALC. BOOK NO. - - -	N/A - - -	SDR DATE - 07-08-2022 -
		<b>TM503</b>



**MEDIAN WIDTH TRANSITION**  
 (TWO NARROW DOUBLE YELLOW LINES TO ONE-DIRECTION NO-PASSING LINE)  
 (Refer to TM539 for additional details)

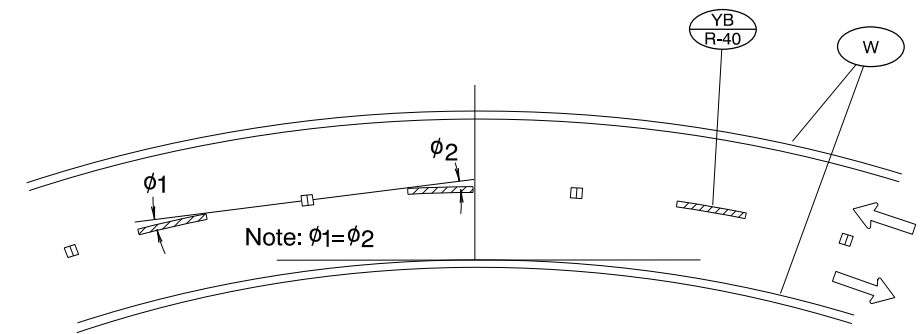


**MEDIAN BULLNOSE DETAIL**



**NOTE:**  
 On one way sections the marker shall be installed with the reflective surface aimed to direct the reflected light back three markers.

(a) PAVEMENT MARKER INSTALLATION FOR MONO-DIRECTIONAL RAISED PAVEMENT MARKERS



(b) PAVEMENT MARKER INSTALLATION FOR BI-DIRECTIONAL RAISED PAVEMENT MARKERS

**PAVEMENT MARKER INSTALLATION ON HORIZONTAL CURVES**

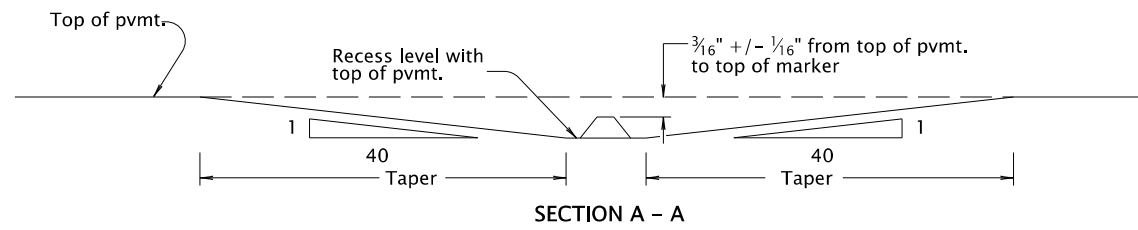
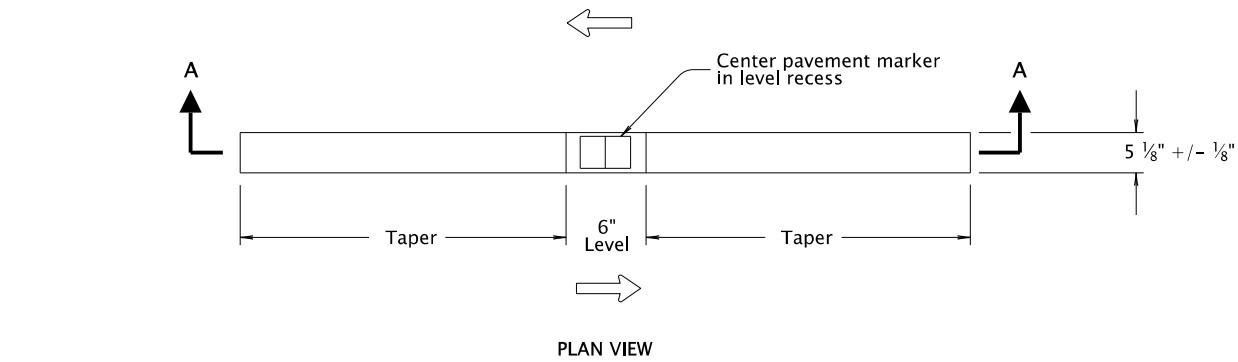
**LEGEND**

- Mono-Directional White (marker reflects white to left in this symbol)
- Bi-Directional Yellow (marker reflects yellow to both the left and right in this symbol)
- Increasing stationing from left to right
- ← Direction of Travel
- ⊥ Lane line dimensions are shown on the striping plans.

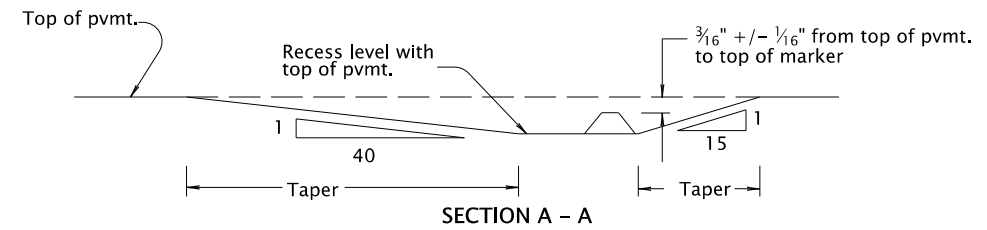
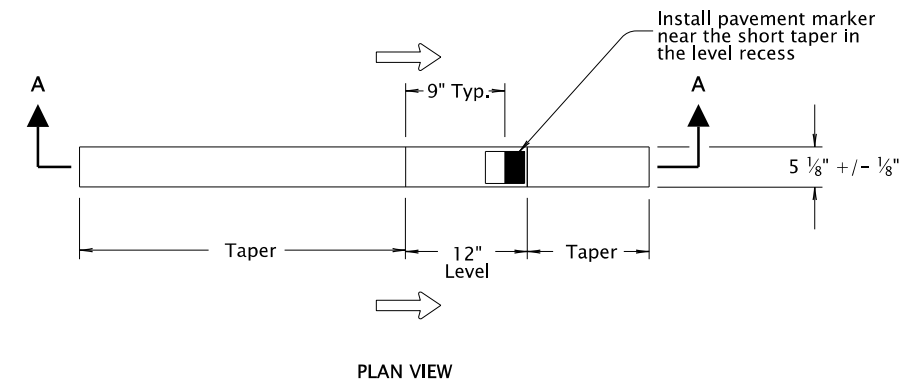
To be accompanied by Standard Dwg. Nos. TM500 thru TM504

<i>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.</i>		All materials shall be in accordance with the current Oregon Standard Specifications.	
		<b>OREGON STANDARD DRAWINGS</b>  <b>PAVEMENT MARKERS</b>	
		2024	
DATE	REVISION DESCRIPTION		
CALC. BOOK NO.	N/A	SDR DATE	01-JUL-2015
			<b>TM515</b>





BI-DIRECTIONAL RECESSED PAVEMENT MARKER DETAIL



MONO-DIRECTIONAL RECESSED PAVEMENT MARKER DETAIL

LEGEND

- ← Direction of Travel
- Bi-directional yellow marker reflects yellow both left and right in this symbol
- Mono-directional crystal white marker reflects white to the left in this symbol

To be accompanied by Standard Dwg. Nos. TM502 and TM515

*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**

**RECESSED PAVEMENT MARKERS**

2024

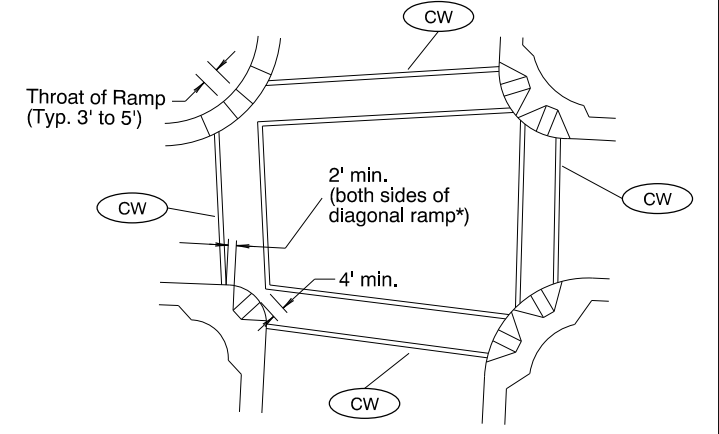
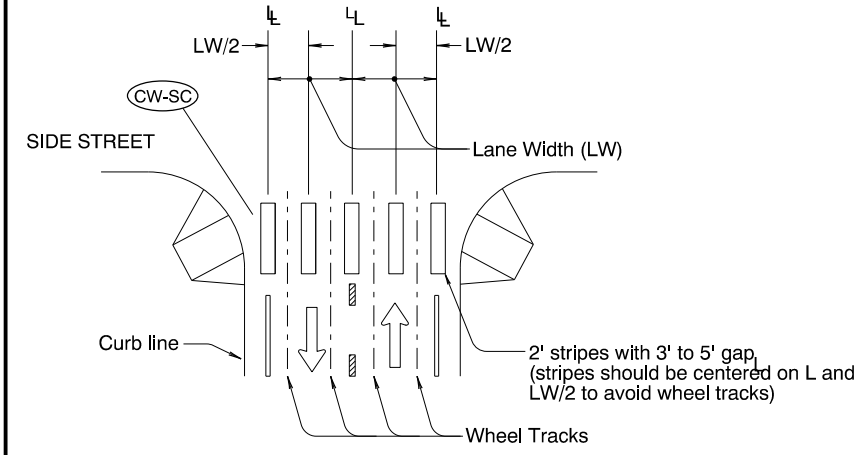
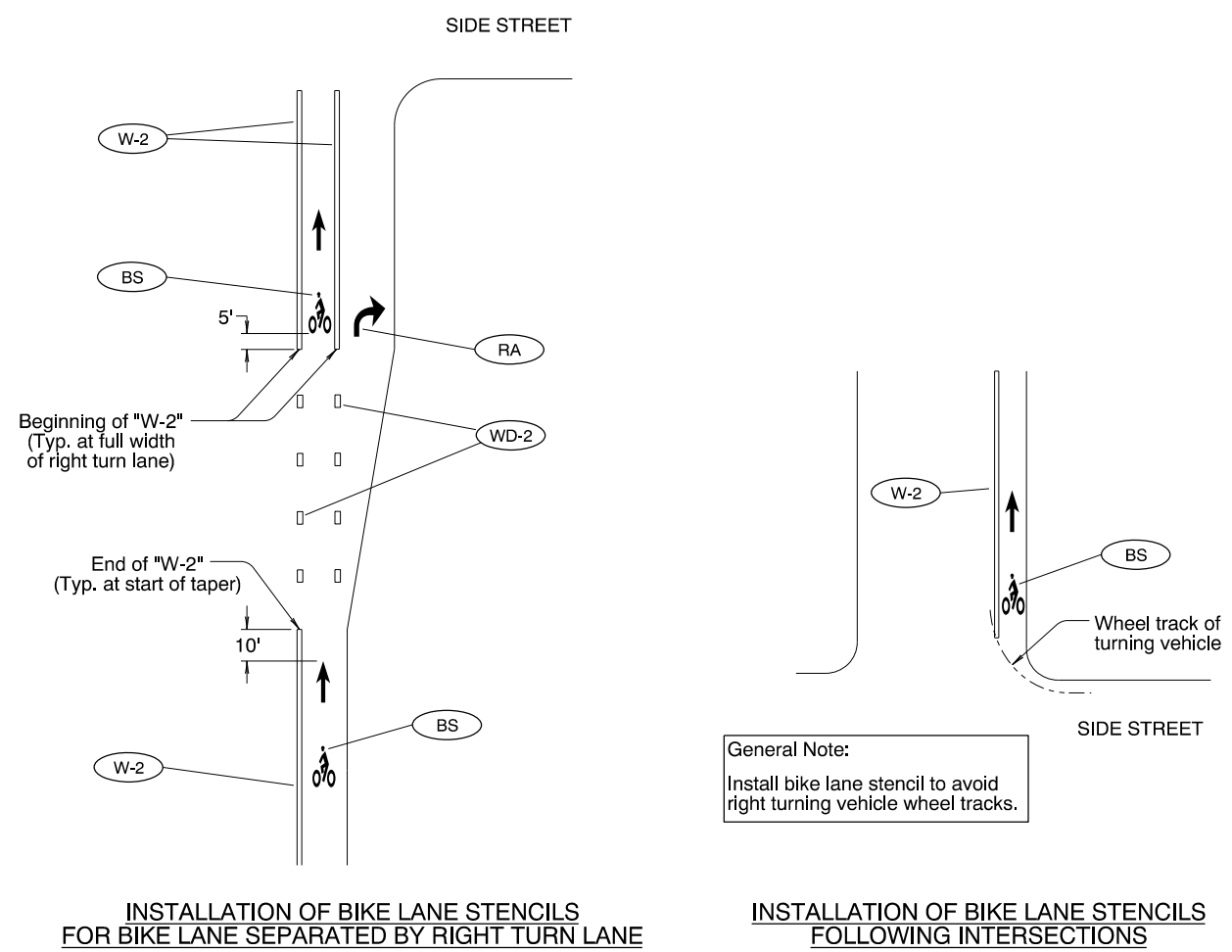
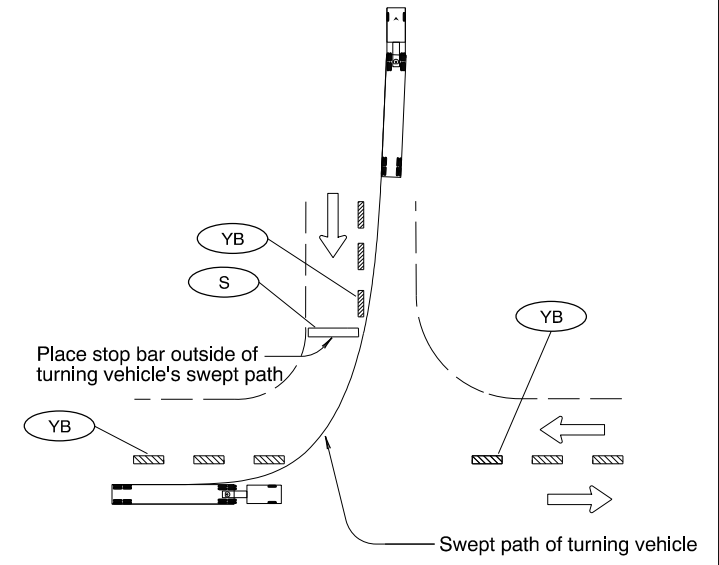
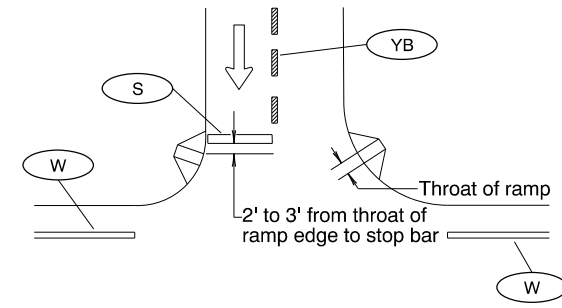
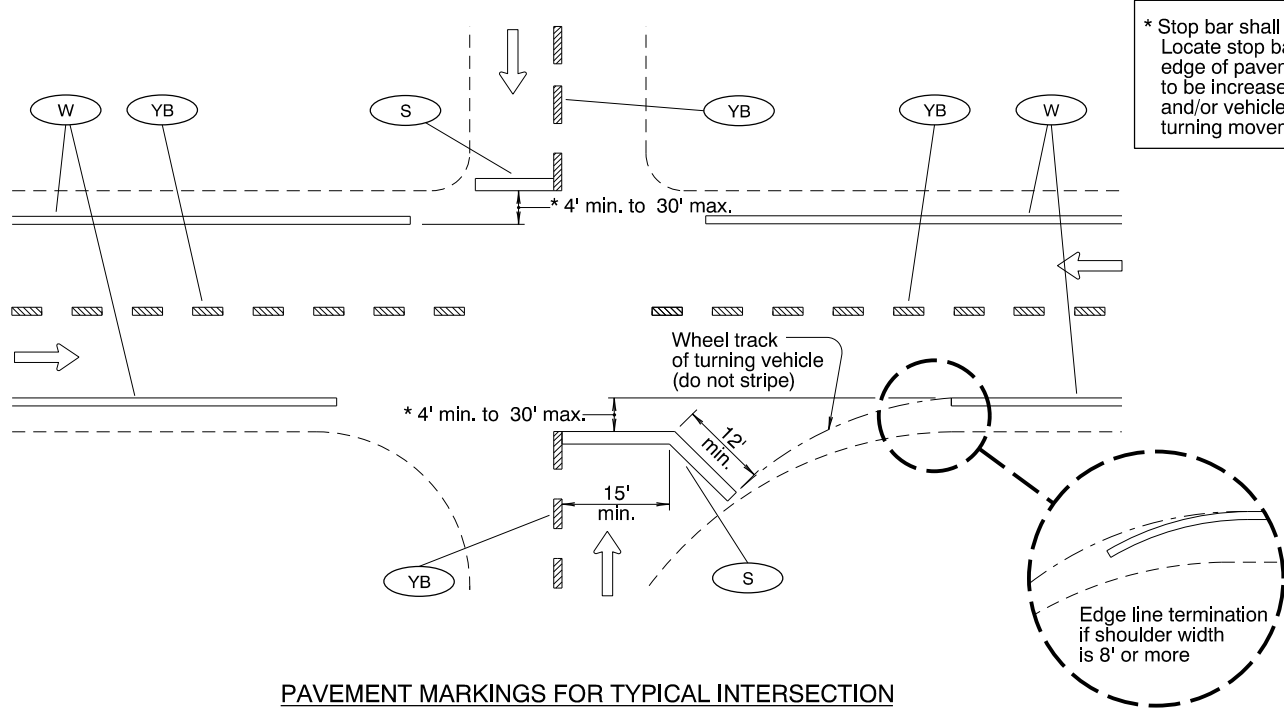
DATE	REVISION	DESCRIPTION
07-2021		Updated to better fit ODOT drafting standards

CALC. BOOK NO. ---	N/A ---	SDR DATE- 07-06-2021	<b>TM517</b>
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Effective Date: December 1, 2024 – May 31, 2025

06-JUL-2022

TM530.dgn



General Note:  
1. Install crosswalk bars such that the throat of the ADA ramp is entirely within crosswalk markings, or 5' back of extended fog line, edge of pavement, or curb face.

**LEGEND**

← Direction of Travel

L - Lane line dimensions are shown on the striping plans

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

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**OREGON STANDARD DRAWINGS**

**INTERSECTION PAVEMENT MARKINGS (CROSSWALK, STOP BAR & BIKE LANE STENCIL)**

2024

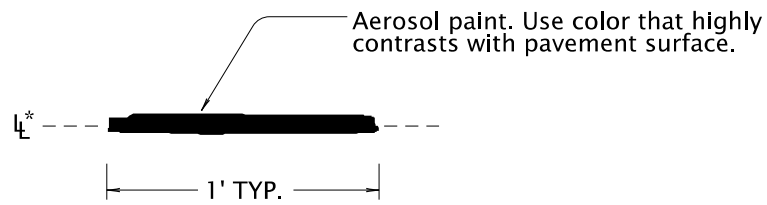
DATE	REVISION	DESCRIPTION
07-2022	Added Roadway Standard Drawing reference to detail for clarity	

CALC. BOOK NO. - - - -	N/A - - - -	SDR DATE - 06-JUL-2022	<b>TM530</b>
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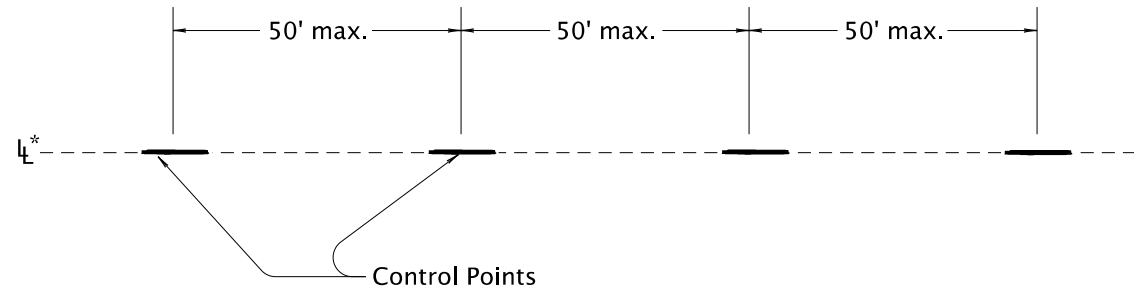
Effective Date: December 1, 2024 – May 31, 2025

07-01-2020

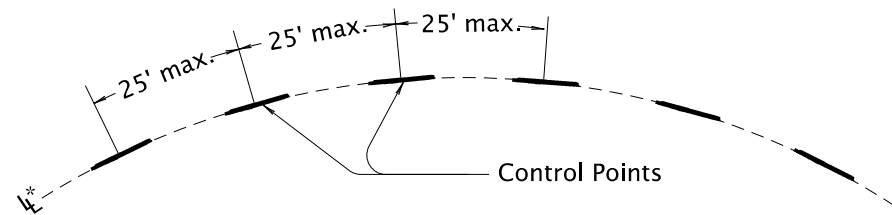
TM560.dgn



**CONTROL POINT**



**CONTROL POINT LAYOUT - TANGENT SECTIONS**



**CONTROL POINT LAYOUT - CURVE SECTIONS**

**General note:**

1.) Use control points to make continuous narrow guideline as specified.

\* Control points are placed along the lane line for all longitudinal lines except the following:

ND	For center lines only	A control point layout 4" offset from the lane line is required for a ND line when used as a center line.
----	-----------------------	---

**LEGEND**

ℓ\* - Lane line dimensions are shown on the striping plans.

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

<p><i>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.</i></p>		<p>All materials shall be in accordance with the current Oregon Standard Specifications.</p> <p><b>OREGON STANDARD DRAWINGS</b></p> <p><b>ALIGNMENT LAYOUT: GENERAL</b></p> <p>2024</p>	
		DATE	REVISION DESCRIPTION
		07-2020	Extended accompanied by drawings to include TM504
CALC. BOOK NO.	N/A	SDR DATE	07-01-2020
		<b>TM560</b>	

Effective Date: December 1, 2024 - May 31, 2025

TAPER TYPES & FORMULAS	
TAPER	FORMULA
Merging (Lane Closure)	"L"
Shifting	"L"/2 or 1/2"L"
Shoulder Closure	"L"/3 or 1/3"L"
Flagging (See Drg. TM850)	50' - 100'
Downstream (Termination)	Varies (See Drawings)

★ Use Pre-Construction Posted Speed to select the Speed from the Tables below:

TEMPORARY BARRIER FLARE RATE TABLE	
★ SPEED (mph)	MINIMUM FLARE RATE
≤ 30	8:1
35	9:1
40	10:1
45	12:1
50	14:1
55	16:1
60	18:1
65	19:1
70	20:1

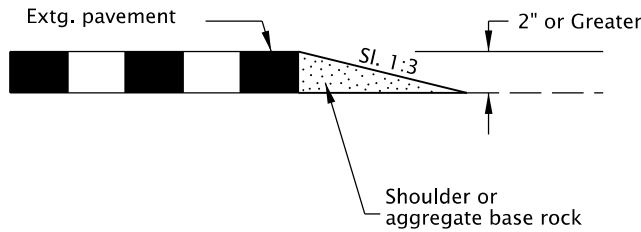
MINIMUM LENGTHS TABLE					
★ SPEED (mph)	"L" VALUE FOR TAPERS (ft)				BUFFER "B" (ft)
	W ≤ 10	W = 12	W = 14	W = 16	
25	105	125	145	165	75
30	150	180	210	240	100
35	205	245	285	325	125
40	265	320	375	430	150
45	450	540	630	720	180
50	500	600	700	800	210
55	550	660	770	880	250
60	600	720	840	960	285
65	650	780	910	1000	325
70	700	840	980	1000	365
FREEWAYS					
55	1000	1000	1000	1000	250
60	1000	1000	1000	1000	285
65	1000	1000	1000	1000	325
70	1000	1000	1000	1000	365

NOTES:  
 • For Lane closures where W < 10', use "L" value for W = 10'.  
 • For Shoulder closures where W < 10', use "L" value for W = 10' or calculate "L" using formula, for Speeds ≥ 45: L = WS, Speeds < 45: L = S<sup>2</sup>W/60, S = Speed, W=Width

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
★ SPEED (mph)	Sign Spacing (ft)			Max. Channelizing Device Spacing (ft)
	A	B	C	
20 - 30	100	100	100	20
35 - 40	350	350	350	20
45 - 55	500	500	500	40
60 - 70	700	700	700	40
Freeway	1000	1500	2640	40

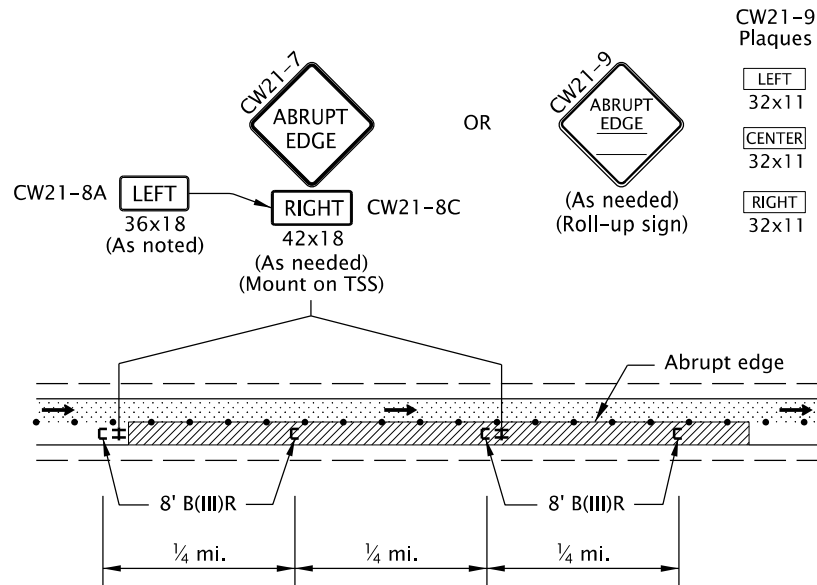
NOTES:  
 • Place traffic control devices on 10 ft. spacing for intersection and access radii.  
 • When necessary, sign spacing may be adjusted to fit site conditions. Limit spacing adjustments to 30% of the "A" dimension for all speeds.

NOTES:  
 • When paved shoulders adjacent to excavations are less than four feet wide protect longitudinal abrupt edge as shown.  
 • Use aggregate wedge when abrupt edge is 2 inches or greater.



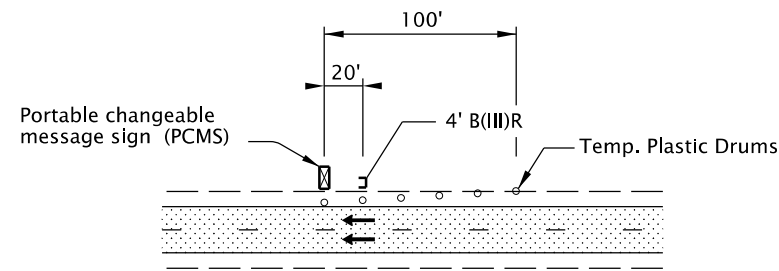
EXCAVATION ABRUPT EDGE

NOTES:  
 • Abrupt edges may be created by paving, operations, excavations or other roadway work. Use abrupt edge signing for longitudinal abrupt edges of 1 inch or greater.  
 • If the excavation is located on left side of traffic, replace the 8' B(III)R barricades with 8' B(III)L barricades and replace the "RIGHT" (CW21-8C) riders with "LEFT" (CW21-8A) riders.  
 • Continue signing and other traffic control devices throughout excavation area at spacings shown.  
 • If roll-up signs are used, attach the correct (CW21-9) plaques to the sign face using hook and loop fasteners. Place roll-up signs in advance of barricades.



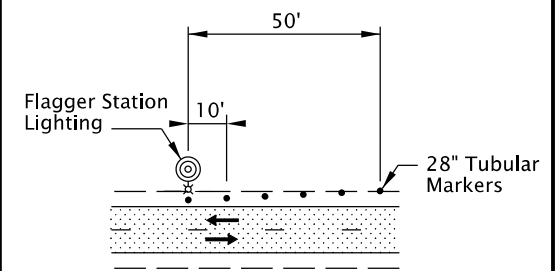
TYPICAL ABRUPT EDGE DELINEATION

NOTES:  
 • Install PCMS beyond the outside shoulder, when possible.  
 • Use the appropriate type of barricade panels for PCMS location. Right shoulder, use Type B(III)R. Left shoulder, use Type B(III)L.  
 • Use six drums in shoulder taper on 20' spacing. The drums and barricade may be omitted when PCMS is placed behind a roadside barrier.  
 • Detail as shown is used for trailered and non-crashworthy components of:  
 • Portable Traffic Signals  
 • Smart Work Zone Systems



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) INSTALLATION

NOTES:  
 • Install Flagger Station Lighting beyond the outside shoulder, where practical.  
 • Use six tubular markers in shoulder taper on 10' spacing.  
 • Place cart / generator / power supply off of the shoulder, as far as practical.



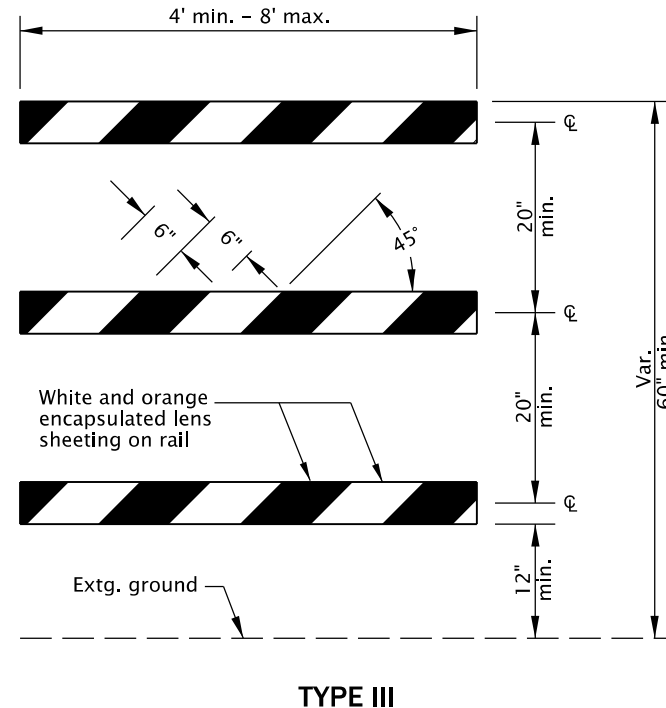
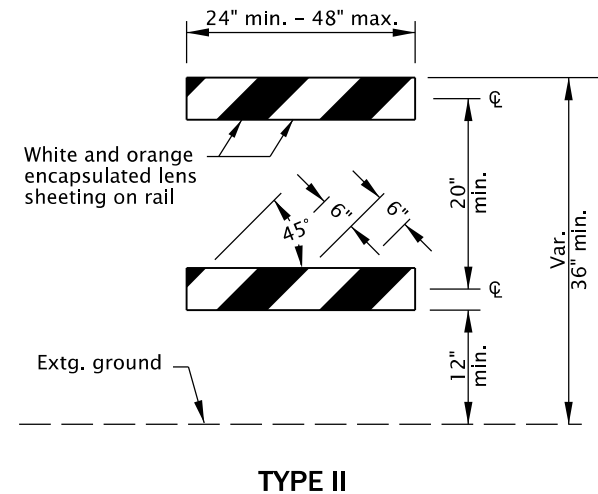
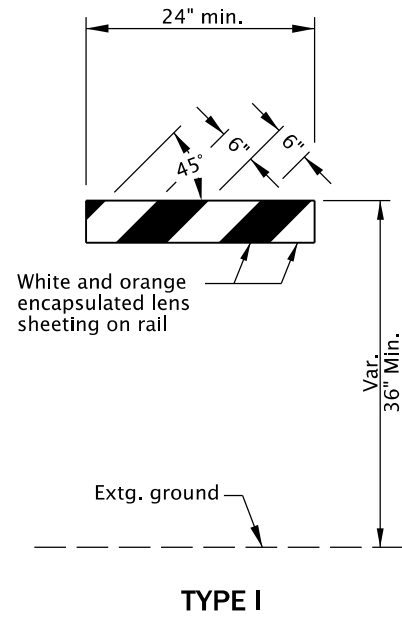
FLAGGER STATION LIGHTING DELINEATION

GENERAL NOTES FOR ALL TCP DRAWINGS:  
 • Signs and other Traffic Control Devices (TCD) shown are the minimum required.  
 • Place a barricade approx. 20' ahead of all sequential arrow boards.  
 • Arrows shown in roadway are directional arrows to indicate traffic movements.  
 • All signs are 48" x 48" unless otherwise shown. Use fluorescent orange sheeting for the background of all temporary warning signs.  
 • All diamond shaped warning signs mounted on barrier sign supports shall be 36" by 36". All other signs mounted on barrier sign supports shall not exceed 12 sq. ft. in total sign area.  
 • Low speed highways have a pre-construction posted speed of 40 mph or less. High speed highways have a pre-construction posted speed of 45 mph or higher.  
 • Do not locate sign supports in locations designated for bicycle or pedestrian traffic.  
 • Combine drawing details to complete temporary traffic control for each work activity.  
 • Coordinate and control pedestrian movements through a Temporary Accessible Route using Flaggers, Traffic Control Measures, or as directed.  
 • Provide a truck mounted attenuator (TMA) to protect the active work area on high speed divided highways or freeways when positive protection is not available, or as directed.  
 • To be accompanied by Dwg. Nos. TM820 & TM821.

*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.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>TABLES, ABRUPT EDGE AND PCMS DETAILS</b>			
2024			
DATE	REVISION DESCRIPTION		
07-2022	Added a note for TPARs		
07-2024	Added a note for TMAs		
CALC. BOOK NO.	N/A	SDR DATE	12-JUL-2024
			<b>TM800</b>

01-JUL-2020  
TM820.dgn



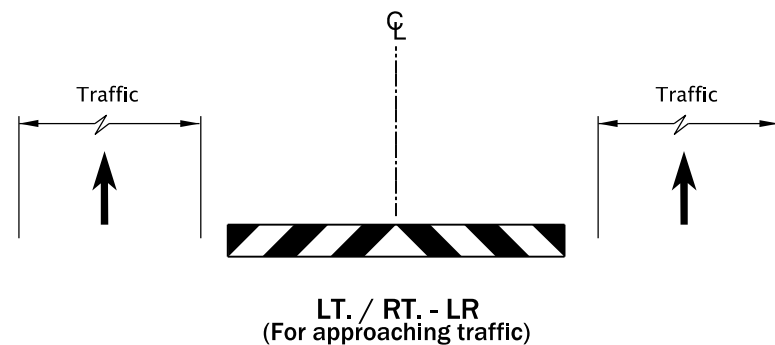
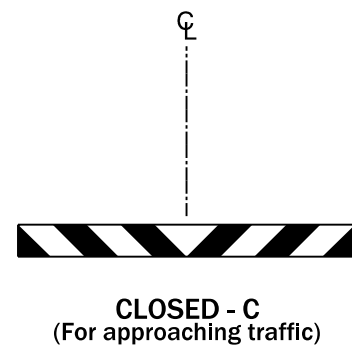
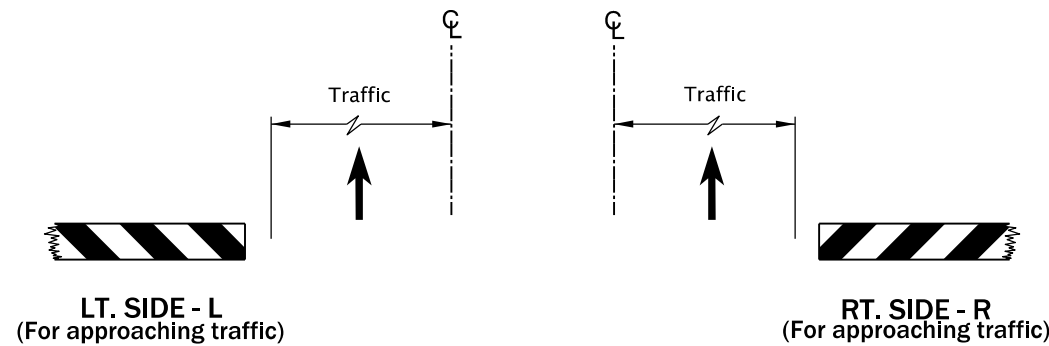
**BARRICADE RAIL LAYOUT**

**GENERAL NOTES FOR ALL DETAILS:**

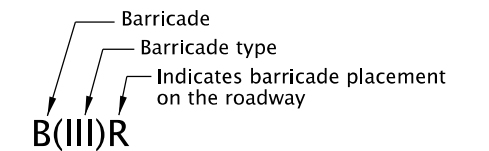
- Sandbags (approximately 25 lb sack filled with sand) may be placed on lower frame to provide additional ballast.
- Ballast shall not extend above bottom rail or be suspended from barricade.
- For rails less than 36" long, 4" wide stripes shall be used.
- Rails must be 8" min. to 12" max. in height.
- Use barricades from ODOT Qualified Products List (QPL).
- Use 4' Type III barricades where horizontal space is limited.
- Do not block bike lanes or shoulders unless the facility is properly closed and signed.
- Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Dwg. No. TM844.

**NOTES:**

- Markings for barricade rails shall slope downward at an angle of 45° in the direction traffic is to pass.
- Where a barricade extends entirely across a roadway, it is desirable that the stripes slope downward in the direction toward which traffic must turn in detouring.
- Where both right and left turns are provided for, slope the chevron striping downward in both directions from the center of the barricade.
- For full roadway closures, the C or LR barricade may be used. Extend barricades completely across roadway unless access is required for local road users.



**DIAGRAM FOR BARRICADE PLACEMENT AND SLOPE MARKING**



**BARRICADE NOTATION**

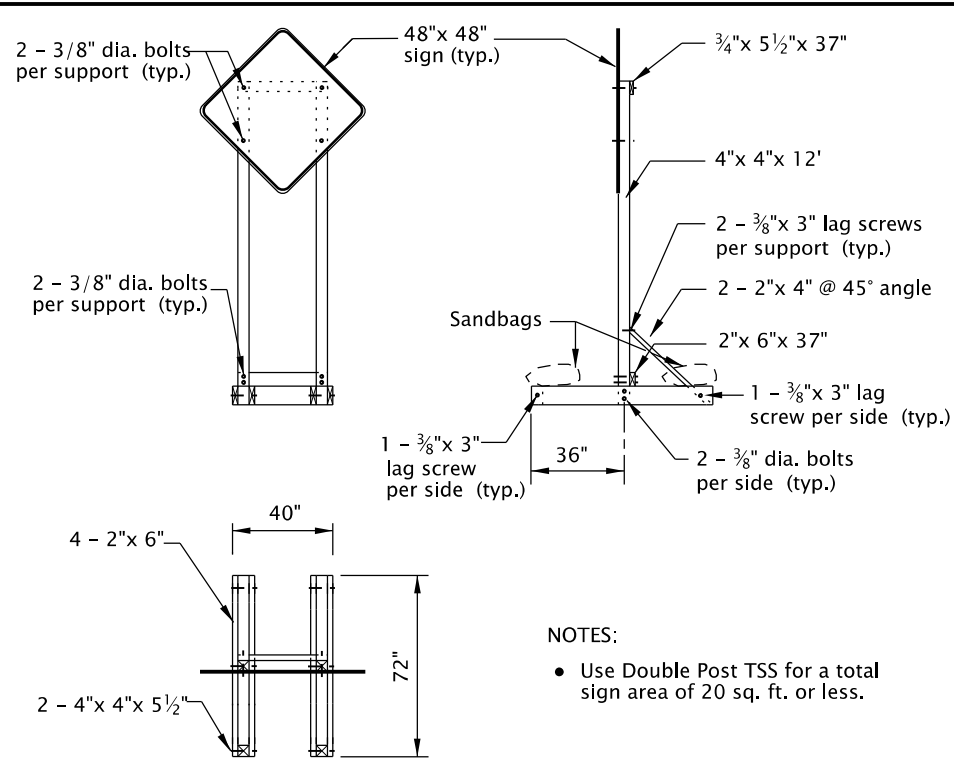
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>TEMPORARY BARRICADES</b>			
2024			
DATE	REVISION DESCRIPTION		
CALC. BOOK NO.	N/A	SDR DATE	01-JUL-2020
			<b>TM820</b>

Effective Date: December 1, 2024 – May 31, 2025

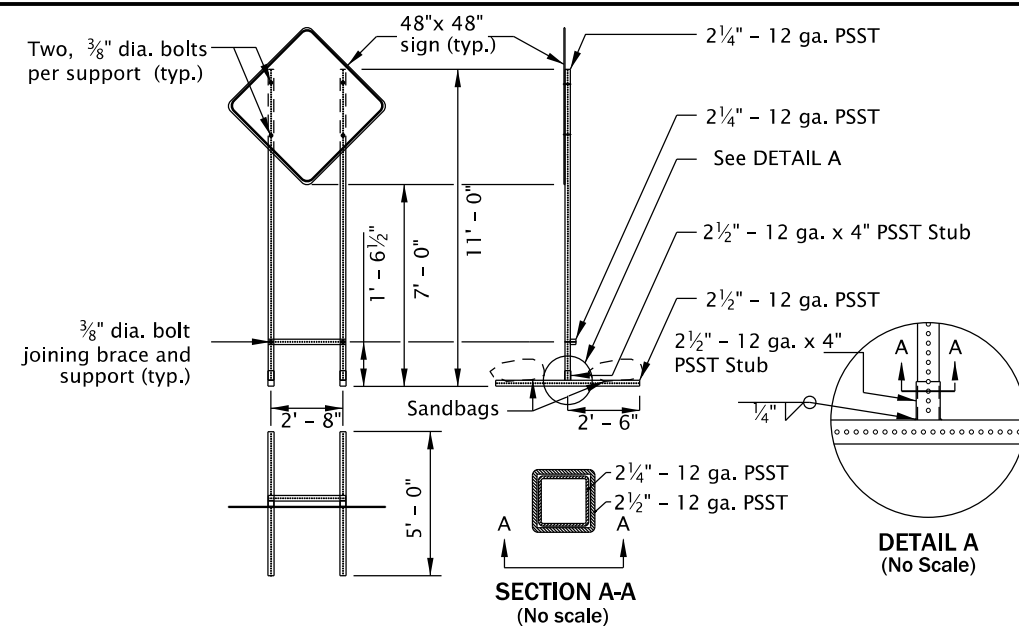
14-JUL-2023

TM821.dgn



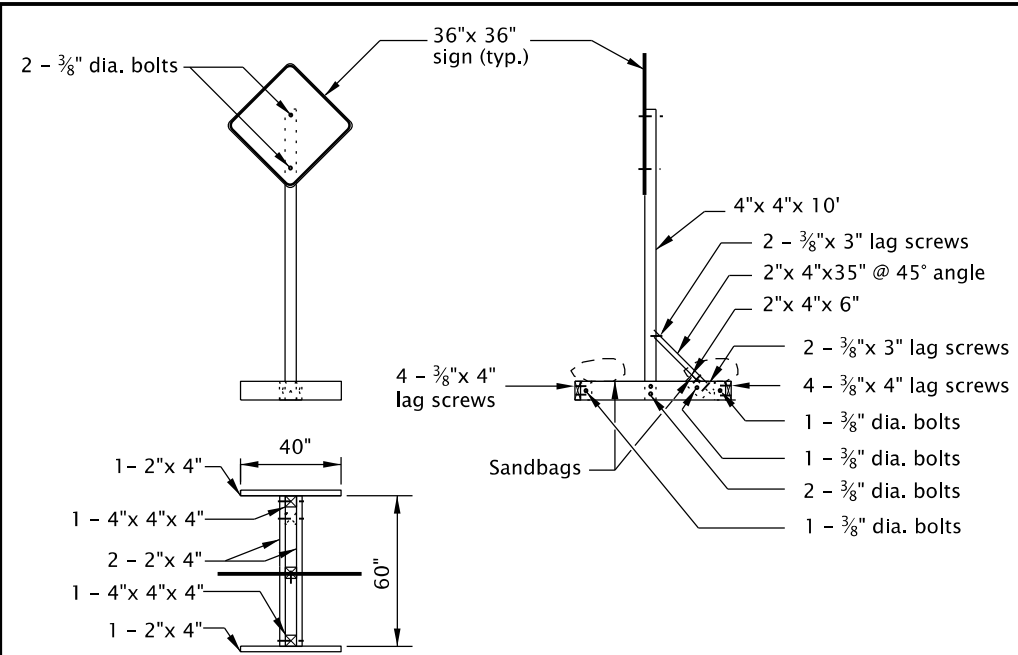
- NOTES:
- Use Double Post TSS for a total sign area of 20 sq. ft. or less.

**DOUBLE POST DETAIL**



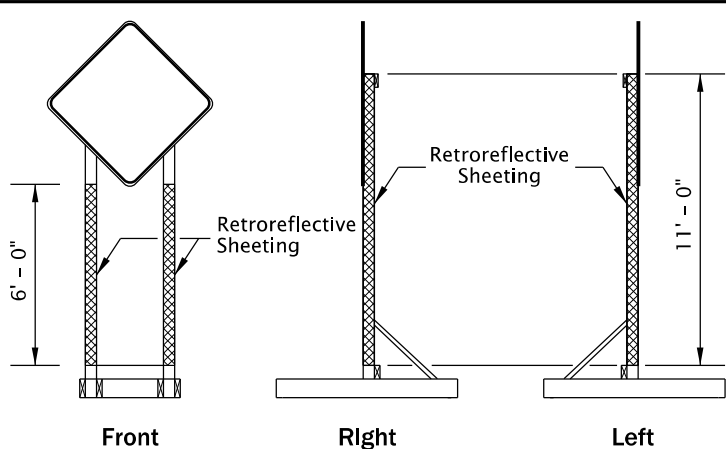
- NOTES:
- Use PSST TSS's for a total sign area of 16 sq. ft. or less.
  - All members shall have a minimum yield stress of 50 ksi.
  - Galvanize steel according to ASTM A653 with coating designation G90. Remove Galvanizing from steel before welding. Repair Galvanizing according to ASTM A780.
  - Use A325 Bolts or equivalent.
  - 2 1/4" - 12 ga. PSST to extend entire length inside of the 2 1/2" - 12 ga. x 4" PSST Stub.
  - Do not use bolt to secure 2 1/4" PSST inside of the 2 1/2" - 12 ga. x 4" PSST Stub.
  - Weld steel according to American Welding Society (AWS) D.1.1.

**PERFORATED STEEL SQUARE TUBE (PSST) DETAIL**

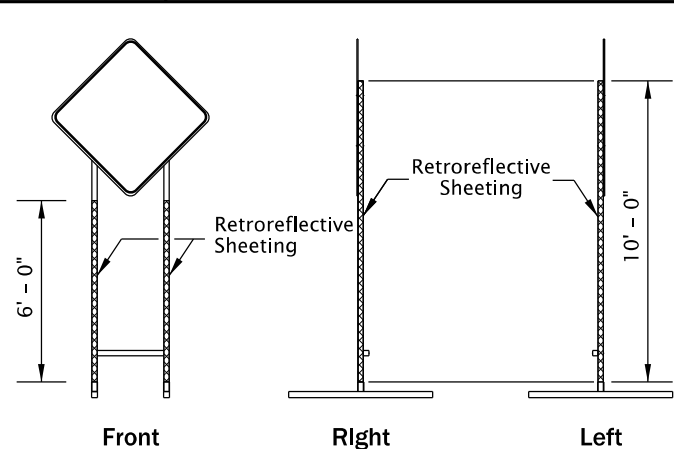


- NOTES:
- Use Single Post TSS for a total sign area of 12 sq. ft. or less.
  - Use Single Post TSS for mounting "Business Access" (CG20-11) signs. Do not mount signs on Type II or III Barricades.

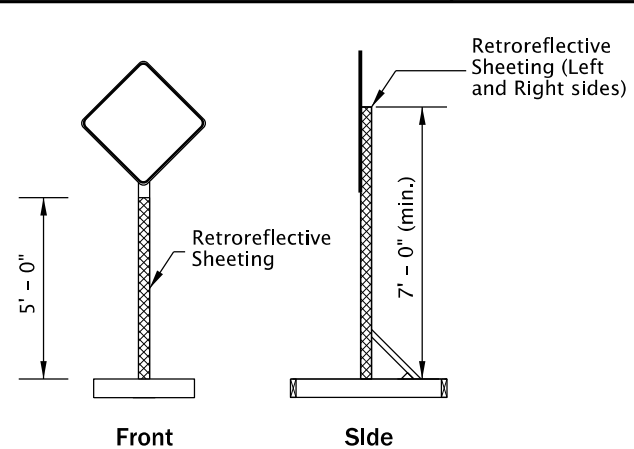
**SINGLE POST DETAIL**



**Double Post**



**Perforated Steel Square Tube (PSST)**



**Single Post**

- NOTES:
- Apply fluorescent orange, ANSI Type VIII or IX retroreflective sheeting to TSS posts, as shown, for all temporary signs, except "STOP" and "DO NOT ENTER". For "STOP" and "DO NOT ENTER" signs, used red ANSI Type III or IV retroreflective sheeting on the TSS posts.
  - Apply sign post retroreflectivity to each TSS post facing front; and to the left and right sides of the TSS, as shown. Use 3" wide sheeting for wood post TSS's. Use 2" wide sheeting for PSST TSS's.
  - Sheeting may be applied directly to post material; or applied to a rigid, lightweight substrate, then securely attached to the posts.

**SIGN POST REFLECTIVE SHEETING PLACEMENT**

- TEMPORARY SIGN SUPPORT GENERAL NOTES:
- Do not tip over TSS at any time.
  - Do not locate TSS's in locations that block pedestrian or bicycle traffic.
  - For wooden TSS's, use either Douglas Fir or Hem Fir, which is surfaced four sides (S4S) and free of heart center (FOHC).
  - See "Temporary Sign Placement" detail on TM822 for sign installation heights.
  - Do not place or stack ballast more than 24" above the ground.
  - When not in use, locate TSS as far from Public Traffic as practicable and turn away from traffic, or cover the sign. Do not cover reflective sheeting on the TSS posts.
  - Place a minimum of 50 lbs of sandbags on each of the four TSS supports legs. (25 lb. max per bag) (min. 100 lbs per side of each TSS).
  - See Dwg. No. TM204 for flag board mounting detail.

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All materials shall be in accordance with the current Oregon Standard Specifications.

