Request for Proposals for
West Fork Deadwood Creek Bridge Replacement

Proposals due by May 1st, 2024 at 5:00pm
Mandatory pre-bid site visit April 19th, 2024 at 2:00pm

Submit proposals to caleb@siuslaw.org

Address RFP questions to:
Caleb Mentzer, Siuslaw Watershed Council
541-513-2604, caleb@siuslaw.org

SIUSLAW WATERSHED COUNCIL

1.0 Project Solicitation

The Siuslaw Watershed Council (SWC) is seeking a qualified Contractor to review the attached Bridge Designs, Plans and Specifications and submit a proposal for the implementation of the West Fork Deadwood Creek Bridge Replacement project (Project) on West Fork Deadwood Creek road (Exhibit A). Contractor will be responsible for the removal and disposal of the existing structure (Exhibit B) and installation of one (1) new bridge detailed in Exhibit C, subject to the requirements detailed in "Oregon Standard Specifications for Construction" and the "General Conditions for Construction for Lane County-2021" and the attached "Special Provisions for Construction" (Exhibit D).

2.0 Project Introduction

The objective of the West Fork Deadwood Creek Bridge Replacement project (Project) is to replace the existing 60-foot bridge span at the West Fork Deadwood Creek/ West Fork Deadwood Creek Road road-stream crossing with an 85-foot bridge. The bridge replacement Project is part of a larger floodplain reconnection project that addresses degraded and simplified habitat conditions resulting from stream confinement, simplification, and down-cutting associated with post-settlement land management and resource extraction practices.

The West Fork Deadwood Creek floodplain reconnection project restores full-year floodplain connectivity across the width of the valley-floor by aggrading the channel, lowering the elevation of the adjacent floodplain, installing large wood, and planting native vegetation. These actions establish conditions such as a higher water table, increased floodplain connectivity, and increased floodplain roughness which help to restore natural habitat forming processes. A key component of the project is addressing the impact of a narrow-span bridge that crosses West Fork Deadwood Creek within the project reach and constricts stream flow into a simplified channel.

The bridge replacement Project and larger floodplain reconnection actions are identified in the USFS 2020 Deadwood Creek Landscape Management Plan as high priorities for restoration and are identified as priority projects in the Siuslaw Coho Partnership Focused Investment Partnership work-plan. The replacement of the undersized bridge with a larger span structure that allows for valley-wide floodplain connection enhances aquatic and terrestrial species passage and habitat, natural transport of debris, and restores a more natural hydrologic connection.

Table 1. Preferred Project Timeline

Project Element	Start Date	Estimated Completion Date
Permit and regulatory compliance	January 2024	June 2024
RFP solicitation, site visits and bid review	April 2024	May 2024
Contract negotiation and award	May 2024	May 2024
Project implementation	June 2024	September 2024
Site clean-up and demobilization	September 2024	September 2024

3.0 Request for Proposals

The Siuslaw Watershed Council requests proposal from qualified applicants to implement the West Fork Deadwood Creek Bridge Replacement project. All interested applications must follow the requirements and conditions outlined in Sections 3.1-3.2 of the Request for Proposal. Proposals are due 5/1/204 at 5:00pm. Late submissions will not be accepted.

3.1 Proposal Requirements and Format

Applicants shall submit proposals directly to the Siuslaw Watershed Council (SWC). Proposals must include the following information and adhere to the prescribed format. The SWC will not consider late proposals, incomplete proposals, or those that do not address each project elements. Complete proposals must include the following:

- Cover Letter (3.1.1)
- Relevant Work Experience (3.1.2)
- References (3.1.3)
- Proposed Approach to Project Scope of Work and Timeline (3.1.4)
- Fee Proposal (3.1.5)
- Insurance and Licenses (3.1.6)

3.1.1 Cover Letter

Include a one- to two-page cover letter that expresses interest to bid on the project and commitment to the obligations described in the RFP. Identify the name of the company, the name of the primary contact, title, office and cell phone number, and email address. Provide information regarding the company size, experience in the region, and area of expertise. An individual with contracting authority is required to sign the letter.

3.1.2 Relevant Work Experience

Provide a clear and concise summary describing up to three projects with relevant bridge replacement work experience. Summaries should include the name of respective projects, year(s) of operation, location, partners, and a description of the Contractors role. Applicants may include website links to relevant work experience and specific projects as they see fit.

3.1.3 References

Please provide contact information for up to three references who can speak to similar type of work as described with this RFP (bridge construction). Provide reference name, affiliation, title, email address, phone numbers and name and dates of the relevant project(s).

3.1.4 Proposed Approach to Project Scope of Work

Provide a narrative describing how the applicant plants to approach the Project and complete the work. The narrative should provide enough detail to demonstrate an understanding of the scope of complexities of the Project. Describe the methods and approach the applicant proposes to complete each Project element, including a general description of tasks, materials or other elements that factor into mobilization cost.

In addition to a written narrative describing the proposal approach, the proposal must include the following.

- The Project timeline the applicant will seek to follow
- A list of key personal, including their title and a brief description of their role and experience. Identify the applicant's project supervisor.
- If a subcontractor will be used for any portion of the work, include their name and relevant experience. Documentation of formal agreements will be required prior to contracting.

3.1.6 Fee Proposal

Identify the total proposal fee and subtotals for each of the Project elements outlined in the Plan Set and Special Provisions in Exhibit C and Exhibit D using the bid sheets provided in Exhibit E.

3.1.7 Insurance and Licenses

Provide proof of insurance and applicable licenses as outlined in Section 7.5.

3.2 Proposal Submission Requirements

All applicants are required to complete a pre-bid consultation with the Siuslaw Watershed Council (SWC) and United States Forest Service. The partners will host a pre-bid site visit consultation visit at West Fork Deadwood Creek on April 19th, 2024. The SWC will not consider proposals from applications that have not completed a pre-bid consultation.

Applicants should direct questions regarding this RFP to Caleb Mentzer at the SWC (caleb@siuslaw.org). Please note that the SWC will share relevant applicant questions and responses with all applicants who have requested a pre-bid consultation to provide all interested parties with consistent information regarding the Project.

Interested Contractors should present the SWC with electron proposals (Word or PDF format) by 5:00pm on May 1st, 2024. Completed proposals should be sent to Caleb Mentzer at caleb@siuslaw.org. Proposals received after the deadline will not be accepted.

The Proposal timeline is as follows:

- RFP Release: April 10th, 2024
- Mandatory pre-bid site visit: April 19th, 2024
- Bid proposal due date: May 1st, 2024

3.3 Evaluation of Proposals

An evaluation committee, including representatives from SWC and USFS with relevant project management experience, will evaluate proposals. Committee members will evaluate each proposal in accordance with the criteria listed below in Table 2. The evaluation committee may seek outside expertise, including Lane County Public Works technical advisors, to assist in the evaluation process.

Table 2. Proposal Evaluation

Evaluation Criteria	Maximum Score
Project Approach	35
Qualifications of the Applicant	35
Key Staff to be Involved	10
Cost Estimate	20

Total	100

3.4 Reservation of Rights

The SWC reserves the right to award any applicant whose proposal, in the opinion of the SWC, is in the best interest of the Project. The SWC may cancel this RFP process at any time upon finding that it is in the best interest of the SWC to do so

3.5 Post-Selection Negotiation

After the SWC selects a preferred proposal, the SWC expects to negotiate the details of the prescribed work with the successful applicant. The applicants proposal, needed services as documented in the RFP; appropriate pricing of selected tasks will form the basis of the negotiations