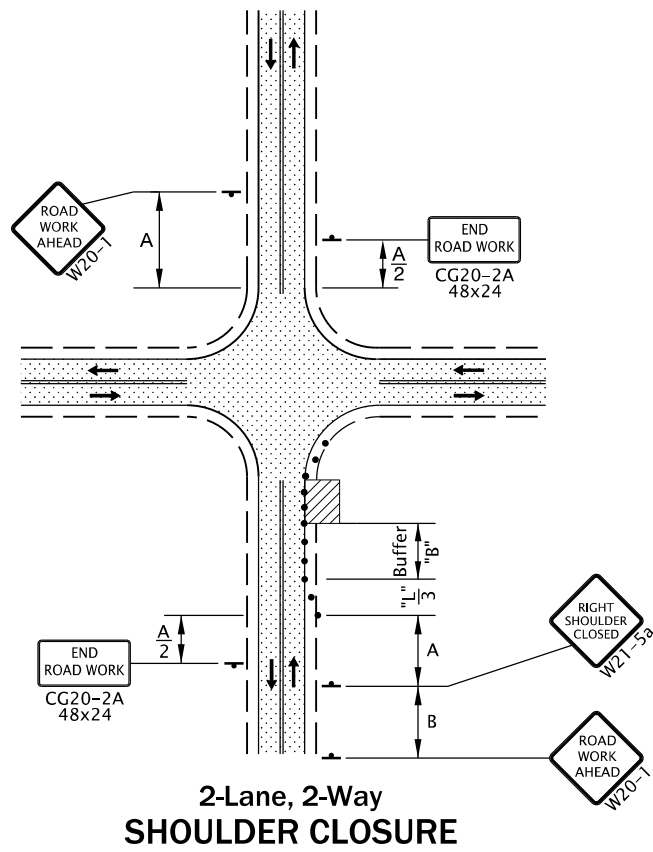
**OREGON STANDARD DRAWINGS**

**TEMPORARY SIGN SUPPORTS**

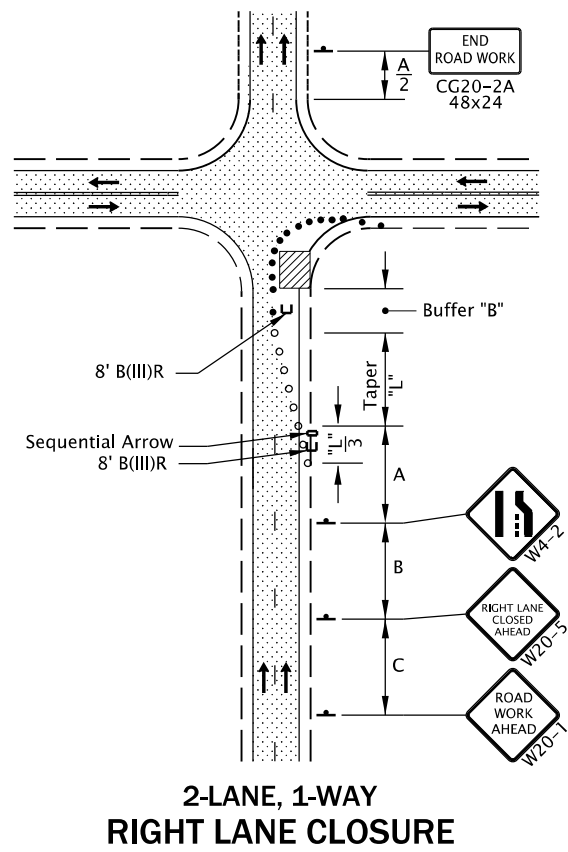
2024

DATE	REVISION	DESCRIPTION

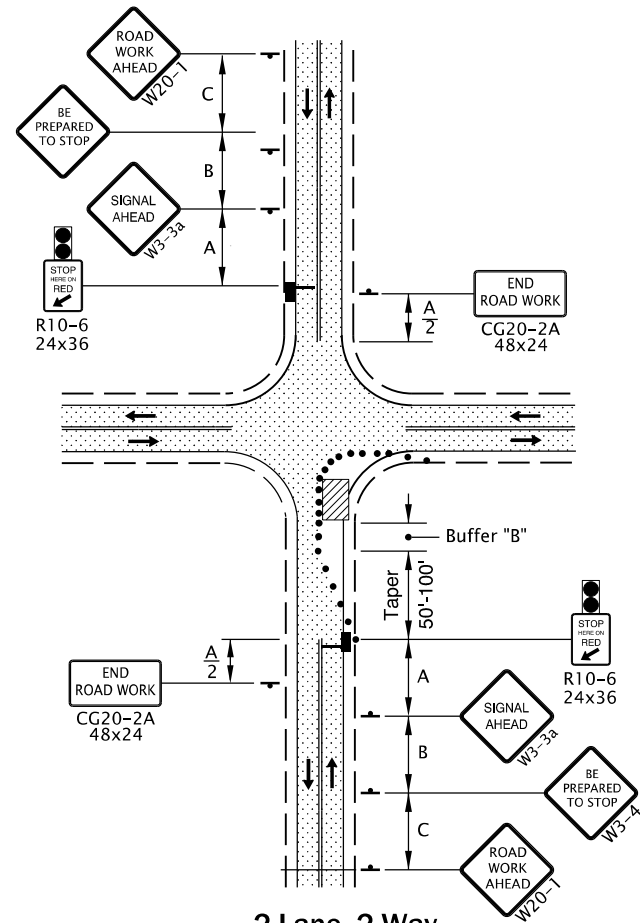
CALC. BOOK NO. - - - N/A - - - SDR DATE - 14-JUL-2023 - **TM821**



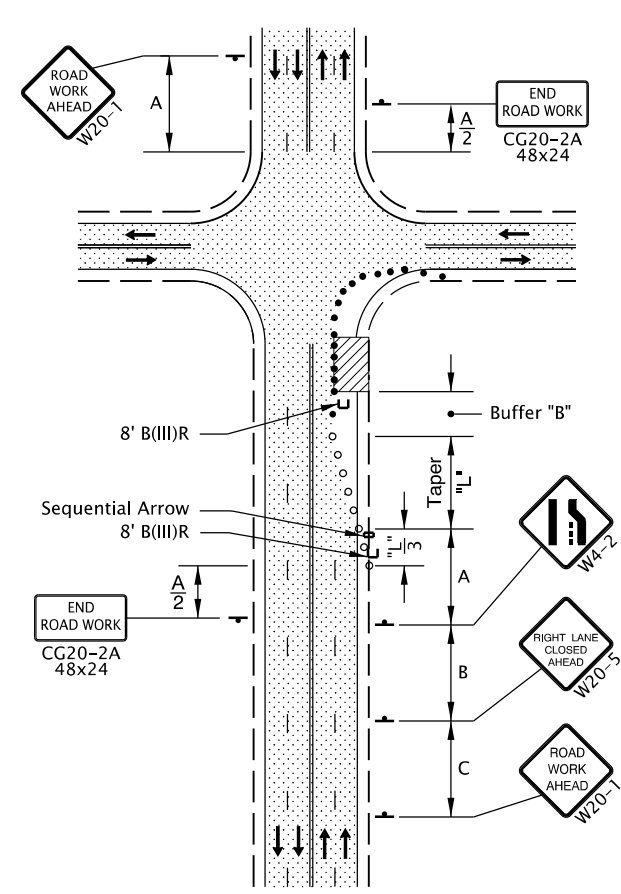
**2-Lane, 2-Way SHOULDER CLOSURE**



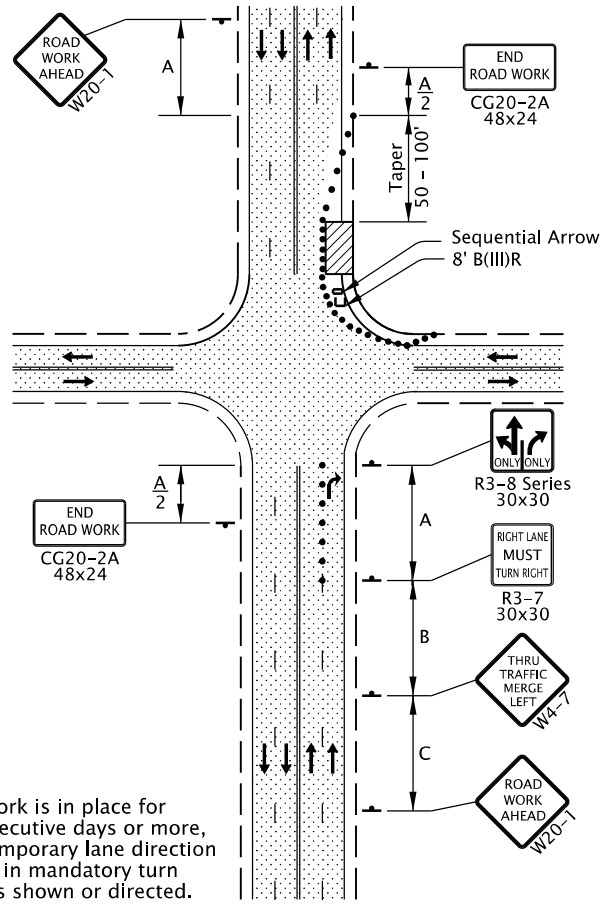
**2-LANE, 1-WAY RIGHT LANE CLOSURE**



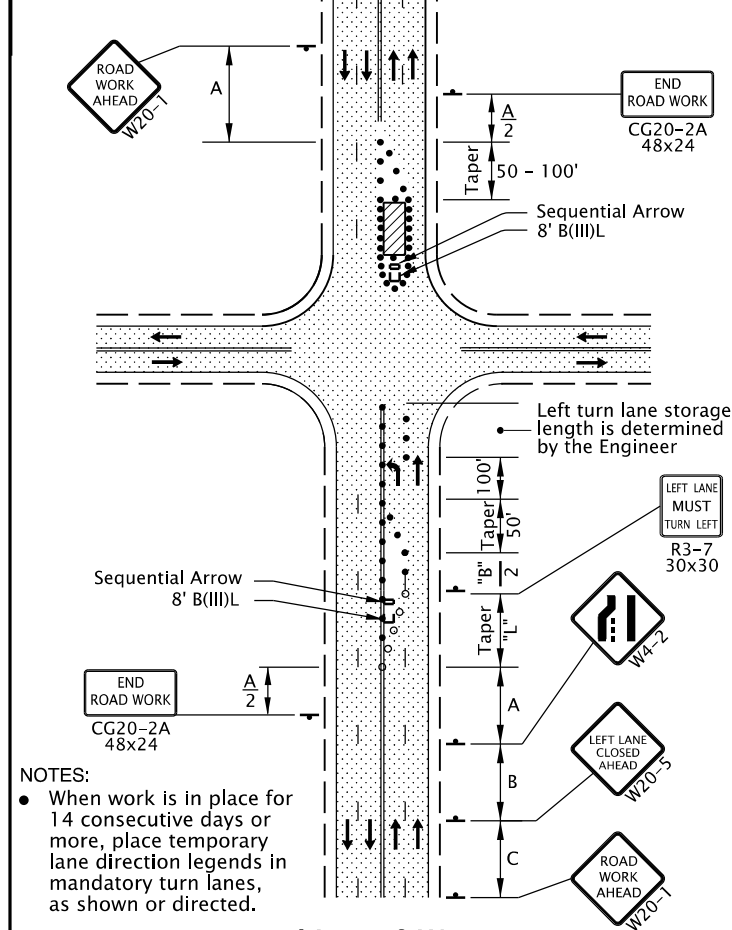
**2-Lane, 2-Way ONE LANE CLOSURE**



**4-Lane, 2-Way RIGHT LANE CLOSURE, NEAR SIDE**



**4-Lane, 2-Way RIGHT LANE CLOSURE, FAR SIDE**



**4-Lane, 2-Way LEFT LANE CLOSURE, FAR SIDE**

NOTES:  
 • When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

NOTES:  
 • When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

GENERAL NOTES FOR ALL DETAILS:

- Additional Traffic Control Measures (TCM) may be required for all legs of the intersection.
- The "SIGNAL AHEAD" (W3-3a) sign may be substituted with the signal ahead symbol (W3-3) sign.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" on Dwg. TM800.
- For left lane or shoulder work, place TCD to close left lane or shoulder. Use "LEFT LANE CLOSED AHEAD" (W20-5) sign, "LEFT LANE ENDS" (W4-2L) symbol sign, or "LEFT SHOULDER CLOSED" (W21-5a) sign, where applicable.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. TM800.
- When a through road intersects within the work zone, place a "ROAD WORK AHEAD" (W20-1) sign in advance of the intersection at sign spacing A.
- Tubular markers may be used in lane closure tapers where posted speed is 40 mph or less.
- Where shoulder width is limited, Sequential Arrow may be placed within the lane closure taper.
- Place channelizing devices around intersection radii, business accesses and driveways at 10' spacing.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- To be accompanied by Dwg. Nos. TM820, TM821, TM840 & TM854.

- Automated Flagging Assistance Device (AFAD)
- 28" Tubular Markers See TCD Spacing Table on TM800 for max. spacing.
- ○ ○ ○ ○ Temp. Plastic Drums See TCD Spacing Table on TM800 for max. spacing.
- ░ UNDER TRAFFIC
- ▨ UNDER CONSTRUCTION

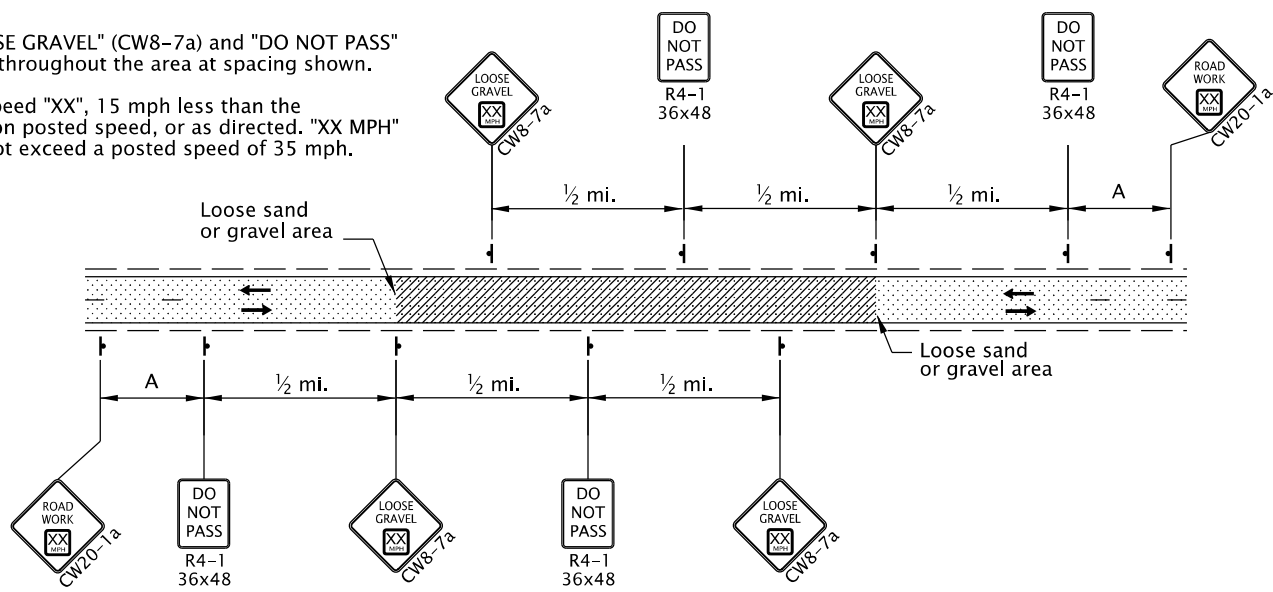
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
2024			
DATE	REVISION DESCRIPTION		
01-2022	Added AFADs to drawing.		
07-2024	Fixed a typo.		
CALC. BOOK NO.	N/A	SDR DATE	12-JUL-2024
			<b>TM841</b>

01-JUL-2022

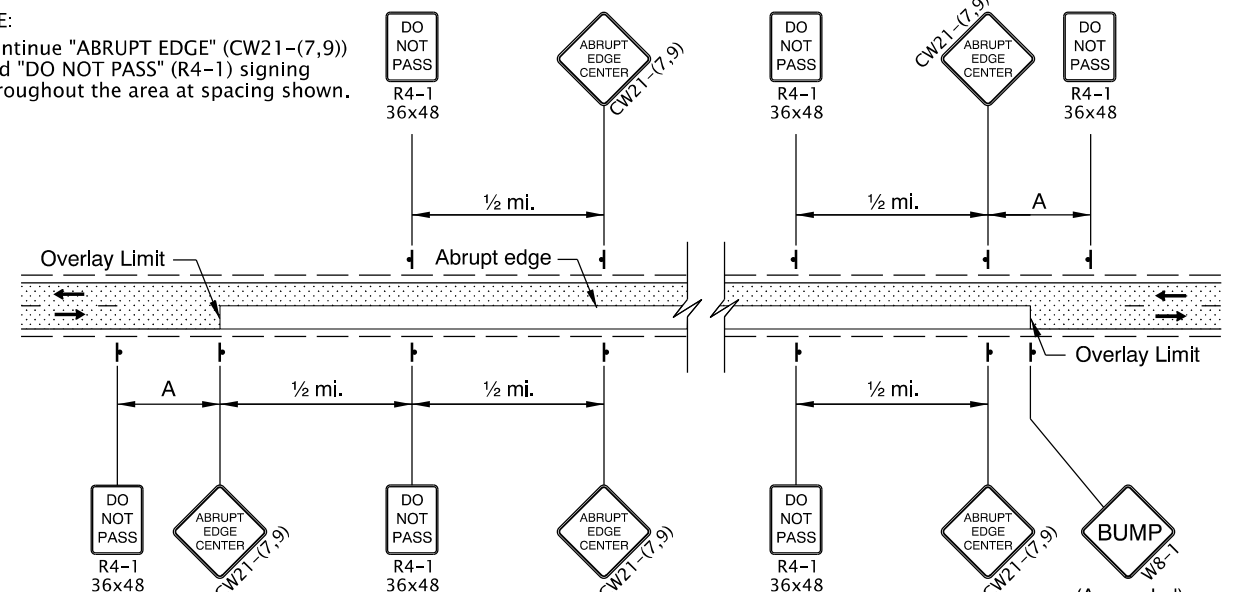
TM850.dgn

- NOTE:
- Continue "LOOSE GRAVEL" (CW8-7a) and "DO NOT PASS" (R4-1) signing throughout the area at spacing shown.
  - Use advisory speed "XX", 15 mph less than the pre-construction posted speed, or as directed. "XX MPH" placard shall not exceed a posted speed of 35 mph.



2-Lane, 2-Way Roadway  
LOOSE GRAVEL IN ROADWAY SIGNING

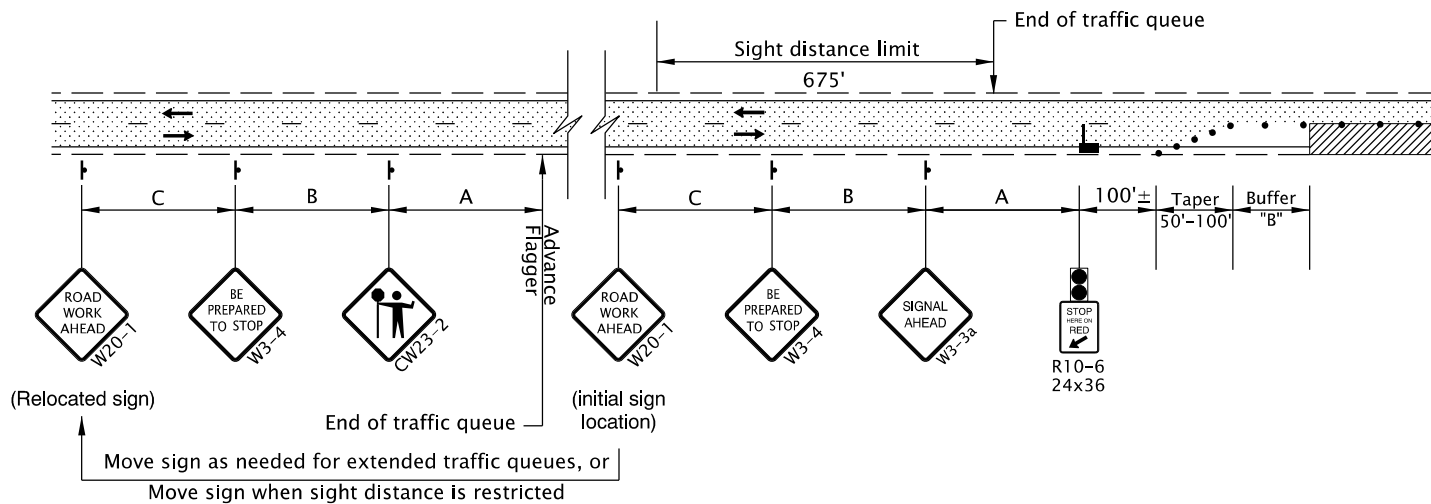
- NOTE:
- Continue "ABRUPT EDGE" (CW21-(7,9)) and "DO NOT PASS" (R4-1) signing throughout the area at spacing shown.



2-Lane, 2-Way Roadway  
OVERLAY AREA SIGNING

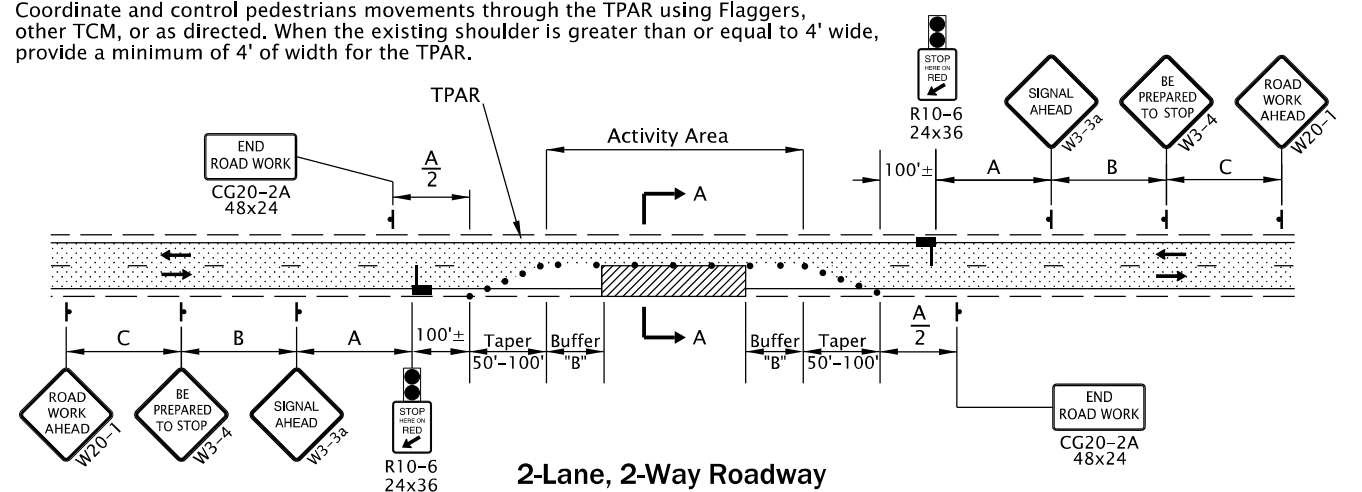
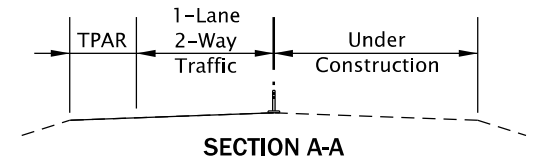
- NOTES:
- Place Advance Flagger and additional signing when traffic queues extend beyond initial warning signing OR when sight distance is restricted.
  - Relocate initial "ROAD WORK AHEAD" (W20-1) sign in advance of additional "BE PREPARED TO STOP" (W3-4) and Flagger Ahead (CW23-2) signs, as shown.

- Place additional Tubular Markers for Flagger and Advance Flagger Stations according to FLAGGER STATION DELINEATION detail.



ADVANCE FLAGGER FOR EXTENDED TRAFFIC QUEUES

- NOTE:
- When using pilot cars with flaggers to control traffic during paving operations, the Tubular Marker spacing along centerline may be increased to 200' within the Activity Area, as shown or as directed.
  - Include "WAIT FOR FLAGGER" (CR4-23) signs mounted on Type II Barricade located approx. 50' before each Flagger.
  - Coordinate and control pedestrians movements through the TPAR using Flaggers, other TCM, or as directed. When the existing shoulder is greater than or equal to 4' wide, provide a minimum of 4' of width for the TPAR.



2-Lane, 2-Way Roadway  
ONE LANE CLOSURE

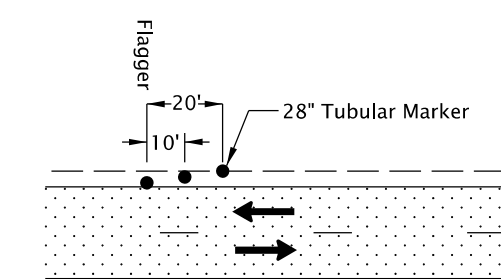
GENERAL NOTES FOR ALL DETAILS:

- The "SIGNAL AHEAD" (W3-3a) sign may be substituted with the Signal Ahead (W3-3) symbol sign.
- Cover existing passing zone signing, as directed.
- Install temporary striping as required.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" shown on Dwg. No. TM800.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. No. TM800.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- At night, flagger stations shall be illuminated according to the FLAGGER STATION LIGHTING DELINEATION detail on Dwg No. TM800.

- To be accompanied by Dwg. Nos. TM820, TM821 & TM854.

- Automated Flagging Assistance Device (AFAD)
  - 28" Tubular Markers on 20' max. spacing for flagger tapers and stations
  - 28" Tubular Markers See TCD Spacing Table on TM800 for max. spacing.
- 

- NOTE:
- Use a minimum of 3 tubular markers in shoulder taper on 10' spacing for flagger station delineation.



FLAGGER STATION DELINEATION

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All materials shall be in accordance with the current Oregon Standard Specifications.	
<b>OREGON STANDARD DRAWINGS</b>	
<b>2-LANE, 2-WAY ROADWAYS</b>	
2024	
DATE	REVISION DESCRIPTION
01-2022	Added AFADs to drawing.
CALC. BOOK NO.	SDR DATE
	01-JUL-2022
<b>TM850</b>	





INVITATION TO BID# 2024-71  
Wildcat Mountain Drive Paving Project  
ADDENDUM NUMBER #1  
August 28, 2024

On August 14, 2024, Clackamas County (“County”) published Invitation to Bid #2024-71 (“BID”). The County has found that it is in its interest to amend the BID through the issuance of this Addendum #1. Except as expressly amended below, all other terms and conditions of the original BID and subsequent Addenda shall remain unchanged.

1. The Bid Due Date is hereby changed from September 5, 2024 at 2:00PM to **September 12, 2024 at 2:00PM.**
2. The engineer’s estimate is revised to be \$1,505,700.00 and the following bid item estimated quantities are revised as follows:

<u>Number</u>	<u>Item</u>	<u>Original</u>	<u>New</u>
114	Cold Plane Pavement Removal, 0-3 Inches Deep	600 SY	2000 SY
120	Extra for Spot Grind and Inlay Areas	500 SY	1500 SY

3. The bid plans have been revised to add the following:
  - Updated standard drawings
  - PCMS detail
  - Monument box installation detail
  - 4” Spot Grind & Inlay ACPR areas
  - 16” ACPR areas
  - Other minor changes

These changes will be included in the Contract for this Project. It is understood that your Bid will be submitted accordingly.

Attachments: New Bid Schedule, New Bid Plans

---

End of Addendum #1

Wildcat Mountain Drive Paving Project			Summer 2024			
Item #	Spec #	Item Description	Unit	Quantity	Unit Price	Amount
<b>HARASSMENT PREVENTION, MOBILIZATION, AND EXTRA WORK AS AUTHORIZED</b>						
101	00180	WORKPLACE HARASSMENT PREVENTION PLAN	LS	1.00		
102	00196	EXTRA WORK	LS	1.00	\$30,000.00	\$30,000.00
103	00210	MOBILIZATION	LS	1.00		
<i>HARASSMENT PREVENTION, MOBILIZATION, AND EXTRA WORK AS AUTHORIZED-SUBTOTAL</i>					30,000.00	
<b>TEMPORARY FEATURES AND APPURTENANCES</b>						
104	00221	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	1.00		
105	00222	PORTABLE CHANGEABLE MESSAGE SIGNS	EA	1.00		
106	00222	TEMPORARY PROJECT INFORMATION SIGNS	SQFT	50.00		
107	00225	TEMPORARY REMOVABLE TAPE	FOOT	150.00		
108	00225	TEMPORARY FLEXIBLE PAVEMENT MARKERS	EA	1,500.00		
109	00280	EROSION CONTROL	LS	1.00		
110	00290	POLLUTION CONTROL PLAN	LS	1.00		
<i>TEMPORARY FEATURES AND APPURTENANCES-SUBTOTAL</i>						
<b>ROADWORK</b>						
111	00310	ASPHALT PAVEMENT SAW CUTTING	FOOT	550.00		
112	00310	REMOVAL OF CONCRETE DRIVEWAY	SQYD	20.00		
113	00490	CAST IRON MONUMENT BOXES	EA	3.00		
<i>ROADWORK-SUBTOTAL</i>						
<b>BASES</b>						
114	00620	COLD PLANE PAVEMENT REMOVAL, 0 -3 INCHES DEEP	SQYD	2,000.00		
115	00641	AGGREGATE SHOULDERS (1 1/2"-0)	TON	2,000.00		
116	00641	AGGREGATE APPROACH: AGGREGATE BASE	TON	70.00		
<i>BASES - SUBTOTAL</i>						
<b>WEARING SURFACES</b>						
117	00745	LEVEL 2, 1/2 INCH ACP WITH FIBERS	TON	7,750.00		
118	00748	16" ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	100.00		
119	00749	EXTRA FOR ASPHALT APPROACHES	EA	98.00		
120	00749	EXTRA FOR SPOT GRIND AND INLAY AREAS	SQYD	1,500.00		
<i>WEARING SURFACES - SUBTOTAL</i>						
<b>PERMANENT TRAFFIC CONTROL</b>						
121	00855	BI-DIRECTIONAL YELLOW TYPE 1AR MARKERS, RECESSED	EA	800.00		
122	00866	HI-BUILD PAINT, 25 MIL, SPRAYED, SURFACE	FOOT	112,000.00		
123	00866	DRIBBLE LINE, SPRAYED, SURFACE	FOOT	28,000.00		
124	00867	PAVEMENT BAR, TYPE B-HS / SQFT	SQFT	60.00		
<i>PERMANENT TRAFFIC CONTROL-SUBTOTAL</i>						
<b>TOTAL</b>						

Total Price \_\_\_\_\_ Dollars and

\_\_\_\_\_ Cents

Name of Firm \_\_\_\_\_

Name (Print) \_\_\_\_\_

Signature \_\_\_\_\_

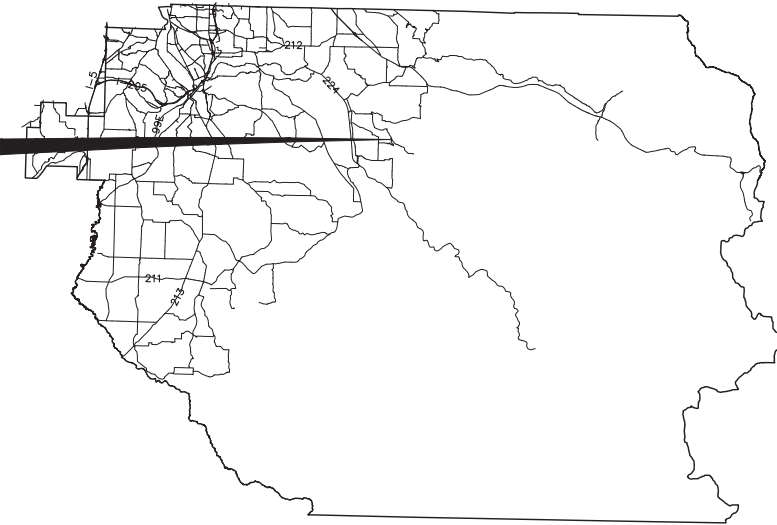
Date

K:\AUTOCADDATA\CNTY RD BY NAME\WILDCAT\_MOUNTAIN\_DR\_35001\2024\_PAVING\_PROJECT\WILDCAT\_PAVING\_PLANS\_RM.DWG 8/31/2017 2:39 PM

# CLACKAMAS COUNTY DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

PLANS FOR PROPOSED PROJECT  
PAVING, GRINDING, AND GRADING

## WILDCAT MOUNTAIN ROAD DRIVE PROJECT (FIRWOOD RD. - MP 0.00) to (END OF MAINTENANCE - MP 5.32) 2024 PAVEMENT PRESERVATION



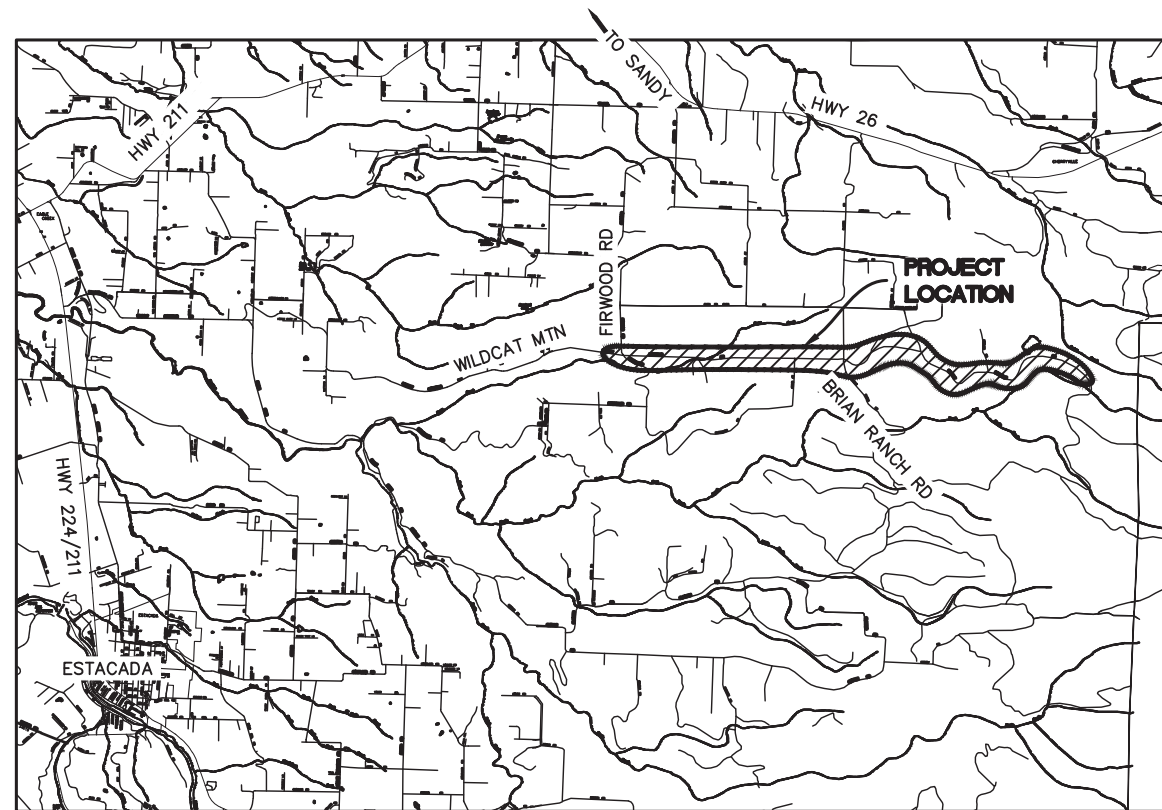
CLACKAMAS COUNTY

OREGON

INDEX OF SHEETS	
1	COVER SHEET
2	GENERAL NOTES
3	SYMBOLS AND LEGENDS
4	TYPICAL SECTIONS
5	ACP DETAILS
6	STRIPING DETAILS AND ACP REPAIR TYPICALS
7-27	PLAN SHEETS

**GENERAL NOTES:**

1. COORDINATE VALUE, MANHOLES AND UTILITY VAULT/BOX ADJUSTMENTS WITH UTILITIES.
2. PAVE DRIVEWAY TRANSITIONS. DEPTH, WIDTH AND LENGTH (2'-25') WILL VARY. LIMITS TO BE DETERMINED BY ENGINEER AFTER WEARING COURSE APPLIED.
3. CONTRACTOR TO RESTORE SHOULDER 2'-4' WIDTH, SEE DETAIL.



**RIGHT-OF-WAY REPRESENTATION:**

ALL LINE-WORK SHOWN RELATING PROPERTY BOUNDARY TO SCAN DATA IS FOR GRAPHICAL REPRESENTATION ONLY. ANY APPARENT DISCREPANCIES BETWEEN SAID DATA WILL REQUIRE FIELD VERIFICATION THROUGH A PROPER RIGHT-OF-WAY RESOLUTION.

VICINITY MAP  
NOT TO SCALE

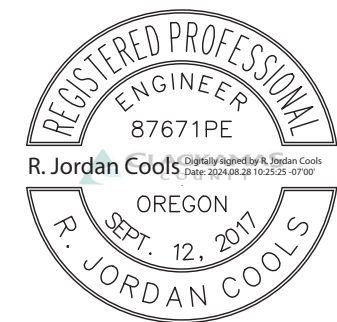


T. 3S, R. 5E, SEC. 1-6

### ROAD #35001

**ATTENTION !**

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



EXPIRES: 12/31/2025

COVER SHEET

WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

DATE: 6/26/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045



DIRECTOR  
DAN JOHNSON

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

REVISIONS

NO	DATE

Sheet No.

1

**GENERAL NOTES:**

- COORDINATE VALVE, MANHOLE AND UTILITY VAULT/BOX ADJUSTMENTS WITH UTILITY PROVIDERS.
- PAVE DRIVEWAY TRANSITIONS. DEPTH, WIDTH AND LENGTH WILL VARY (2'-25'). LIMITS TO BE DETERMINED BY ENGINEER AFTER WEARING COURSE IS APPLIED.
- RESTORE SHOULDER (2' - 4' WIDTH) SEE DETAIL
- GRADE ASPHALT TO MAINTAIN POSITIVE DRAINAGE
- HAVE ALL UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION.
- NOTIFY SCHOOL DISTRICT, EMERGENCY SERVICES, PUBLIC TRANSPORTATION AGENCIES AND LOCAL BUSINESSES WHEN TRAFFIC DELAYS ARE TO BE EXPECTED.
- ACCESS FOR EMERGENCY SERVICES SHALL BE MAINTAINED AT ALL TIMES.
- MAINTAIN ACCESSES TO BUSINESSES AND RESIDENCES AT ALL TIMES. TEMPORARY INTERRUPTIONS IN ACCESS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PROPERTY OWNERS/TENANT AND THE COUNTY INSPECTOR PRIOR TO IMPLEMENTING CLOSURE.
- INFORM AND CONTACT ALL AFFECTED RESIDENTS AND BUSINESSES WITH SPECIAL WRITTEN NOTICES APPROVED BY THE ENGINEER, WITHIN THE PROJECT AREA WITHIN 48 HOURS BEFORE EACH WORK ACTIVITY.
- COORDINATE ACCESS FOR SERVICES INCLUDING BUT NOT LIMITED TO: MAIL DELIVERY, TRASH PICKUP, TRANSIT AND ANY SPECIAL TRANSPORTATION SERVICES THAT EXIST WITHIN THE PROJECT AREA.
- OBTAIN STORAGE AND PARKING AREAS AS NEEDED. NO STAGING AREAS HAVE BEEN SECURED FOR THE CONTRACTORS USE. CONTRACTORS EMPLOYEES, SUPPLIERS AND SUBCONTRACTORS SHALL NOT PARK IN OR UTILIZE PRIVATE DRIVEWAYS OR PARKING LOTS WITHOUT PRIOR WRITTEN PERMISSION FROM THE PROPERTY OWNERS.
- AT THE END OF EACH WORK DAY CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURE MANNER.
- PRIOR TO FINAL ACCEPTANCE, CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ACP, CONCRETE OR OTHER ITEMS DEPOSITED BY CONTRACTOR PERSONNEL DURING THE PERFORMANCE OF THIS CONTRACT. RESTORE ALL SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES.

**RIGHT-OF-WAY REPRESENTATION:**

ALL LINE-WORK SHOWN RELATING PROPERTY BOUNDARY, UTILITIES OR FENCES IS FOR GRAPHICAL REPRESENTATION ONLY. ANY APPARENT DISCREPANCIES WILL REQUIRE FIELD VERIFICATION THROUGH A PROPER RIGHT-OF-WAY RESOLUTION OR FIELD SURVEY.

**14 DAYS PRIOR TO PAVING**

PAVING WILDCAT MTN DR	JUN XX TO JULY XX
-----------------------------	-------------------------

**DURING PAVING**

PAVING JUN XX- JULY XX	EXPECT DELAYS 7AM-7PM
------------------------------	-----------------------------

**PCMS MESSAGE SIGN**  
(SUGGESTED MESSAGE)  
(LOCATE AS DIRECTED)



**PILOT CAR SIGN**

NOTES:  
SIGN SHALL BE PLACED AT EACH DRIVEWAY APPROACH WHEN PILOT CAR IS USED.  
SIGN SHALL CONFORM TO ODOT DRAWING CR4-20 OR CR4-20A.



**PAVING SIGN**

**SIGN NOTES**

- SIGNS TO ORANGE BACKGROUND WITH BLACK LETTERING AND BORDERS.
- TEXT FONT TO BE FHWAC.
- COUNTY LOGO TO COMPLY WITH SPECIFICATIONS IN THE COUNTY BRAND GUIDE:  
[HTTP://WEB1.CLACKAMAS.US/PGA/LOGO.HTML#GUIDE](http://web1.clackamas.us/pga/logo.html#guide)
- CONTRACTORS APPROVED SCHEDULE TO DETERMINE DATES ON PROJECT NOTIFICATION SIGNS.

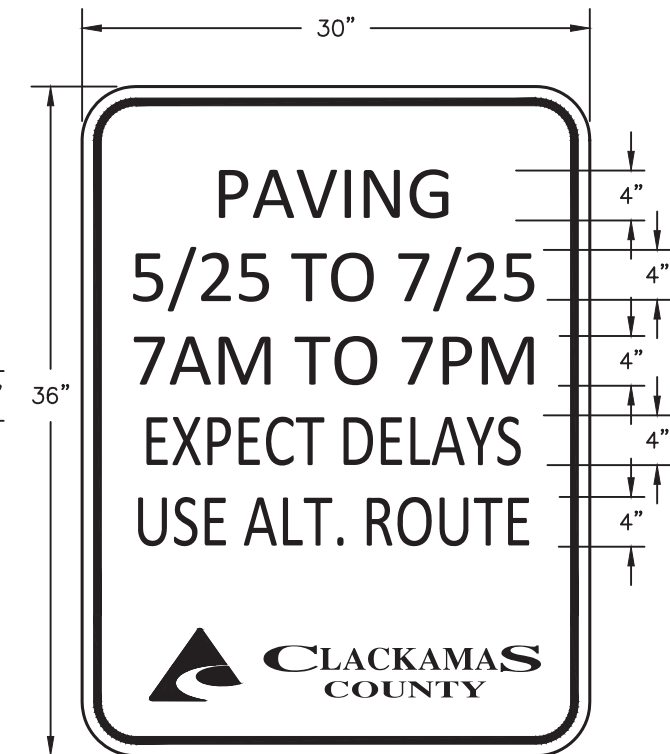
**ODOT STANDARD DRAWINGS**

RD 101	RD 420	RD 1005
RD 400	RD 610	RD 1010
RD 405	RD 615	RD 1032
RD 415	RD 701	RD 1033

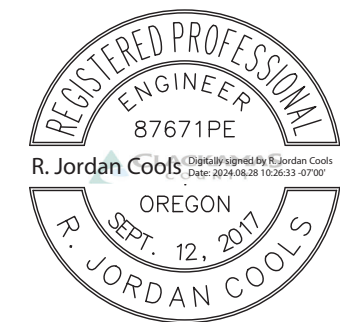
TM 500	TM 521	TM 820
TM 502	TM 530	TM 821
TM 503	TM 560	TM 822
TM 515	TM 800	TM 841
TM 517	TM 810	TM 850

**CLACKAMAS COUNTY ROADWAY STANDARD DRAWINGS**

D 500
M 150



**PROJECT NOTIFICATION SIGN**



EXPIRES: 12/31/2025

<b>GENERAL NOTES AND SIGNS</b>		<b>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</b>		<b>DATE: 6/26/2024</b>	<b>PROJECT NO.: CI-23315</b>
<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		<b>DIRECTOR</b> DAN JOHNSON			
DESIGNED BY: JC	DRAFTED BY: RM	CHECKED BY: STAFF			
<b>REVISIONS</b>					
NO	DATE	Updated std. dwg. list			
1	08/27/24	Added PCMS message details.			
2	08/27/24				
Sheet No.			2		

### SYMBOLS

EXISTING		PROPOSED		EXISTING		PROPOSED	
	MAIL BOX				DETECTOR LOOP		
	TELEPHONE RISER				JUNCTION BOX		
	TELEPHONE MANHOLE				SIGNAL CONTROLLER		
	UNIDENTIFIED UTILITY VAULT				SIGNAL HEAD		
	TELEPHONE VAULT				VIDEO DETECTION		
	POWER VAULT				SIGNAL POLE BASE		
	UTILITY POLE, GUY ANCHOR				STREET LITE 2		
	GB 2/GB-1 CATCH BASIN/CURB INLET				STREET LITE 1		
	DRAINAGE MANHOLE				PUSHBUTTON PED POLE		
	SANITARY MANHOLE				SINGLE SUPPORT SIGN		
	GAS METER				RAILROAD CROSSING SIGNAL		
	GAS VALVE				RAILROAD SIGNAL CONTROLLER		
	FIRE HYDRANT				RAILROAD CROSSING GATE		
	WATER METER				MONUMENT BOX		
	WATER VALVE						

### ABBREVIATIONS

CB	CATCH BASIN (INLET)	NE	NORTHEAST	EMB	EMBANKMENT	Sq Ft	SQUARE FEET
CL	CENTERLINE	NW	NORTHWEST	EQUA	EQUATION	STD	STANDARD
CTR	CENTER	No.	NUMBER	EXC	EXCAVATION	STA	STATION
COMP	COMPACTED	OBL	OBLITERATE	EXTG	EXISTING	STL	STEEL
CONC	CONCRETE	OH/P/T/C	OVERHEAD///UTILITIES	FH	FIRE HYDRANT	ST	STREET
CONST	CONSTRUCT	P	POWER	FL	FLOW LINE	STRM	STORM
CONT	CONTINUOUS	PP	POWER (UTILITY) POLE	FND	FOUND	STR, STRUCT	STRUCTURE
COR	CORNER	PPL	POWER POLE W/ LIGHT	FDTN	FOUNDATION	SURF	SURFACING
Cu.Yd.	CUBIC YARD	PER	PERPENDICULAR	FT	FEET	T(1-3)	TOWNSHIP
CULV	CULVERT	PL	PLATE	GA	GAGE	T, TEL	TELEPHONE
DIA	DIAMETER	R(1-7)	RANGE	GALV	GALVANIZED	TEMP	TEMPORARY
DIST	DISTANCE	REM	REMOVE	G V	GAS VALVE	THKN	THICKNESS
DLC	DONATION LAND CLAIM	RT	RIGHT	GAR	GARAGE	TYP SECT	TYPICAL SECTION
DWG	DRAWING	R/W, ROW	RIGHT OF WAY	GEN	GENERAL	VAR	VARIABLE
DR	DRIVE	SAN	SANITARY	HT	HEIGHT	VERT	VERTICAL
DWY	DRIVEWAY	SECT	SECTION	HWY	HIGHWAY	W M	WILLAMETTE MERIDIAN
EA	EACH	SEW	SEWER	HORIZ	HORIZONTAL	WAT	WATER
E	EAST	SL	SLOPE	IE	INVERT ELEV	WAT M	WATER METER
EASE	EASEMENT (ALL PURPOSES)	S	SOUTH	IN PL	IN PLACE	WV	WATER VALVE
ELECT	ELECTRICAL	SE	SOUTHEAST	INST	INSTALL	W	WEST
ELEV	ELEVATION	SW	SOUTHWEST	IR	IRON ROD		

### LINETYPES

EXISTING		PROPOSED	
	AUDIBLE WARNING (CURB RAMP)		
	CONCRETE SURFACE		
	EDGE OF UNPAVED SURFACE		
	EDGE OF PAVED SURFACE		
	FENCE LINE		
	GUARDRAIL		
	EASEMENT LINE		
	CENTERLINE		
	ROAD RIGHT OF WAY		
	CITY BOUNDARY		
	COUNTY BOUNDARY		
	DLC BOUNDARY WIDTH		
	STORM PIPE		
	DITCH LINE		
	PUBLIC WATER LINE		
	SANITARY SEWER LINE		
	FIBER OPTIC LINE		
	UNDERGROUND TELEPHONE LINE		
	UNDERGROUND POWER LINE		
	CABLE TELEVISION LINE		
	GAS LINE		
	HIGH PRESSURE GAS		
	SIGNAL CONDUIT		

SYMBOLS AND LEGEND  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT  
DATE: 6/26/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045  
DAN JOHNSON  
DIRECTOR

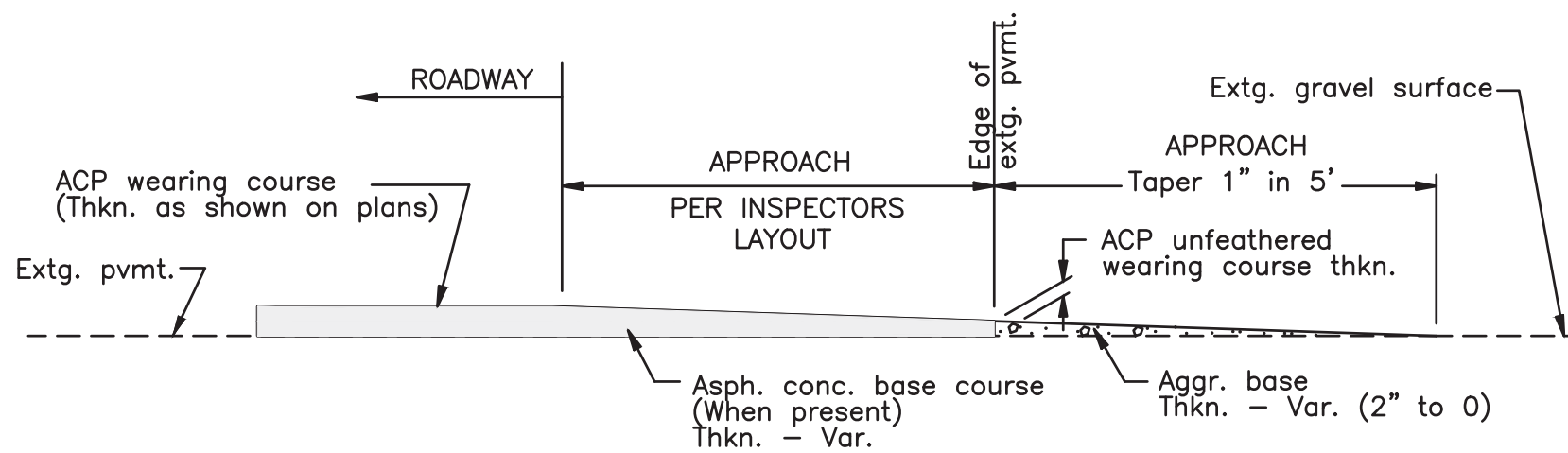
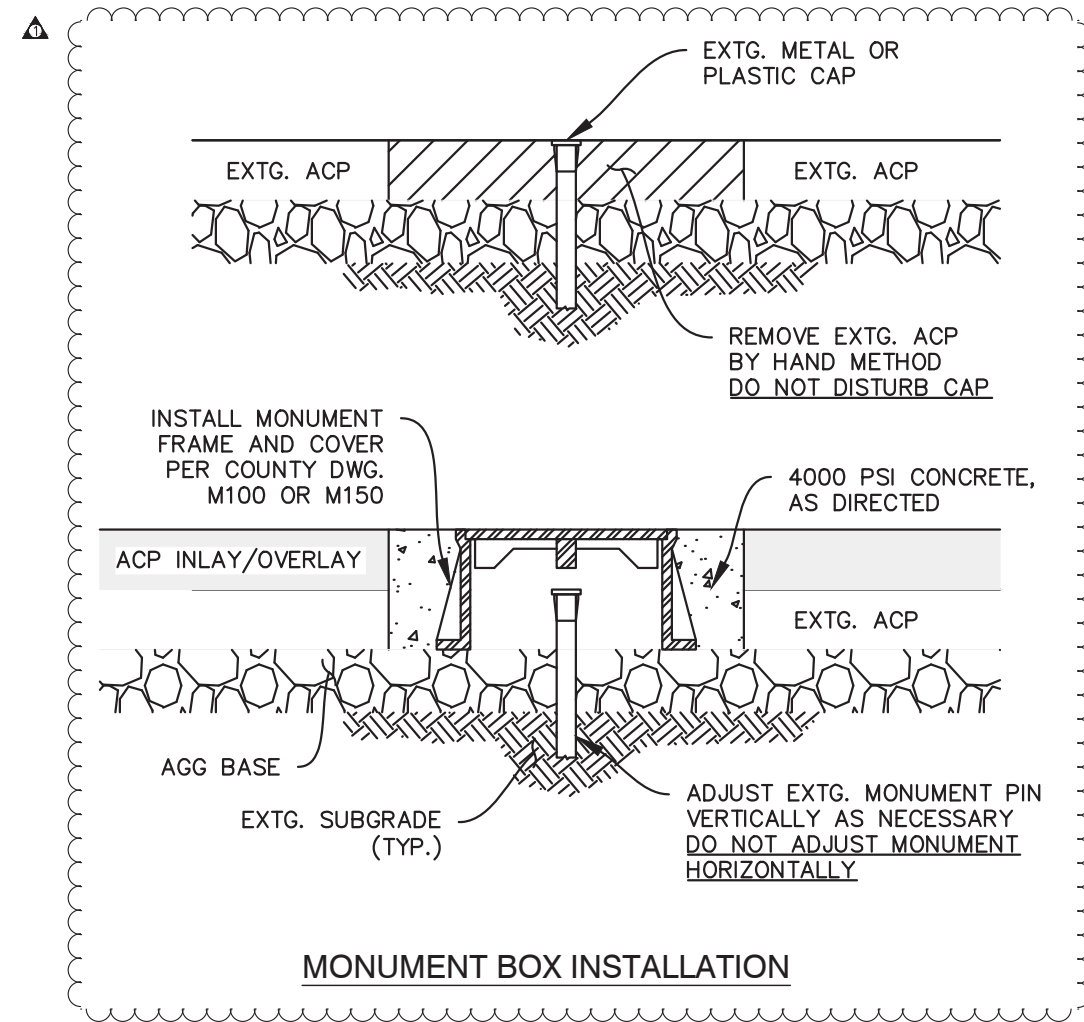
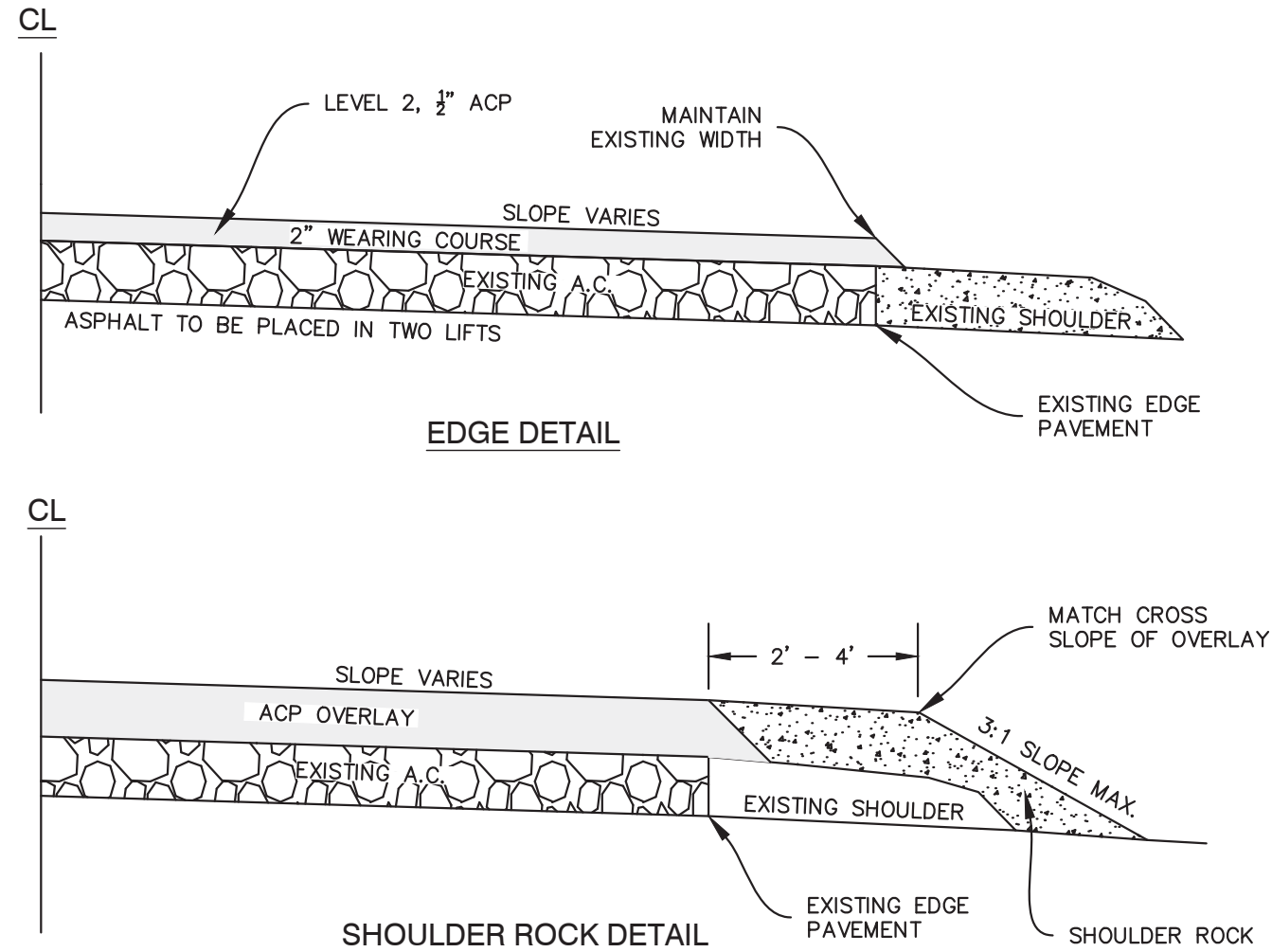
DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

NO.	DATE:	REVISIONS



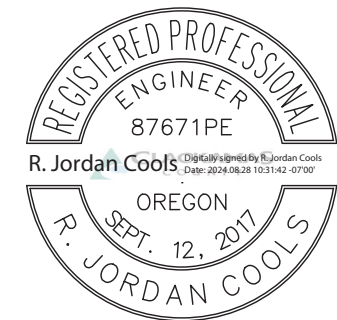


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**ASPHALT APPROACH GENERAL NOTES:**

ASPHALT APPROACHES ON PLANS ARE VISUAL FOR ESTIMATING PURPOSES ONLY. ASPHALT APPROACHES SHALL BE BUILT PER THE INSPECTOR'S FIELD LAYOUT. INSPECTOR WILL LAYOUT ASPHALT APPROACHES **AFTER** MAIN LINE PAVING HAS BEEN COMPLETED.

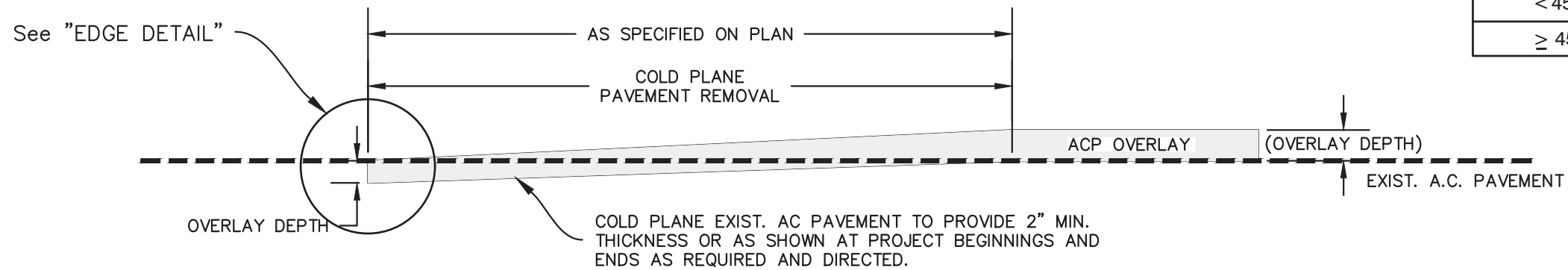


EXPIRES: 12/31/2025

TYPICAL SECTIONS		WILDCAT MOUNTAIN DRIVE PAVING PROJECT	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		DIRECTOR DAN JOHNSON	
DESIGNED BY: JC	DRAFTED BY: RM	CHECKED BY: STAFF	PROJECT NO.: CI-23315
NO.	DATE:	REVISIONS	
1	08/27/24	Added monument box installation detail.	
Sheet No.			4

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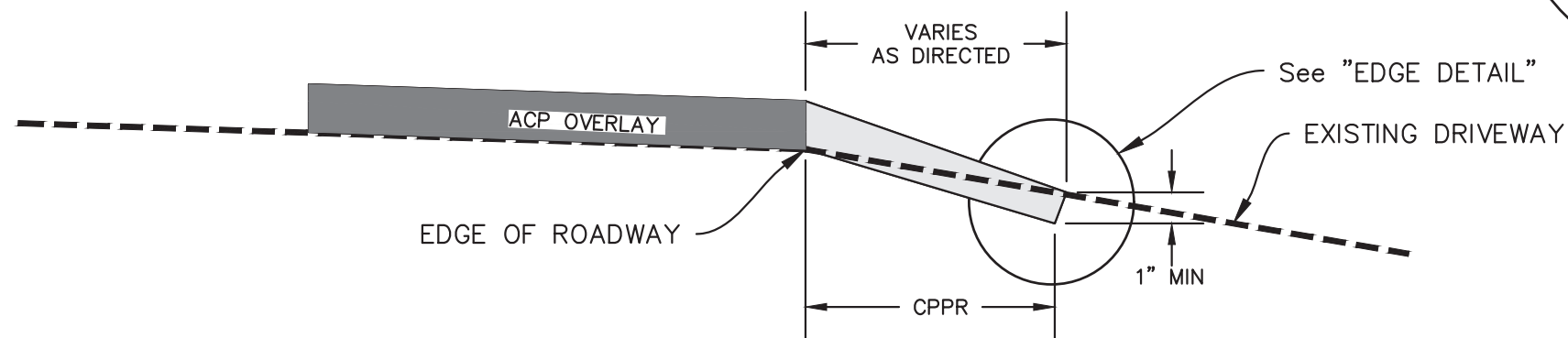
**ACP PAVEMENT MATCH AT PROJECT ENDS OR BRIDGE ENDS  
WHEN NOT OVERLAYING THE BRIDGE**



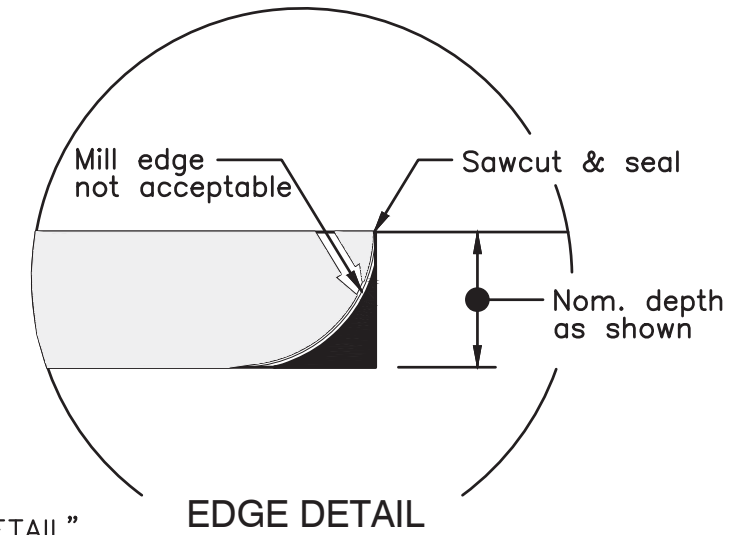
**METHOD C**

TABLE 1 TAPER LENGTHS	
Posted Speed	Taper Length
< 45 mph	1" per 50'
≥ 45 mph	1" per 100'

**ASPHALT DRIVEWAY APPROACH**

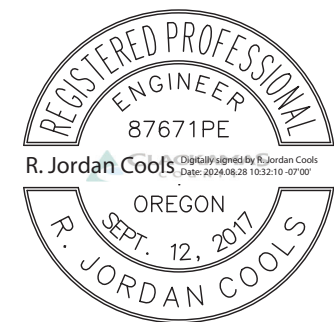


**METHOD E**



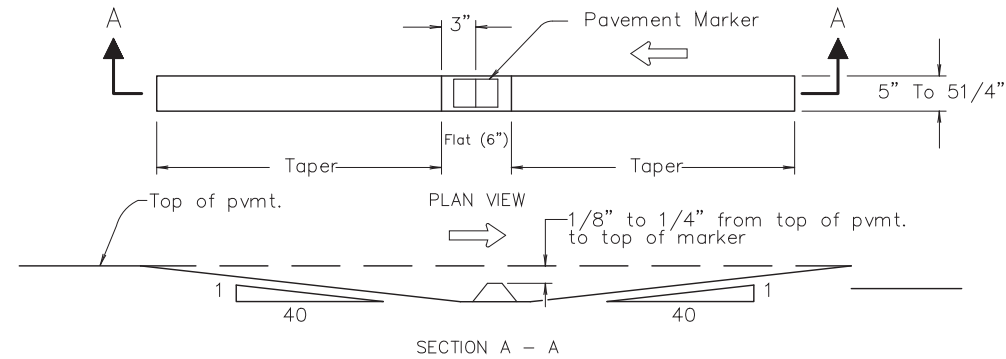
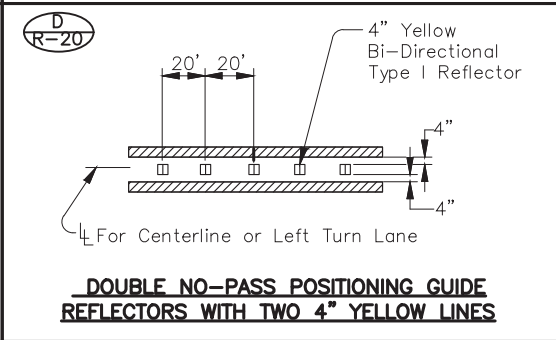
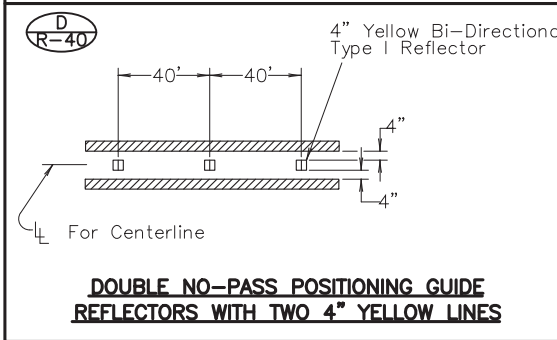
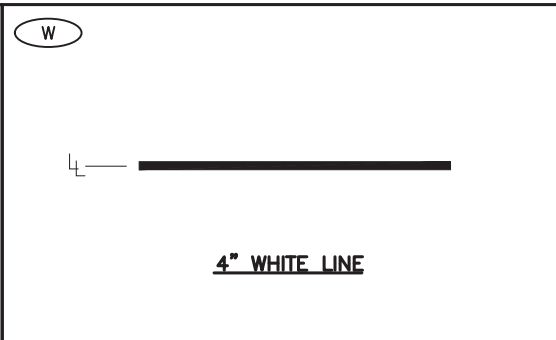
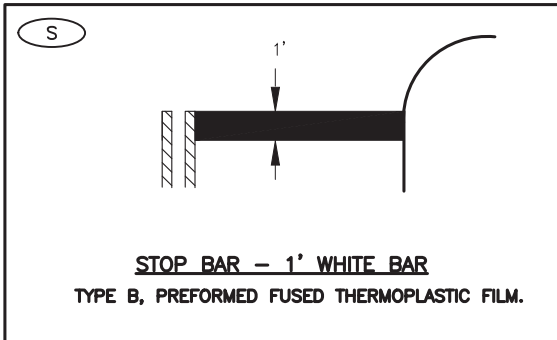
**COLD PLANE PAVEMENT REMOVAL (CPPR)  
GENERAL NOTES:**

- ALL CPPR DIRECTED BY ENGINEER SHALL BE PAID UNDER THE FOLLOWING PAY ITEM(S):
- COLD PLANE PAVEMENT REMOVAL, 0 -3 INCHES DEEP



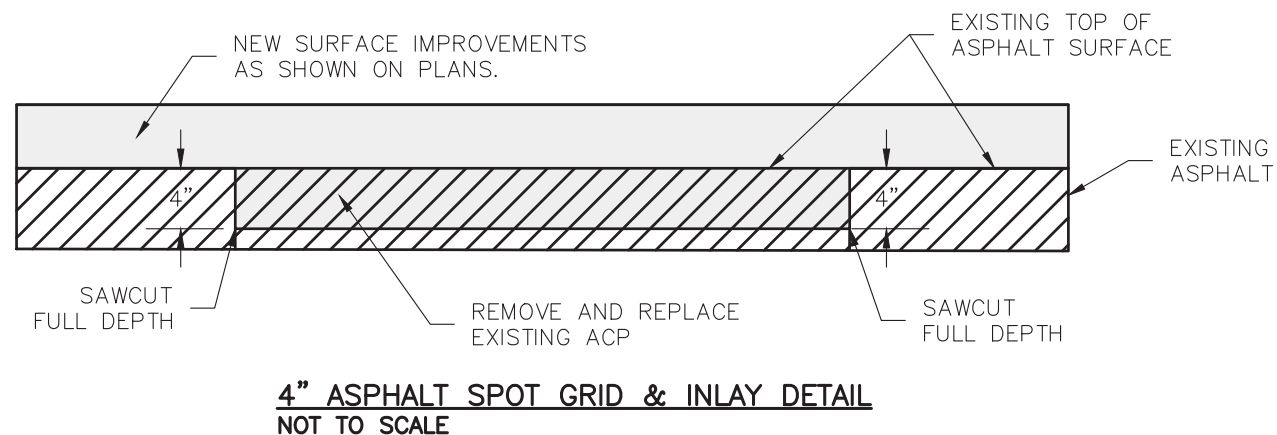
EXPIRES: 12/31/2025

ACP DETAILS		
WILDCAT MOUNTAIN DRIVE PAVING PROJECT		
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON	
DESIGNED BY: JC	CHECKED BY: STAFF	
DRAFTED BY: RM		
PROJECT NO.: CI-23315 DATE: 7/11/2024		
REVISIONS		
NO.	DATE:	
Sheet No.		5



**BI-DIRECTIONAL RECESSED PAVEMENT MARKER DETAIL**

LW= LANE WIDTH= DISTANCE BETWEEN STRIPES (CENTER TO CENTER)  
REFLECTIVE PAVEMENT MARKERS SHALL BE RECESSED PER DETAIL.

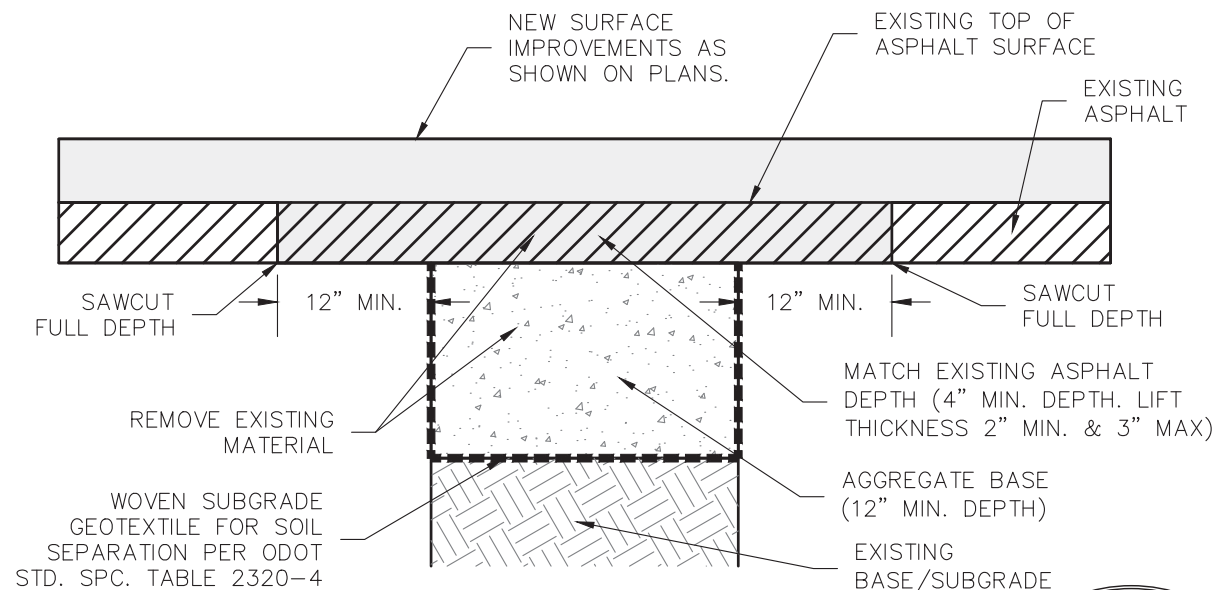


**NOTE:**  
PAYMENT WILL BE PAYMENT IN FULL FOR FURNISHING AND PLACING ALL MATERIALS, AND FOR FURNISHING ALL EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ACP WILL BE PAID FOR ACCORDING TO 00745.90. ALL CPPR DIRECTED BY ENGINEER WILL BE PAID ACCORDING TO 00620.90 UNDER PAY ITEM "COLD PLANE PAVEMENT REMOVAL, 0 -3 INCHES DEEP".

NO SEPARATE OR ADDITIONAL PAYMENT WILL BE MADE FOR SAW CUTTING, EXCAVATION, AGGREGATE, AND WATER.

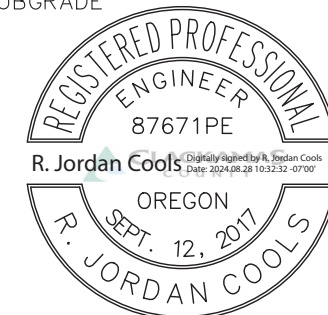
\*ALL SURFACES SHALL BE GROUND AND PAVED BACK DURING THE SAME SHIFT.



**NOTE:**  
PAYMENT WILL BE PAYMENT IN FULL FOR FURNISHING AND PLACING ALL MATERIALS, AND FOR FURNISHING ALL EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ACP WILL BE PAID FOR ACCORDING TO 00745.90

NO SEPARATE OR ADDITIONAL PAYMENT WILL BE MADE FOR SAW CUTTING, EXCAVATION, COLD PLANE PAVEMENT REMOVAL, GEOSYNTHETICS, STONE EMBANKMENT, AGGREGATE, AND WATER.



EXPIRES: 12/31/2025

STRIPING DETAILS  
WILDCAT MOUNTAIN DRIVE  
PAVING PROJECT

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045



DAN JOHNSON  
DIRECTOR

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

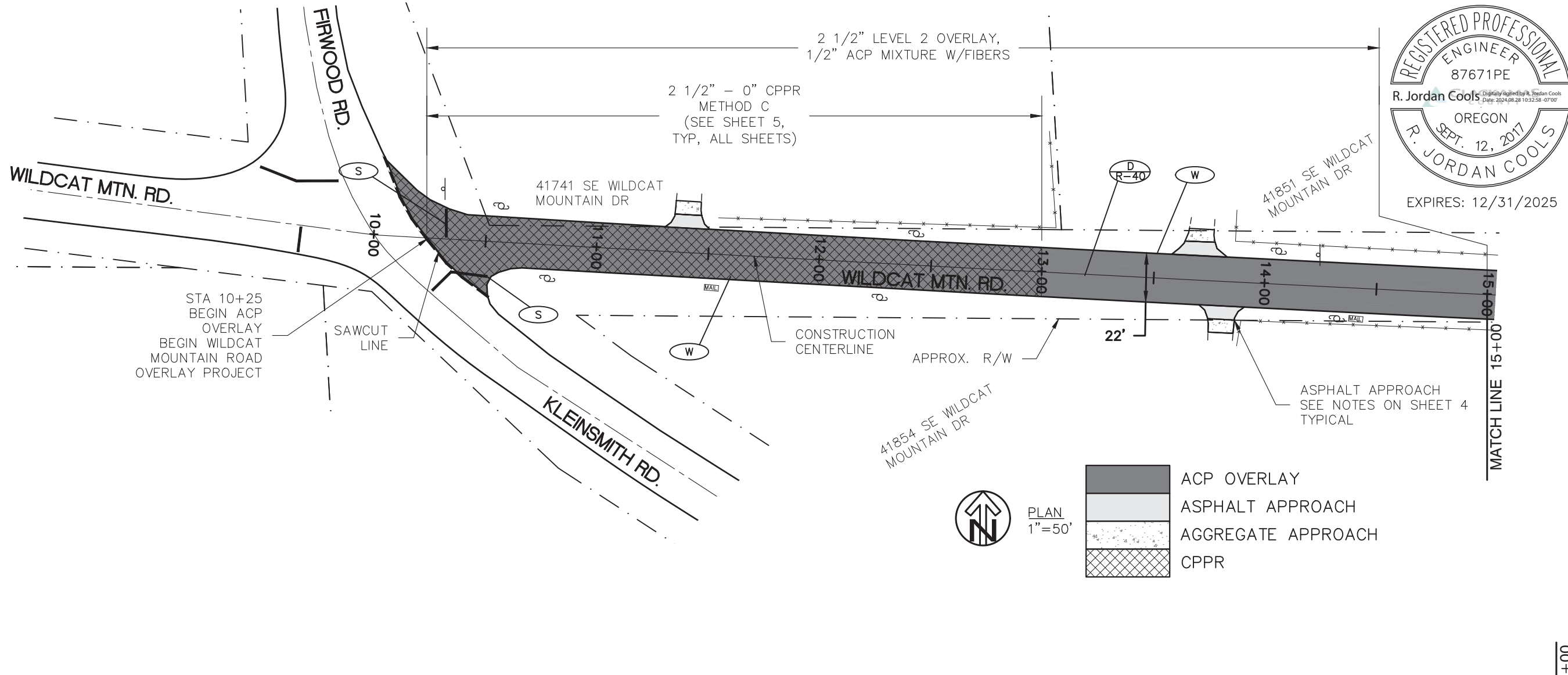
REVISIONS

NO.	DATE:		

Sheet No.



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**REGISTERED PROFESSIONAL ENGINEER**  
 87671PE  
 R. Jordan Cools  
 OREGON  
 SEPT. 12, 2017  
 R. JORDAN COOLS  
 EXPIRES: 12/31/2025

**PLAN**  
 WILDCAT MOUNTAIN DRIVE  
 PAVING  
 PROJECT

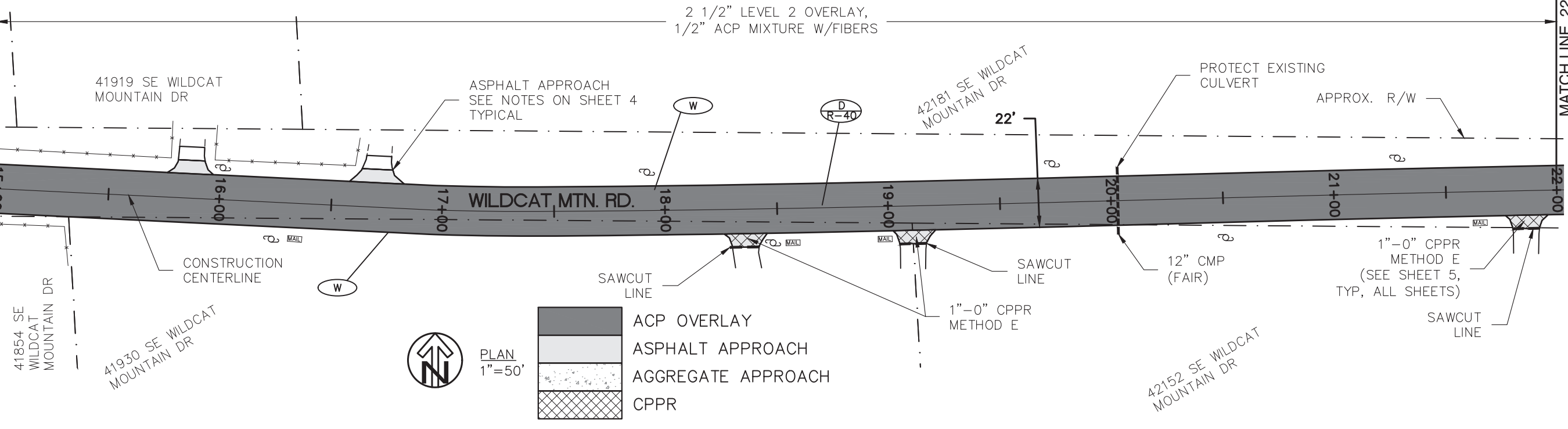
**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

REVISIONS	
NO.	DATE:

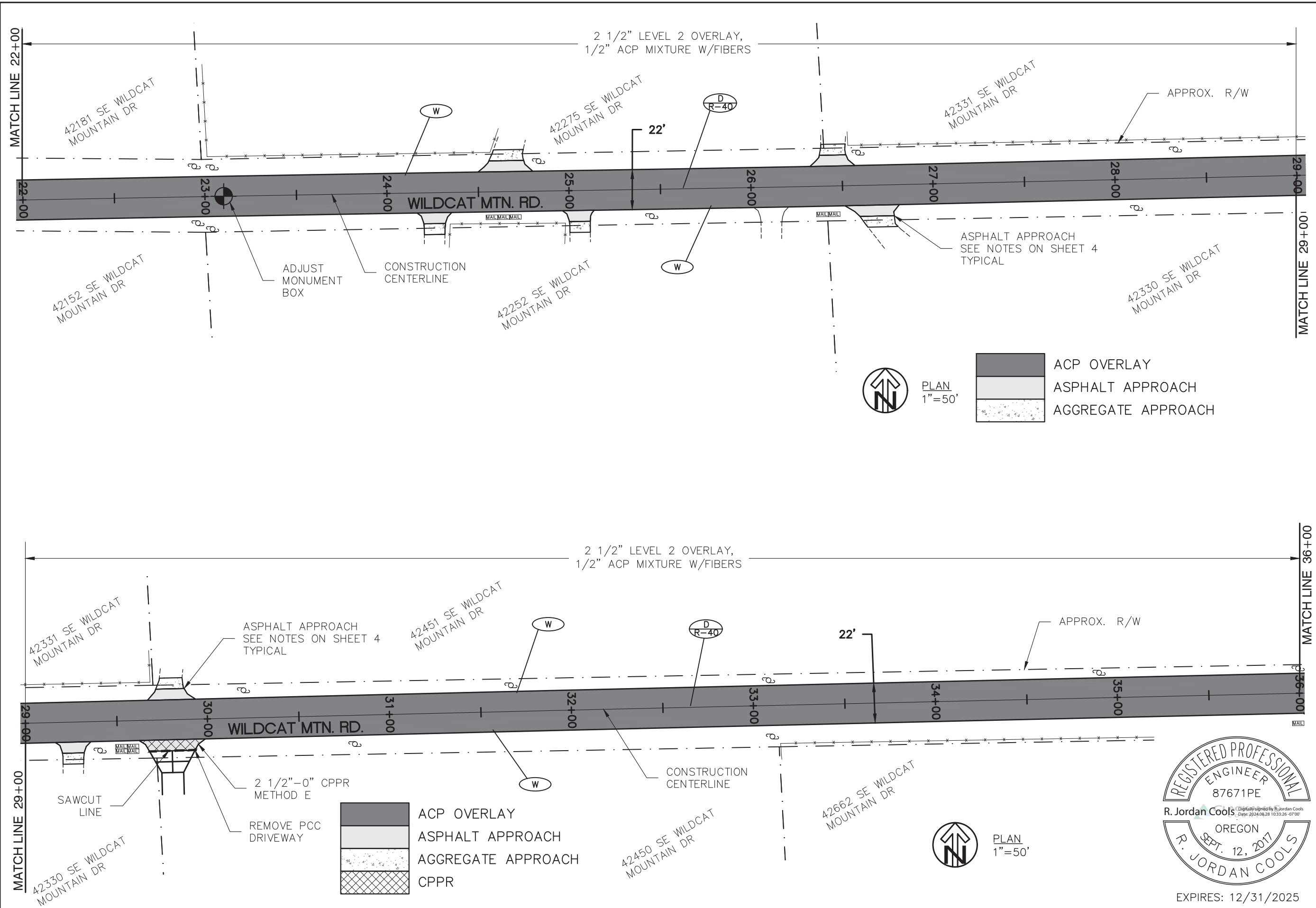
DESIGNED BY: JC	CHECKED BY: STAFF
DRAFTED BY: RM	

DATE: 7/19/2024 PROJECT NO.: CI-23315



**ACP OVERLAY**  
**ASPHALT APPROACH**  
**AGGREGATE APPROACH**  
**CPPR**

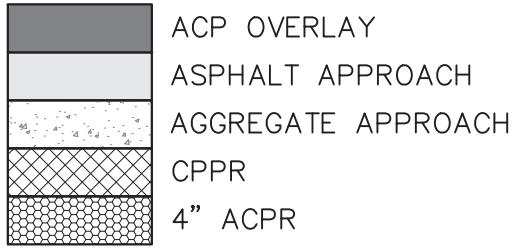
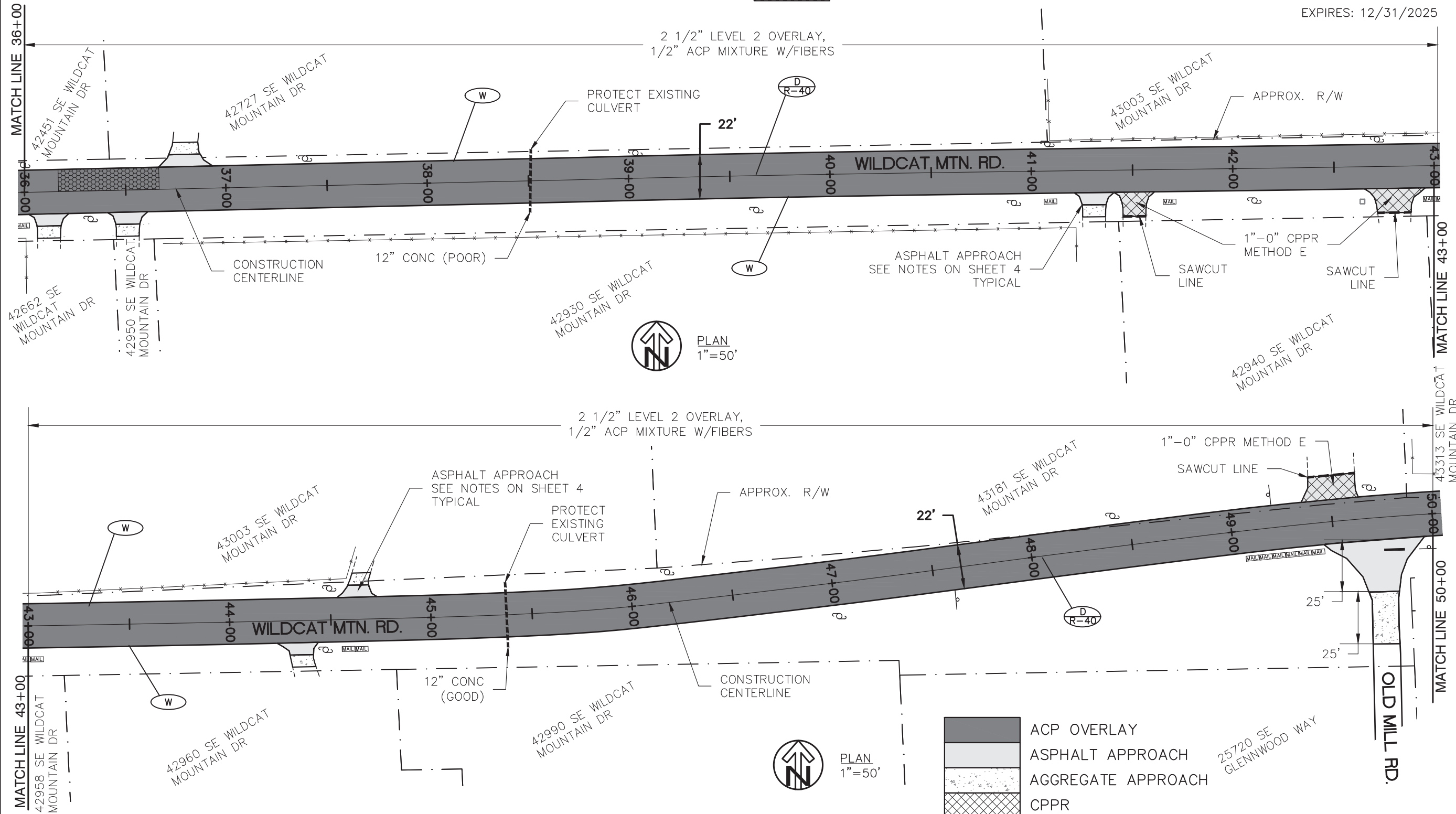
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<p>CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045</p>		<p>CLACKAMAS COUNTY DIRECTOR DAN JOHNSON</p>									
<p>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</p>		<p>DATE: 7/22/2024 PROJECT NO.: CI-23315</p>									
<p>DESIGNED BY: JC</p>		<p>REVISIONS</p> <table border="1"> <tr> <td>NO.</td> <td>DATE:</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	NO.	DATE:							
NO.	DATE:										
<p>DRAFTED BY: RM</p>											
<p>CHECKED BY: STAFF</p>											
<p>Sheet No. 8</p>		<p>EXPIRES: 12/31/2025</p>									



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PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

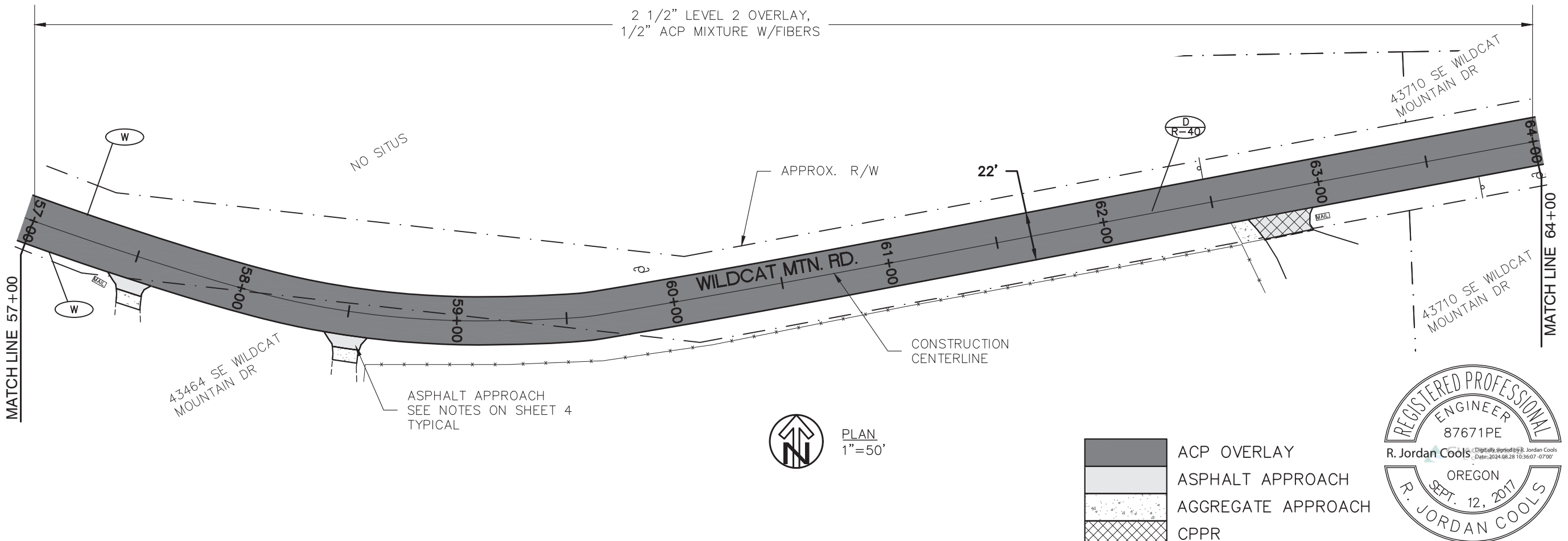
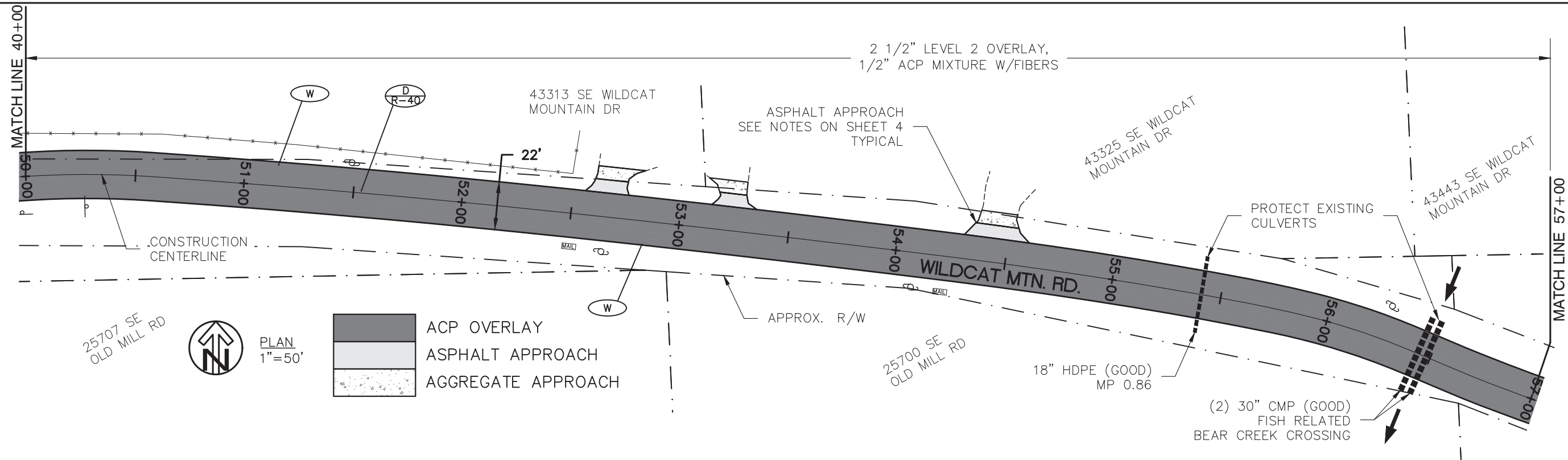
CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DIRECTOR  
DAN JOHNSON

DESIGNED BY: jc  
DRAFTED BY: RM  
CHECKED BY: STAFF

NO.	DATE:	REVISIONS

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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

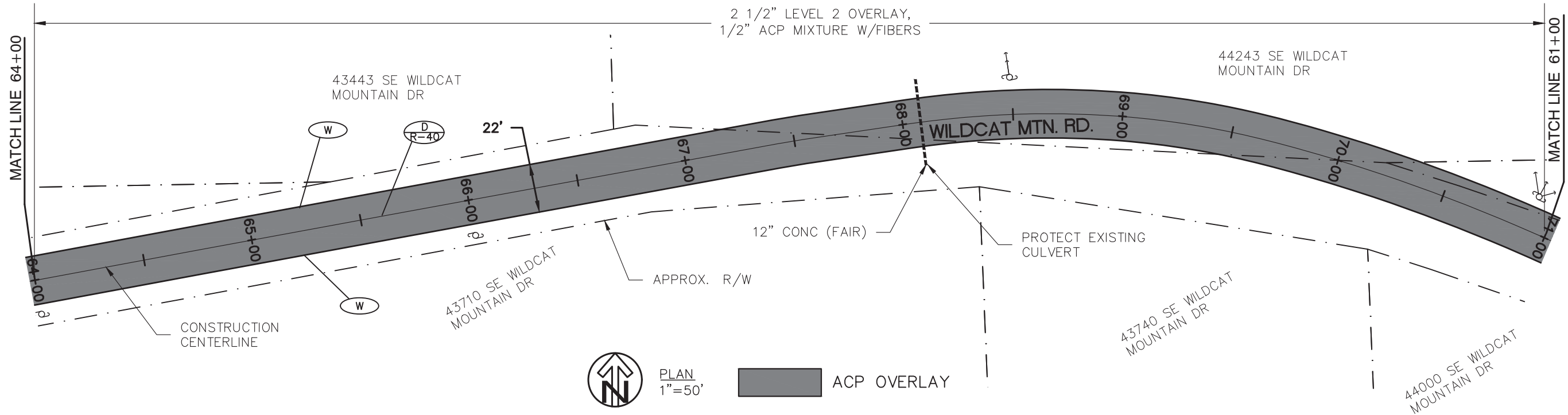
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DRAFTED BY:	RM
CHECKED BY:	STAFF
NO.	DATE:

ACP OVERLAY  
 ASPHALT APPROACH  
 AGGREGATE APPROACH  
 CPPR

**REGISTERED PROFESSIONAL**  
**ENGINEER**  
 87671PE  
 R. Jordan Cools  
Digitally signed by R. Jordan Cools  
 Date: 2024.08.28 10:36:07 -0700  
**OREGON**  
**SEPT. 12, 2017**  
**R. JORDAN COOLS**  
 EXPIRES: 12/31/2025

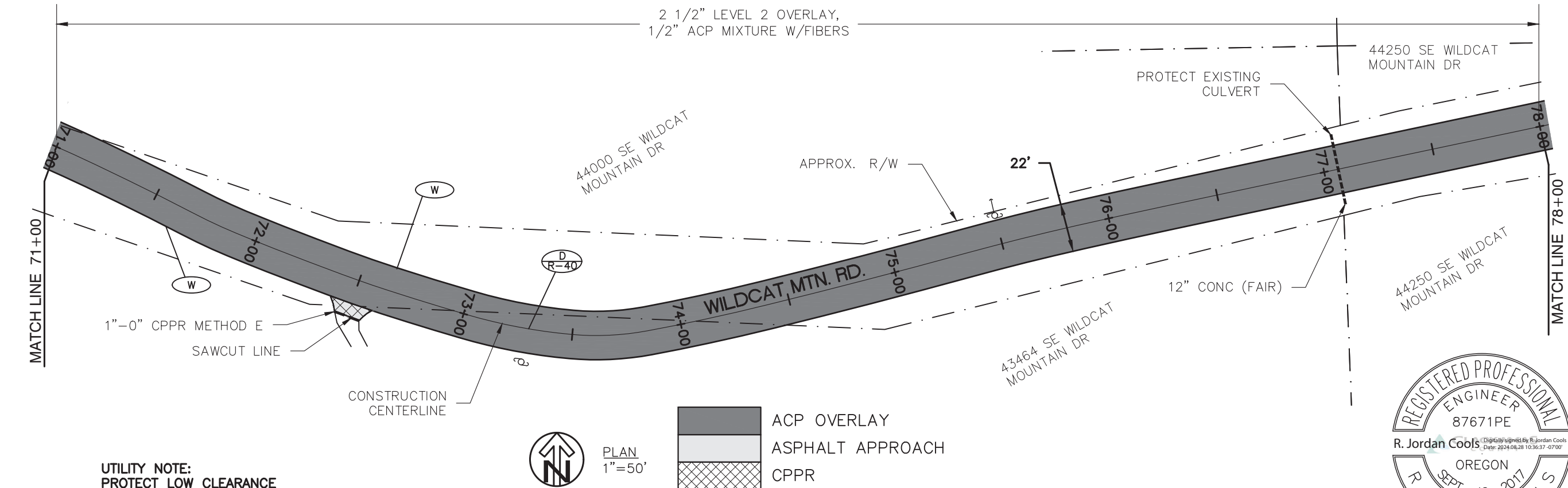


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PLAN  
1"=50'

ACP OVERLAY



PLAN  
1"=50'

ACP OVERLAY  
ASPHALT APPROACH  
CPPR

UTILITY NOTE:  
PROTECT LOW CLEARANCE  
OVERHEAD LINES.



EXPIRES: 12/31/2025

PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DIRECTOR  
DAN JOHNSON

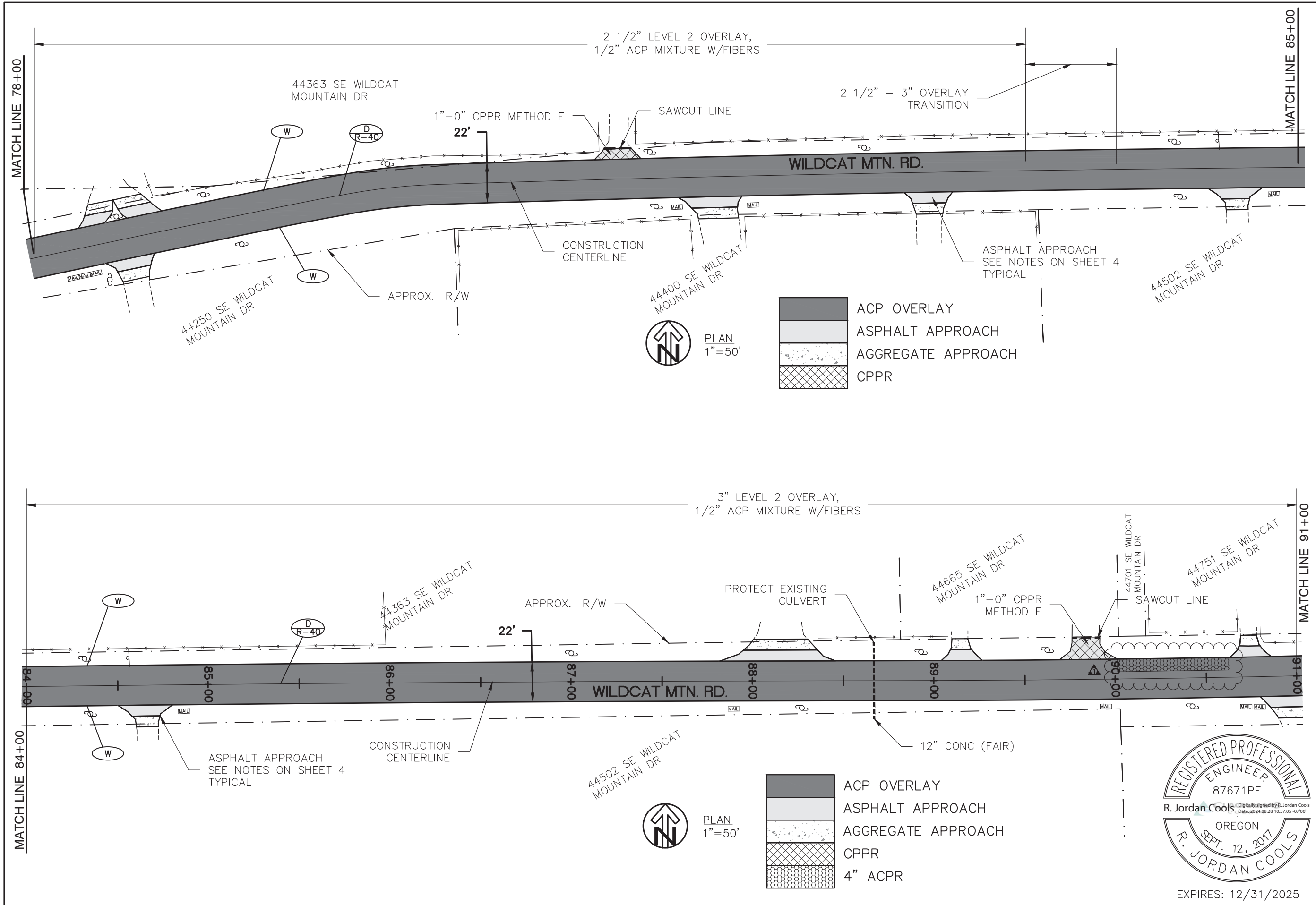
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CHECKED BY: STAFF

NO.	DATE	REVISIONS

Sheet No. 11

DATE: 7/24/2024 PROJECT NO.: CI-23315

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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

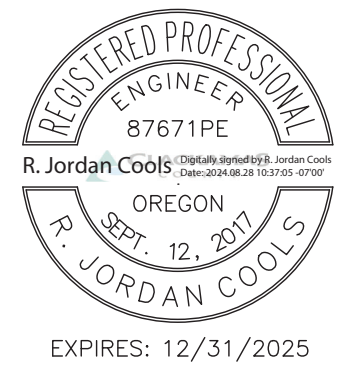
**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DAN JOHNSON**  
 DIRECTOR

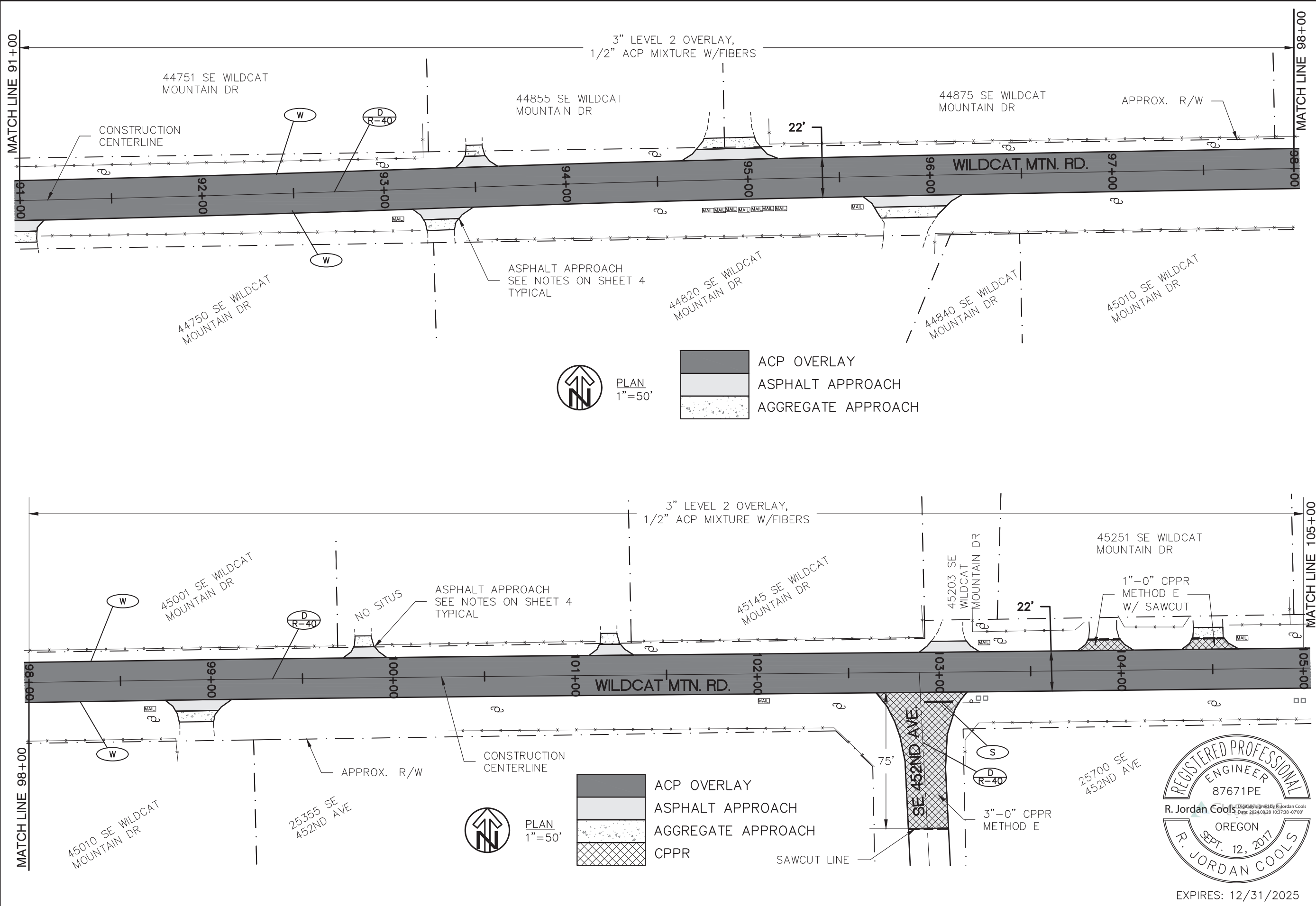
DESIGNED BY:	JC
DRAFTED BY:	RM
CHECKED BY:	STAFF

NO.	DATE	REVISIONS
1	06/27/24	Added 4" Spot Grind & Inlay ACPFR area.



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PLAN  
1"=50'

- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH



PLAN  
1"=50'

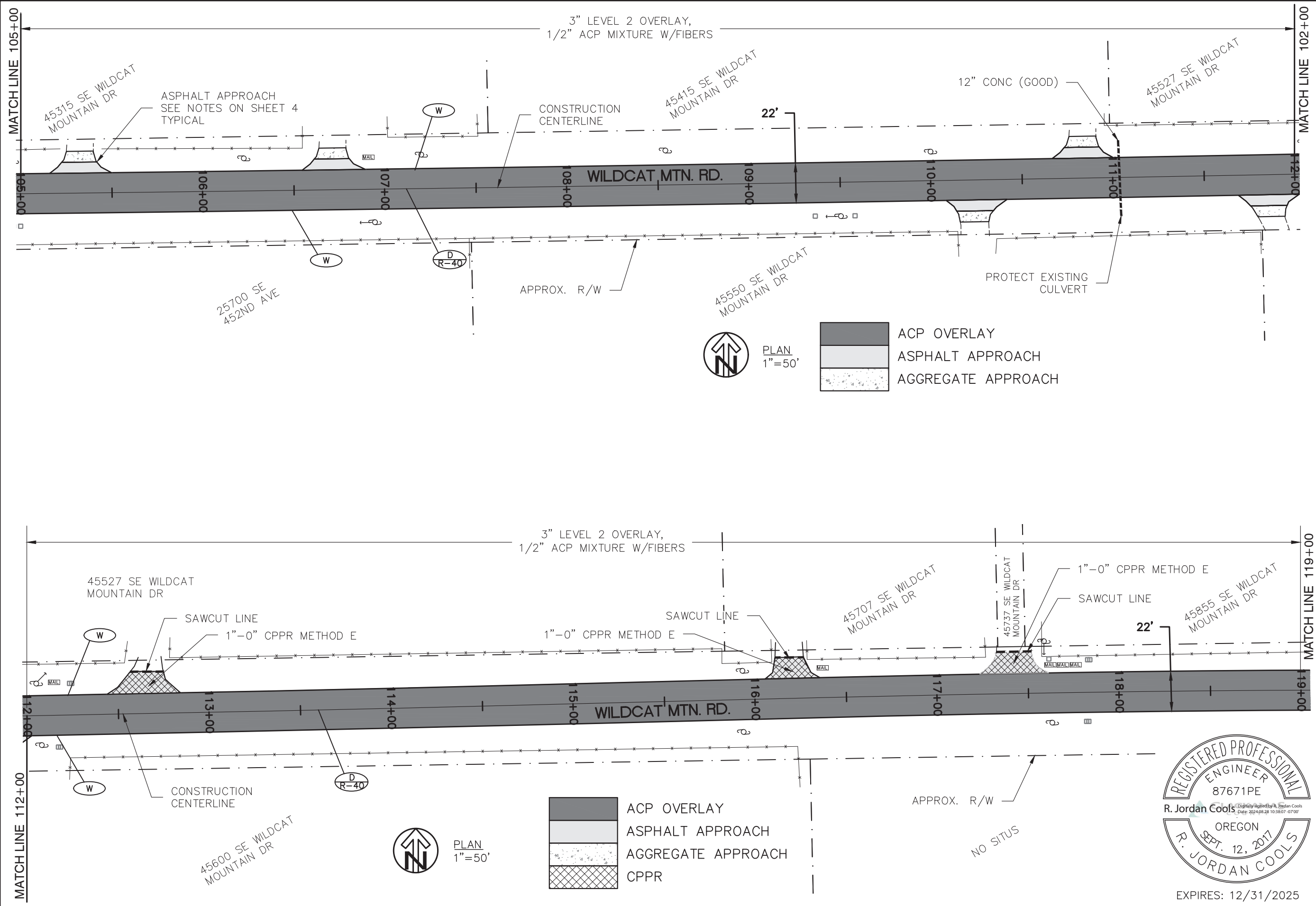
- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH
- CPPR



<b>PLAN</b>	
<b>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</b>	
<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	<b>DIRECTOR</b> DAN JOHNSON
DESIGNED BY: JC	PROJECT NO.: CI-23315
DRAFTED BY: RM	DATE: 7/24/2024
CHECKED BY: STAFF	
<b>REVISIONS</b>	
NO.	DATE:
Sheet No. <b>13</b>	

EXPIRES: 12/31/2025

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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

**DIRECTOR**  
 DAN JOHNSON

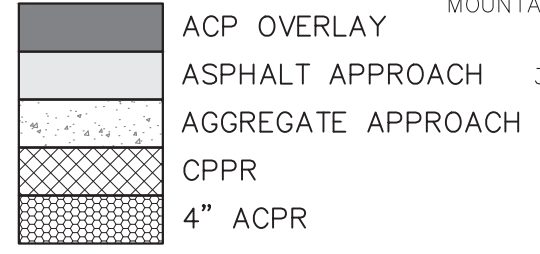
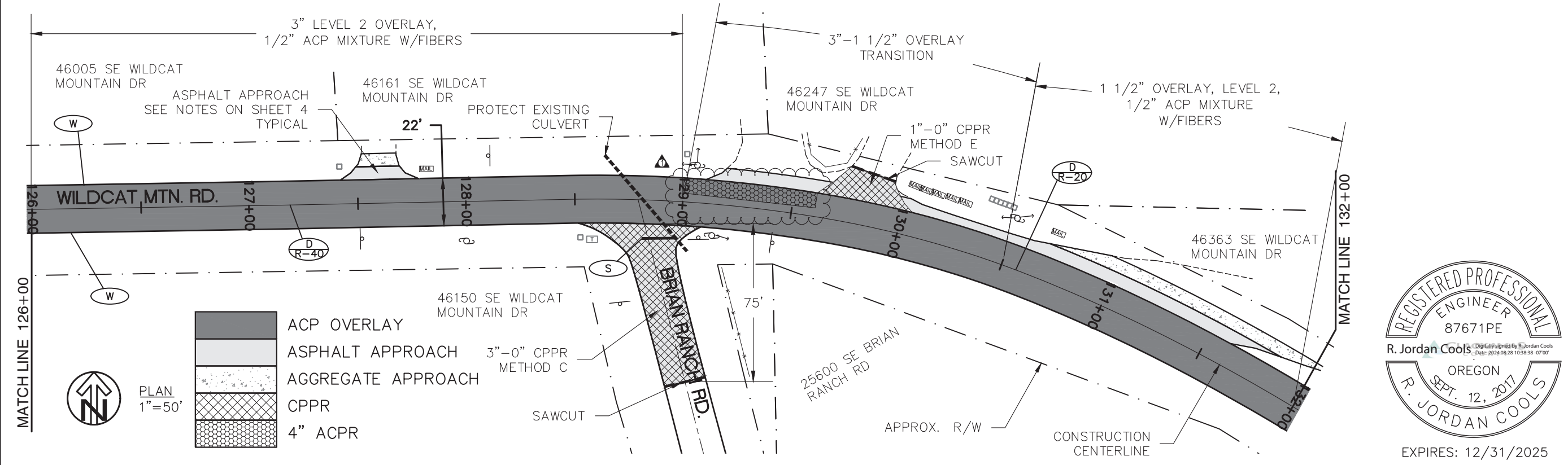
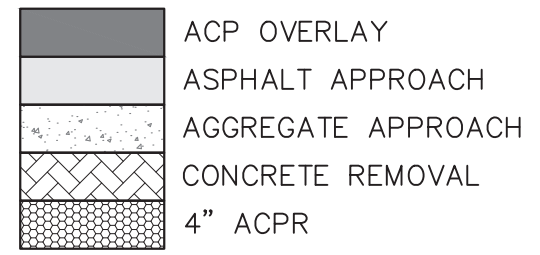
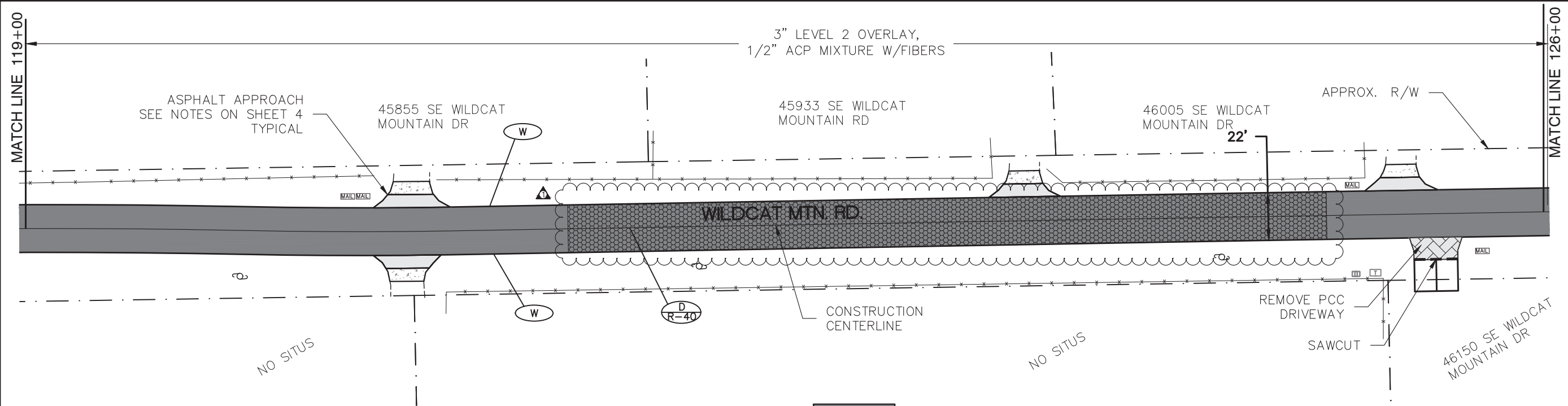
NO.	DATE	REVISIONS

DESIGNED BY: JC  
 DRAFTED BY: RM  
 CHECKED BY: STAFF





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**PLAN**  
**WILDCAT MOUNTAIN DRIVE**  
**PAVING**  
**PROJECT**

**CLACKAMAS COUNTY**  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045

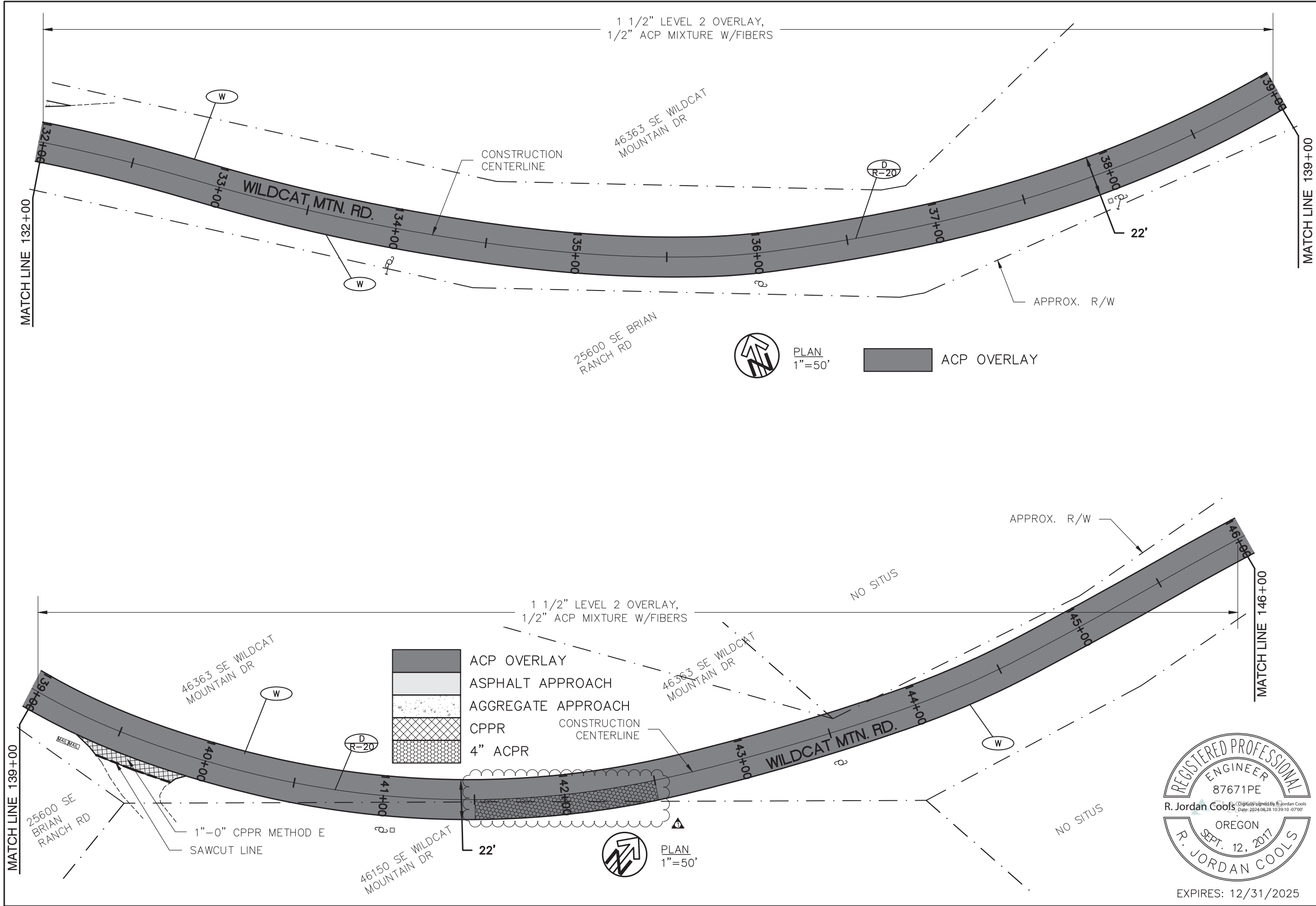
**DAN JOHNSON**  
 DIRECTOR

DESIGNED BY: JC  
 DRAFTED BY: RM  
 CHECKED BY: STAFF

REVISIONS	
NO.	DATE
1	06/27/24
	Added 4" Spot Grind & Inlay ACPR area.



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<p>CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045</p>		<p>CLACKAMAS COUNTY DAN JOHNSON DIRECTOR</p>
<p>DESIGNED BY: JC</p>		<p>DIRECTOR</p>
<p>DRAFTED BY: RM</p>		<p>DATE: 7/24/2021</p>
<p>CHECKED BY: STAFF</p>		<p>PROJECT NO.: CI-23315</p>
<p>NO. DATE: 1 06/27/24</p>		<p>REVISIONS</p>
<p>1 06/27/24 Added 4" Spot Grind &amp; Inlay ACPR area.</p>		<p>Sheet No. 16</p>

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EXPIRES: 12/31/2025

PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT

DATE: 7/24/2024 PROJECT NO.: CI-23315

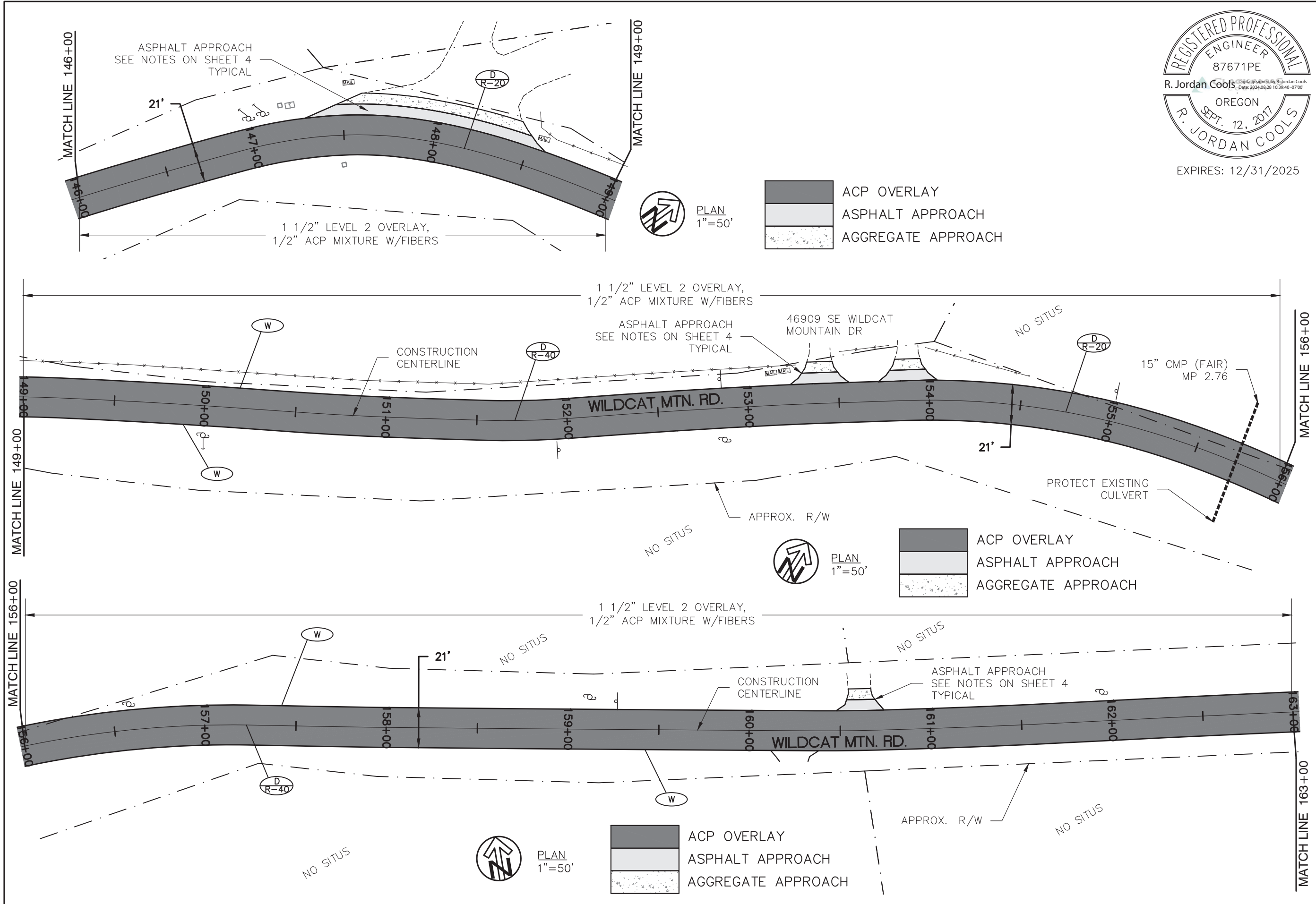
CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045

DAN JOHNSON  
DIRECTOR

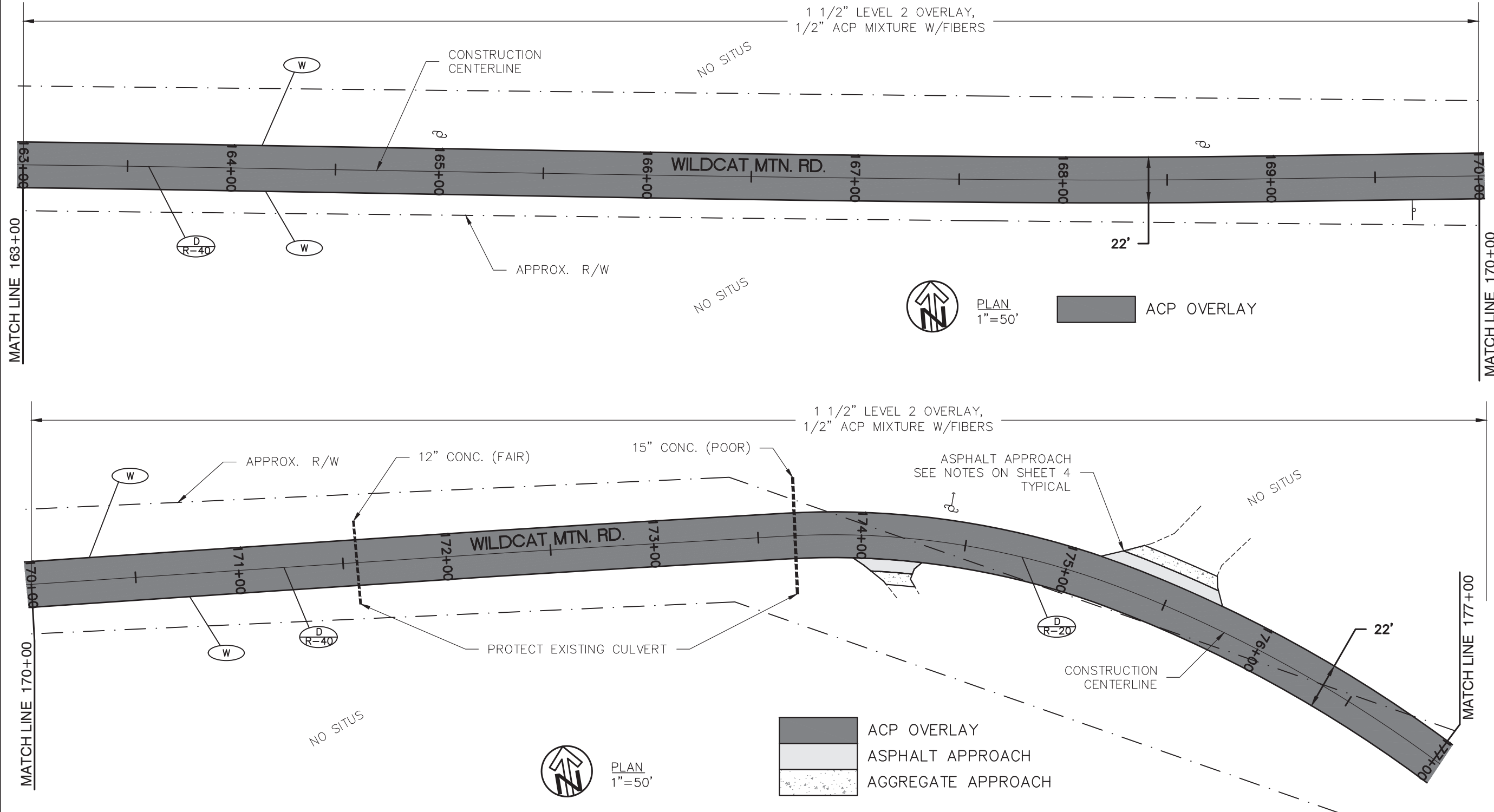
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DRAFTED BY: RM  
CHECKED BY: STAFF

NO.	DATE:	REVISIONS

Sheet No. 17



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PLAN  
 WILDCAT MOUNTAIN DRIVE  
 PAVING  
 PROJECT  
 DATE: 7/24/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
 DEPT. OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045  
 DIRECTOR  
 DAN JOHNSON

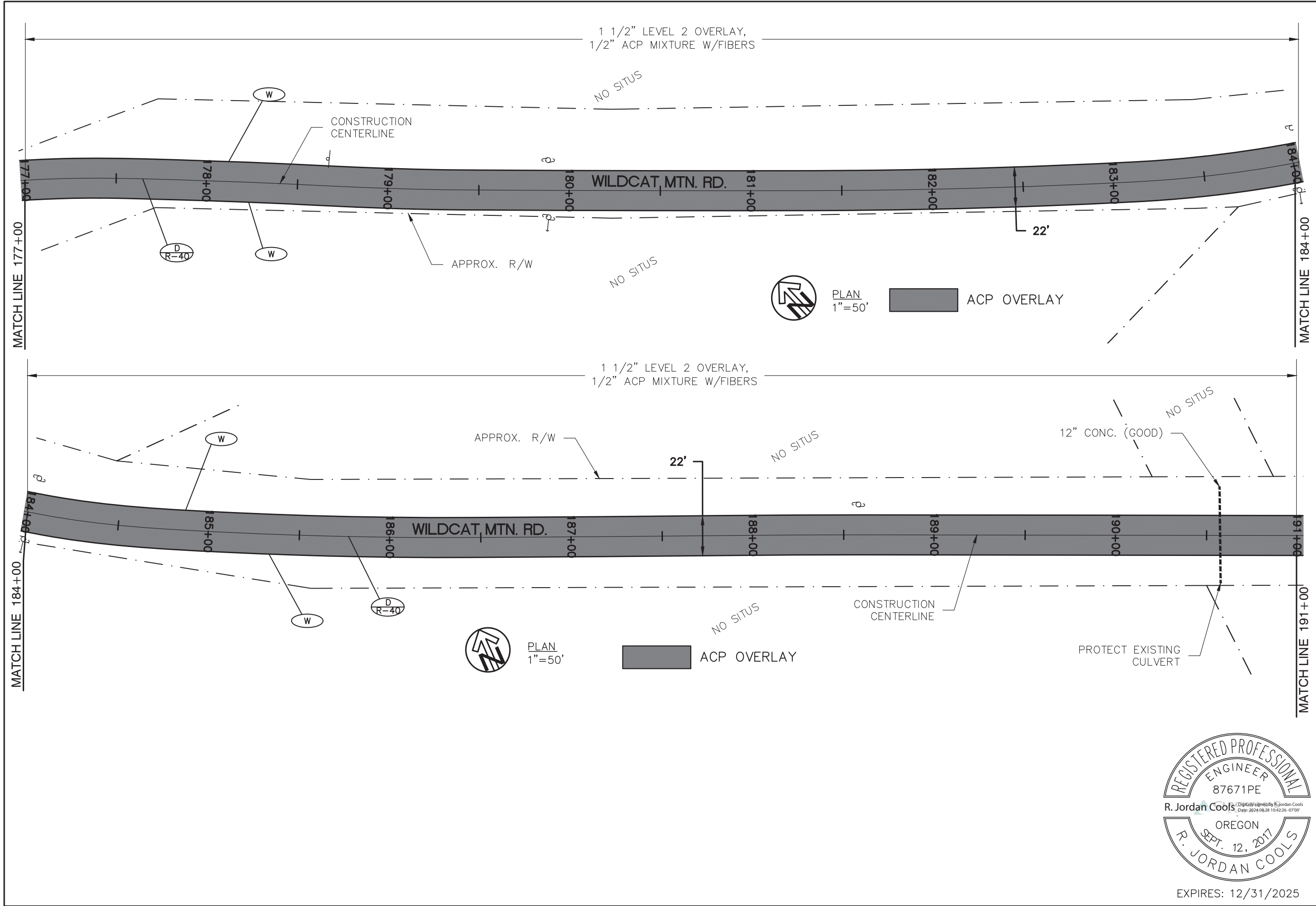
NO.	DATE	REVISIONS

DESIGNED BY: jc  
 DRAFTED BY: RM  
 CHECKED BY: STAFF

Sheet No. 18



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<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		<b>CLACKAMAS COUNTY</b> DAN JOHNSON DIRECTOR
<b>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</b>		PROJECT NO.: CI-23315 DATE: 7/24/2024
<b>PLAN</b>		
WILDCAT MOUNTAIN DRIVE PAVING PROJECT		

NO.	DATE

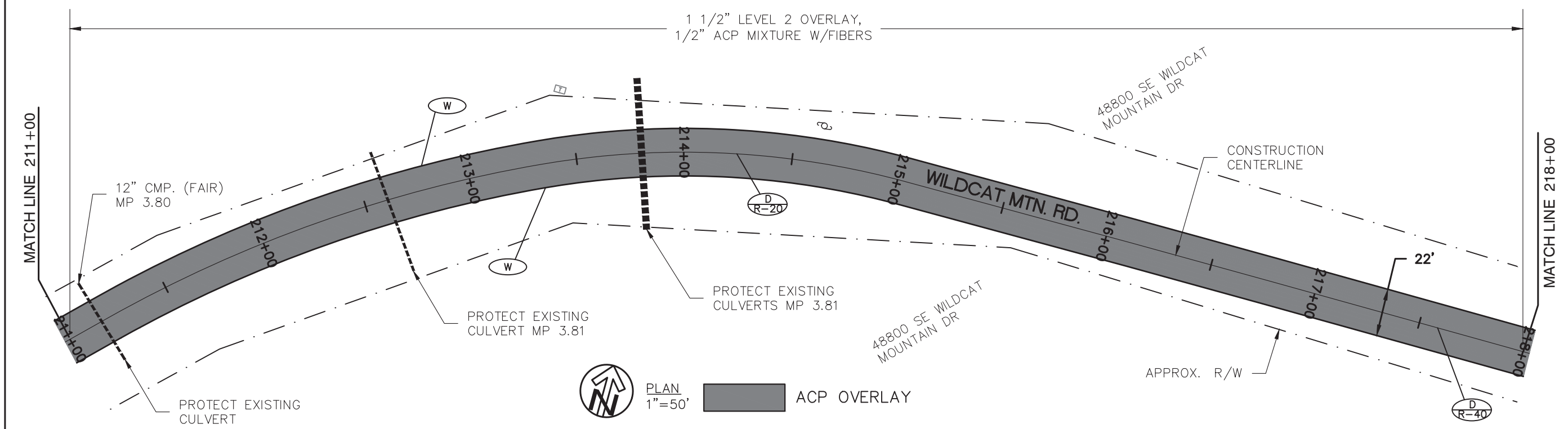
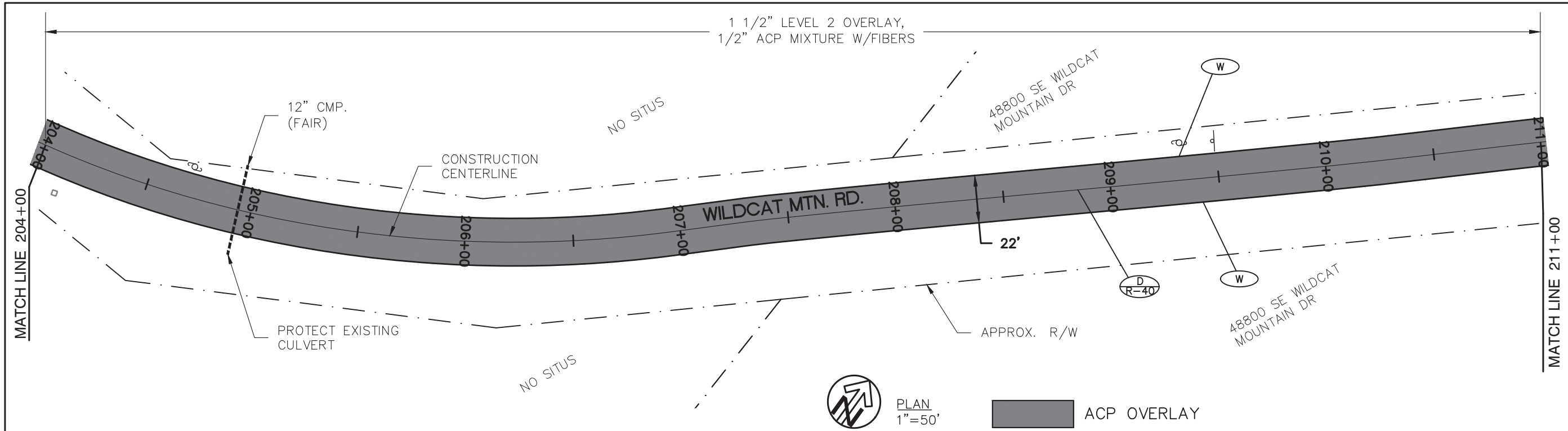
DESIGNED BY: JC	DRAFTED BY: RM	CHECKED BY: STAFF
--------------------	-------------------	----------------------

REGISTERED PROFESSIONAL ENGINEER  
87671PE  
R. Jordan Cools  
OREGON  
SEPT. 12, 2017  
R. JORDAN COOLS  
EXPIRES: 12/31/2025



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PLAN  
1"=50'

ACP OVERLAY



PLAN  
1"=50'

ACP OVERLAY



EXPIRES: 12/31/2025

CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	CLACKAMAS COUNTY DIRECTOR DAN JOHNSON
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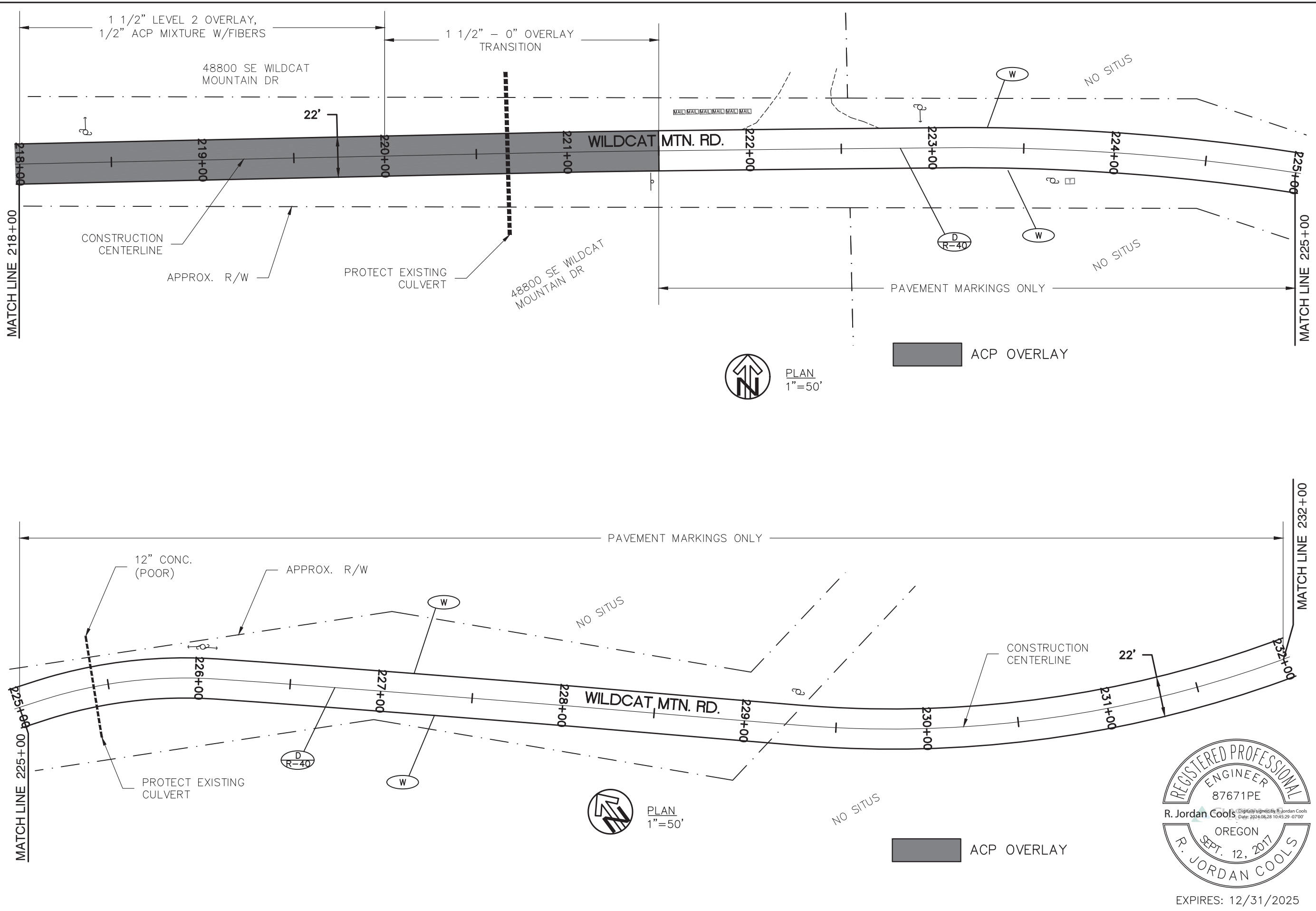
DESIGNED BY: JC	DRAFTED BY: RM	CHECKED BY: STAFF
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NO.	DATE	REVISIONS

Sheet No. 21

PROJECT NO.: CI-23315  
DATE: 7/24/2024

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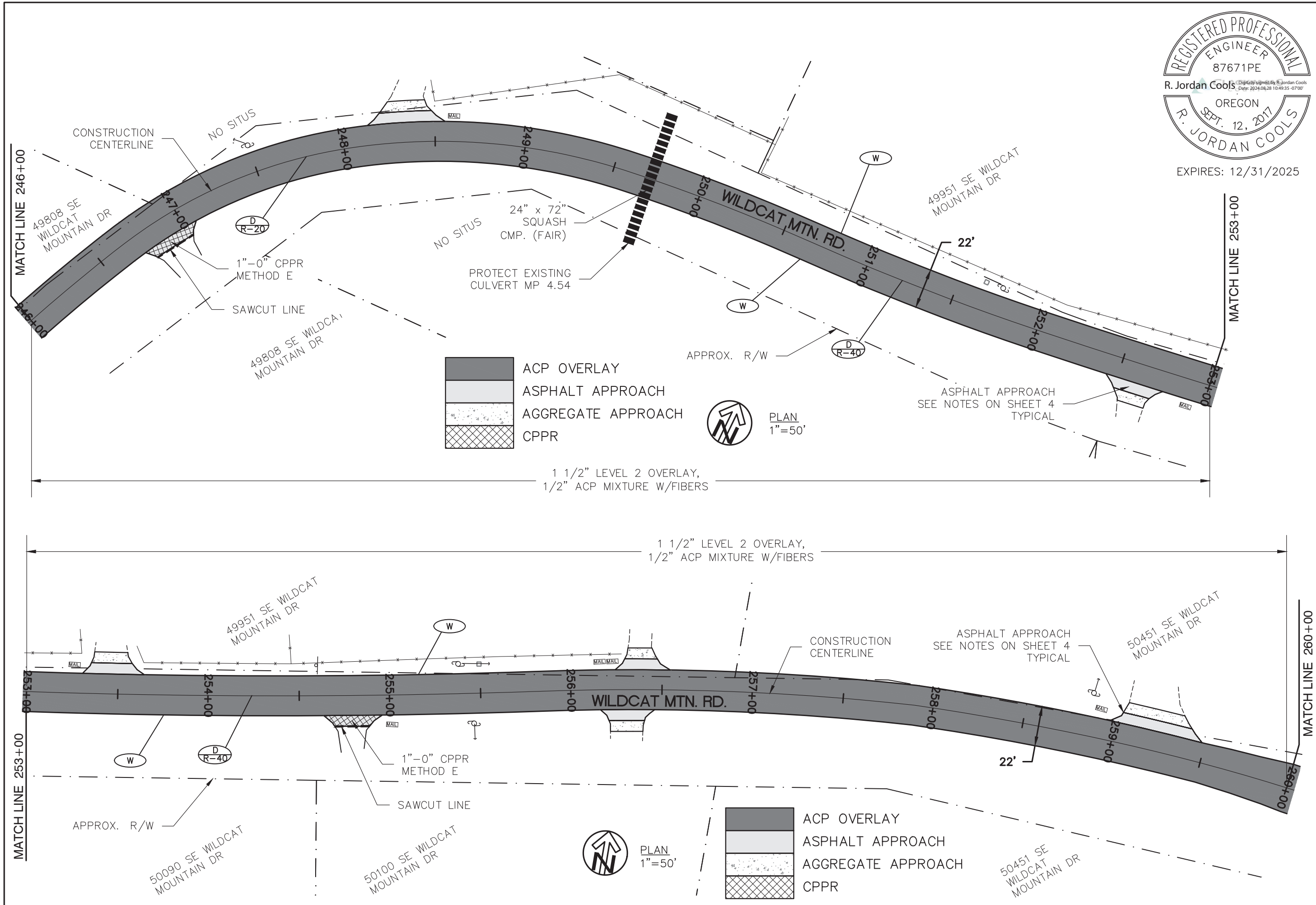
<p>CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045</p>		<p>CLACKAMAS COUNTY DIRECTOR DAN JOHNSON</p>
<p>DESIGNED BY: JC</p>		<p>PROJECT NO.: CI-23315</p>
<p>DRAFTED BY: RM</p>		<p>DATE: 7/24/2024</p>
<p>CHECKED BY: STAFF</p>		<p>PLAN WILDCAT MOUNTAIN DRIVE PAVING PROJECT</p>
<p>NO.   DATE:  </p>		<p>Sheet No. 22</p>

REGISTERED PROFESSIONAL ENGINEER  
87671PE  
R. Jordan Cools  
OREGON  
SEPT. 12, 2017  
R. JORDAN COOLS  
EXPIRES: 12/31/2025





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EXPIRES: 12/31/2025

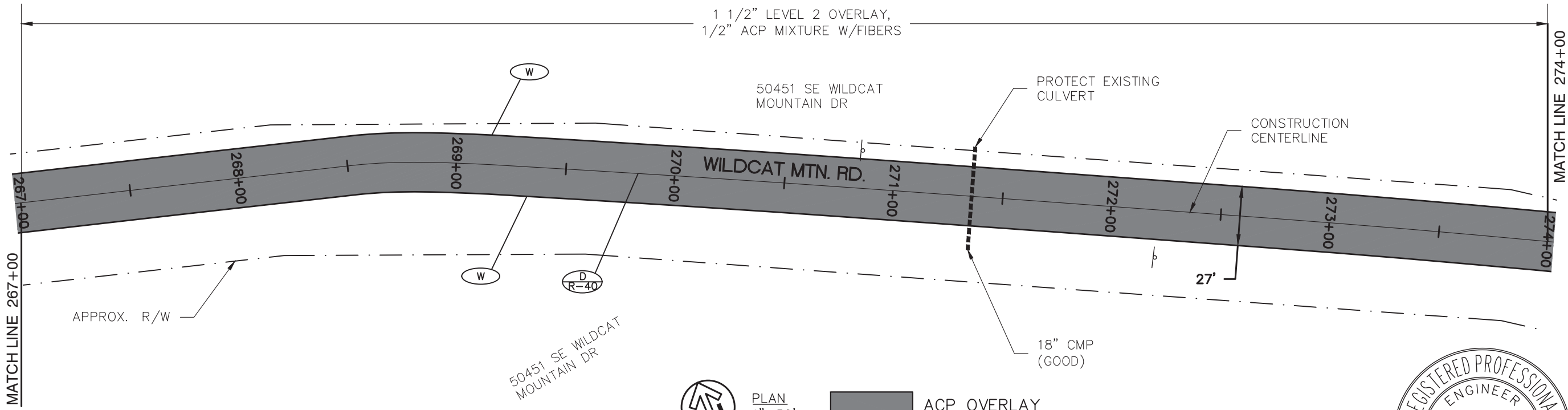
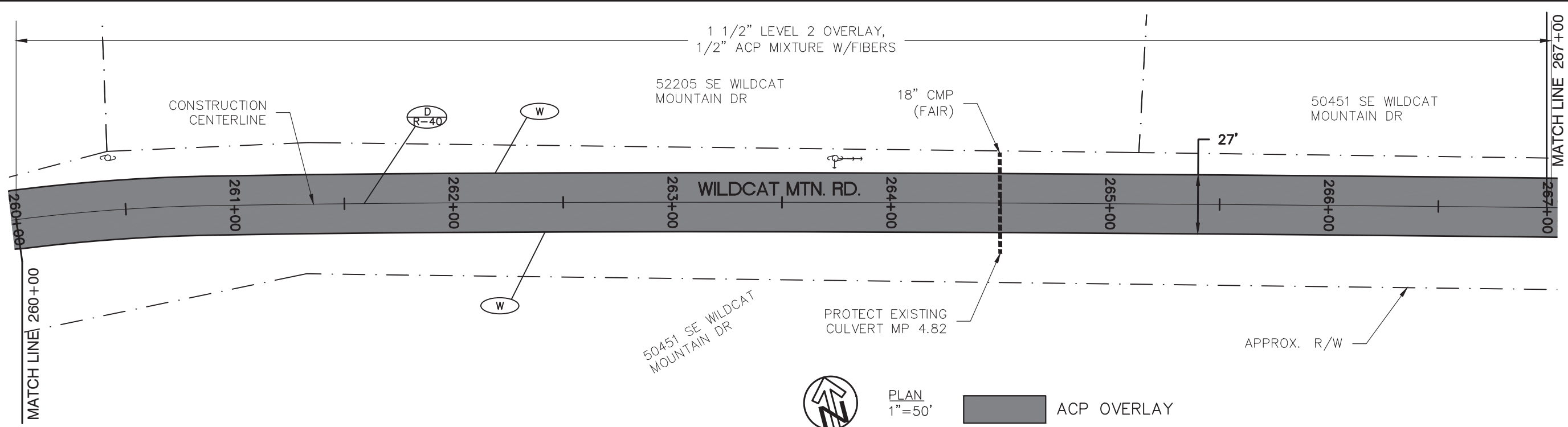
PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT  
DATE: 7/24/2024 PROJECT NO.: CI-23315

CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045  
DAN JOHNSON  
DIRECTOR

NO.	DATE:	DESIGNED BY:	DRAFTED BY:	CHECKED BY:
		JC	RM	STAFF

Sheet No. 24

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PLAN  
1"=50'

ACP OVERLAY



PLAN  
1"=50'

ACP OVERLAY



EXPIRES: 12/31/2025

PLAN  
WILDCAT MOUNTAIN DRIVE  
PAVING  
PROJECT  
DATE: 7/24/2024 PROJECT NO.: CI-23315

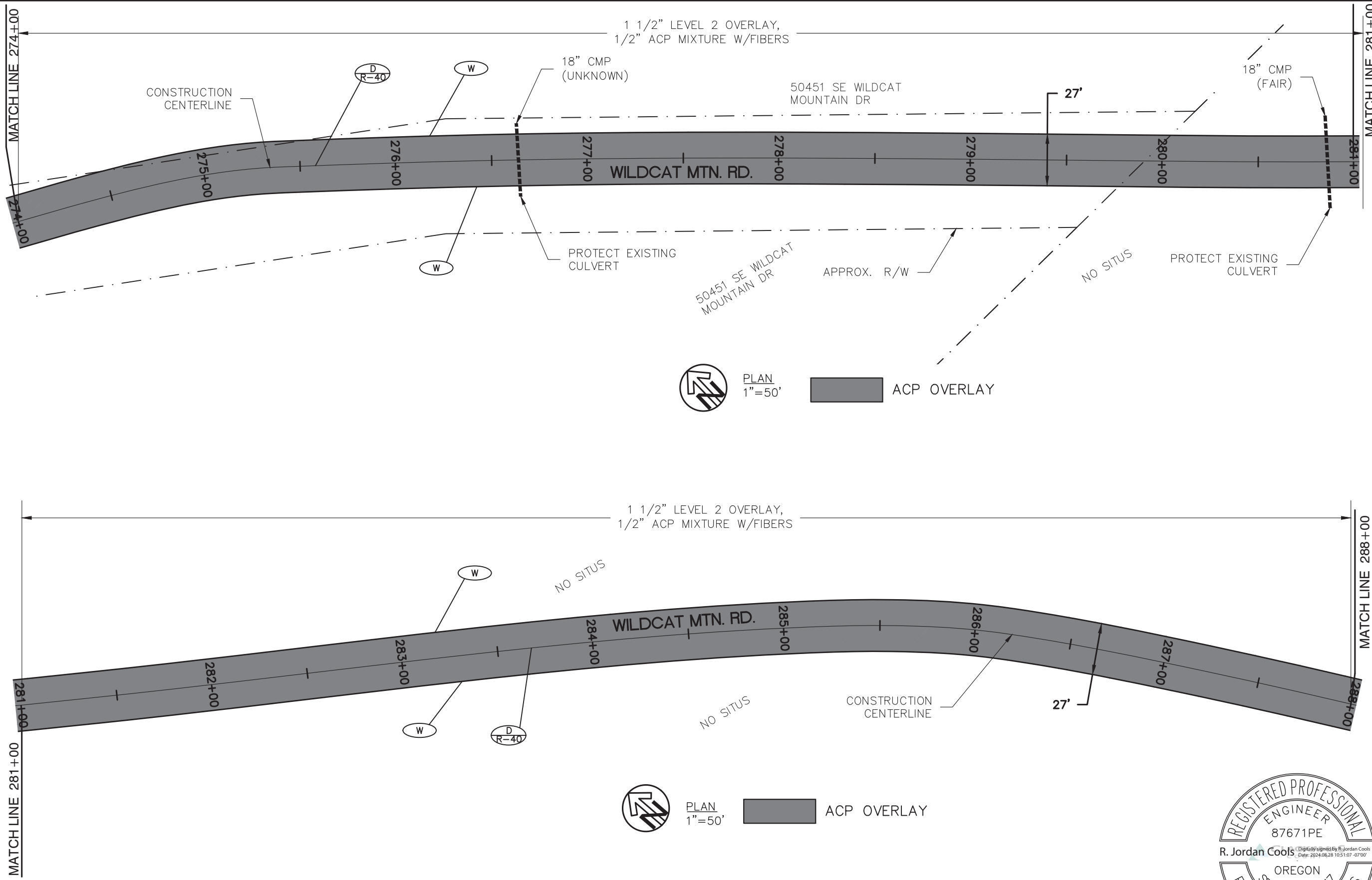
CLACKAMAS COUNTY  
DEPT. OF TRANSPORTATION  
AND DEVELOPMENT  
150 BEAVERCREEK ROAD  
OREGON CITY, OR 97045  
DAN JOHNSON  
DIRECTOR

DESIGNED BY: JC  
DRAFTED BY: RM  
CHECKED BY: STAFF

NO.	DATE	REVISIONS

Sheet No. 25

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PLAN  
1"=50'

ACP OVERLAY

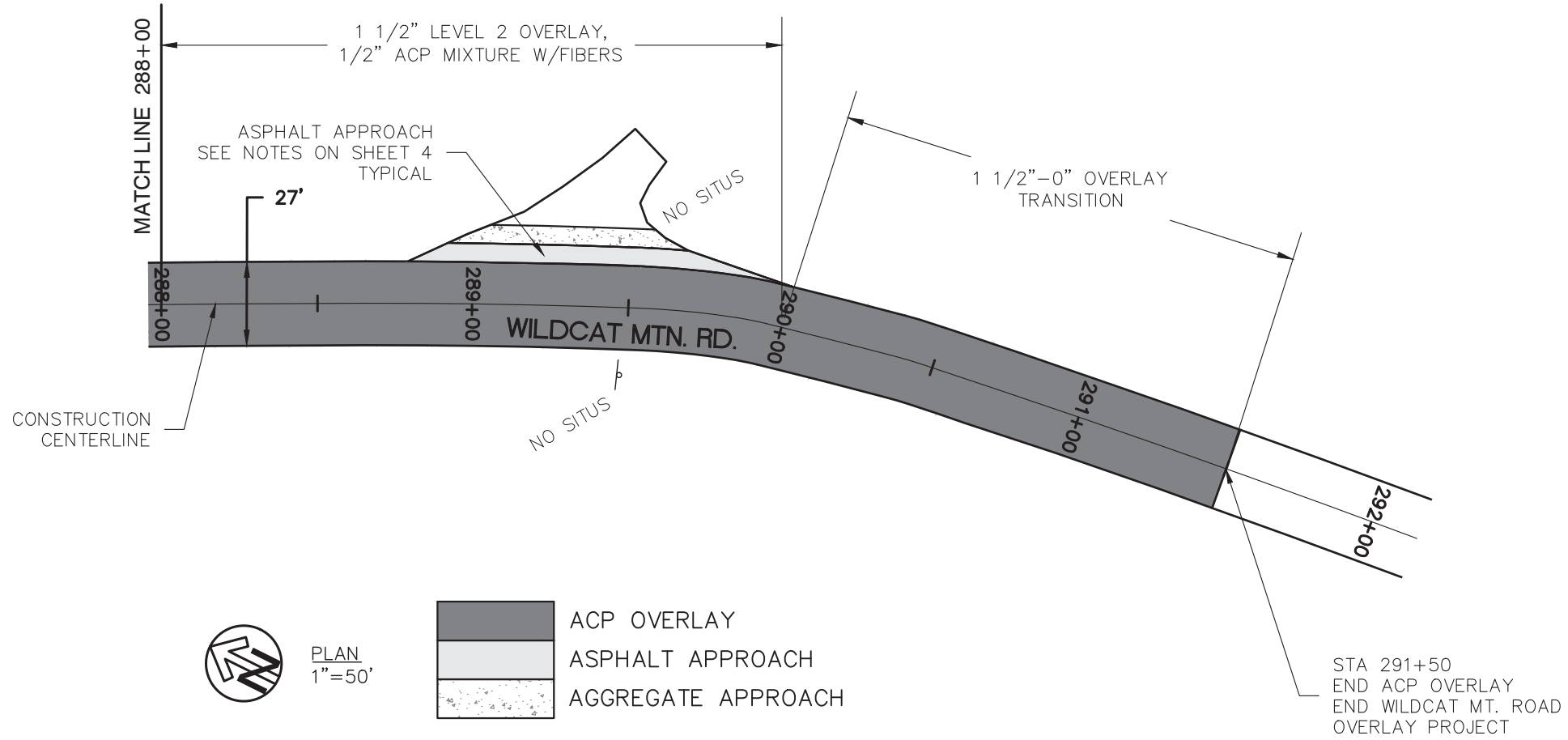


PLAN  
1"=50'

ACP OVERLAY



<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		DIRECTOR DAN JOHNSON
<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		PROJECT NO.: CI-23315 DATE: 7/24/2024
<b>PLAN</b> <b>WILDCAT MOUNTAIN DRIVE PAVING PROJECT</b>		
REVISIONS		
DESIGNED BY:	JC	
DRAFTED BY:	RM	
CHECKED BY:	STAFF	
NO.	DATE:	
Sheet No. 26		



PLAN  
1"=50'

- ACP OVERLAY
- ASPHALT APPROACH
- AGGREGATE APPROACH



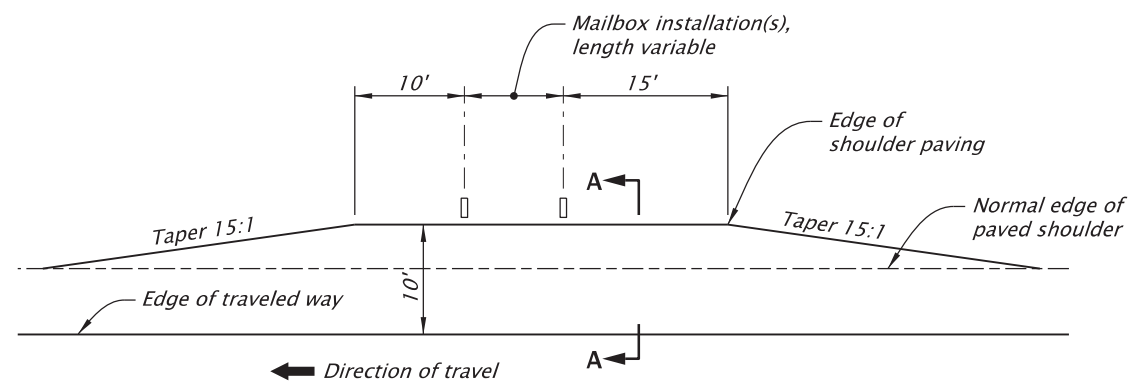
EXPIRES: 12/31/2025

MATCH LINE 271+00	
<b>PLAN</b> WILDCAT MOUNTAIN DRIVE PAVING PROJECT	DATE: 7/24/2024 PROJECT NO.: CI-23315
<b>CLACKAMAS COUNTY</b> DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: JC	CHECKED BY: STAFF
DRAFTED BY: RM	NO. DATE:
REVISIONS	SHEET NO. 27

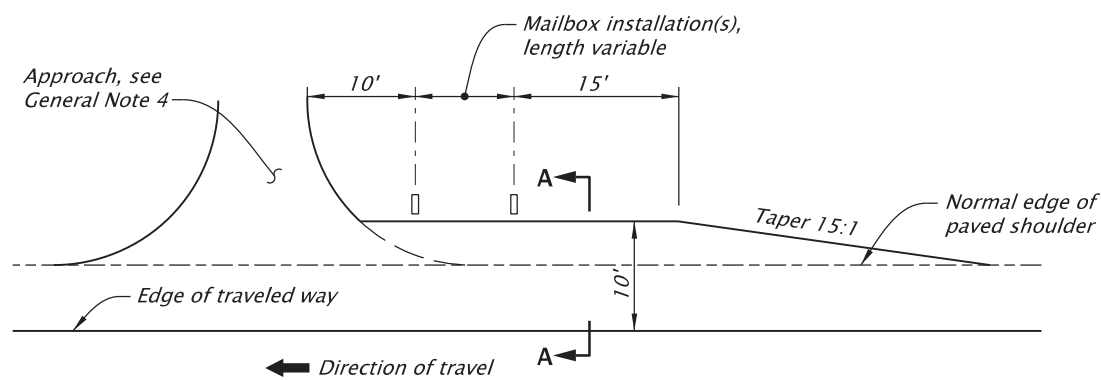


**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

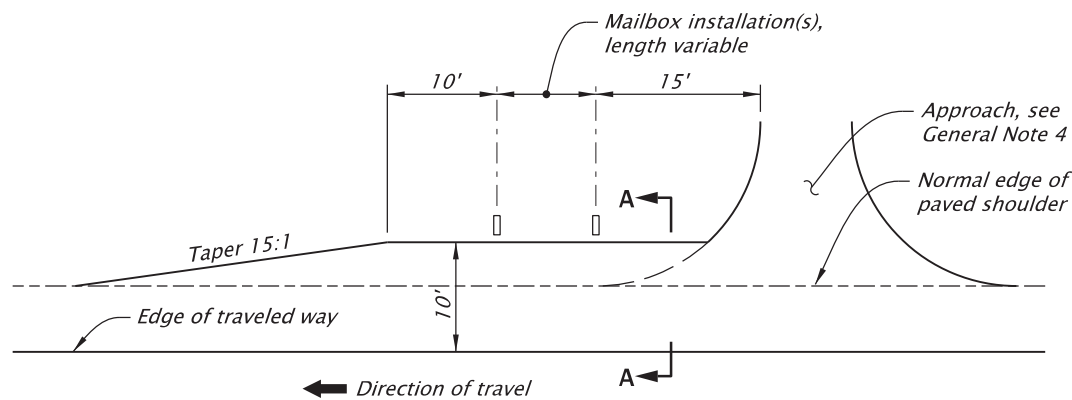
1. All holes in the tube support frame are to be predrilled by the manufacturer.
2. Other proprietary products available as listed in ODOT's QPL.
3. For mailbox support details, see Std. Dwg. RD100.
4. For approach details, see Std. Dwg. RD715.
5. Mounting height ("H") shall be from 41 inches minimum to 45 inches maximum (42 inches nominal), measured from vehicle driving surface.
6. See project plans for details not shown.



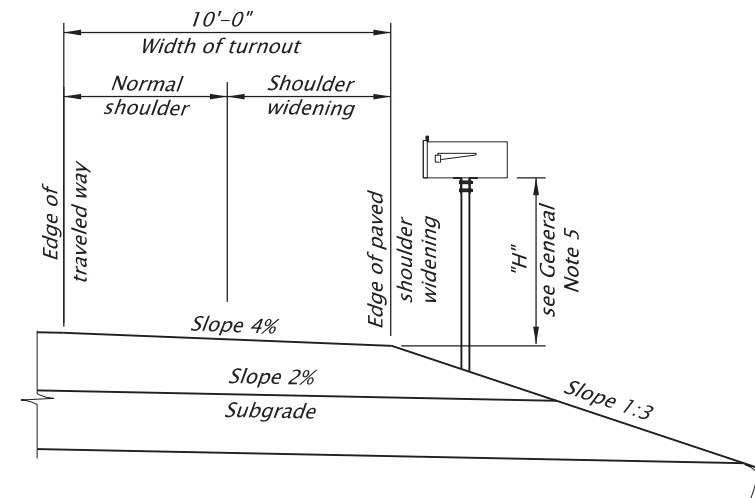
**MAILBOX SERVICE TURNOUT**



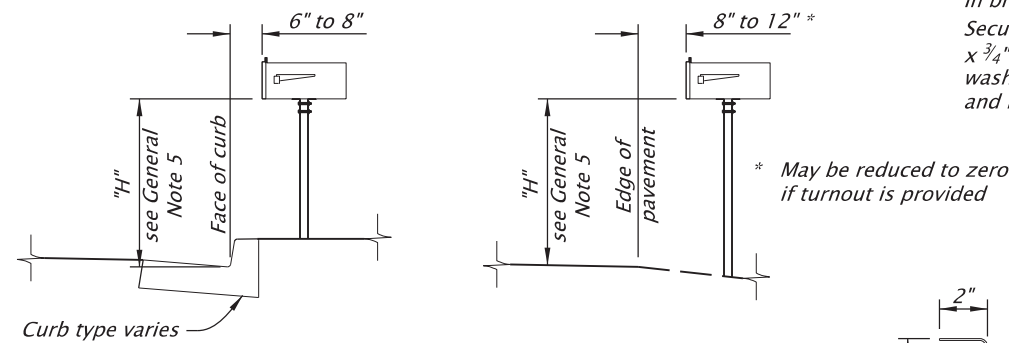
**MAILBOX SERVICE TURNOUT BEFORE APPROACH**



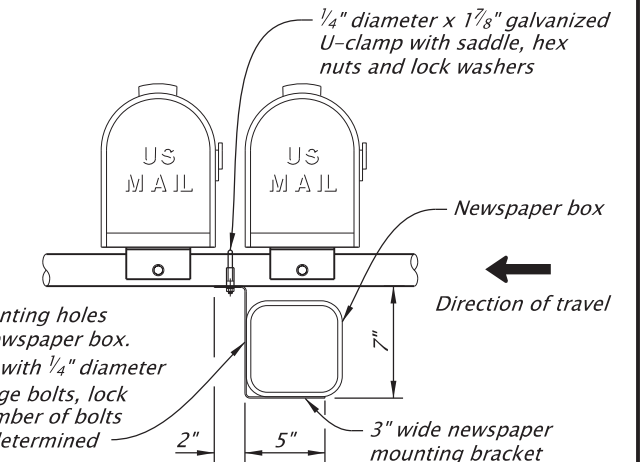
**MAILBOX SERVICE TURNOUT AFTER APPROACH**



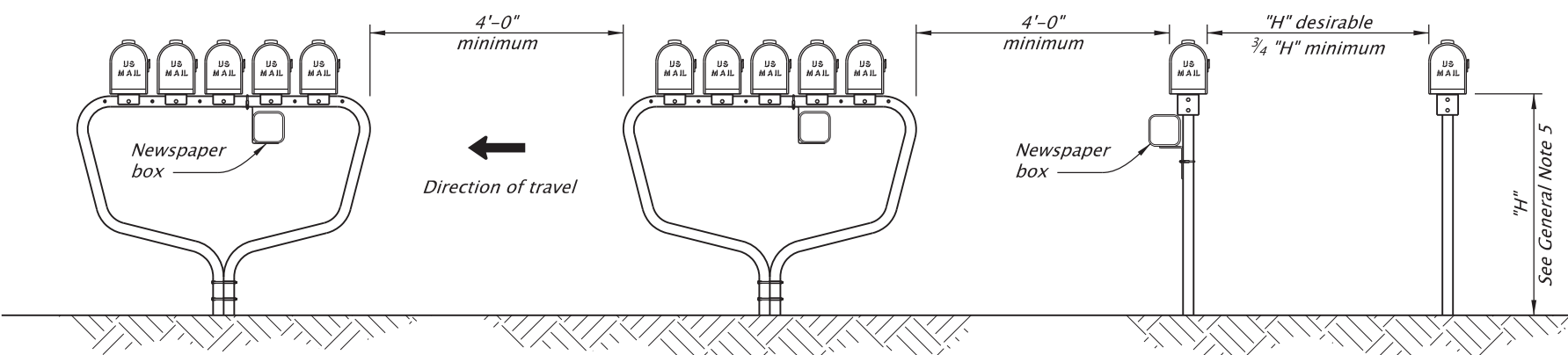
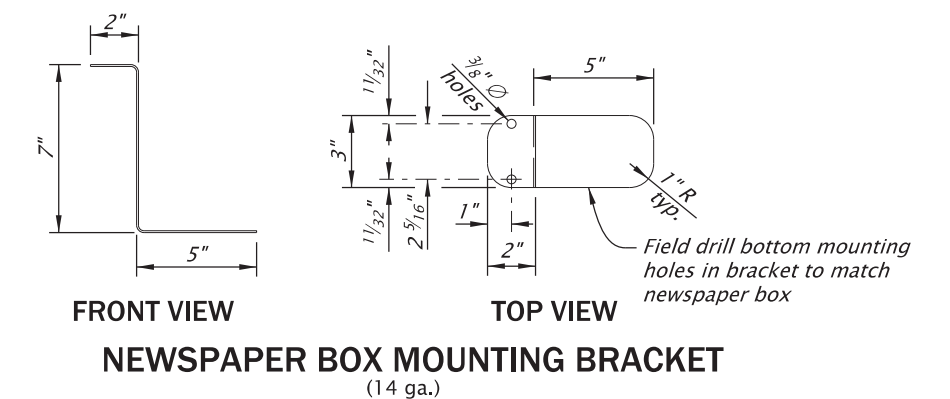
**INSTALLATION AT MAILBOX TURNOUT SECTION A-A**



**TYPICAL MAILBOX INSTALLATIONS**



**NEWSPAPER BOX MOUNTING DETAIL**



**TYPICAL MAILBOX SUPPORT SPACING**

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.	
<b>OREGON STANDARD DRAWINGS</b>	
<b>MAILBOX INSTALLATION</b>	
2024	
DATE	REVISION DESCRIPTION
01-2024	REVISED NOTES AND DETAILS, UPDATED DRAWING CAD STANDARDS
CALC. BOOK NO.	SDR DATE
N/A	19-JAN-2024
	<b>RD101</b>

20-JUL-2020  
RD610.dgn

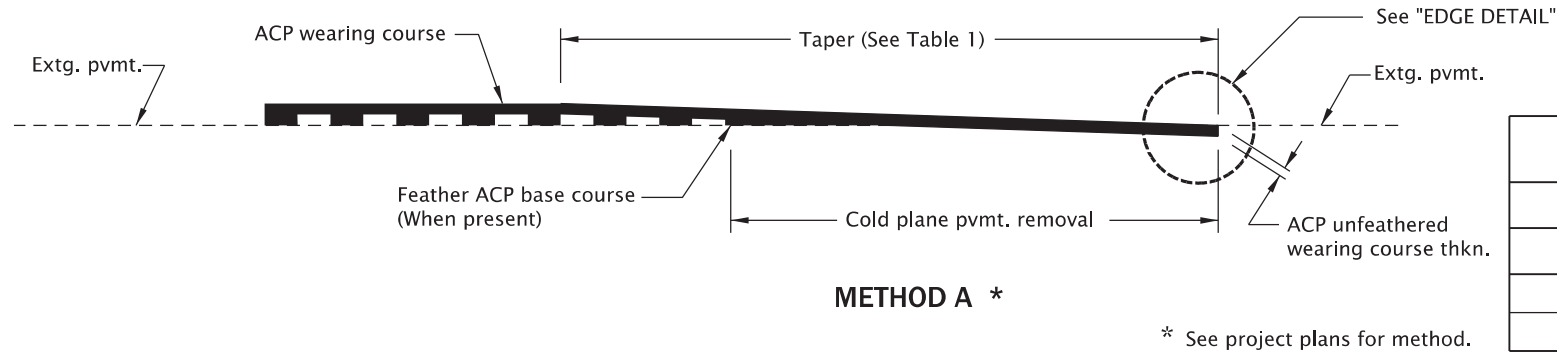
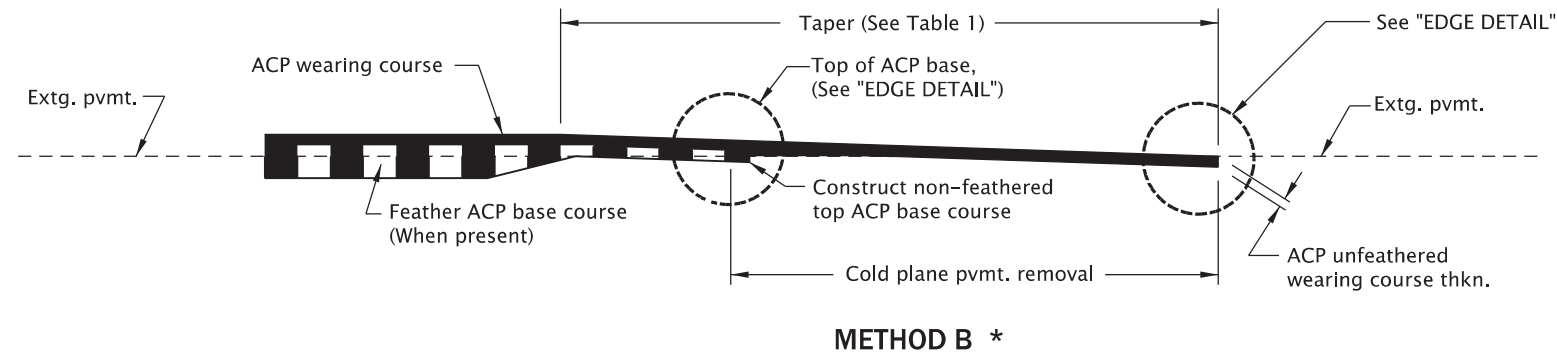
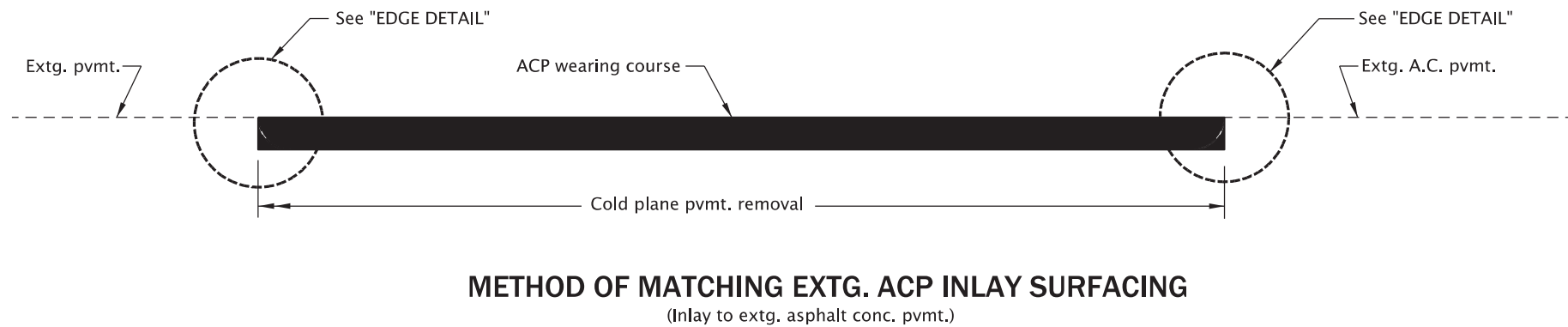
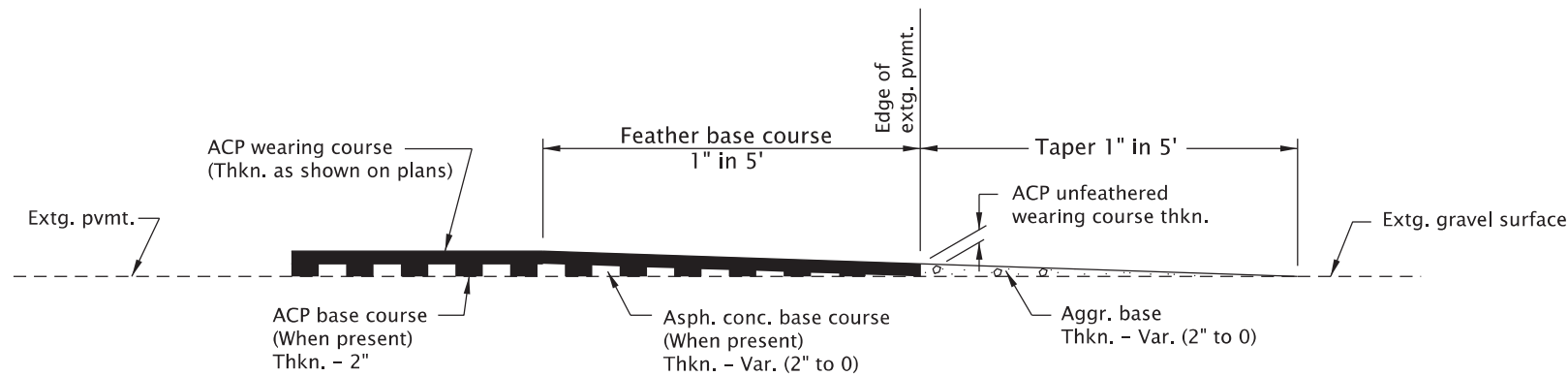
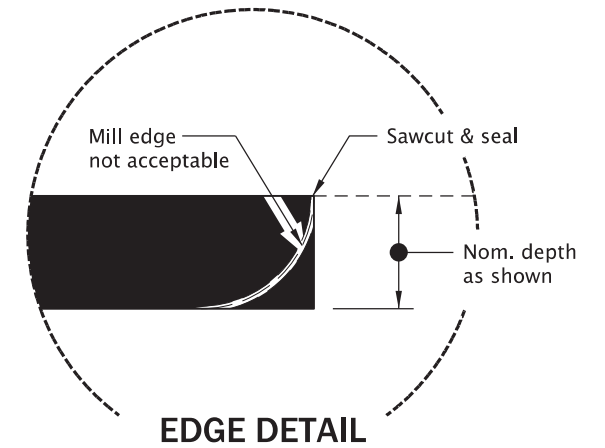


TABLE 1 TAPER LENGTHS	
Posted Speed	Taper Length
< 45 mph	1" per 50'
≥ 45 mph	1" per 100'



**ACP PAVEMENT MATCH AT PROJECT ENDS  
OR BRIDGE ENDS WHEN NOT OVERLAYING THE BRIDGE**



*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.

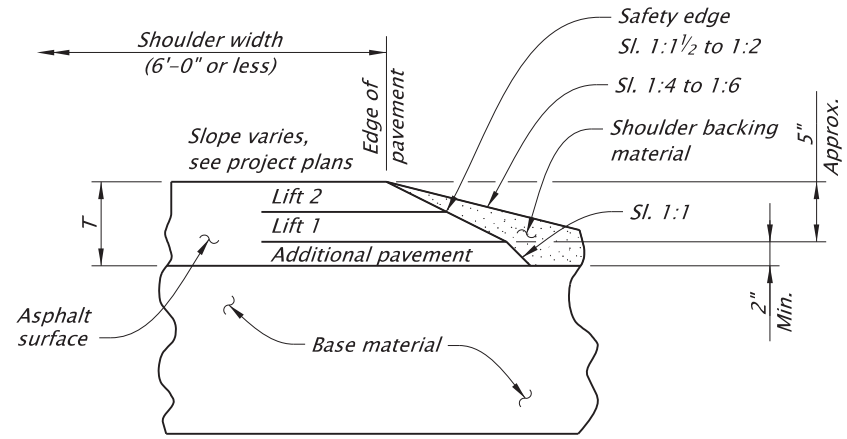
**OREGON STANDARD DRAWINGS  
ASPHALT CONCRETE  
PAVEMENT (ACP)  
DETAILS**

2024

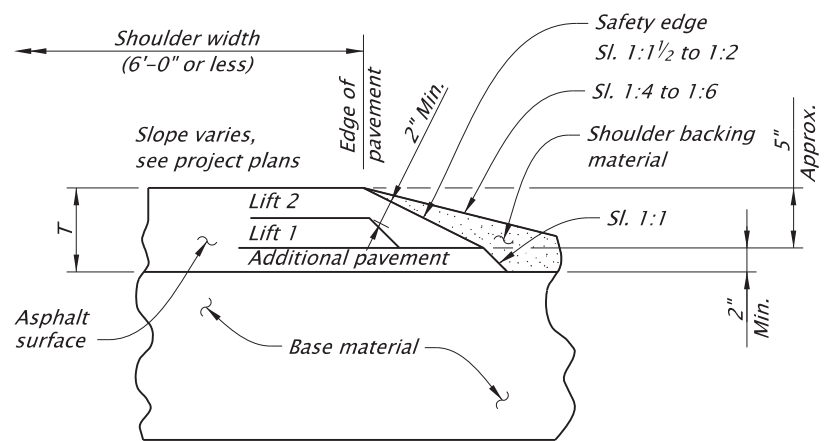
DATE	REVISION	DESCRIPTION

CALC. BOOK NO. --- N/A --- SDR DATE- 25-JUL-2017 --- **RD610**

Effective Date: December 1, 2024 – May 31, 2025

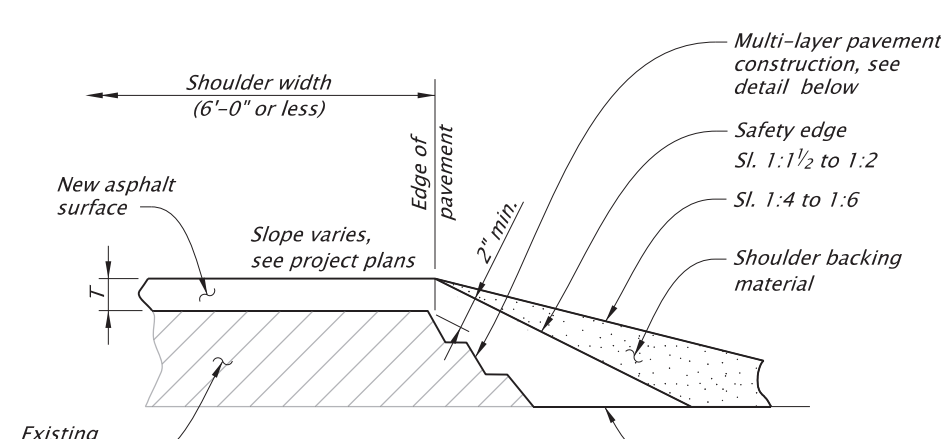


**SAFETY EDGE PLACED WITH LIFTS**

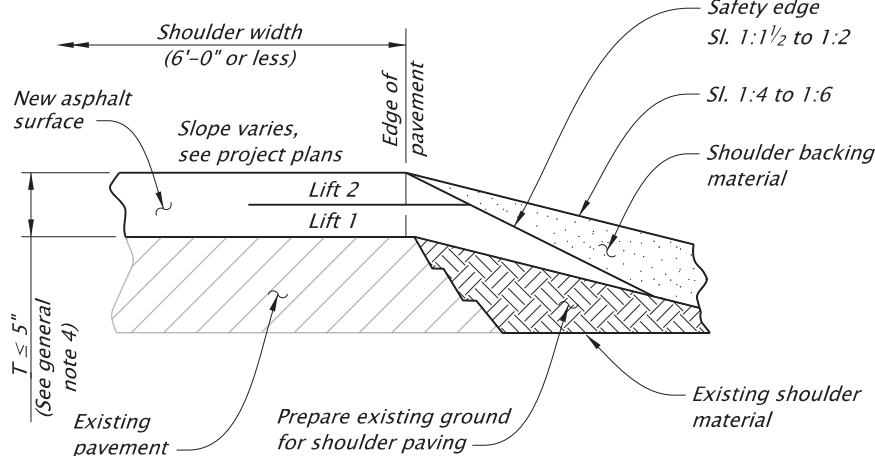


**SAFETY EDGE PLACED ONLY WITH FINAL LIFT**

**SAFETY EDGE FOR ASPHALT CONCRETE (NEW CONSTRUCTION)**

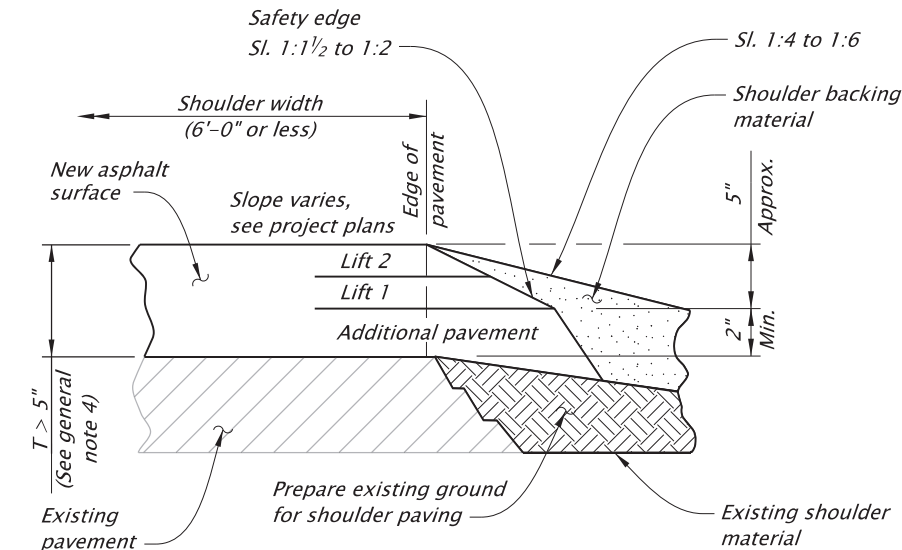


**SINGLE COURSE OVERLAY**



**PAVEMENT THICKNESS (T) 5" OR LESS**

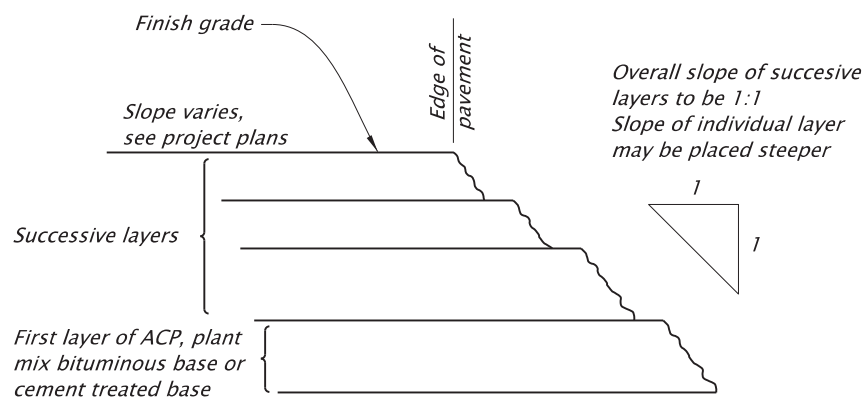
**SAFETY EDGE FOR ASPHALT CONCRETE RECONSTRUCTION (INCLUDING MILL, INLAY AND OVERLAY)**



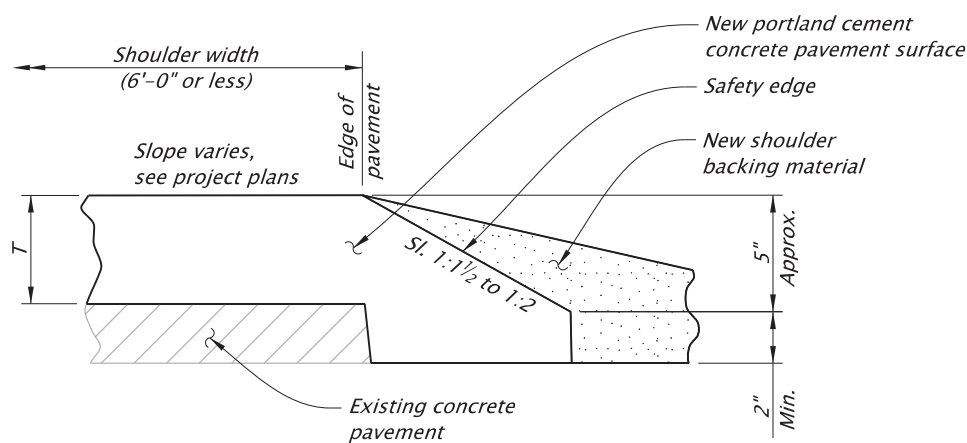
**PAVEMENT THICKNESS (T) GREATER THAN 5"**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Safety edges are required at the outside edges of the paved roadway (edge of travel lane or edge of paved shoulders), where the wearing surface thickness is 2" or greater, except where indicated in the plans.
2. Construct the safety edge at a slope of 1:1 1/2 to 1:2 measured from the pavement surface.
3. Do not construct safety edge at intersections, paved drives, or other obstructions.
4. For total new asphalt depth of "T" ≤ 5", construct the safety edge to the full thickness of the surface and intermediate courses. For total new asphalt depth of "T" > 5", construct the safety edge to a depth of 5" approximately with a 1:1 sloped face below the safety edge.



**MULTI-LAYER PAVEMENT CONSTRUCTION**



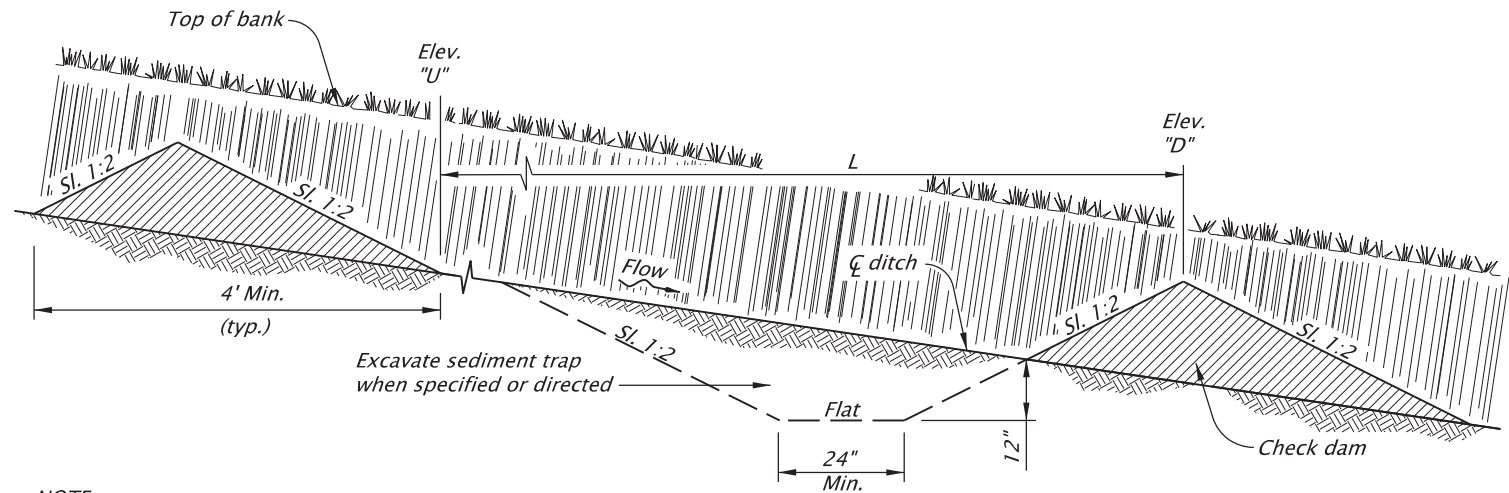
**SAFETY EDGE FOR PORTLAND CEMENT CONCRETE PAVEMENT OVERLAY**

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.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>SURFACE EDGE DETAILS</b>			
2024			
DATE	REVISION	DESCRIPTION	
07-2021	TITLE CHANGED,	REVISED DETAILS AND NOTES	
CALC. BOOK NO.	N/A	SDR DATE	19-JUL-2021
			<b>RD615</b>

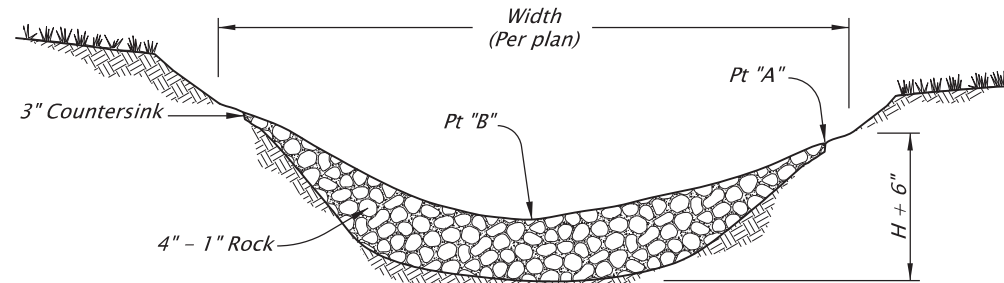






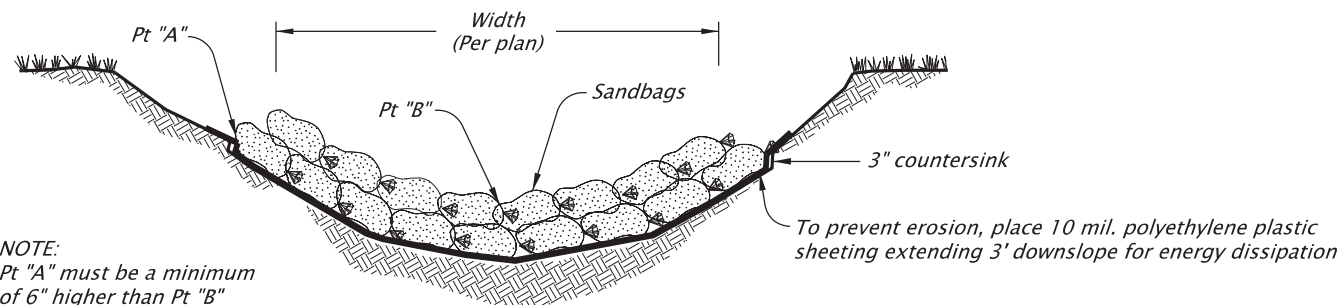
NOTE:  
L = Spacing along swale or ditch so that Elevation "U" equals Elevation "D".

**TYPICAL PROFILE SECTION CHECK DAMS (SHOWN WITH AGGREGATE)**  
NOT TO SCALE



NOTE:  
Pt "A" must be a minimum of 6" higher than Pt "B"

**AGGREGATE CHECK DAM - TYPE 1**  
NOT TO SCALE



NOTE:  
Pt "A" must be a minimum of 6" higher than Pt "B"

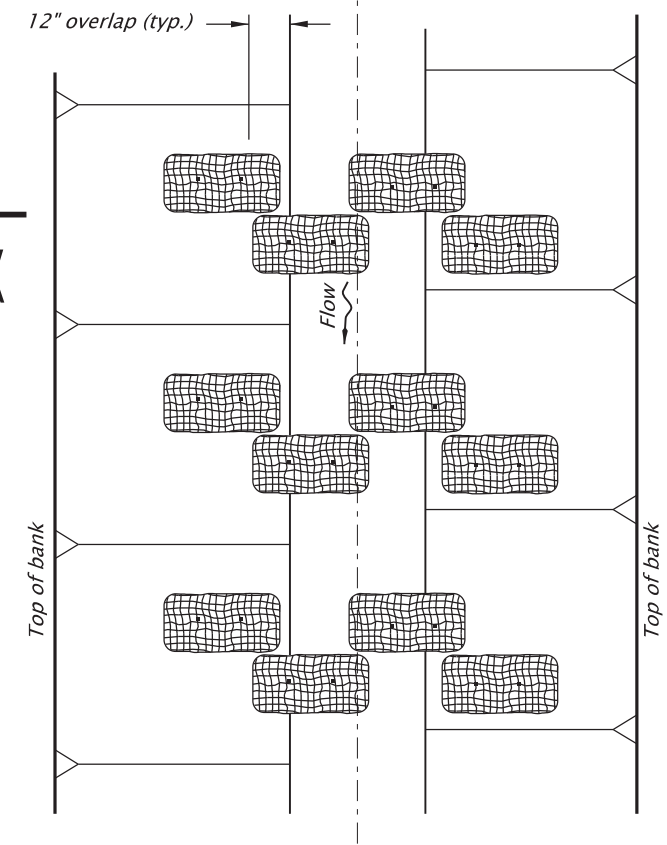
**SANDBAG CHECK DAM - TYPE 4**  
NOT TO SCALE

**NOTES:**

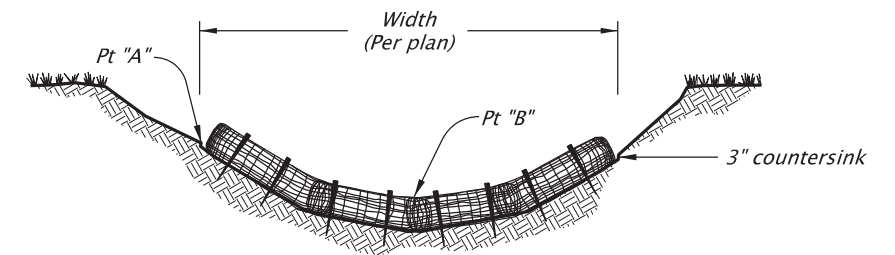
- Type 3 - stake biofilter bags with two 2"x2"x18" (minimum) wood stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags. Omit stakes if placed over paved surfaces. Overlap bags 12" minimum at each joint.
- Type 4 - Tightly abut or overlap ends of sandbags at each joint.
- Spacing between check dams for all check dam types shall comply with the typical profile section shown above.
- Construct check dams Type 3 or 4 with two bags when installed in paved gutter with curb section.

MAXIMUM CHECK DAM SPACING "L"				
Ditch Grade	H=8"	H=12"	H=18"	H=24"
10%	**	**	15'	20'
9%	**	**	16'	22'
8%	**	**	18'	25'
7%	**	**	21'	28'
6%	**	16'	25'	33'
5%	**	20'	30'	40'
4%	16'	25'	37'	50'
3%	22'	33'	50'	66'
2%	33'	50'	75'	100'

\*\* Not allowed H = Min. dam height



**PLAN**



**SECTION A-A**

**BIOFILTER BAG CHECK DAM - TYPE 3**  
NOT TO SCALE

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**

**CHECK DAMS TYPE 1, 3 AND 4**

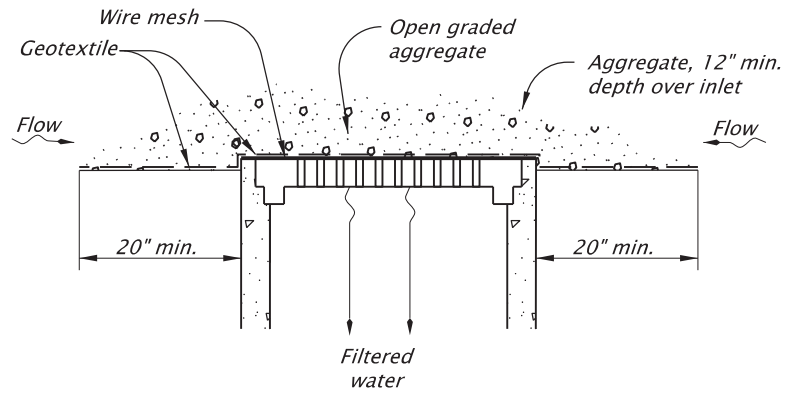
2024

DATE	REVISION	DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS	
07-2024	ADDED NOTE 4	
CALC. BOOK NO.	N/A	SDR DATE: 12-JUL-2024

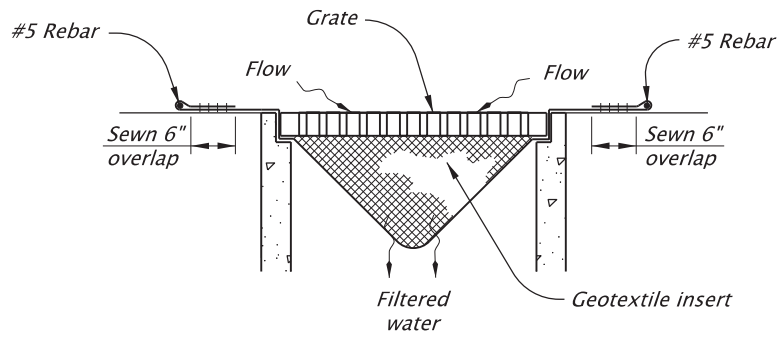
**RD1005**

20-JAN-2021

RD1010.dgn

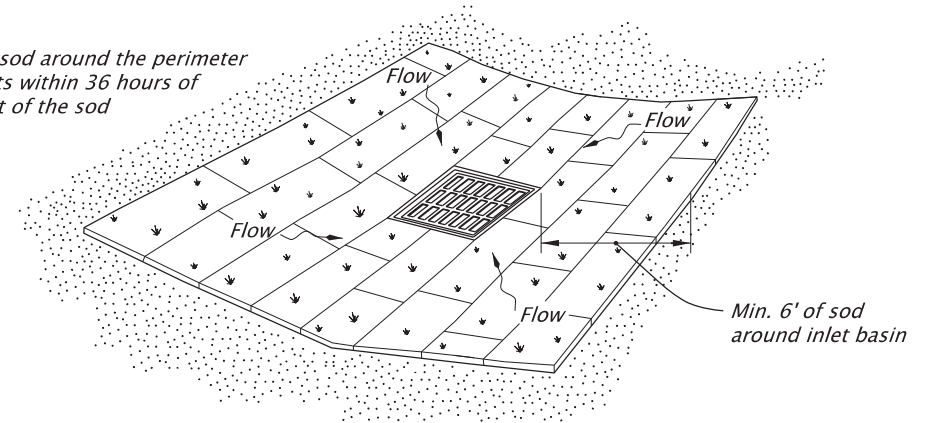


**GEOTEXTILE/WIRE MESH/AGGREGATE - TYPE 2**  
NOT TO SCALE

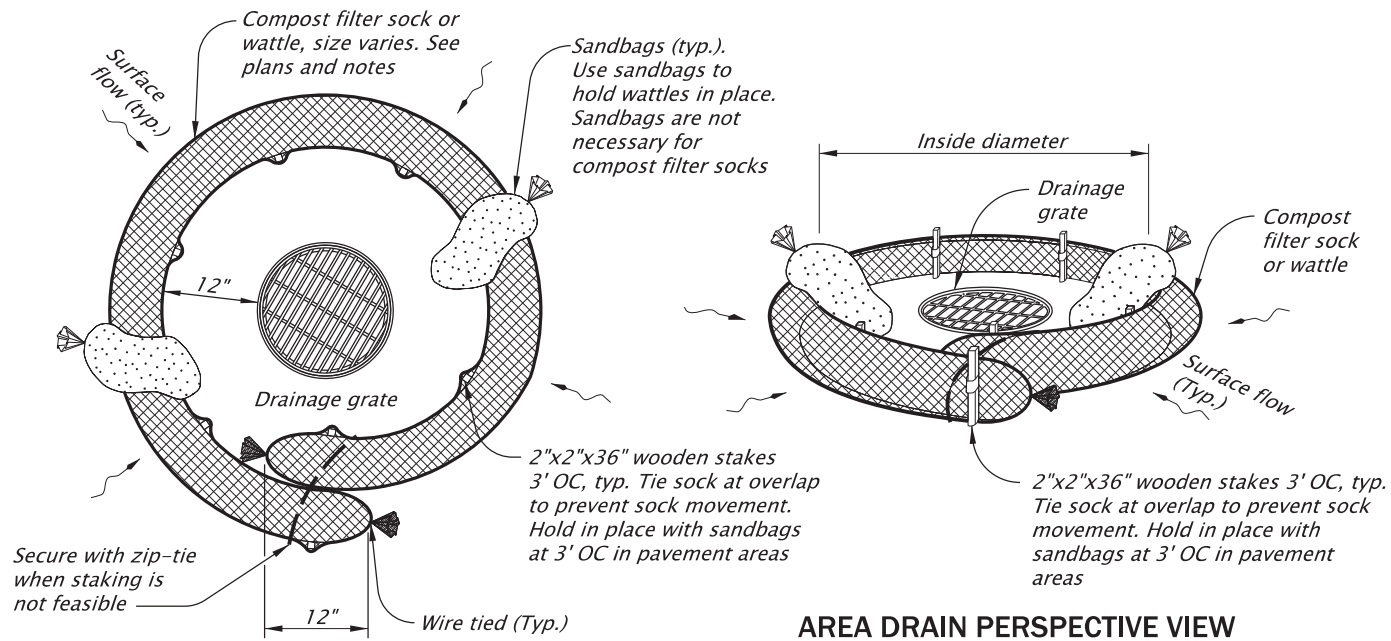


**PREFABRICATED FILTER INSERT - TYPE 3**  
NOT TO SCALE

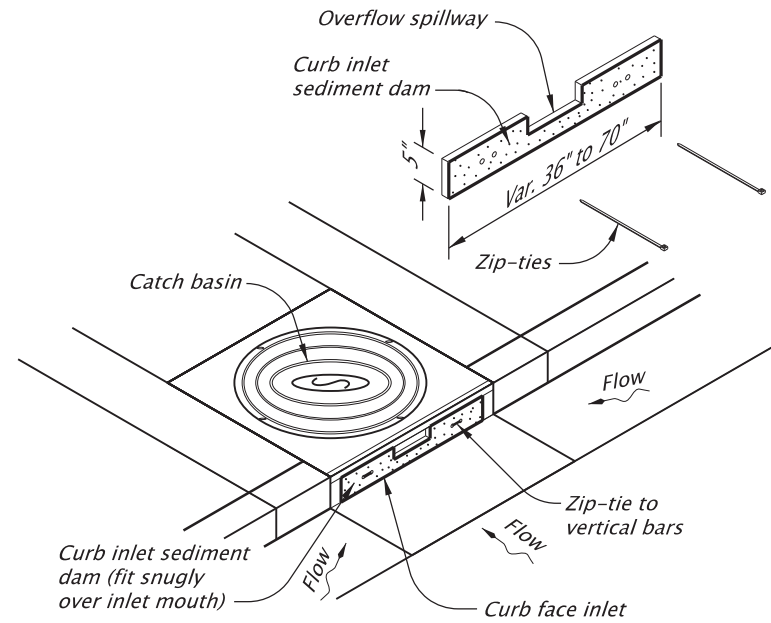
NOTE:  
Install sod around the perimeter  
of inlets within 36 hours of  
harvest of the sod



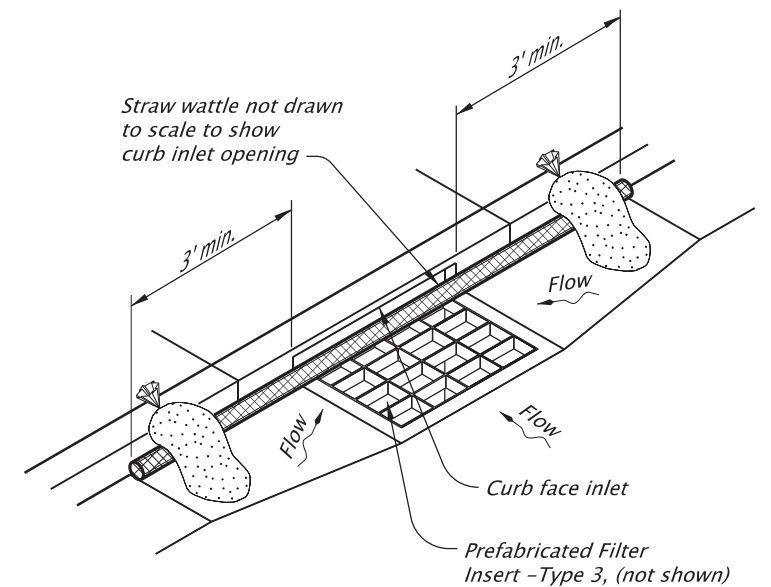
**SOD PROTECTION - TYPE 6**  
NOT TO SCALE



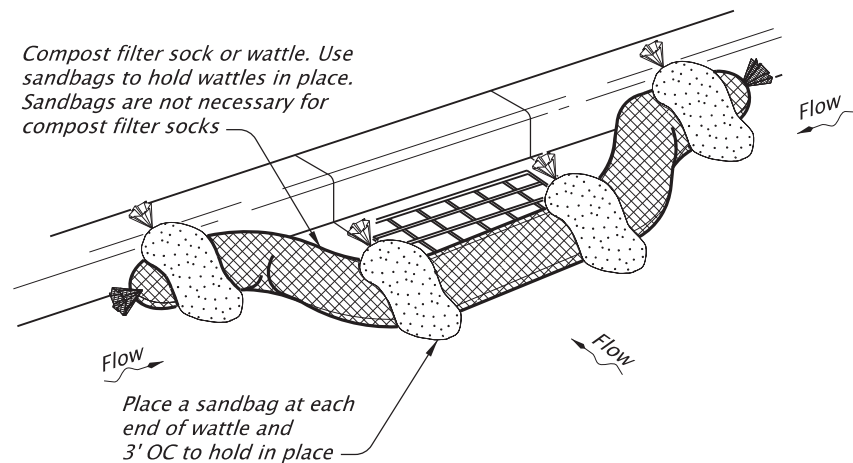
**AREA DRAIN PERSPECTIVE VIEW**



**CURB INLET SEDIMENT DAM - TYPE 10**  
NOT TO SCALE



**WATTLE BARRIER WITH FILTER INSERT - TYPE 11**  
NOT TO SCALE



**COMPOST FILTER SOCK OR WATTLE - TYPE 7**  
NOT TO SCALE

NOTES:  
Type 2 - Geotextile/wire mesh/aggregate  
Place the wire mesh over the grate.  
Place sediment fence geotextile over the  
wire mesh and perimeter area around  
structure.  
Install aggregate over the geotextile fabric.

Type 3 - Prefabricated filter inserts  
Install prefabricated filter inserts according  
to the plans, special provisions, and  
manufacturer recommendations.  
Prefabricated inserts with provisions for  
overflow are allowed only when  
accompanied by additional BMP's to  
prevent the potential of sediments  
entering project storm systems.  
Field fabricated inserts are not allowed.

Type 7 - Compost filter sock  
Drive 2"x2" wood stakes a minimum of  
6" into ground and flush with the top  
of the sock.  
Overlap ends of sock per manufacturers  
recommendations (12" min., 36" max.).  
Use 8" to 12" dia sock on curbside in traffic  
areas.

(Type 7 cont.)  
Use 12" to 18" dia sock in non-traffic areas  
or areas where the larger socks can be  
used safely.  
use synthetic mesh socks for temporary  
installations.

Type 10 - Curb inlet sediment dam  
Fit curb inlet sediment dam snugly into inlet  
mouth. Curb inlet sediment dam is  
required for use with inlet filter insert  
where at-grade inlet grate and curb inlet  
are combined at a catch basin.

Type 11 - Wattle barrier with filter insert  
Install prefabricated filter insert per Type 3  
detail.  
Install wattles over opening and 36" to each  
side of opening tight against curb. Adjust  
wattle to force storm water to flow through  
filter insert or wattle prior to leaving the  
site.  
Adjust, replace or modify the inlet protection  
as needed to prevent sediment laden water  
from entering the catch basin.

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**

**INLET PROTECTION  
TYPE 2, 3, 6, 7, 10 AND 11**

2024

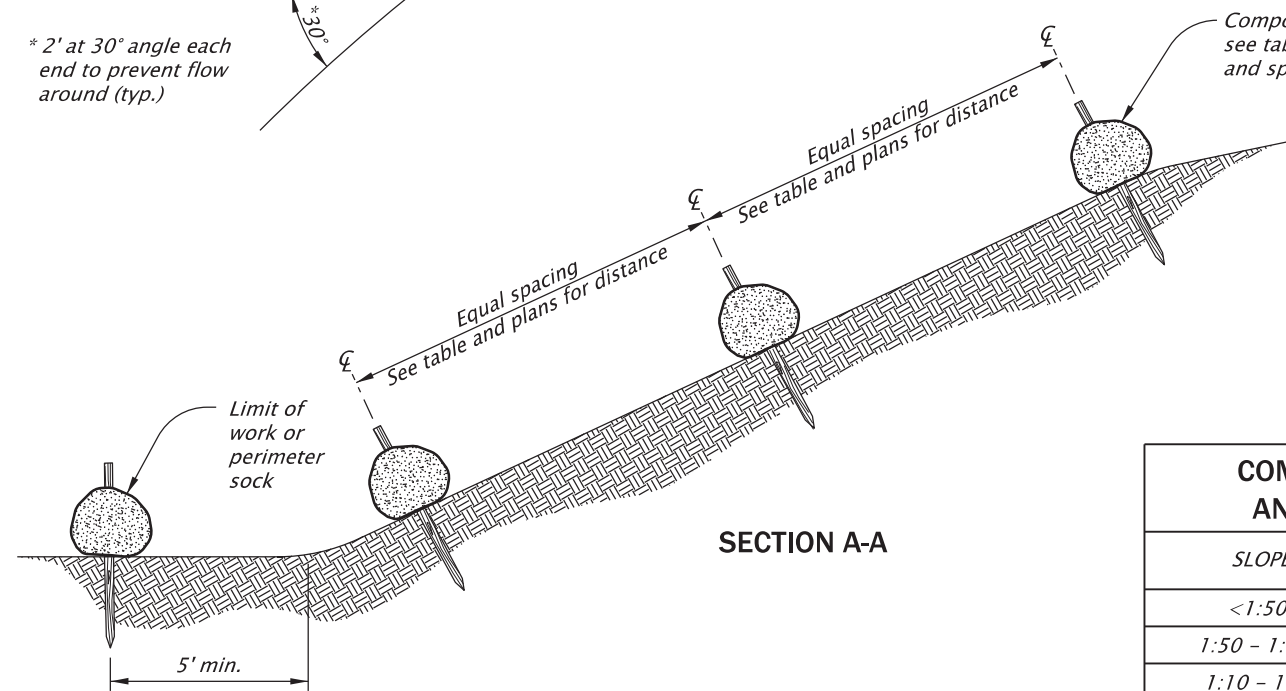
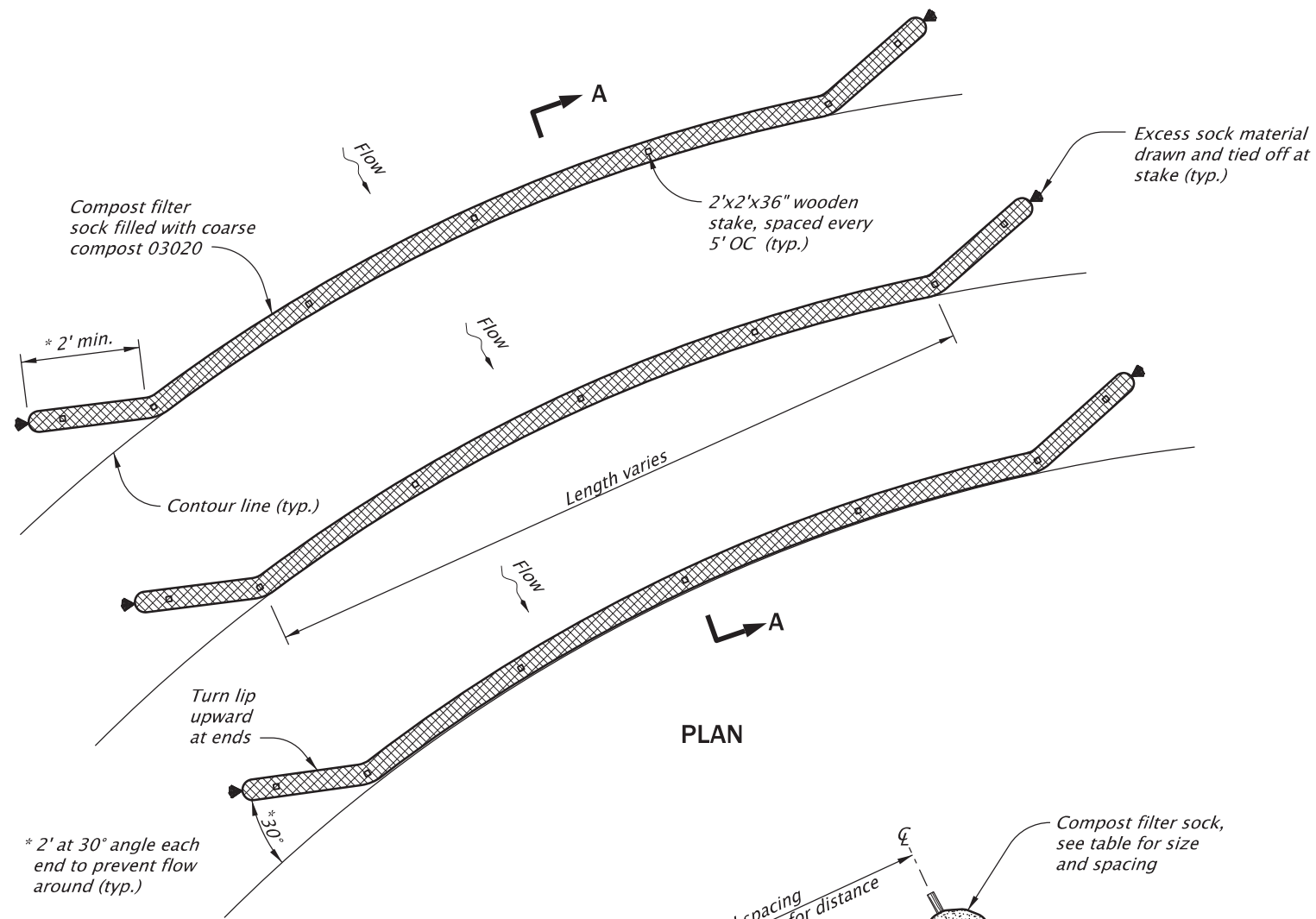
DATE	REVISION	DESCRIPTION
01-2021	REMOVED CALC BOOK NUMBERS	
01-2021	MOVED NOTES UP FROM OVERLAPPING THE SHEET BORDER	

CALC. BOOK NO. ---	N/A ---	SDR DATE: 20-JAN-2021	<b>RD1010</b>
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Effective Date: December 1, 2024 - May 31, 2025



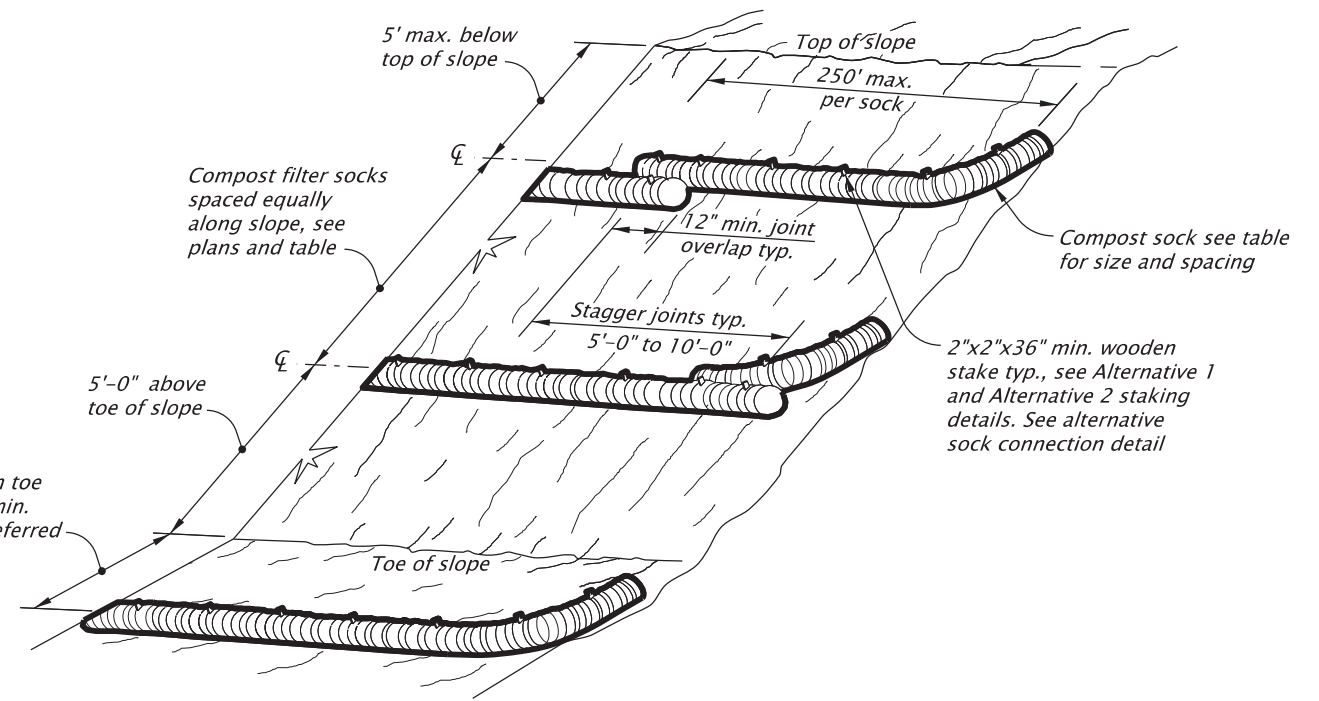
RD1032.dgn 20-JAN-2021



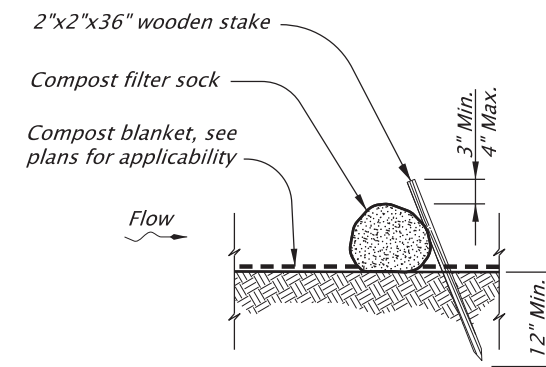
**NOTE:**  
Fully biodegradable compost sock mesh is recommended for permanent installations. Where compost socks must be moved or removed, synthetic sock mesh should be used.

COMPOST FILTER SOCK DIAMETER AND SPACING BASED ON SLOPE		
SLOPE	SPACING (ft)	DIAMETER (in)
<1:50	250	8
1:50 - 1:10	125	12
1:10 - 1:5	100	12
1:5 - 1:2	50	18
>1:2	25	18

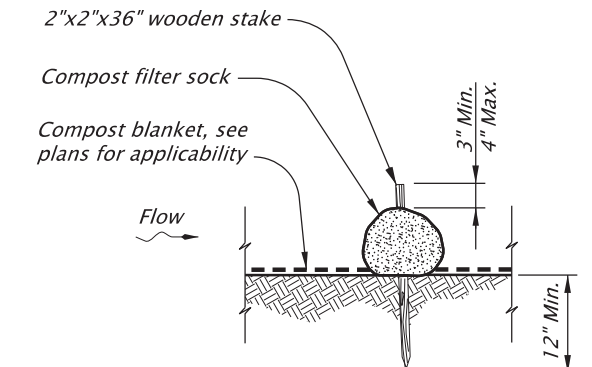
**COMPOST FILTER SOCK**  
NOT TO SCALE



**SLOPE APPLICATION - PERSPECTIVE VIEW**



**ALTERNATIVE 1 (Staking)**

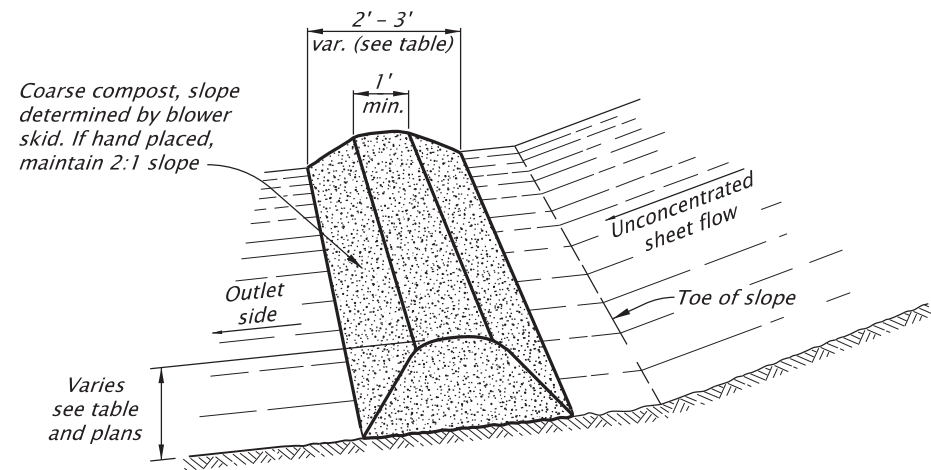


**ALTERNATIVE 2 (Staking)**

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.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>SEDIMENT BARRIER TYPE 8</b>			
2024			
DATE	REVISION DESCRIPTION		
01-2021	REMOVED CALC BOOK NUMBERS		
CALC. BOOK NO.	N/A	SDR DATE	20-JAN-2021
			<b>RD1032</b>

Effective Date: December 1, 2024 – May 31, 2025

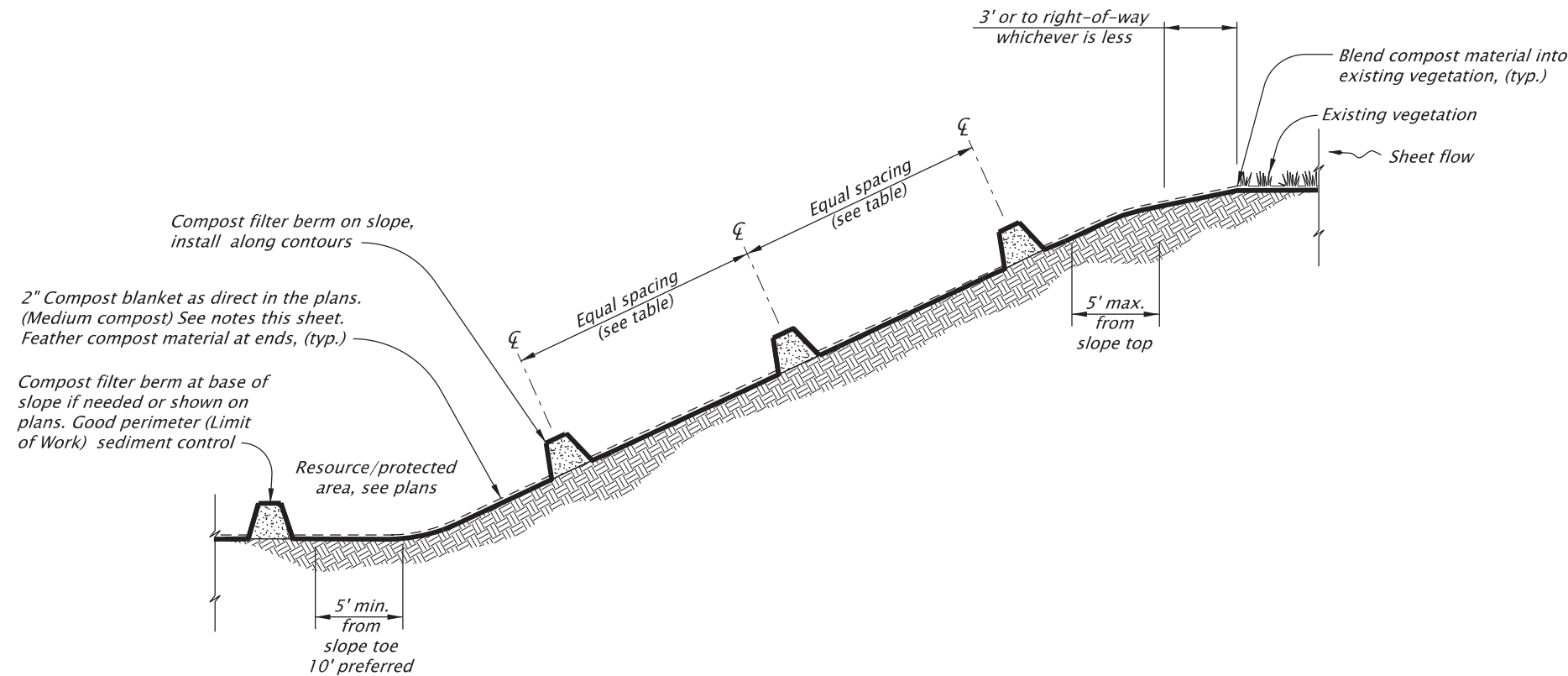


**COMPOST FILTER BERM - TYPE 9**  
NOT TO SCALE

COMPOST FILTER BERM DIMENSIONS AND SPACING BASED ON SLOPE				
SLOPE	BERM SPACING	BERM DIMENSIONS		
		HEIGHT	BOTTOM WIDTH	TOP WIDTH
> 50:1	250 ft	1 ft	2 ft (min.)	1 ft
50:1 - 10:1	125 ft	1 ft	2 ft (min.)	1 ft
10:1 - 5:1	100 ft	1 ft	2 ft (min.)	1 ft
3:1 - 2:1	50 ft	1.3 ft	2.6 ft (min.)	1 ft
> 2:1		1.5 ft	3 ft (min.)	1 ft

**NOTES:**

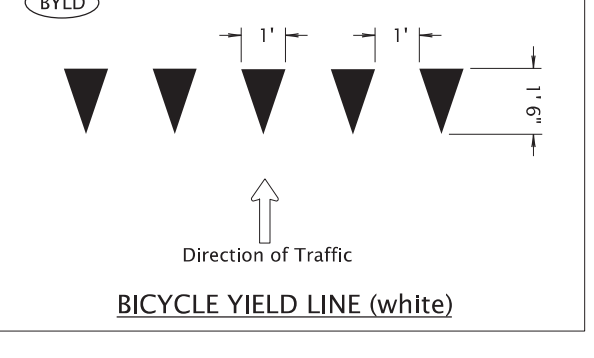
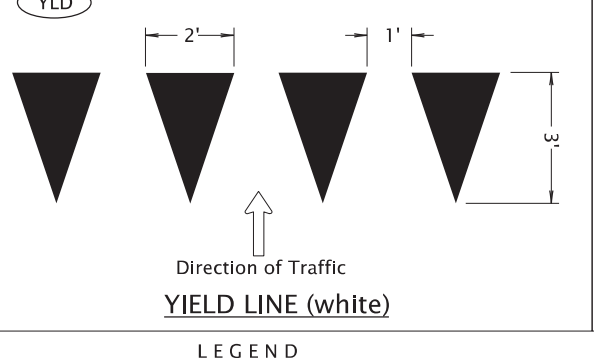
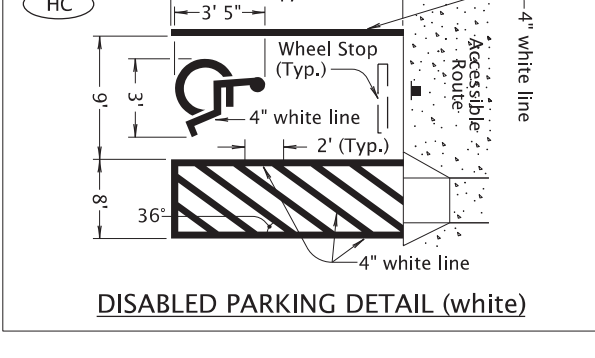
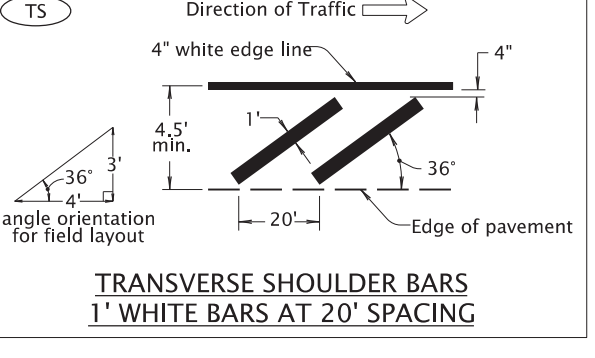
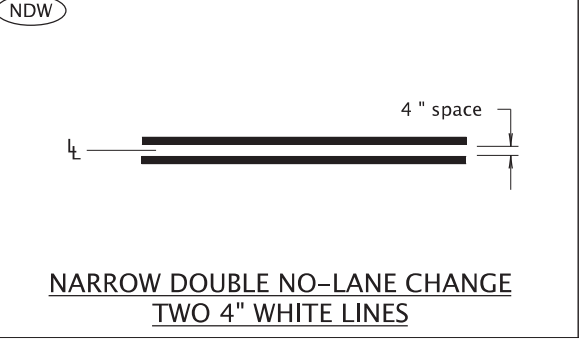
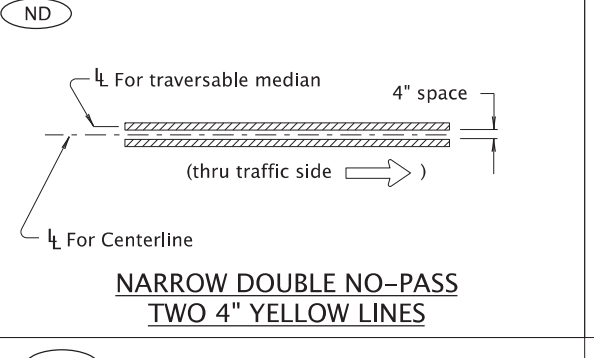
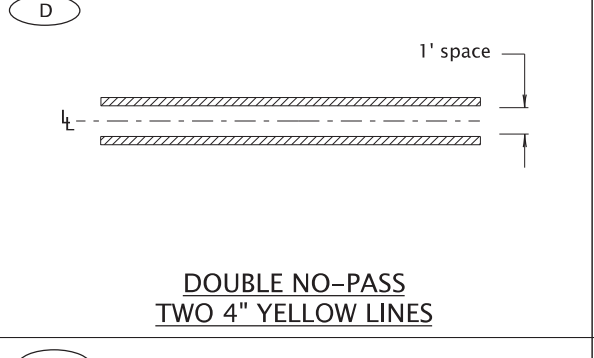
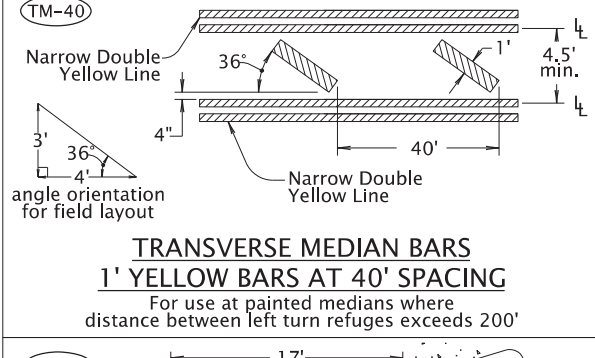
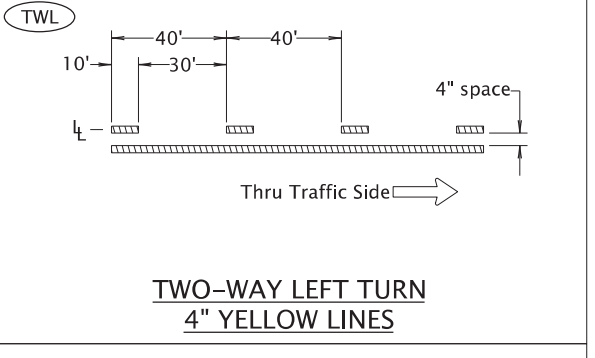
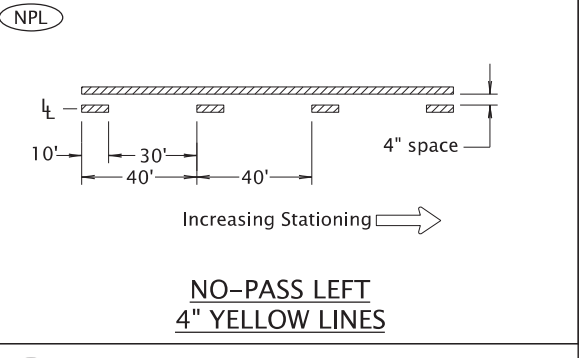
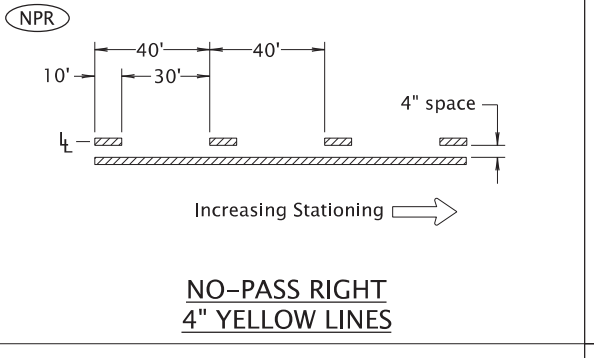
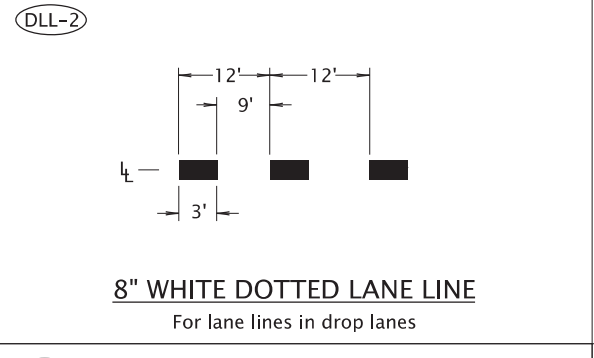
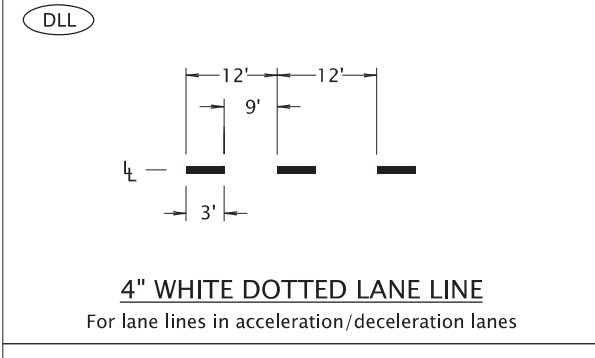
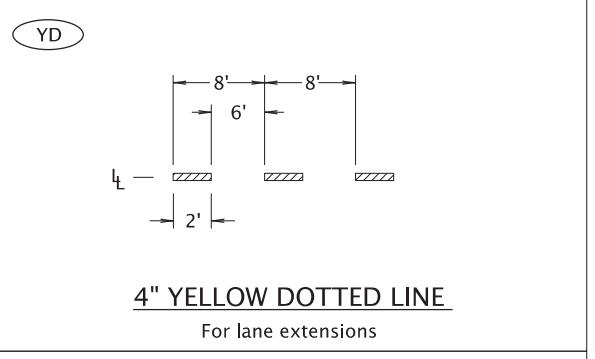
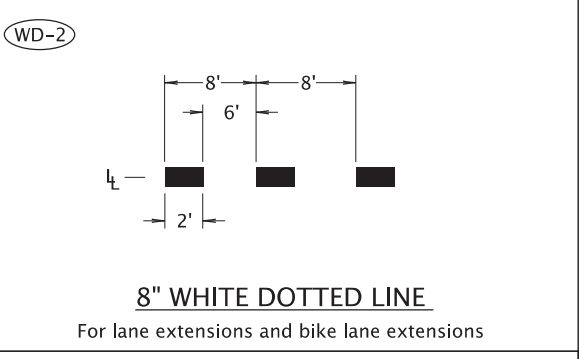
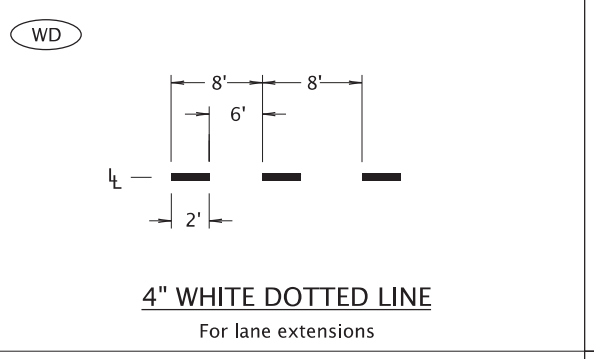
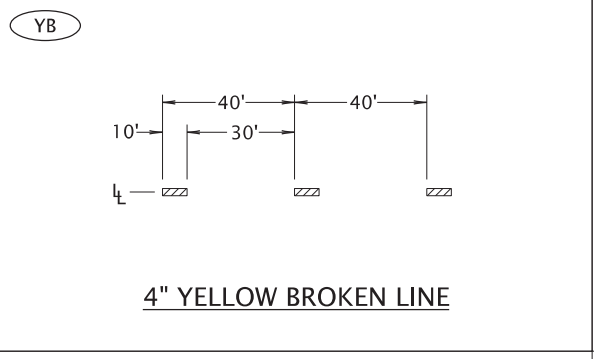
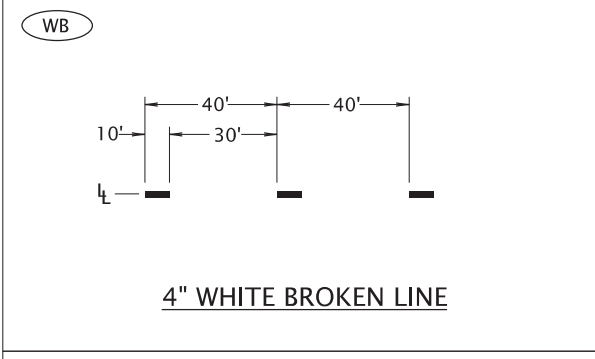
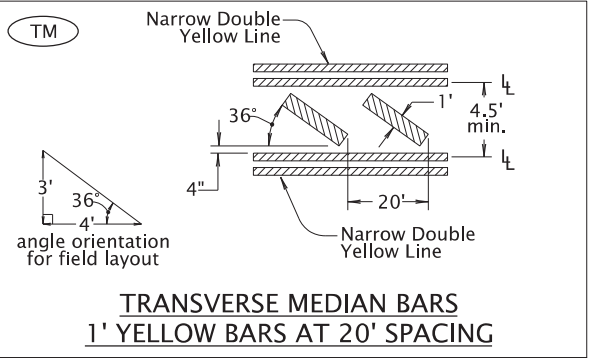
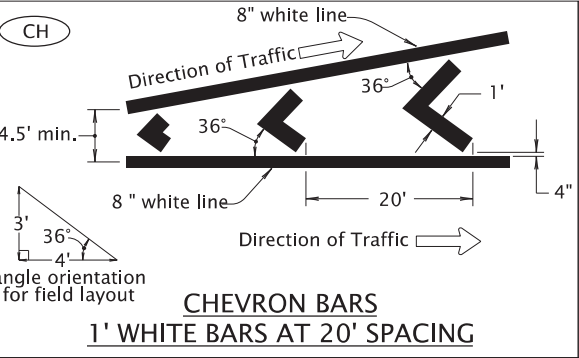
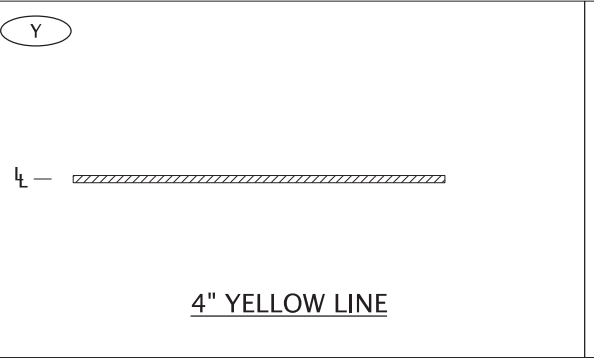
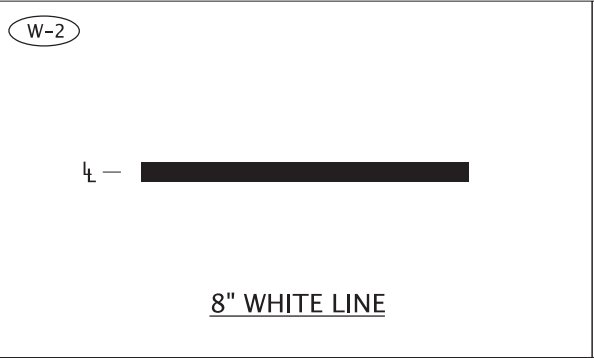
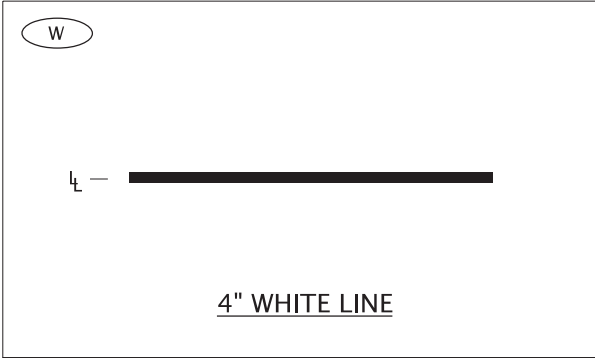
1. Compost filter berm's are sediment control devices for areas where runoff occurs as sheet flow. See Section 00280, Oregon Standard Specifications.
2. The maximum drainage area for a continuous berm shall be 1/4 acre per 100 linear feet of filter berm.
3. Where possible, berm's should be placed away from the toe of slopes a minimum of 5 feet (10 feet preferred) to allow for energy dissipation and sediment storage.
4. Direct the outlet side of filter berm, located at base of slope, onto a stabilized area, such as vegetation and/or aggregate.
5. Place filter berm's along or on the ground contour with the ends of the filter berm turned up slope. Adequate area shall be provided behind berm for ponding.
6. Compost filter berm's may be vegetated with temporary or permanent seeding after placement.
7. If placed in area with existing ground vegetation, cut vegetation to 2-4 inches above grade at berm footprint. Do not remove existing vegetation or cut back outside berm footprint unless directed by Agency.
8. If soils are exposed apply compost blanket per details and specifications.



**COMPOST FILTER BERM SERIES**  
NOT TO SCALE

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All materials shall be in accordance with the current Oregon Standard Specifications.		
<b>OREGON STANDARD DRAWINGS</b>		
<b>SEDIMENT BARRIER TYPE 9</b>		
2024		
DATE	REVISION	DESCRIPTION
01-2021	REMOVED	CALC BOOK NUMBERS
CALC. BOOK NO.	N/A	SDR DATE
		20-JAN-2021
		<b>RD1033</b>



LEGEND

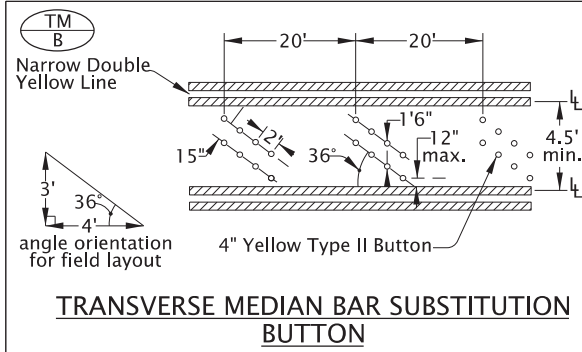
← Direction Of Traffic, Increasing Stationing Or Thru Traffic Side

⊥ Lane line dimensions are shown on the striping plans

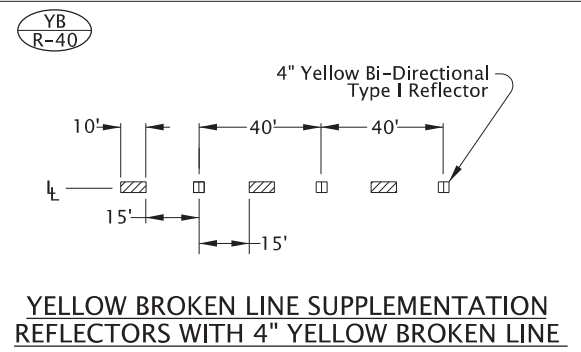
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.		
<b>OREGON STANDARD DRAWINGS</b>		
<b>PAVEMENT MARKING STANDARD DETAIL BLOCKS</b>		
2024		
DATE	REVISION DESCRIPTION	
07-2020	Changed Min. widths for CH, TM, TM-40, and TS	
CALC. BOOK NO.	N/A	SDR DATE: 07-01-2020
		<b>TM500</b>

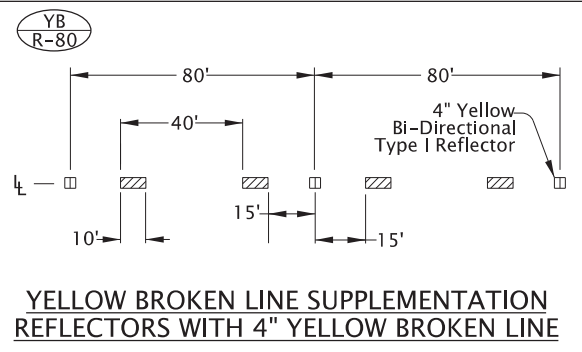




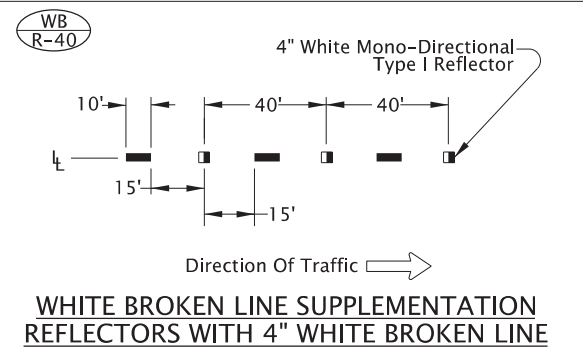
**TRANSVERSE MEDIAN BAR SUBSTITUTION BUTTON**



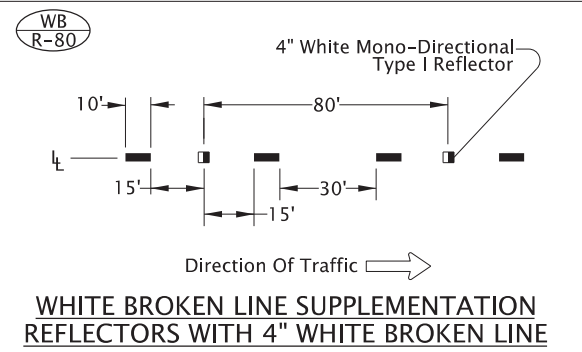
**YELLOW BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" YELLOW BROKEN LINE**



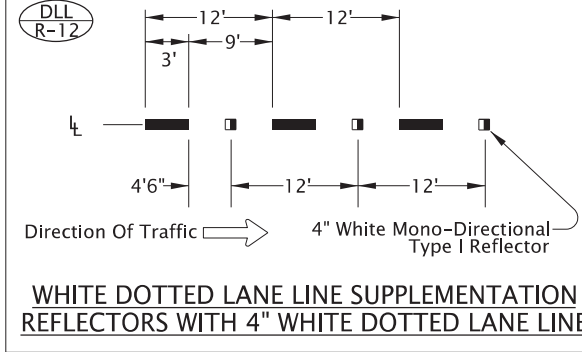
**YELLOW BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" YELLOW BROKEN LINE**



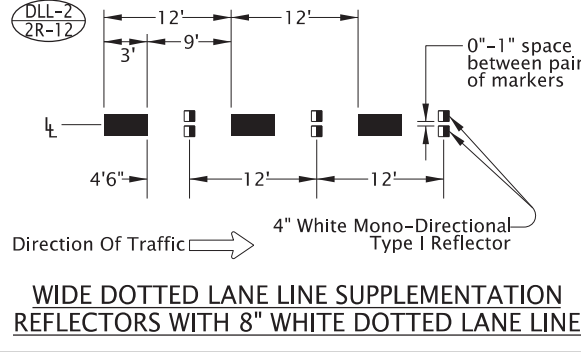
**WHITE BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" WHITE BROKEN LINE**



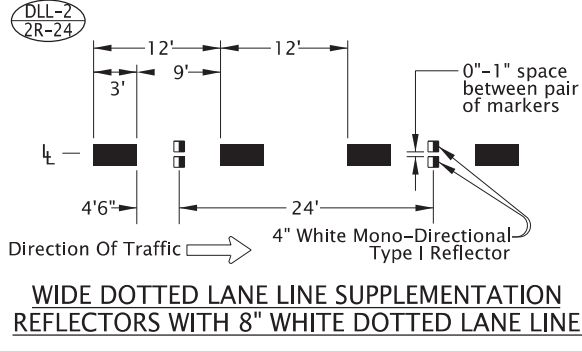
**WHITE BROKEN LINE SUPPLEMENTATION REFLECTORS WITH 4" WHITE BROKEN LINE**



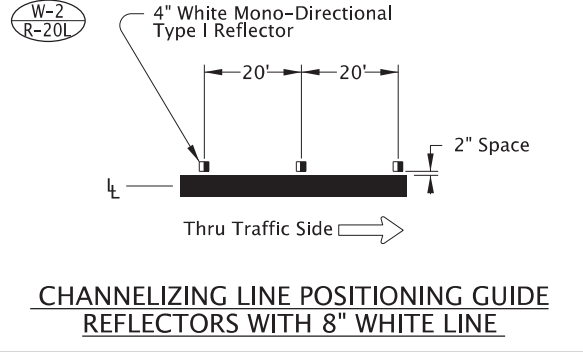
**WHITE DOTTED LANE LINE SUPPLEMENTATION REFLECTORS WITH 4" WHITE DOTTED LANE LINE**



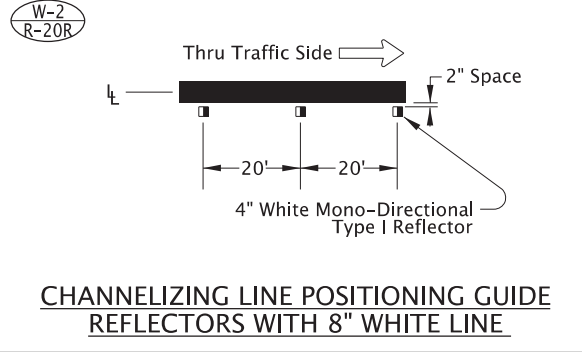
**WIDE DOTTED LANE LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE DOTTED LANE LINE**



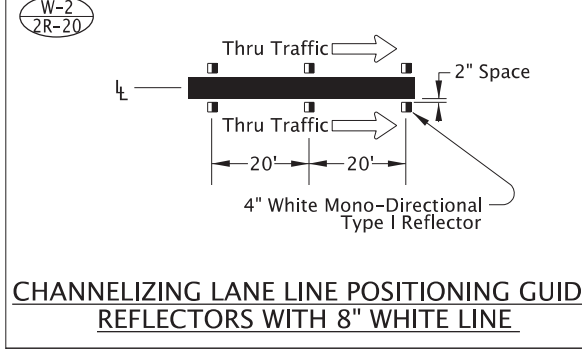
**WIDE DOTTED LANE LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE DOTTED LANE LINE**



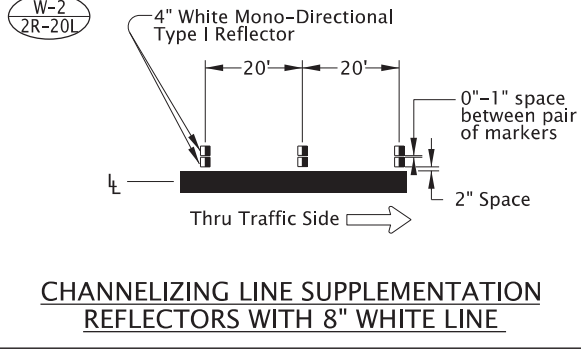
**CHANNELIZING LINE POSITIONING GUIDE REFLECTORS WITH 8" WHITE LINE**



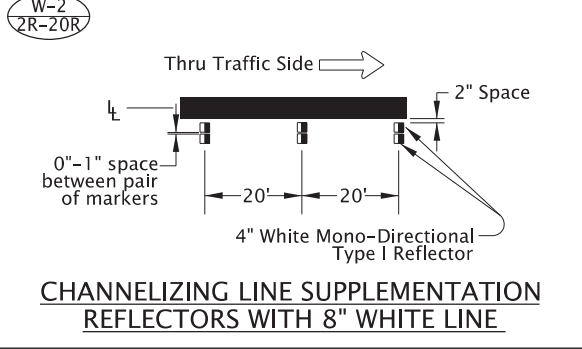
**CHANNELIZING LINE POSITIONING GUIDE REFLECTORS WITH 8" WHITE LINE**



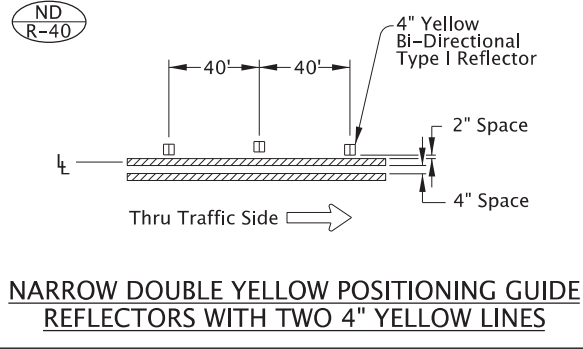
**CHANNELIZING LANE LINE POSITIONING GUIDE REFLECTORS WITH 8" WHITE LINE**



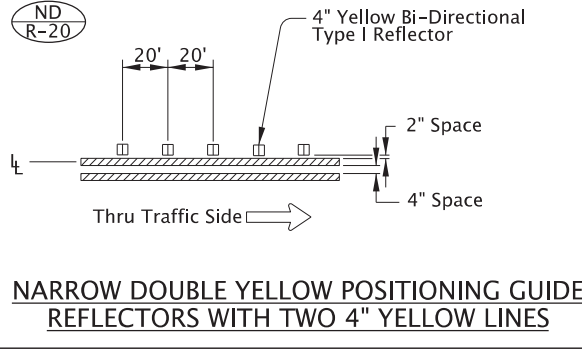
**CHANNELIZING LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE LINE**



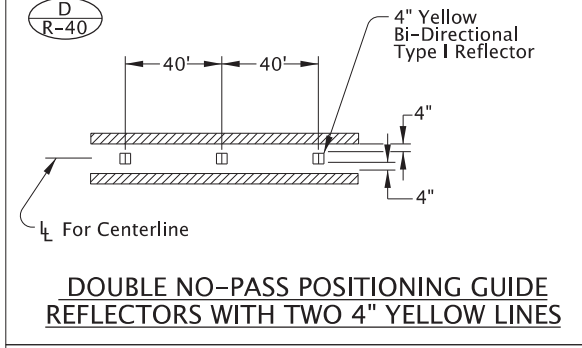
**CHANNELIZING LINE SUPPLEMENTATION REFLECTORS WITH 8" WHITE LINE**



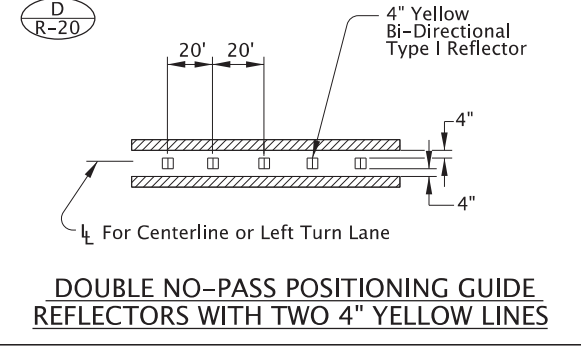
**NARROW DOUBLE YELLOW POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES**



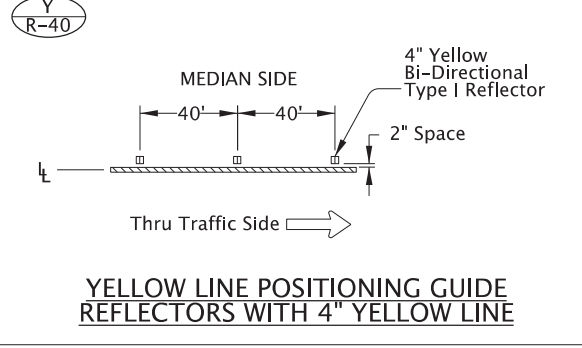
**NARROW DOUBLE YELLOW POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES**



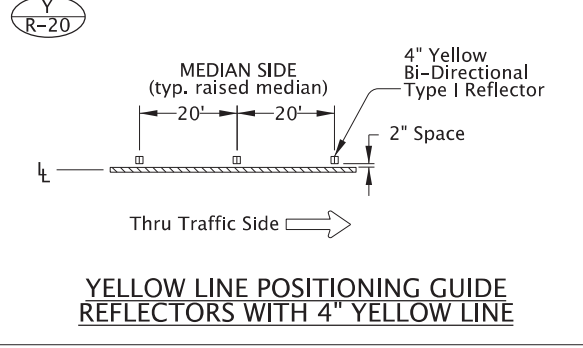
**DOUBLE NO-PASS POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES**



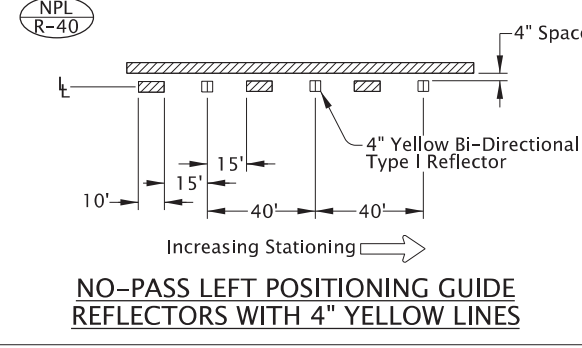
**DOUBLE NO-PASS POSITIONING GUIDE REFLECTORS WITH TWO 4" YELLOW LINES**



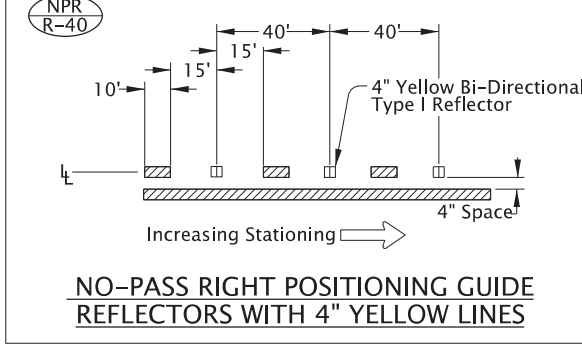
**YELLOW LINE POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINE**



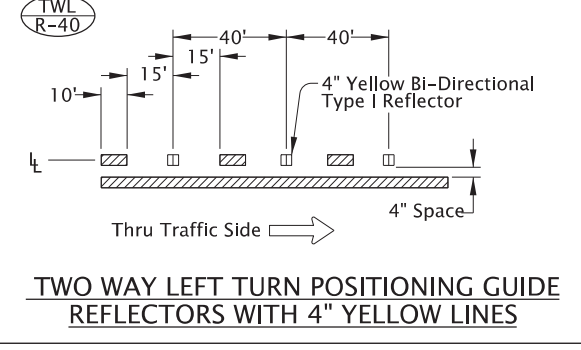
**YELLOW LINE POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINE**



**NO-PASS LEFT POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINES**



**NO-PASS RIGHT POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINES**



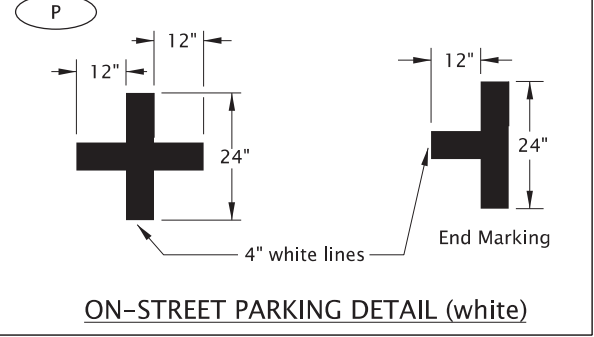
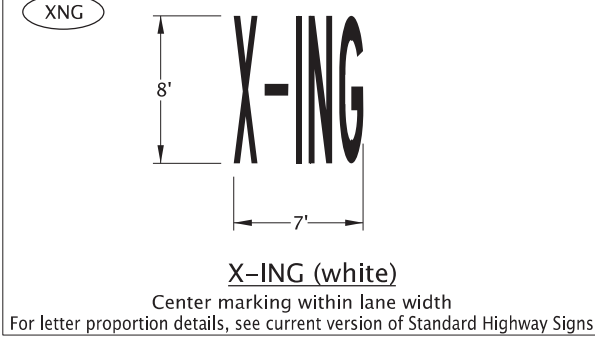
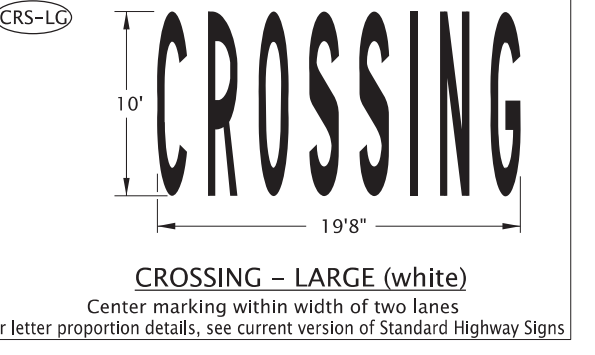
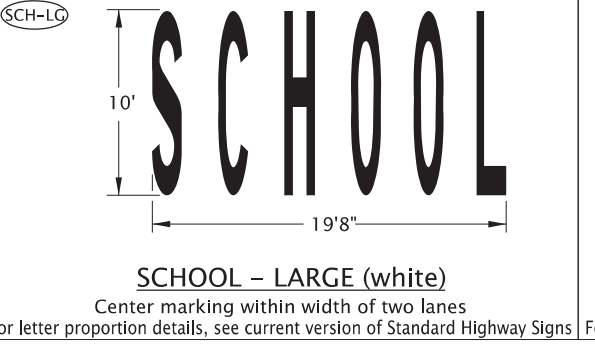
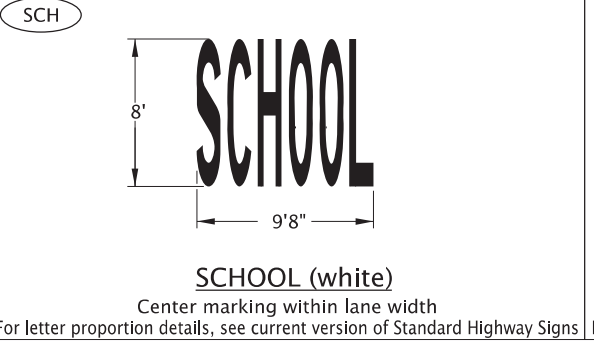
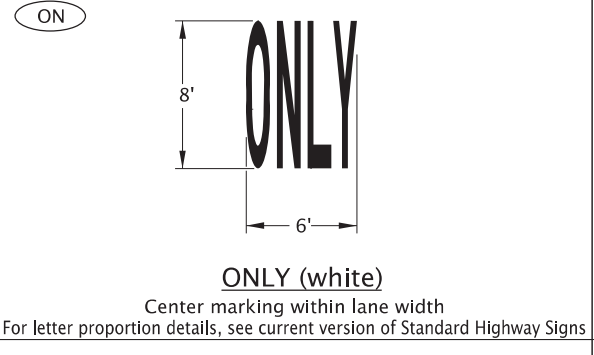
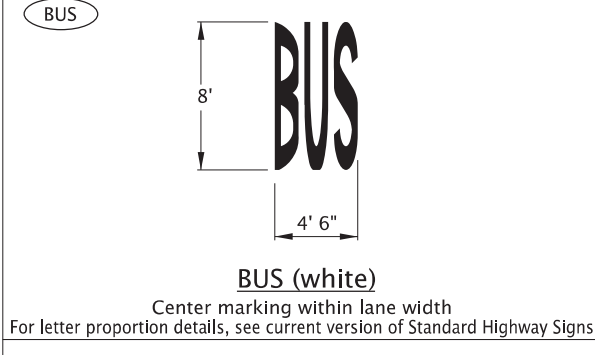
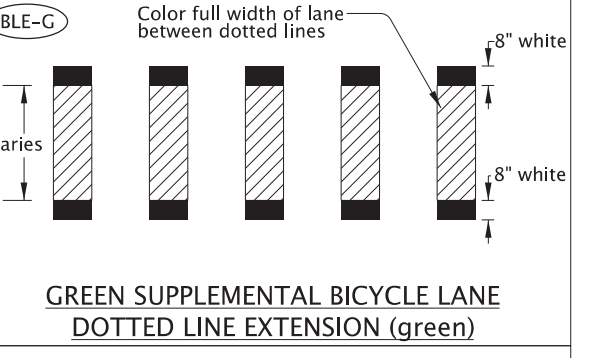
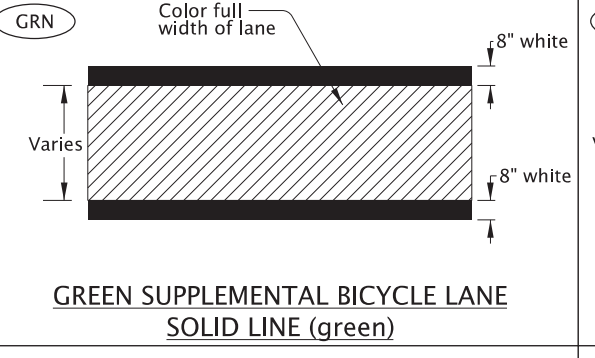
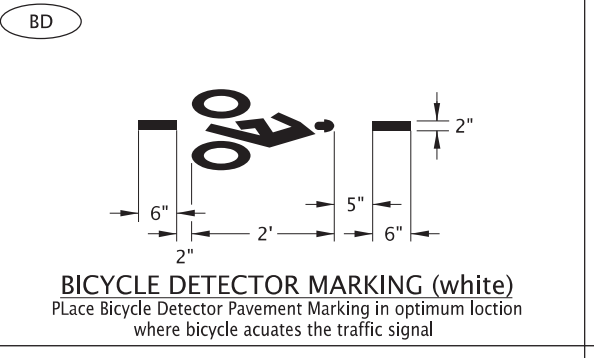
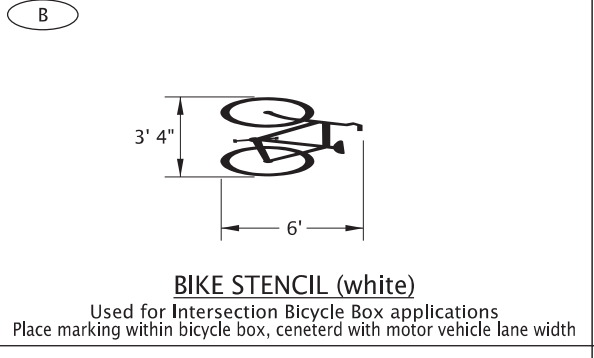
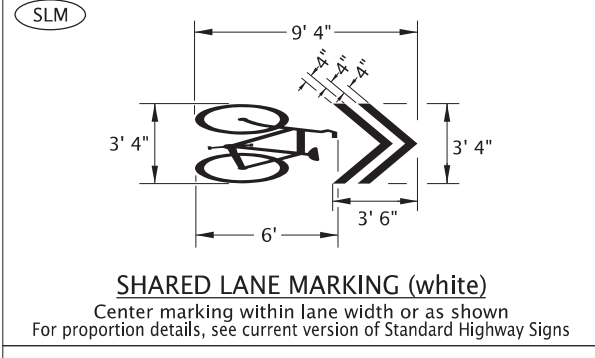
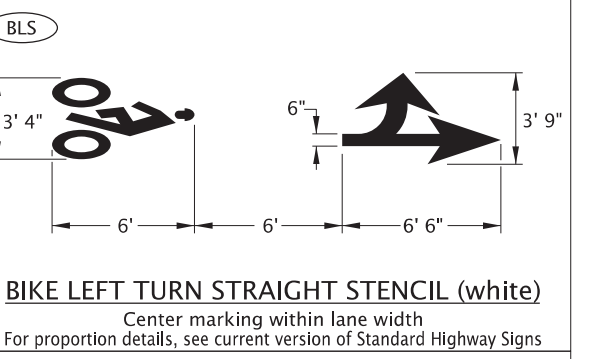
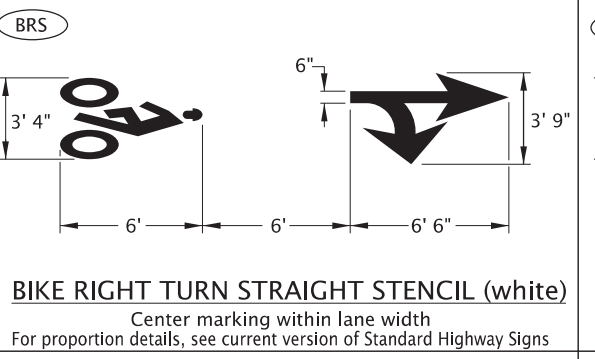
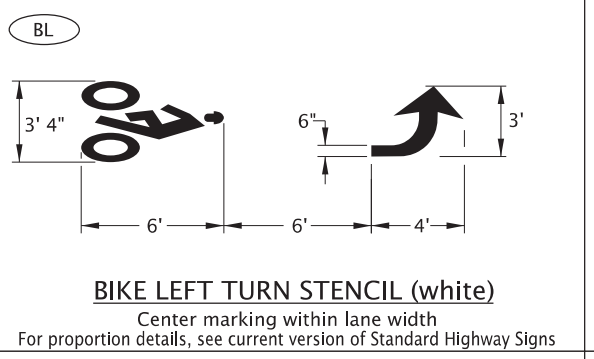
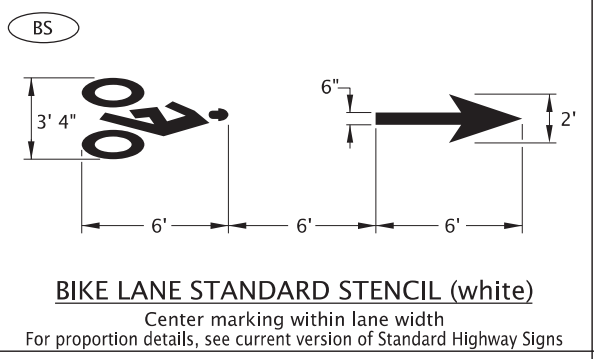
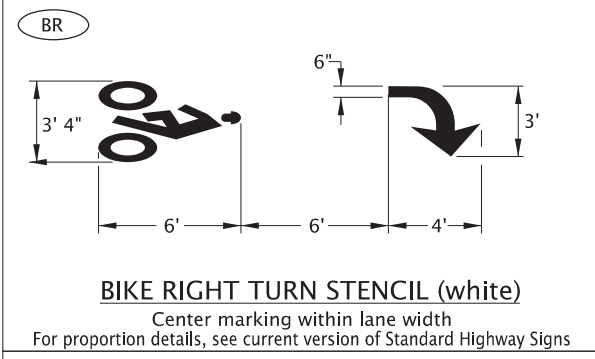
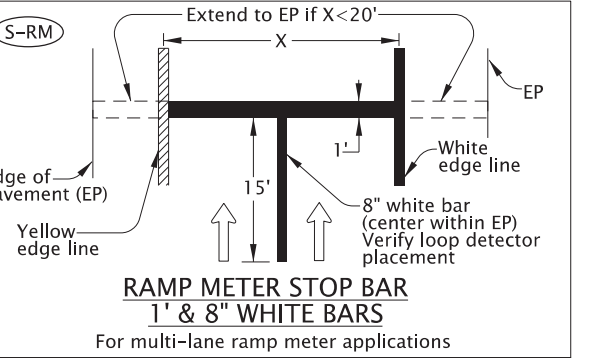
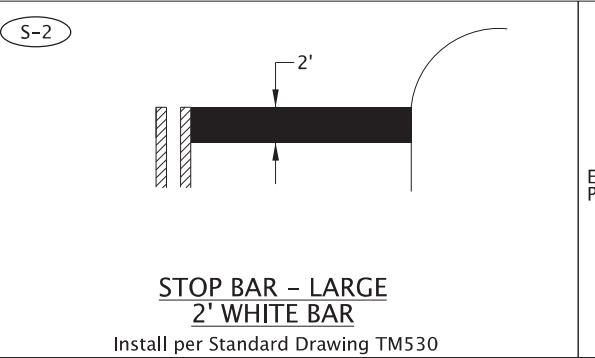
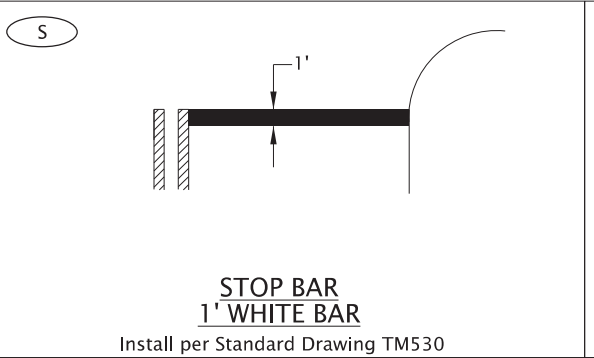
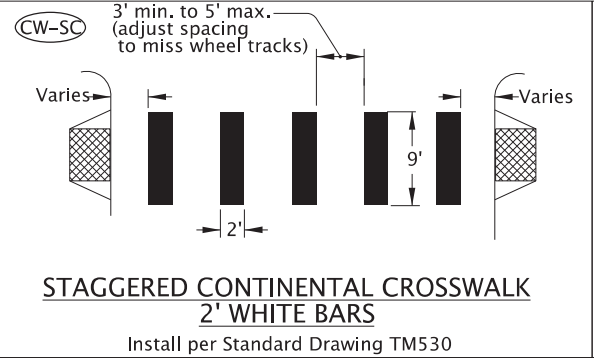
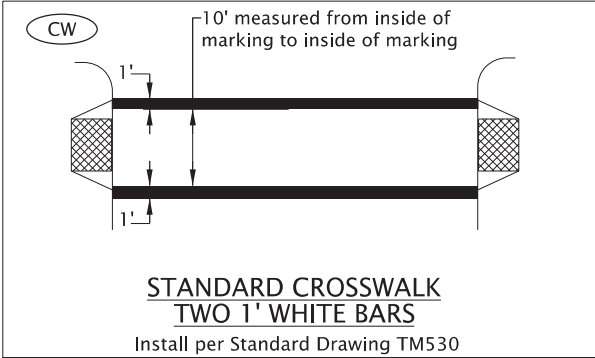
**TWO WAY LEFT TURN POSITIONING GUIDE REFLECTORS WITH 4" YELLOW LINES**

General note:  
1) Surface mount Raised Pavement Markers (RPMs) unless otherwise specified.

- LEGEND**
- ← Direction Of Travel, Increasing Stationing or Thru Traffic Side
  - ⊥ Lane line dimensions are shown on the striping plans
  - Mono-directional crystal white marker reflects white to the left in this symbol
  - Bi-directional yellow marker reflects yellow both left and right in this symbol

*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.		
<b>OREGON STANDARD DRAWINGS</b>		
<b>PAVEMENT MARKING STANDARD DETAIL BLOCKS</b>		
2024		
DATE	REVISION DESCRIPTION	
07-2020	Changed min. width of TM/B from 6' to 4.5'	
01-2022	Removed "LANE" from W-2/R-20R title	
CALC. BOOK NO.	N/A	SDR DATE: 01-03-2022
		<b>TM502</b>



General Note:  
1. Arrow, letter, and bike symbol dimensions nominal.

**LEGEND**  
← Direction of Travel

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**OREGON STANDARD DRAWINGS**

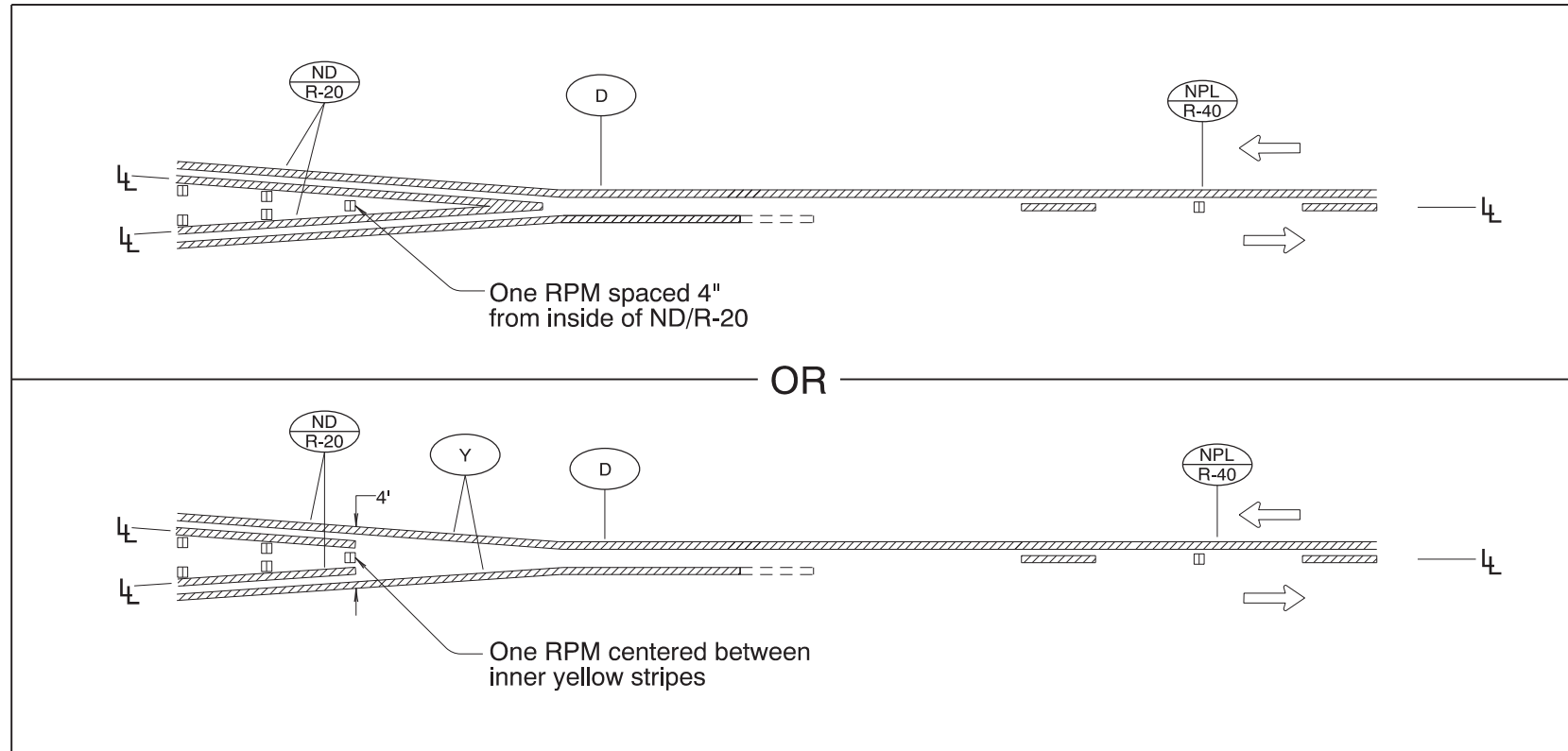
**PAVEMENT MARKING  
STANDARD DETAIL BLOCKS**

2024

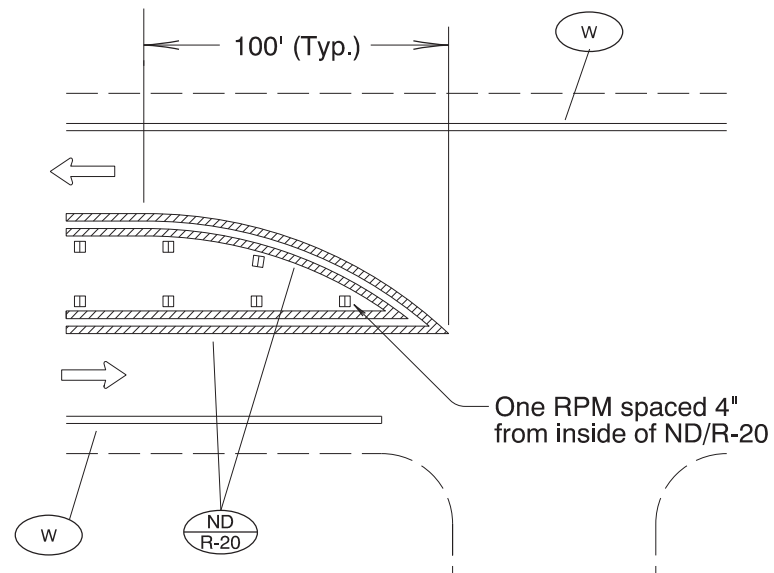
DATE	REVISION	DESCRIPTION
07-2022		Added note for measurement of Standard Crosswalk

CALC. BOOK NO. N/A SDR DATE: 07-08-2022 **TM503**

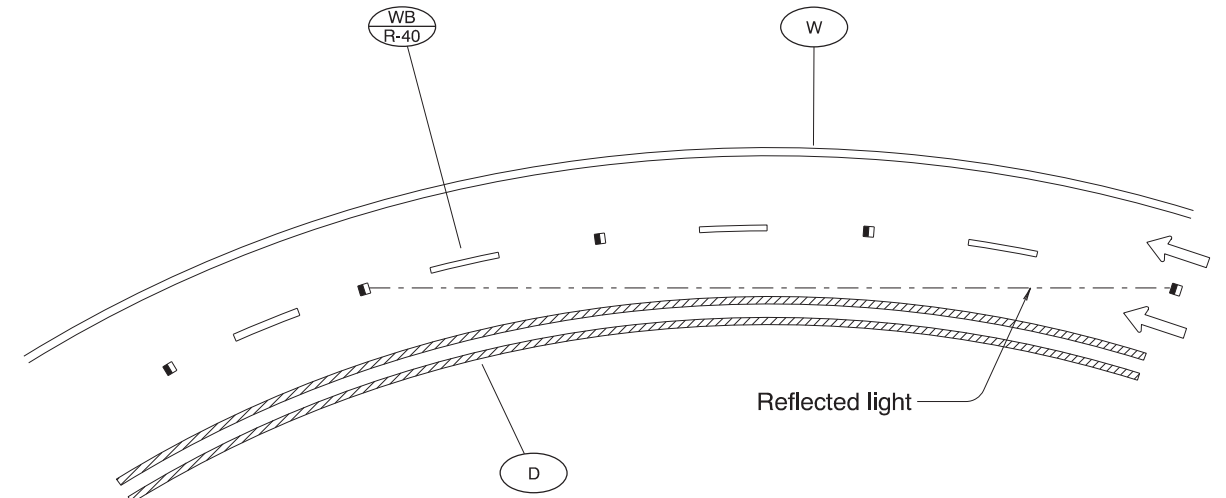




**MEDIAN WIDTH TRANSITION**  
 (TWO NARROW DOUBLE YELLOW LINES TO ONE-DIRECTION NO-PASSING LINE)  
 (Refer to TM539 for additional details)

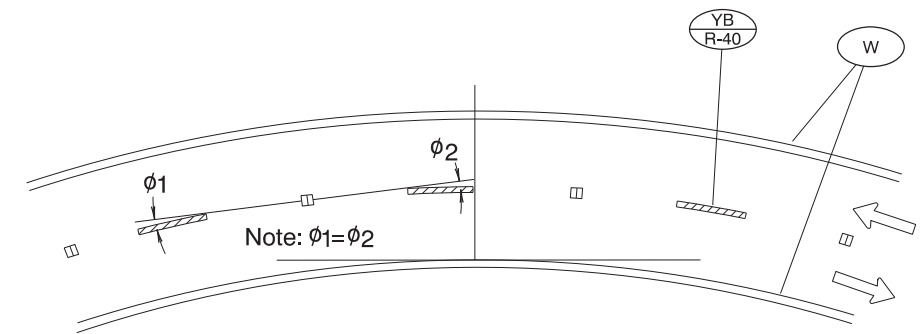


**MEDIAN BULLNOSE DETAIL**



**NOTE:**  
 On one way sections the marker shall be installed with the reflective surface aimed to direct the reflected light back three markers.

(a) PAVEMENT MARKER INSTALLATION FOR MONO-DIRECTIONAL RAISED PAVEMENT MARKERS



(b) PAVEMENT MARKER INSTALLATION FOR BI-DIRECTIONAL RAISED PAVEMENT MARKERS

**PAVEMENT MARKER INSTALLATION ON HORIZONTAL CURVES**

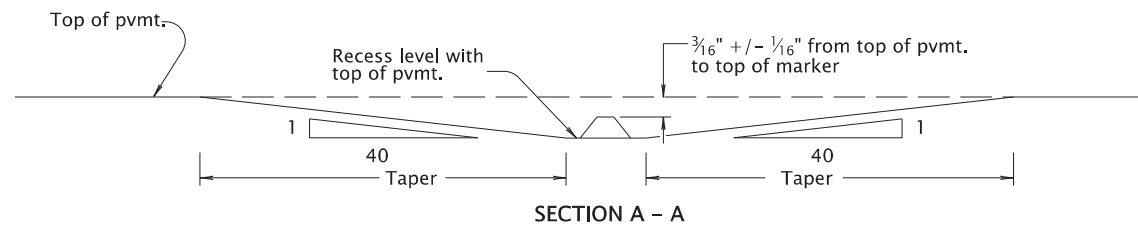
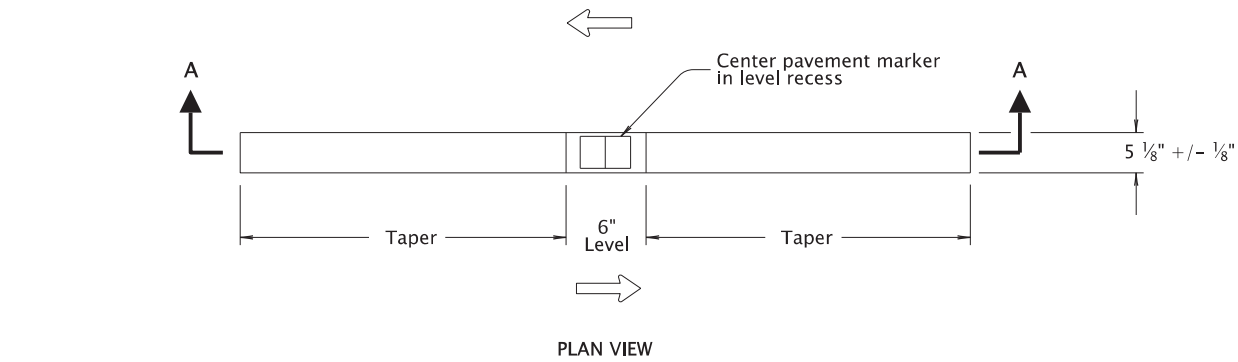
**LEGEND**

- Mono-Directional White (marker reflects white to left in this symbol)
- Bi-Directional Yellow (marker reflects yellow to both the left and right in this symbol)
- Increasing stationing from left to right
- ← Direction of Travel
- ⊥ Lane line dimensions are shown on the striping plans.

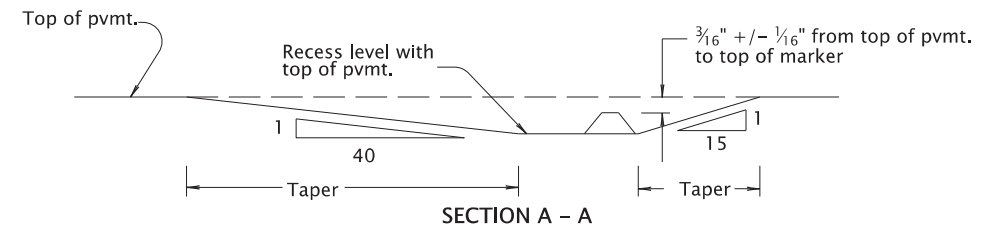
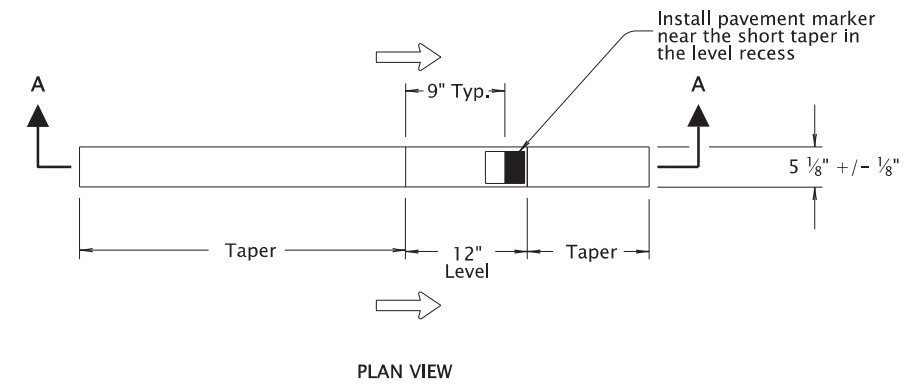
To be accompanied by Standard Dwg. Nos. TM500 thru TM504

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>PAVEMENT MARKERS</b>			
2024			
DATE	REVISION DESCRIPTION		
CALC. BOOK NO.	N/A	SDR DATE	01-JUL-2015
			<b>TM515</b>

Effective Date: December 1, 2024 – May 31, 2025



BI-DIRECTIONAL RECESSED PAVEMENT MARKER DETAIL



MONO-DIRECTIONAL RECESSED PAVEMENT MARKER DETAIL

LEGEND

- ← Direction of Travel
- Bi-directional yellow marker reflects yellow both left and right in this symbol
- Mono-directional crystal white marker reflects white to the left in this symbol

To be accompanied by Standard Dwg. Nos. TM502 and TM515

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All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

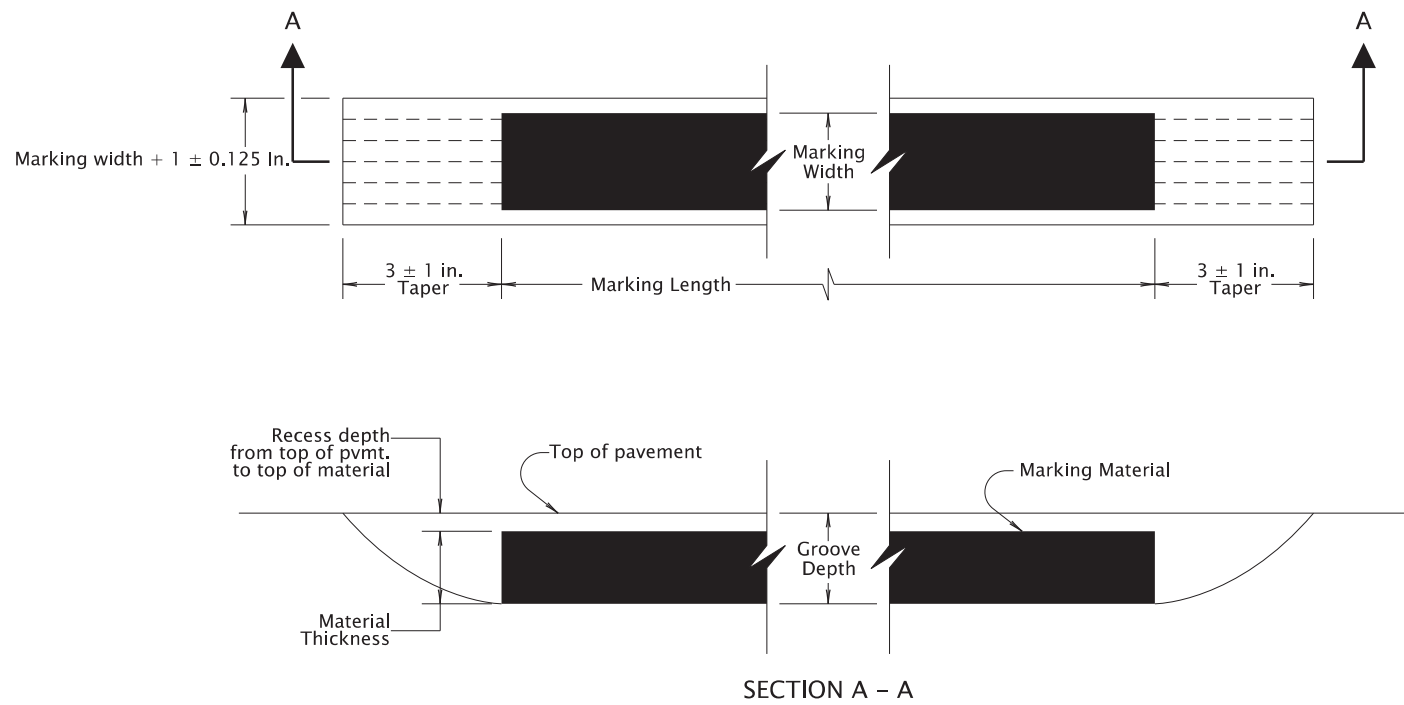
**RECESSED PAVEMENT MARKERS**

2024

DATE	REVISION	DESCRIPTION
07-2021		Updated to better fit ODOT drafting standards

CALC. BOOK NO. ---	N/A ---	SDR DATE - 07-06-2021 -	<b>TM517</b>
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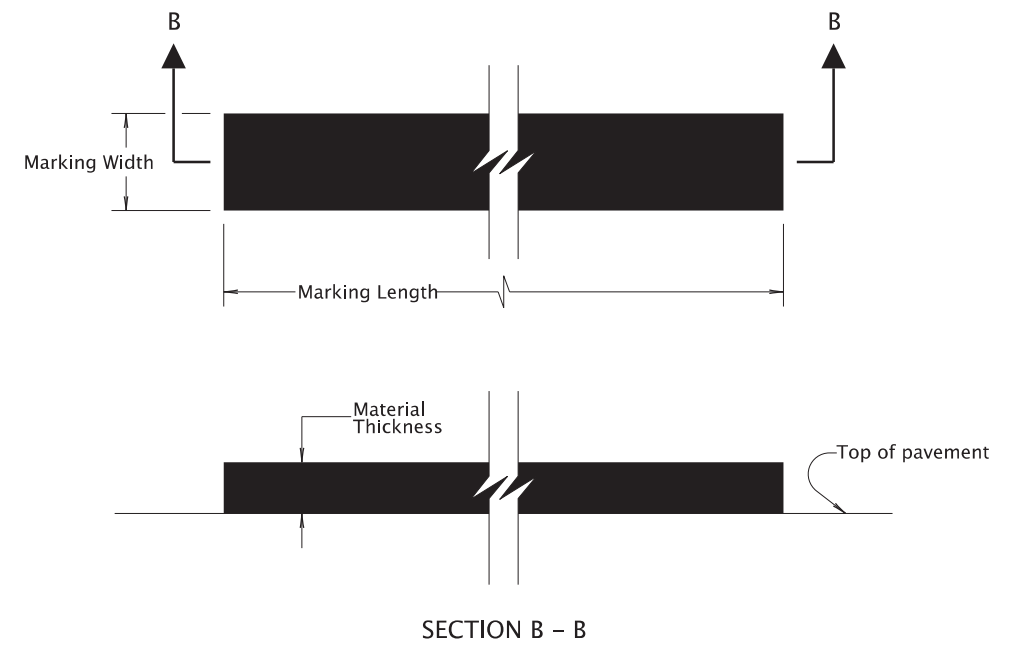
Effective Date: December 1, 2024 – May 31, 2025



GROOVE INSTALLED GROOVE AND MATERIAL DIMENSIONS

Pavement Marking Material Type	Groove Depth	Recess Depth	Material Thickness
Durable Method 'A' & Method 'D'	220 ± 20 mils	45 ± 5 mils	Var.
High Performance	60 ± 10 mils	Var.	25 mils

GROOVE INSTALLED MARKINGS



SURFACE INSTALLED MATERIAL THICKNESS

Pavement Marking Material Type	Thickness
Durable Method 'A' & Method 'B' & Method 'D'	120 mils
High Performance	25 mils

SURFACE INSTALLED MARKINGS

**General Notes:**

- 1) See Standard Drawing TM500 and/or project plans for marking length and width dimensions.
- 2) See Standard Specification 00850.46 for marking installation tolerances.

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All materials shall be in accordance with the current Oregon Standard Specifications.

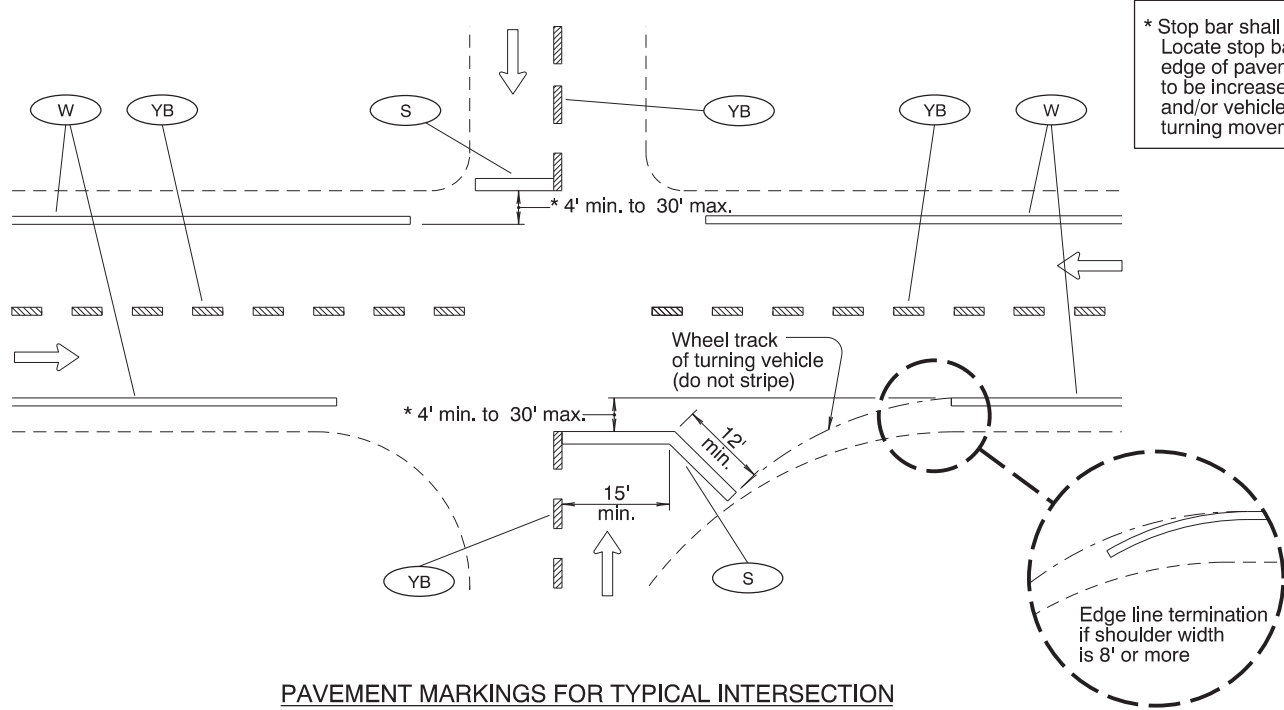
**OREGON STANDARD DRAWINGS  
DURABLE & HIGH PERFORMANCE  
PAVEMENT MARKINGS  
SURFACE & GROOVE INSTALLED  
NON-PROFILED  
2024**

DATE	REVISION DESCRIPTION
07-2021	Changed groove width for 4 in. markings
01-2023	Changed groove width back to previous width for 4 in. markings

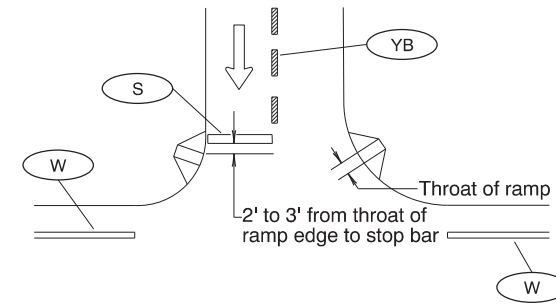
CALC. BOOK NO. --- N/A --- SDR DATE: 20-JAN-2023 **TM521**

06-JUL-2022

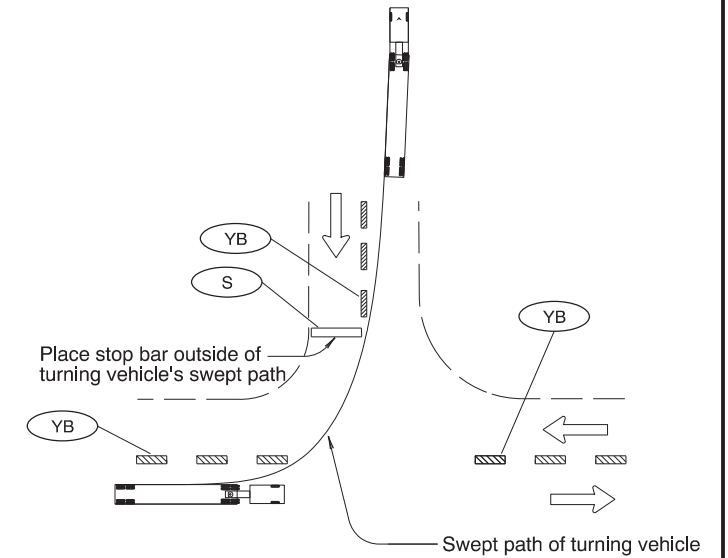
TM530.dgn



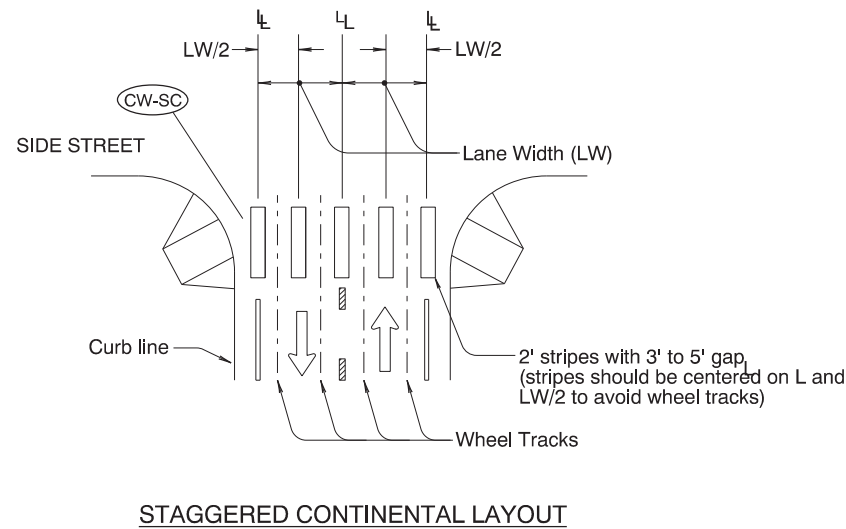
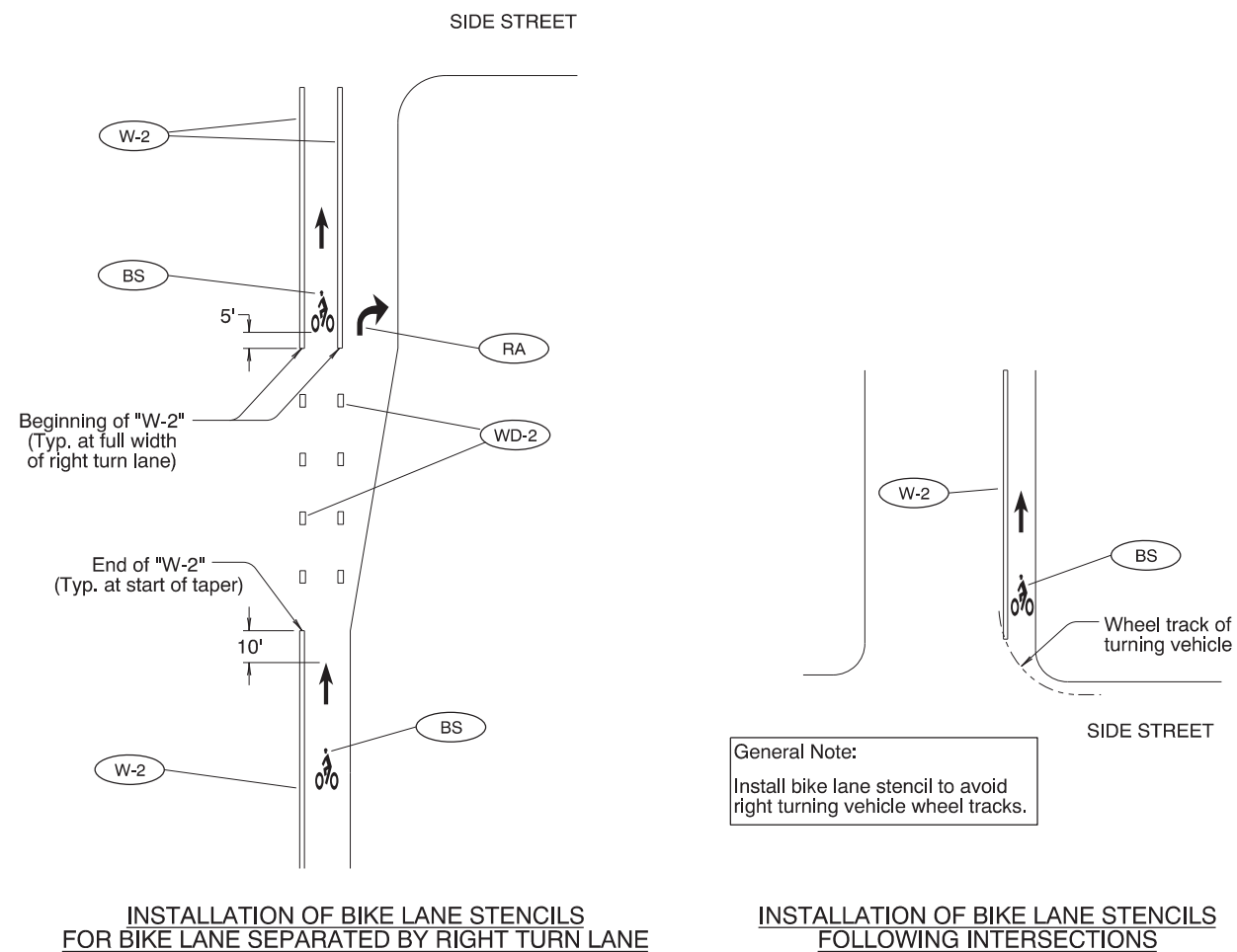
PAVEMENT MARKINGS FOR TYPICAL INTERSECTION



Detail "A"  
STOP BAR PLACEMENT WITH RESPECT TO PEDESTRIAN RAMP



Detail "B"  
STOP BAR PLACEMENT WITH RESPECT TO TURN RADII

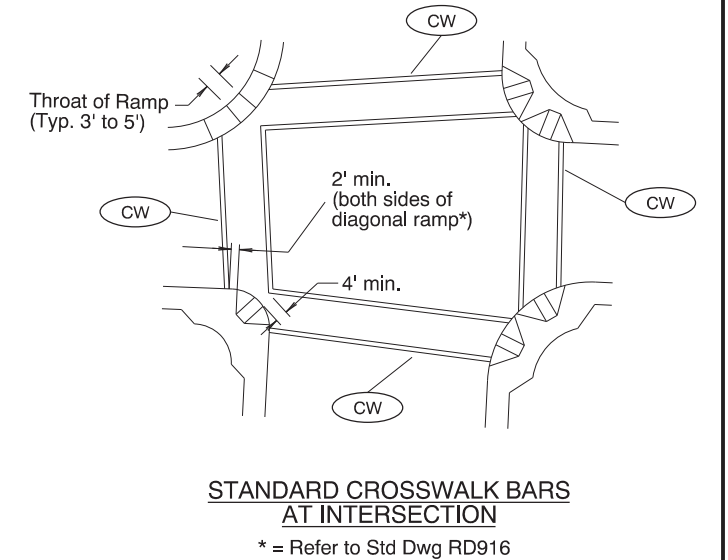


General Note:  
1. Install crosswalk bars such that the throat of the ADA ramp is entirely within crosswalk markings, or 5' back of extended fog line, edge of pavement, or curb face.

LEGEND

← Direction of Travel

L - Lane line dimensions are shown on the striping plans



To be accompanied by Standard Dwg. Nos. TM500 thru TM504

All materials shall be in accordance with the current Oregon Standard Specifications.

**OREGON STANDARD DRAWINGS**

**INTERSECTION PAVEMENT MARKINGS (CROSSWALK, STOP BAR & BIKE LANE STENCIL)**

2024

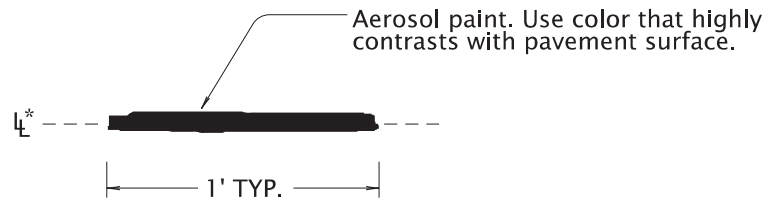
DATE	REVISION	DESCRIPTION
07-2022	Added Roadway Standard Drawing reference to detail for clarity	

CALC. BOOK NO. - - - N/A - - - SDR DATE - 06-JUL-2022 - **TM530**

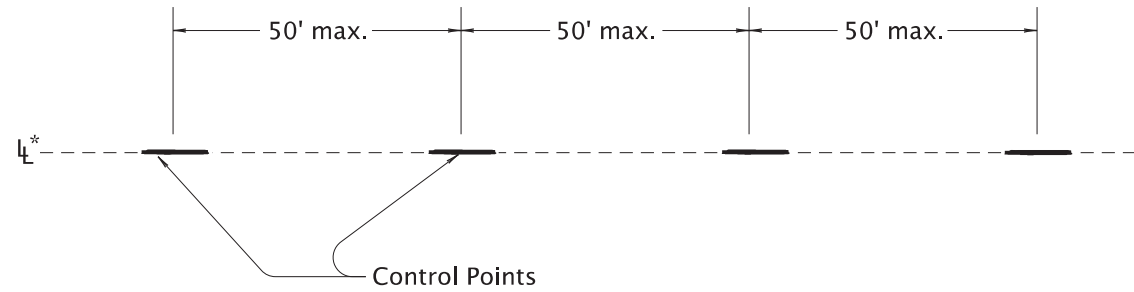
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

Effective Date: December 1, 2024 – May 31, 2025

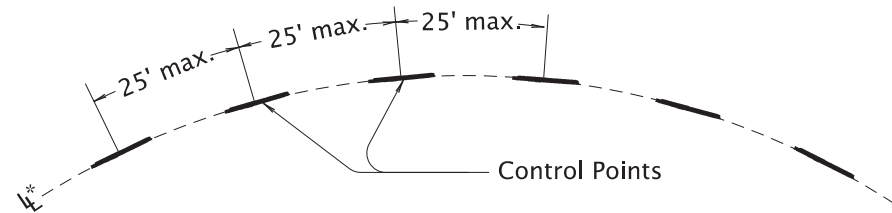
07-01-2020  
TM560.dgn



**CONTROL POINT**



**CONTROL POINT LAYOUT - TANGENT SECTIONS**



**CONTROL POINT LAYOUT - CURVE SECTIONS**

**General note:**

1.) Use control points to make continuous narrow guideline as specified.

\* Control points are placed along the lane line for all longitudinal lines except the following:

**ND** For center lines only A control point layout 4" offset from the lane line is required for a ND line when used as a center line.

**LEGEND**

ℓ — Lane line dimensions are shown on the striping plans.

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

<p><i>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.</i></p>		<p>All materials shall be in accordance with the current Oregon Standard Specifications.</p>	
		<p><b>OREGON STANDARD DRAWINGS</b></p>	
		<p><b>ALIGNMENT LAYOUT: GENERAL</b></p>	
		<p>2024</p>	
DATE	REVISION	DESCRIPTION	
07-2020		Extended accompanied by drawings to include TM504	
CALC. BOOK NO.	N/A	SDR DATE	07-01-2020
			<b>TM560</b>

Effective Date: December 1, 2024 – May 31, 2025

TAPER TYPES & FORMULAS	
TAPER	FORMULA
Merging (Lane Closure)	"L"
Shifting	"L"/2 or 1/2"L"
Shoulder Closure	"L"/3 or 1/3"L"
Flagging (See Drg. TM850)	50' - 100'
Downstream (Termination)	Varies (See Drawings)

★ Use Pre-Construction Posted Speed to select the Speed from the Tables below:

TEMPORARY BARRIER FLARE RATE TABLE	
★ SPEED (mph)	MINIMUM FLARE RATE
≤ 30	8:1
35	9:1
40	10:1
45	12:1
50	14:1
55	16:1
60	18:1
65	19:1
70	20:1

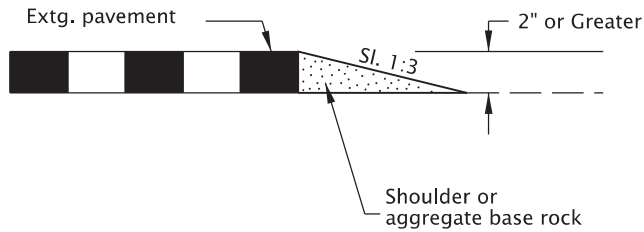
MINIMUM LENGTHS TABLE					
"L" VALUE FOR TAPERS (ft)					BUFFER "B" (ft)
★ SPEED (mph)	W = Lane or Shoulder Width being closed or shifted				
	W ≤ 10	W = 12	W = 14	W = 16	
25	105	125	145	165	75
30	150	180	210	240	100
35	205	245	285	325	125
40	265	320	375	430	150
45	450	540	630	720	180
50	500	600	700	800	210
55	550	660	770	880	250
60	600	720	840	960	285
65	650	780	910	1000	325
70	700	840	980	1000	365
FREEWAYS					
55	1000	1000	1000	1000	250
60	1000	1000	1000	1000	285
65	1000	1000	1000	1000	325
70	1000	1000	1000	1000	365

- NOTES:
- For Lane closures where W < 10', use "L" value for W = 10'.
  - For Shoulder closures where W < 10', use "L" value for W = 10' or calculate "L" using formula, for Speeds ≥ 45: L = WS, Speeds < 45: L = S<sup>2</sup>W/60, S = Speed, W=Width

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
★ SPEED (mph)	Sign Spacing (ft)			Max. Channelizing Device Spacing (ft)
	A	B	C	
20 - 30	100	100	100	20
35 - 40	350	350	350	20
45 - 55	500	500	500	40
60 - 70	700	700	700	40
Freeway	1000	1500	2640	40

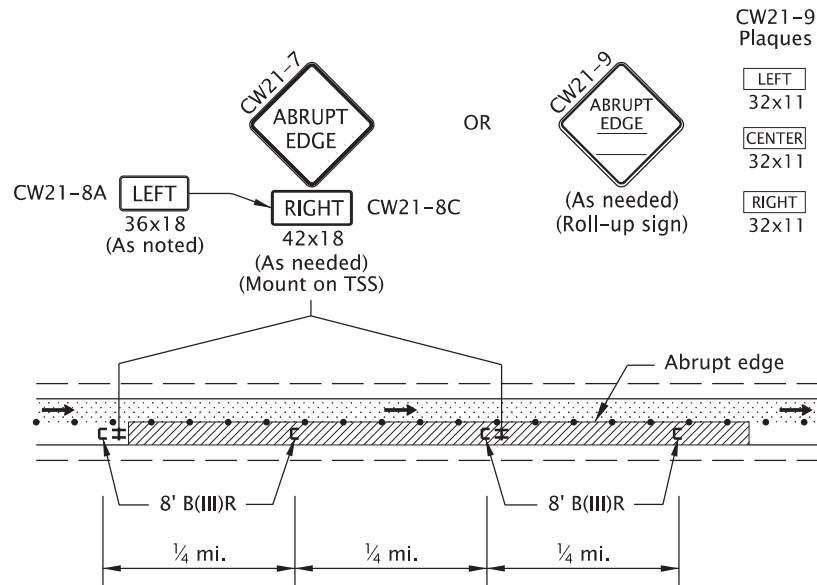
- NOTES:
- Place traffic control devices on 10 ft. spacing for intersection and access radii.
  - When necessary, sign spacing may be adjusted to fit site conditions. Limit spacing adjustments to 30% of the "A" dimension for all speeds.

- NOTES:
- When paved shoulders adjacent to excavations are less than four feet wide protect longitudinal abrupt edge as shown.
  - Use aggregate wedge when abrupt edge is 2 inches or greater.



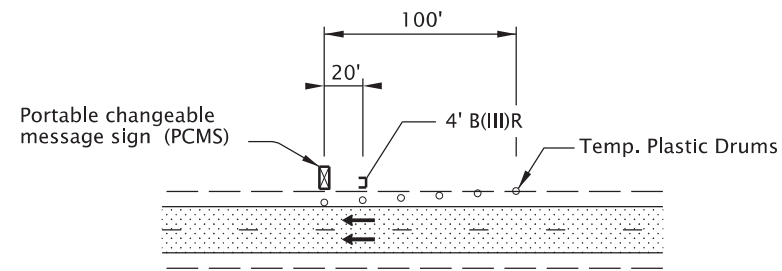
EXCAVATION ABRUPT EDGE

- NOTES:
- Abrupt edges may be created by paving, operations, excavations or other roadway work. Use abrupt edge signing for longitudinal abrupt edges of 1 inch or greater.
  - If the excavation is located on left side of traffic, replace the 8' B(III)R barricades with 8' B(III)L barricades and replace the "RIGHT" (CW21-8C) riders with "LEFT" (CW21-8A) riders.
  - Continue signing and other traffic control devices throughout excavation area at spacings shown.
  - If roll-up signs are used, attach the correct (CW21-9) plaques to the sign face using hook and loop fasteners. Place roll-up signs in advance of barricades.



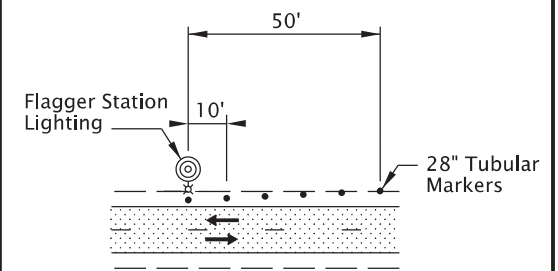
TYPICAL ABRUPT EDGE DELINEATION

- NOTES:
- Install PCMS beyond the outside shoulder, when possible.
  - Use the appropriate type of barricade panels for PCMS location. Right shoulder, use Type B(III)R. Left shoulder, use Type B(III)L.
  - Use six drums in shoulder taper on 20' spacing. The drums and barricade may be omitted when PCMS is placed behind a roadside barrier.
  - Detail as shown is used for trailered and non-crashworthy components of:
    - Portable Traffic Signals
    - Smart Work Zone Systems



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) INSTALLATION

- NOTES:
- Install Flagger Station Lighting beyond the outside shoulder, where practical.
  - Use six tubular markers in shoulder taper on 10' spacing.
  - Place cart / generator / power supply off of the shoulder, as far as practical.



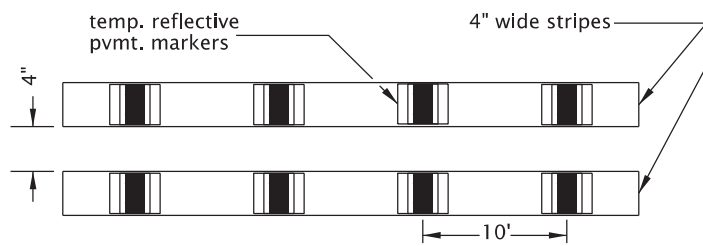
FLAGGER STATION LIGHTING DELINEATION

- GENERAL NOTES FOR ALL TCP DRAWINGS:
- Signs and other Traffic Control Devices (TCD) shown are the minimum required.
  - Place a barricade approx. 20' ahead of all sequential arrow boards.
  - Arrows shown in roadway are directional arrows to indicate traffic movements.
  - All signs are 48" x 48" unless otherwise shown. Use fluorescent orange sheeting for the background of all temporary warning signs.
  - All diamond shaped warning signs mounted on barrier sign supports shall be 36" by 36". All other signs mounted on barrier sign supports shall not exceed 12 sq. ft. in total sign area.
  - Low speed highways have a pre-construction posted speed of 40 mph or less. High speed highways have a pre-construction posted speed of 45 mph or higher.
  - Do not locate sign supports in locations designated for bicycle or pedestrian traffic.
  - Combine drawing details to complete temporary traffic control for each work activity.
  - Coordinate and control pedestrian movements through a Temporary Accessible Route using Flaggers, Traffic Control Measures, or as directed.
  - Provide a truck mounted attenuator (TMA) to protect the active work area on high speed divided highways or freeways when positive protection is not available, or as directed.
  - To be accompanied by Dwg. Nos. TM820 & TM821.

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All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>TABLES, ABRUPT EDGE AND PCMS DETAILS</b>			
2024			
DATE	REVISION DESCRIPTION		
07-2022	Added a note for TPARs		
07-2024	Added a note for TMAs		
CALC. BOOK NO.	N/A	SDR DATE	12-JUL-2024
			<b>TM800</b>

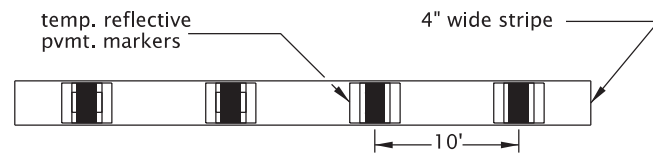




**LAYOUT "A"**  
(Supplemented double solid lines)

TYPICAL APPLICATIONS:

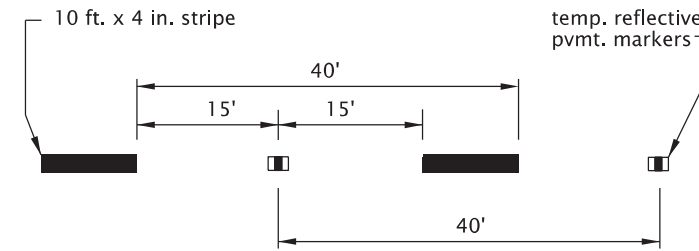
- To prohibit lane changes or passing (include appropriate regulatory signs).
- Freeway or multilane shifts and crossovers.
- For projects in place through winter months.
- Two-lane, two-way centerlines.



**LAYOUT "B"**  
(Supplemented solid line)

TYPICAL APPLICATIONS:

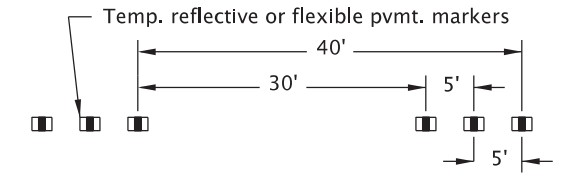
- Alignment shifts or crossovers.
- To discourage lane changes in multilane sections.
- For projects in place through winter months.



**LAYOUT "C"**  
(Supplemented broken lines)

TYPICAL APPLICATIONS:

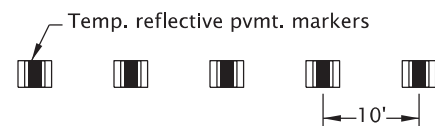
- Freeway and multilane broken lines.
- High ADT 2 lane roads (greater than 10,000).
- For projects in place through winter months.



**LAYOUT "D"**  
(Simulated broken lines)

TYPICAL APPLICATIONS:

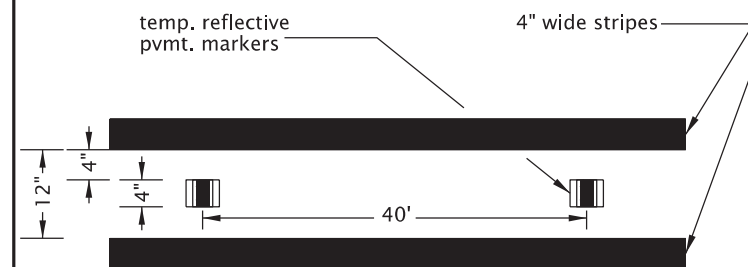
- During staging on finished/existing surfaces.
- HMAC intermediate surfaces.
- Emulsified asphalt surface treatments (chip seals) where permanent pavement markings cannot be placed within two weeks.



**LAYOUT "E"**  
(Simulated Solid Lines)

TYPICAL APPLICATIONS:

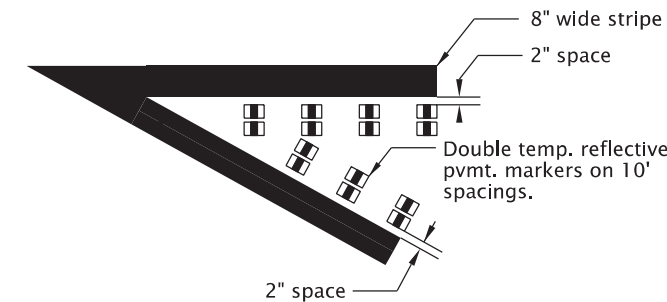
- Alignment shifts or crossovers.
- To discourage lane changes in multilane sections.
- Edge lines for short durations, less than 14 days.



**LAYOUT "F"**  
(Supplemented wide double solid lines)

TYPICAL APPLICATIONS:

- To prohibit lane changes or passing (include appropriate regulatory signs).
- 2 lane, 2 way centerlines.
- 2 lane, 1 way alignments on freeways or multi-lane highways.



**LAYOUT "G"**  
(Supplemented solid 8" line)

TYPICAL APPLICATIONS:

- Gore areas
- Alignment splits (bifurcations)

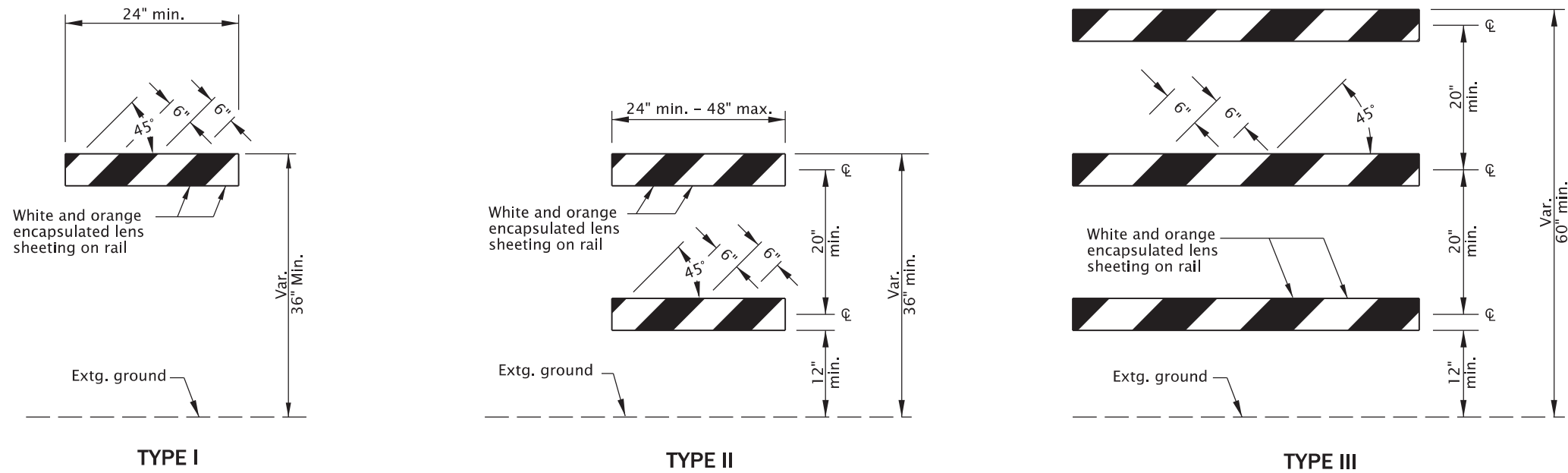
GENERAL NOTES FOR ALL DETAILS:

- When using Supplemented or Simulated lines:
  1. Yellow Bi-Directional Pavement Markers are required for Two-Way Traffic.
  2. White Mono-Directional Pavement Markers are required for one-way traffic or edge lines.
- Supplemented lines are painted lines enhanced with Reflective Pavement Markers.
- Simulated lines are Reflective Pavement Markers placed in a pattern to substitute for a painted line.
- Pavement marking colors shall conform to the MUTCD.

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All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>TEMPORARY PAVEMENT MARKINGS</b>			
2024			
DATE	REVISION DESCRIPTION		
CALC. BOOK NO.	N/A	SDR DATE	01-JUL-2020
			<b>TM810</b>

01-JUL-2020  
TM820.dgn



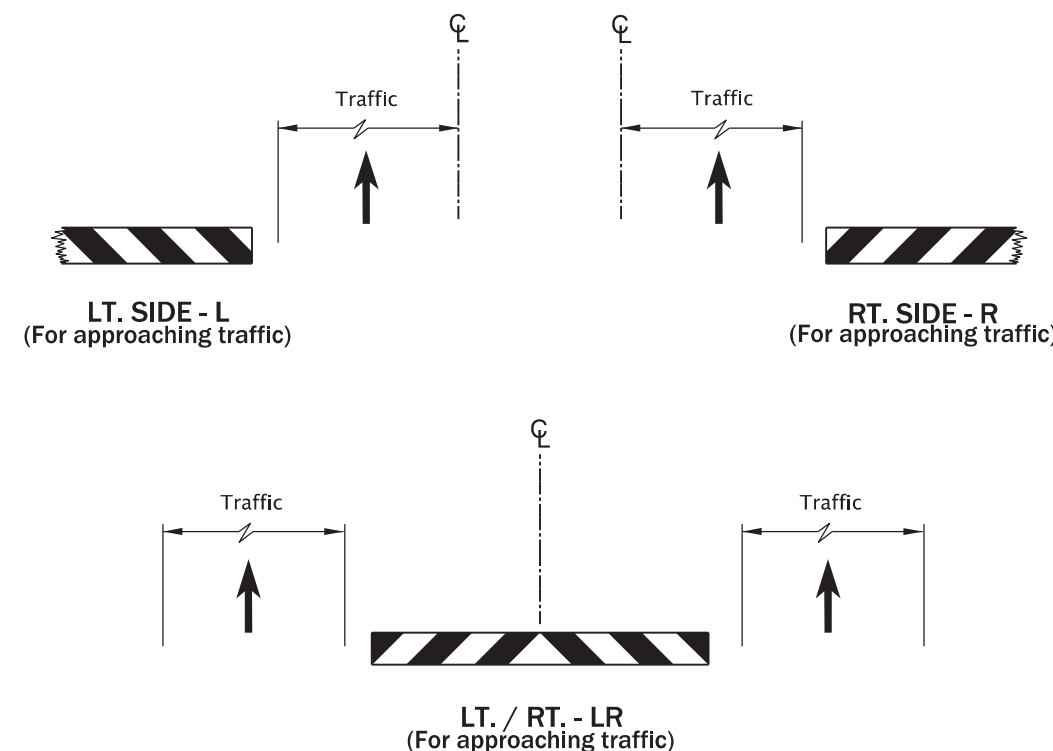
**BARRICADE RAIL LAYOUT**

**GENERAL NOTES FOR ALL DETAILS:**

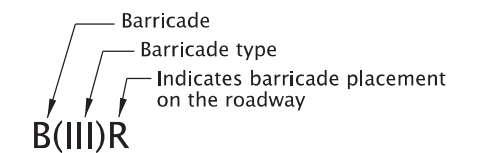
- Sandbags (approximately 25 lb sack filled with sand) may be placed on lower frame to provide additional ballast.
- Ballast shall not extend above bottom rail or be suspended from barricade.
- For rails less than 36" long, 4" wide stripes shall be used.
- Rails must be 8" min. to 12" max. in height.
- Use barricades from ODOT Qualified Products List (QPL).
- Use 4' Type III barricades where horizontal space is limited.
- Do not block bike lanes or shoulders unless the facility is properly closed and signed.
- Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Dwg. No. TM844.

**NOTES:**

- Markings for barricade rails shall slope downward at an angle of 45° in the direction traffic is to pass.
- Where a barricade extends entirely across a roadway, it is desirable that the stripes slope downward in the direction toward which traffic must turn in detouring.
- Where both right and left turns are provided for, slope the chevron striping downward in both directions from the center of the barricade.
- For full roadway closures, the C or LR barricade may be used. Extend barricades completely across roadway unless access is required for local road users.



**DIAGRAM FOR BARRICADE PLACEMENT AND SLOPE MARKING**



**BARRICADE NOTATION**

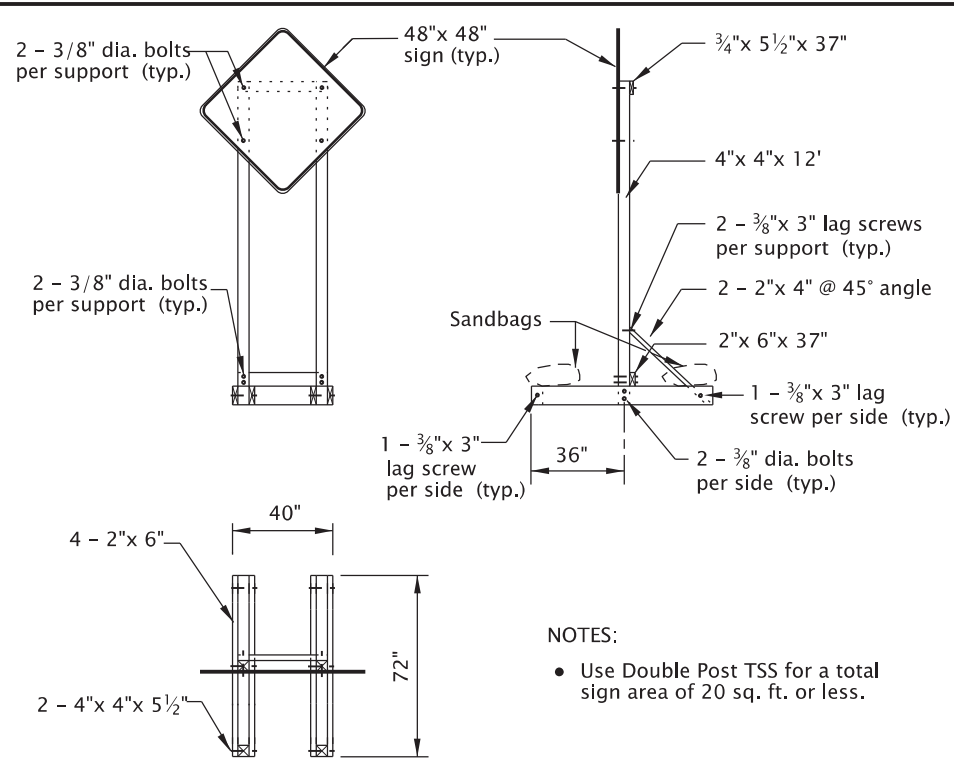
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.*

All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>TEMPORARY BARRICADES</b>			
2024			
DATE	REVISION DESCRIPTION		
CALC. BOOK NO.	N/A	SDR DATE	01-JUL-2020
			<b>TM820</b>



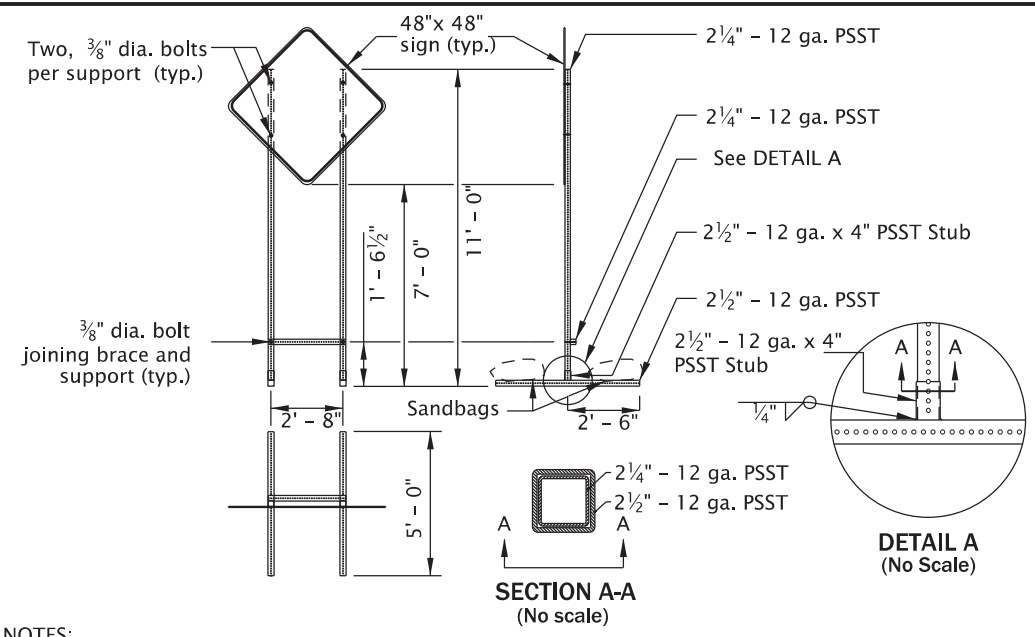
14-JUL-2023

TM821.dgn



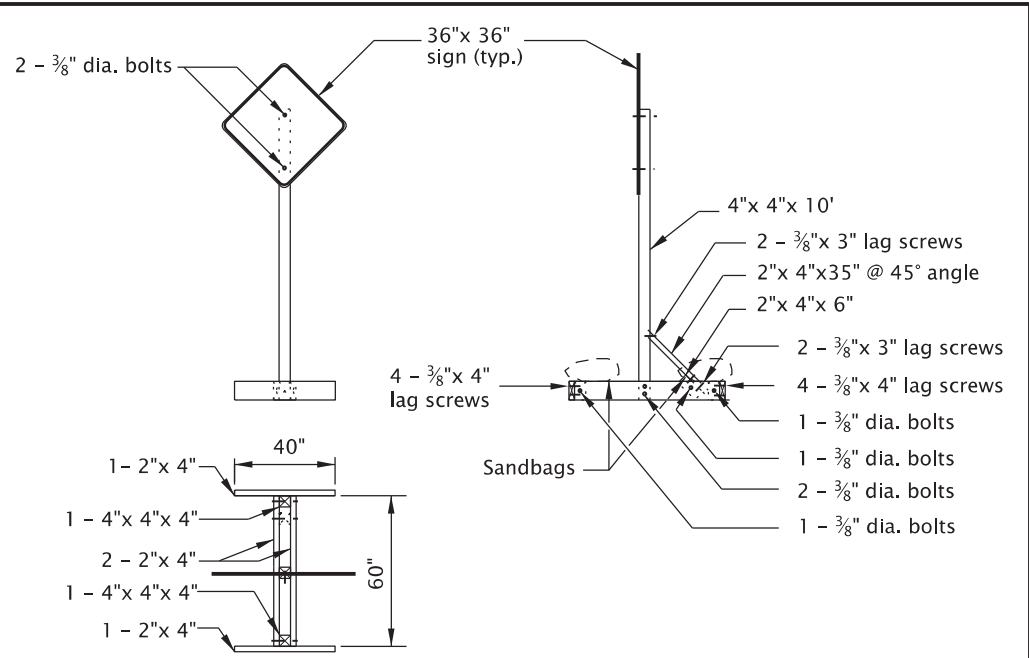
- NOTES:
- Use Double Post TSS for a total sign area of 20 sq. ft. or less.

**DOUBLE POST DETAIL**



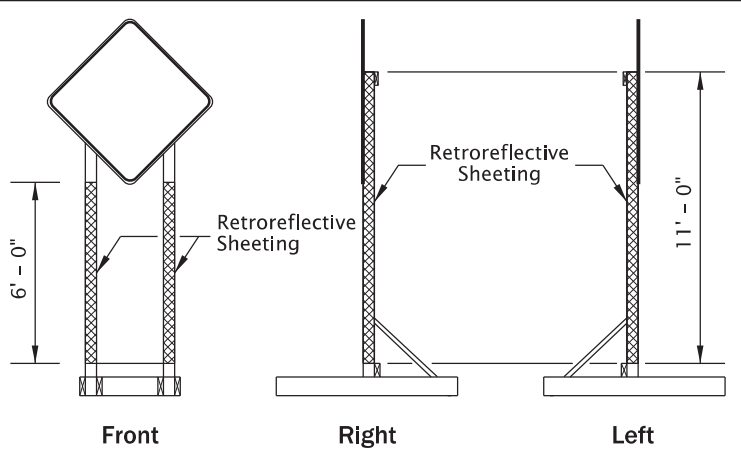
- NOTES:
- Use PSST TSS's for a total sign area of 16 sq. ft. or less.
  - All members shall have a minimum yield stress of 50 ksi.
  - Galvanize steel according to ASTM A653 with coating designation G90. Remove Galvanizing from steel before welding. Repair Galvanizing according to ASTM A780.
  - Use A325 Bolts or equivalent.
  - 2 1/4" - 12 ga. PSST to extend entire length inside of the 2 1/2" - 12 ga. x 4" PSST Stub.
  - Do not use bolt to secure 2 1/4" PSST inside of the 2 1/2" - 12 ga. x 4" PSST Stub.
  - Weld steel according to American Welding Society (AWS) D.1.1.

**PERFORATED STEEL SQUARE TUBE (PSST) DETAIL**

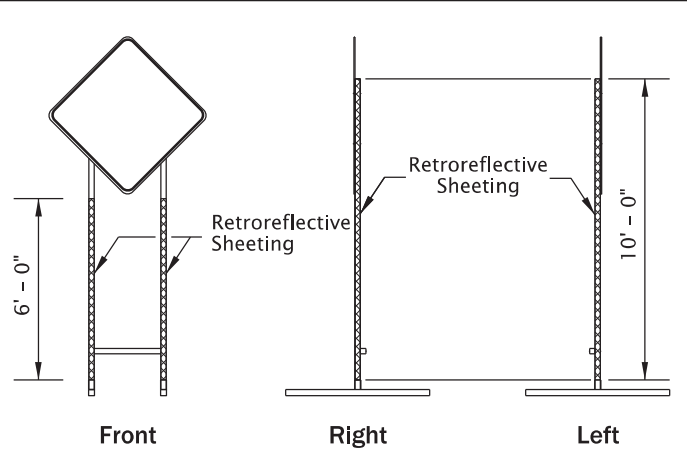


- NOTES:
- Use Single Post TSS for a total sign area of 12 sq. ft. or less.
  - Use Single Post TSS for mounting "Business Access" (CG20-11) signs. Do not mount signs on Type II or III Barricades.

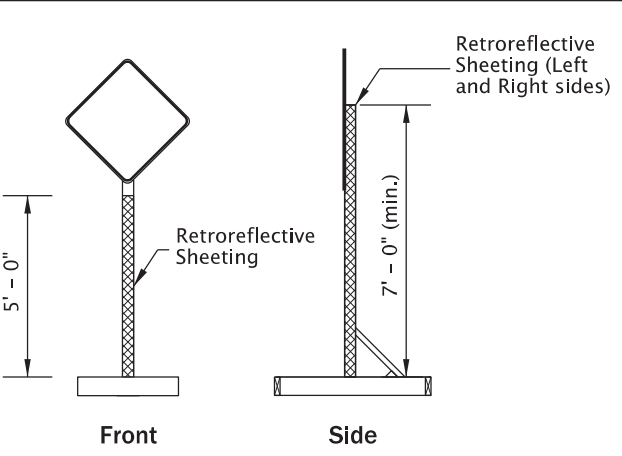
**SINGLE POST DETAIL**



**Double Post**



**Perforated Steel Square Tube (PSST)**



**Single Post**

- NOTES:
- Apply fluorescent orange, ANSI Type VIII or IX retroreflective sheeting to TSS posts, as shown, for all temporary signs, except "STOP" and "DO NOT ENTER". For "STOP" and "DO NOT ENTER" signs, used red ANSI Type III or IV retroreflective sheeting on the TSS posts.
  - Apply sign post retroreflectivity to each TSS post facing front; and to the left and right sides of the TSS, as shown. Use 3" wide sheeting for wood post TSS's. Use 2" wide sheeting for PSST TSS's.
  - Sheeting may be applied directly to post material; or applied to a rigid, lightweight substrate, then securely attached to the posts.

**SIGN POST REFLECTIVE SHEETING PLACEMENT**

- TEMPORARY SIGN SUPPORT GENERAL NOTES:
- Do not tip over TSS at any time.
  - Do not locate TSS's in locations that block pedestrian or bicycle traffic.
  - For wooden TSS's, use either Douglas Fir or Hem Fir, which is surfaced four sides (S4S) and free of heart center (FOHC).
  - See "Temporary Sign Placement" detail on TM822 for sign installation heights.
  - Do not place or stack ballast more than 24" above the ground.
  - When not in use, locate TSS as far from Public Traffic as practicable and turn away from traffic, or cover the sign. Do not cover reflective sheeting on the TSS posts.
  - Place a minimum of 50 lbs of sandbags on each of the four TSS supports legs. (25 lb. max per bag) (min. 100 lbs per side of each TSS).
  - See Dwg. No. TM204 for flag board mounting detail.

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**OREGON STANDARD DRAWINGS**

**TEMPORARY SIGN SUPPORTS**

2024

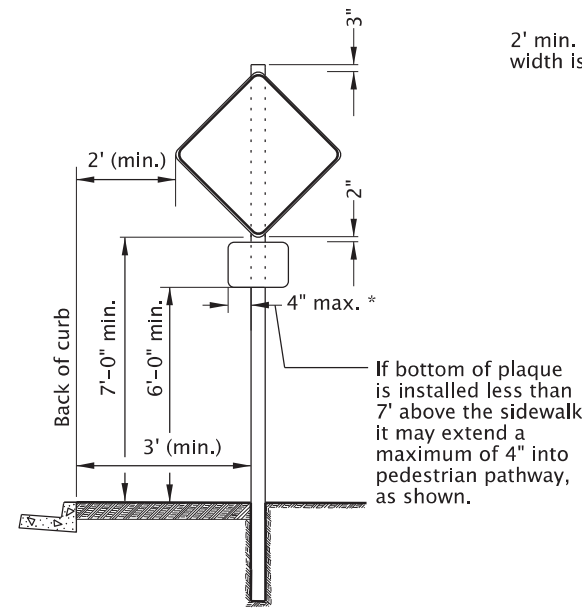
DATE	REVISION	DESCRIPTION

CALC. BOOK NO. - - - N/A - - - SDR DATE - 14-JUL-2023 - **TM821**

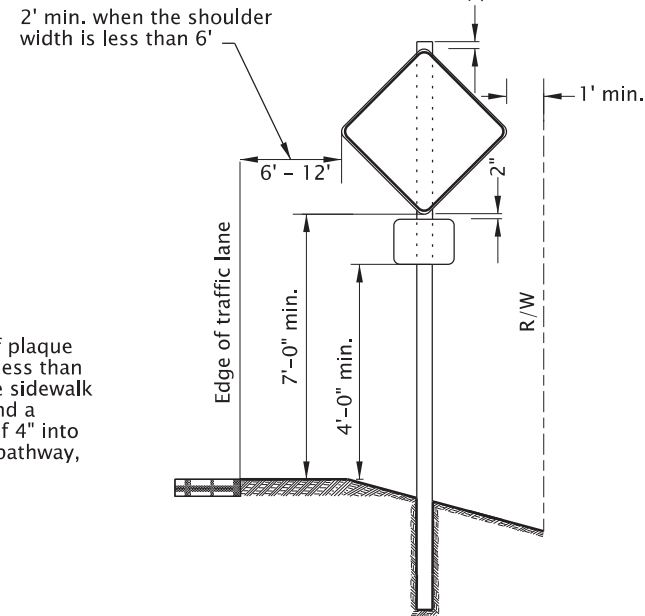
Effective Date: December 1, 2024 – May 31, 2025

NOTES:

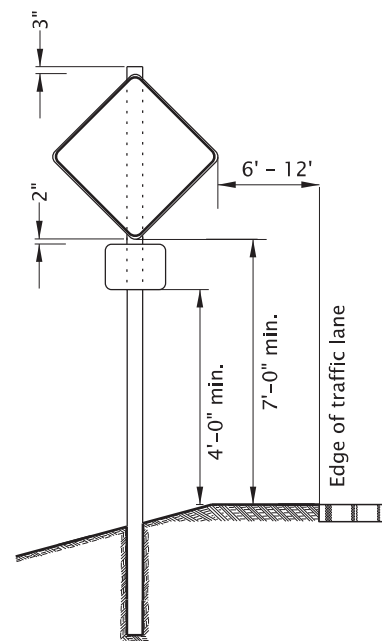
- Do not block bicycle lanes, sidewalks, or TPAR's with sign supports. Maintain minimum widths for these facilities according to TCP Design Manual, MUTCD, ADA, or as directed.
- To be accompanied by Dwg. Nos. TM670, TM671, TM687, TM688 & TM689.



Urban Areas With Curb/Sidewalk

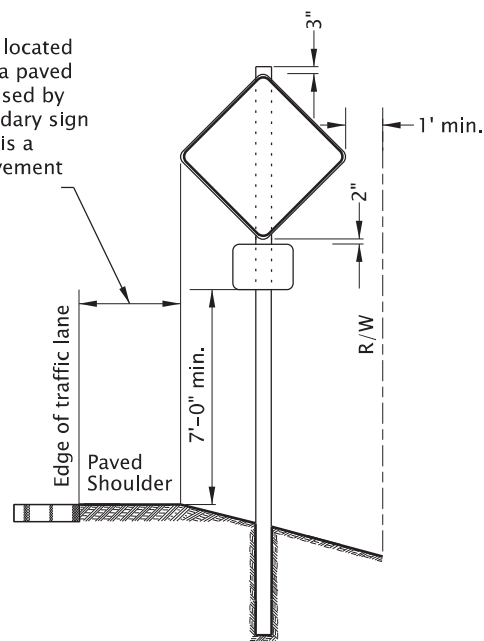


Rural Areas



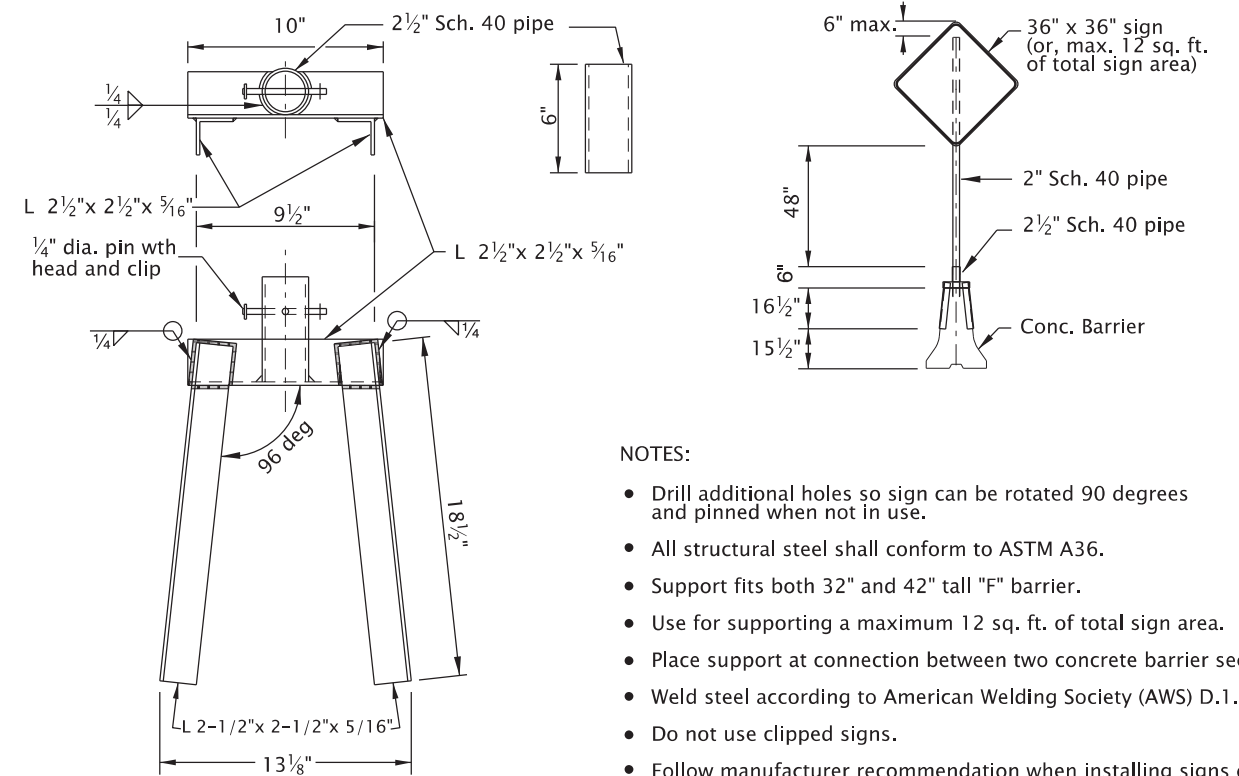
Divided Highway/Freeway Medians  
No Curb/Sidewalk

Where temporary signs are located adjacent to or intrude into a paved shoulder or other surface used by bicycle traffic, install secondary sign (plaque) so bottom of sign is a minimum of 7'-0" above pavement surface, as shown.



Rural or Urban Areas - Curb or No Curb  
Bicycles On Shoulder

TEMPORARY SIGN PLACEMENT



NOTES:

- Drill additional holes so sign can be rotated 90 degrees and pinned when not in use.
- All structural steel shall conform to ASTM A36.
- Support fits both 32" and 42" tall "F" barrier.
- Use for supporting a maximum 12 sq. ft. of total sign area.
- Place support at connection between two concrete barrier sections.
- Weld steel according to American Welding Society (AWS) D.1.1.
- Do not use clipped signs.
- Follow manufacturer recommendation when installing signs on barrier other than concrete.

CONCRETE BARRIER SIGN SUPPORT

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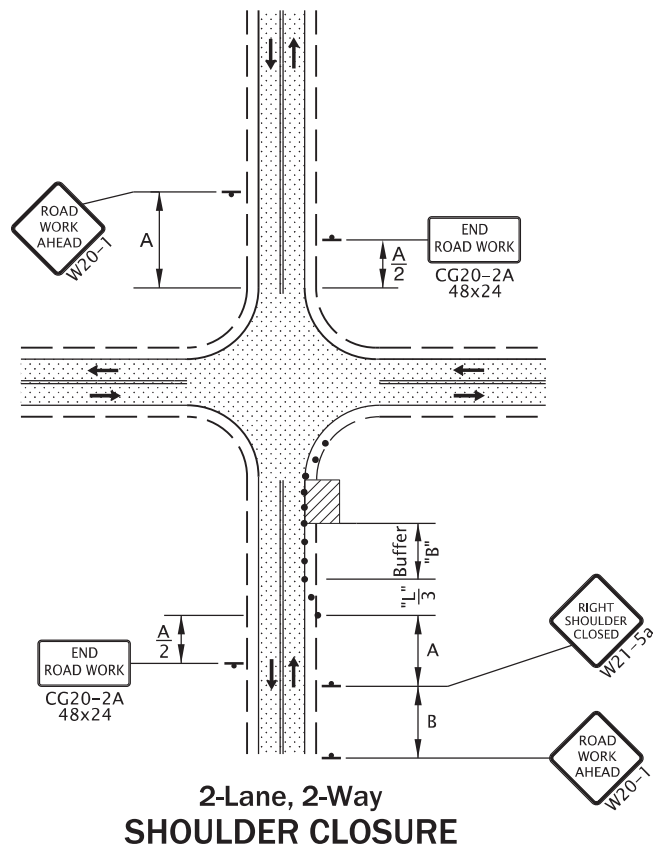
OREGON STANDARD DRAWINGS

TEMPORARY SIGN SUPPORTS

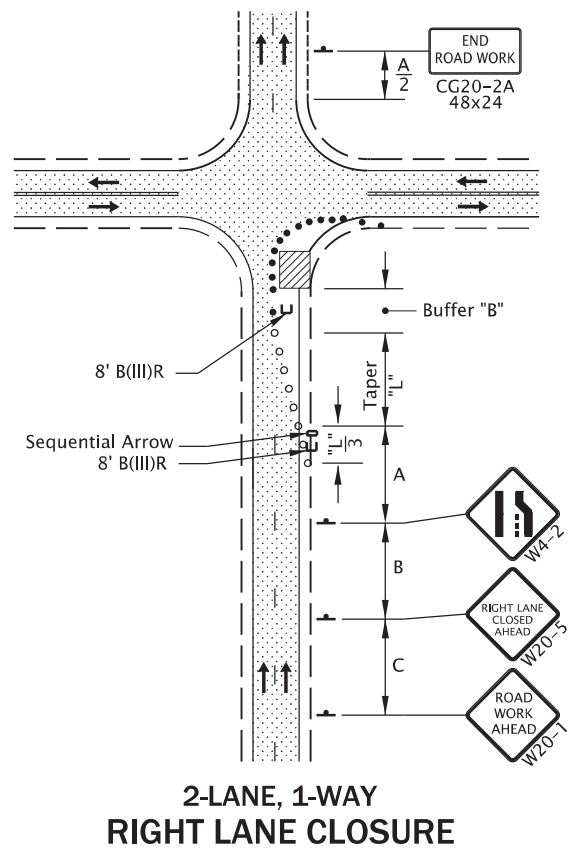
2024

DATE	REVISION	DESCRIPTION

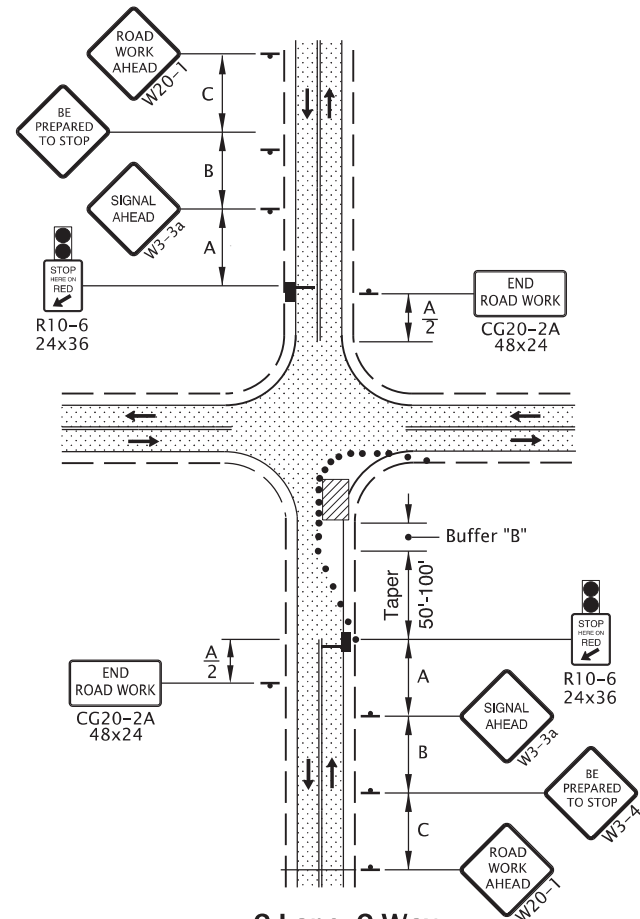
CALC. BOOK NO. - - - -	N/A - - - -	SDR DATE - 01-JUL-2020	TM822
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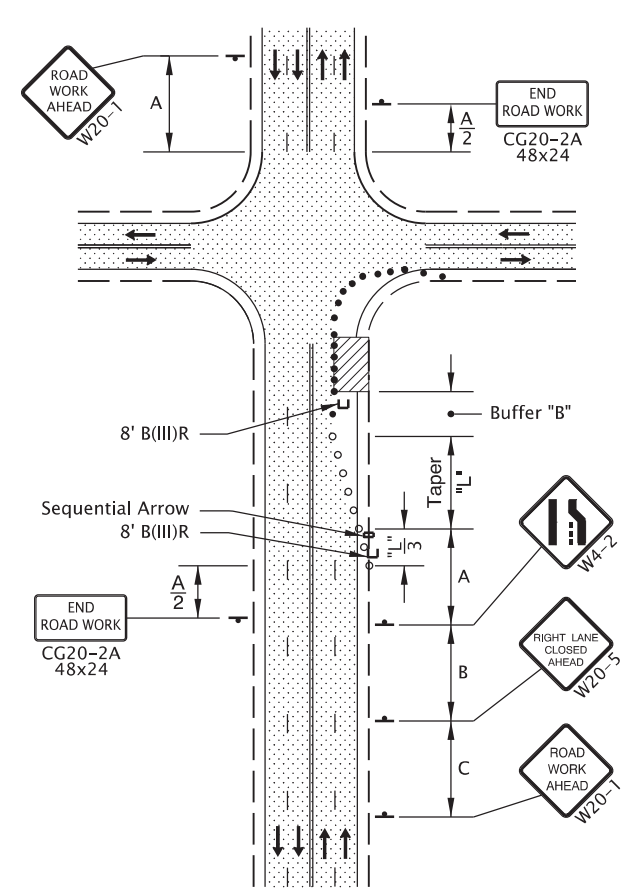
**2-Lane, 2-Way SHOULDER CLOSURE**



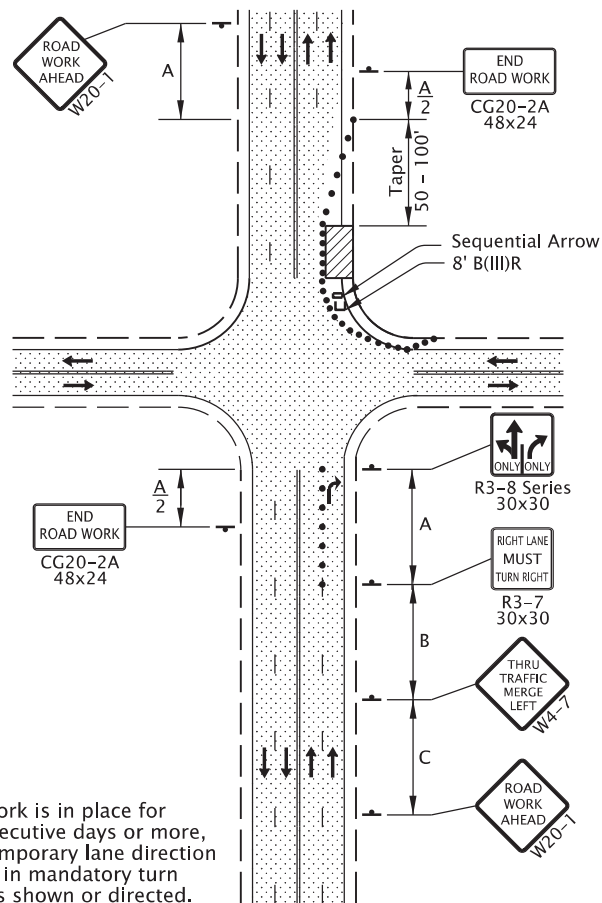
**2-LANE, 1-WAY RIGHT LANE CLOSURE**



**2-Lane, 2-Way ONE LANE CLOSURE**



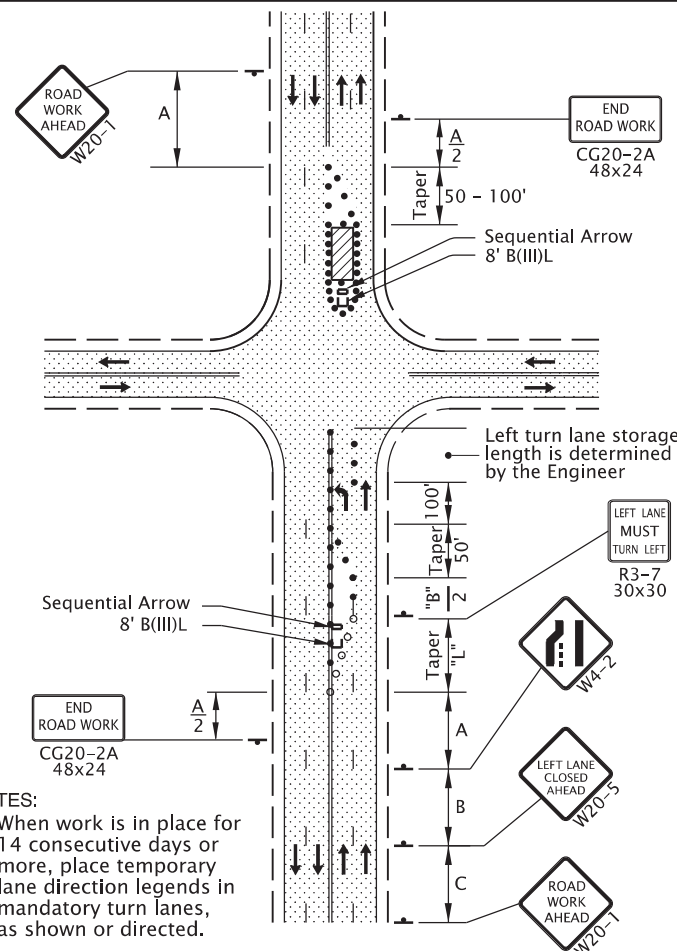
**4-Lane, 2-Way RIGHT LANE CLOSURE, NEAR SIDE**



**4-Lane, 2-Way RIGHT LANE CLOSURE, FAR SIDE**

**NOTES:**

- When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.



**4-Lane, 2-Way LEFT LANE CLOSURE, FAR SIDE**

**NOTES:**

- When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

**GENERAL NOTES FOR ALL DETAILS:**

- Additional Traffic Control Measures (TCM) may be required for all legs of the intersection.
- The "SIGNAL AHEAD" (W3-3a) sign may be substituted with the signal ahead symbol (W3-3) sign.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" on Dwg. TM800.
- For left lane or shoulder work, place TCD to close left lane or shoulder. Use "LEFT LANE CLOSED AHEAD" (W20-5) sign, "LEFT LANE ENDS" (W4-2L) symbol sign, or "LEFT SHOULDER CLOSED" (W21-5a) sign, where applicable.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. TM800.
- When a through road intersects within the work zone, place a "ROAD WORK AHEAD" (W20-1) sign in advance of the intersection at sign spacing A.
- Tubular markers may be used in lane closure tapers where posted speed is 40 mph or less.
- Where shoulder width is limited, Sequential Arrow may be placed within the lane closure taper.
- Place channelizing devices around intersection radii, business accesses and driveways at 10' spacing.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- To be accompanied by Dwg. Nos. TM820, TM821, TM840 & TM854.

- Automated Flagging Assistance Device (AFAD)
- 28" Tubular Markers See TCD Spacing Table on TM800 for max. spacing.
- Temp. Plastic Drums See TCD Spacing Table on TM800 for max. spacing.
- UNDER TRAFFIC
- UNDER CONSTRUCTION

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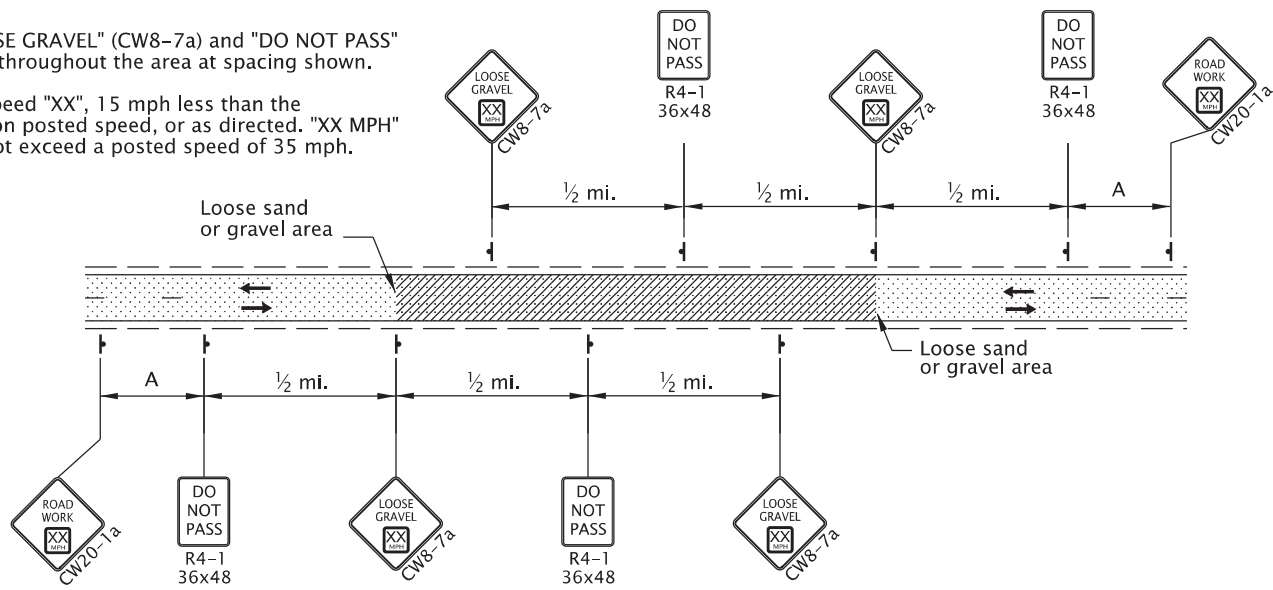
All materials shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>INTERSECTION WORK ZONE DETAILS</b>			
2024			
DATE	REVISION DESCRIPTION		
01-2022	Added AFADs to drawing.		
07-2024	Fixed a typo.		
CALC. BOOK NO.	N/A	SDR DATE	12-JUL-2024
			<b>TM841</b>



01-JUL-2022

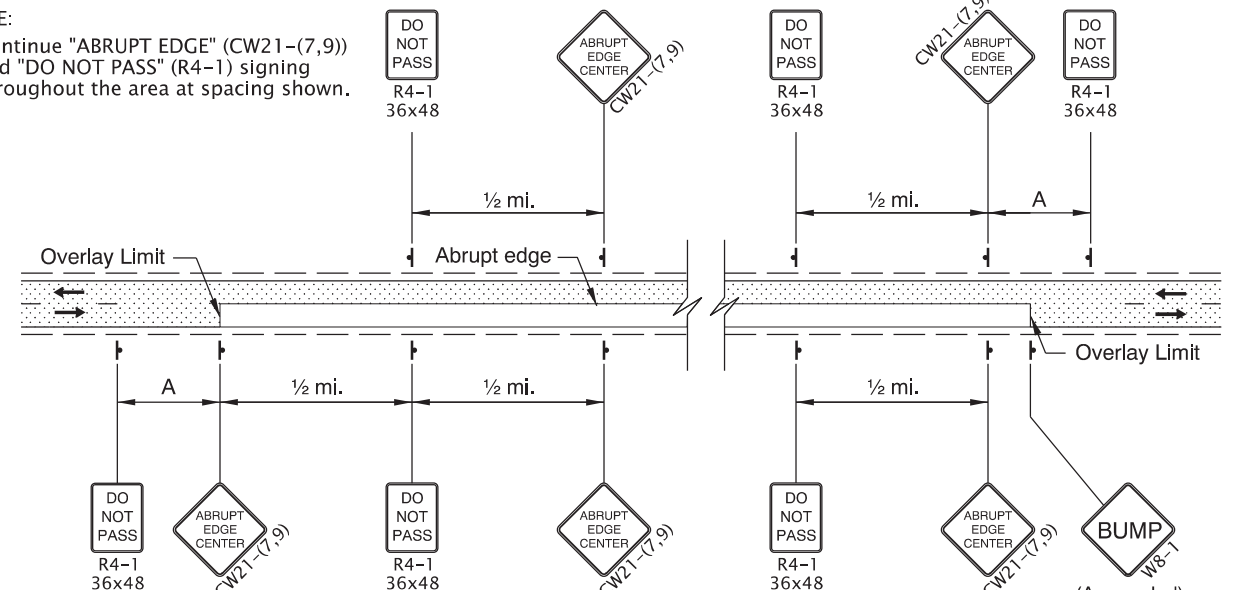
TM850.dgn

- NOTE:
- Continue "LOOSE GRAVEL" (CW8-7a) and "DO NOT PASS" (R4-1) signing throughout the area at spacing shown.
  - Use advisory speed "XX", 15 mph less than the pre-construction posted speed, or as directed. "XX MPH" placard shall not exceed a posted speed of 35 mph.



2-Lane, 2-Way Roadway  
LOOSE GRAVEL IN ROADWAY SIGNING

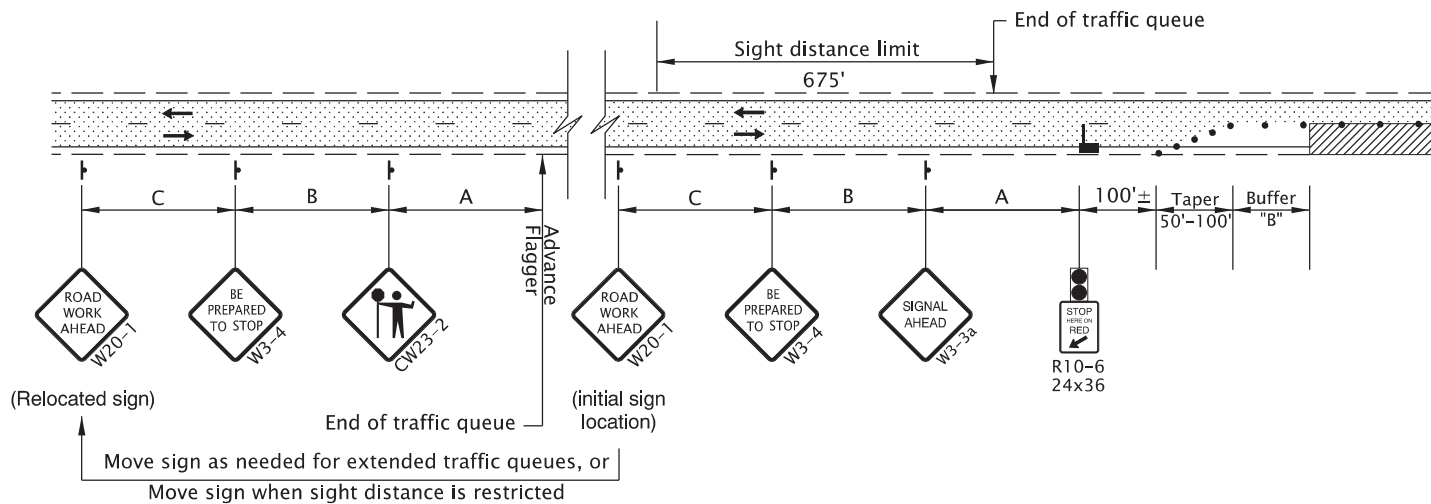
- NOTE:
- Continue "ABRUPT EDGE" (CW21-(7,9)) and "DO NOT PASS" (R4-1) signing throughout the area at spacing shown.



2-Lane, 2-Way Roadway  
OVERLAY AREA SIGNING

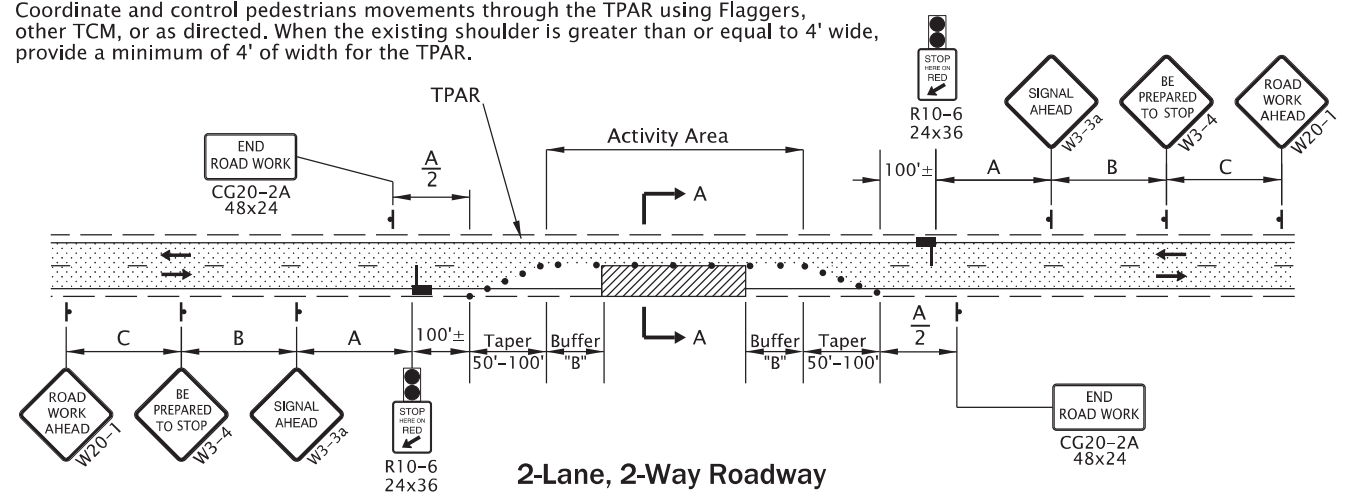
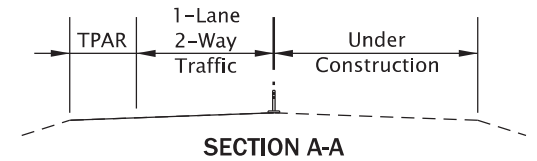
- NOTES:
- Place Advance Flagger and additional signing when traffic queues extend beyond initial warning signing OR when sight distance is restricted.
  - Relocate initial "ROAD WORK AHEAD" (W20-1) sign in advance of additional "BE PREPARED TO STOP" (W3-4) and Flagger Ahead (CW23-2) signs, as shown.

- Place additional Tubular Markers for Flagger and Advance Flagger Stations according to FLAGGER STATION DELINEATION detail.



ADVANCE FLAGGER FOR EXTENDED TRAFFIC QUEUES

- NOTE:
- When using pilot cars with flaggers to control traffic during paving operations, the Tubular Marker spacing along centerline may be increased to 200' within the Activity Area, as shown or as directed.
  - Include "WAIT FOR FLAGGER" (CR4-23) signs mounted on Type II Barricade located approx. 50' before each Flagger.
  - Coordinate and control pedestrians movements through the TPAR using Flaggers, other TCM, or as directed. When the existing shoulder is greater than or equal to 4' wide, provide a minimum of 4' of width for the TPAR.



2-Lane, 2-Way Roadway  
ONE LANE CLOSURE

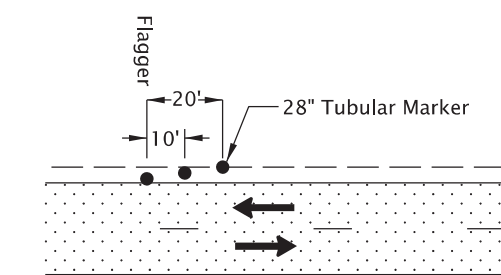
GENERAL NOTES FOR ALL DETAILS:

- The "SIGNAL AHEAD" (W3-3a) sign may be substituted with the Signal Ahead (W3-3) symbol sign.
- Cover existing passing zone signing, as directed.
- Install temporary striping as required.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" shown on Dwg. No. TM800.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. No. TM800.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- At night, flagger stations shall be illuminated according to the FLAGGER STATION LIGHTING DELINEATION detail on Dwg No. TM800.

- To be accompanied by Dwg. Nos. TM820, TM821 & TM854.

- Automated Flagging Assistance Device (AFAD)
  - 28" Tubular Markers on 20' max. spacing for flagger tapers and stations
  - 28" Tubular Markers See TCD Spacing Table on TM800 for max. spacing.
- 

- NOTE:
- Use a minimum of 3 tubular markers in shoulder taper on 10' spacing for flagger station delineation.



FLAGGER STATION DELINEATION

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**OREGON STANDARD DRAWINGS**

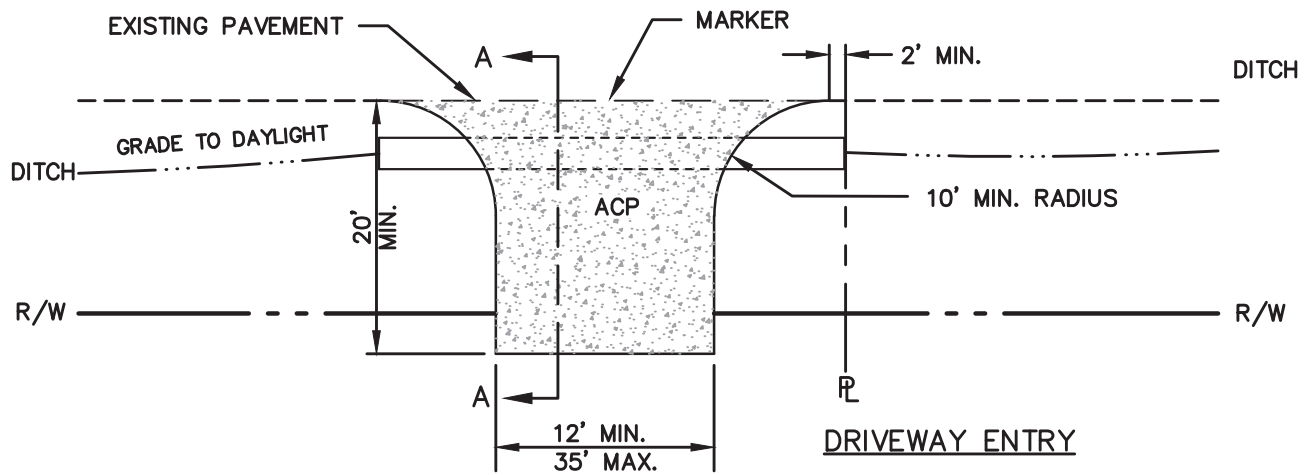
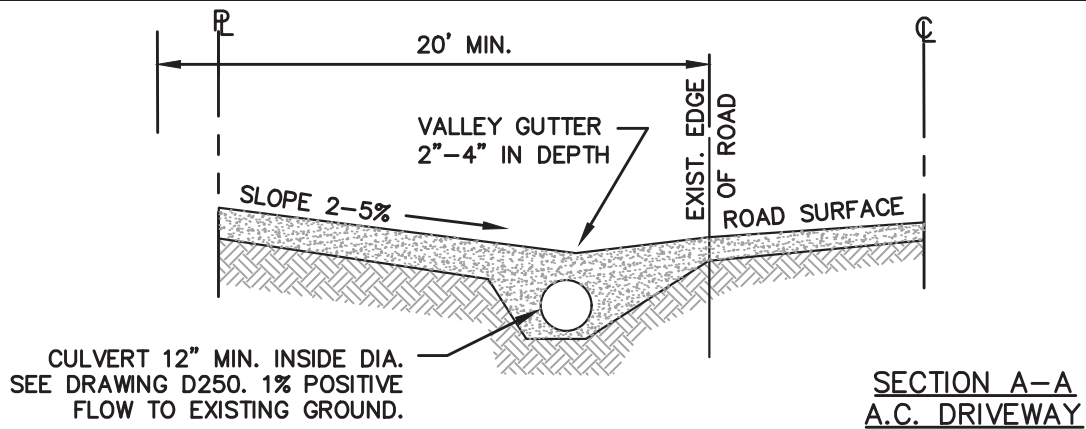
**2-LANE, 2-WAY ROADWAYS**

2024

DATE	REVISION	DESCRIPTION
01-2022	Added AFADs to drawing.	

CALC. BOOK NO. --- N/A --- SDR DATE- 01-JUL-2022 --- **TM850**

Effective Date: December 1, 2024 – May 31, 2025

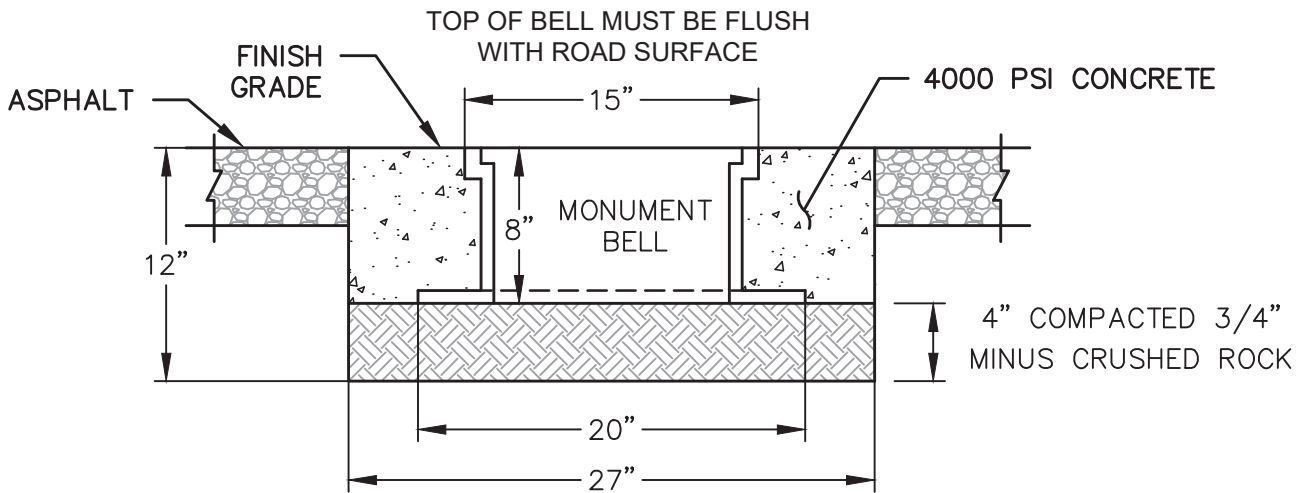
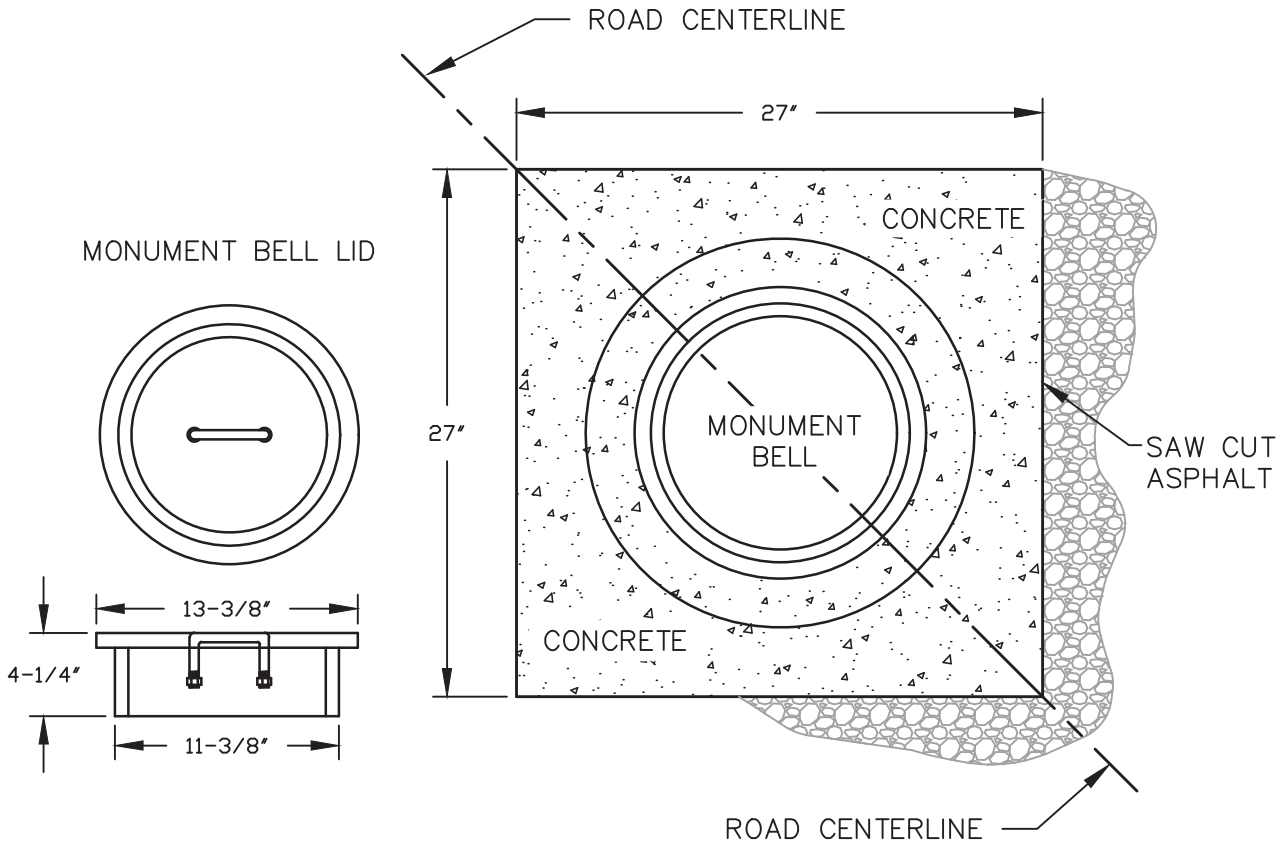


**NOTES**

1. LOCATION AND DIMENSIONS TO BE APPROVED BY THE COUNTY ON A SITE SPECIFIC BASIS. PLACE A MARKER, AS INDICATED, AT THE CENTER OF THE PROPOSED DRIVEWAY FOR INITIAL INSPECTION BY THE COUNTY. NO PORTION OF THE DRIVEWAY MAY BE PLACED ON AN ADJOINING FRONTAGE.
2. SPECIFICATIONS FOR MATERIALS USED IN CONSTRUCTION SHALL CONFORM TO CURRENT ODOT/APWA STANDARD SPECIFICATIONS.
3. AT CORNER LOTS, DRIVEWAY ENTRANCE MUST BE PLACED ON THE SECONDARY ROADWAY IN URBAN AREAS AND ON ROADS WITH MORE THAN 7,500 ADT IN THE RURAL AREA.
4. SEE SECTION 220 FOR ACCESS SPACING BETWEEN DRIVEWAYS, TO AN INTERSECTION AND TO A PROPERTY LINE ALSO FOR MULTIPLE ACCESSES TO ON PROPERTY.
5. MEET SPACING STANDARDS PER SECTION 220.
6. IF A CULVERT IS REQUIRED, INSTALL CULVERT PIPE PER STANDARD DRAWING D250.
7. PROVIDE SIGHT DISTANCE PER SECTION 240.
8. DRIVEWAY SHALL INTERSECT ROAD AT A 90 DEGREE ANGLE.
9. DRIVEWAY APPROACH SHALL MEET STRUCTURAL SECTION PER R100.

REVISION	DATE	BY	DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT	APPROVAL DATE: 6/1/2020	SCALE: N.T.S.	STANDARD DRAWING
REVISED	11/19	AAR	150 BEAVERCREEK ROAD OREGON CITY, OR 97045	STANDARD DRIVEWAY ENTRY ONTO PAVED COUNTY ROADS WITH NO CURBS		D500





NOTE:  
 MONUMENT BOXES TO BE CAST  
 IRON OR ALLOY SUITABLE FOR  
 HEAVY TRAFFIC LOADING. #1036  
 OR #1033 EAST JORDAN IRON  
 WORKS #3680 OR EQUIVILANT.

REVISION	DATE	BY
REVISION	11/19	RM
REVISION	3/20	RM

DEPARTMENT OF TRANSPORTATION  
 AND DEVELOPMENT  
 150 BEAVERCREEK ROAD  
 OREGON CITY, OR 97045



APPROVAL DATE: 6/1/2020

SCALE: N.T.S.

STANDARD  
 DRAWING

**MONUMENT BOX  
 GREATER THAN 35 MPH**

**M150**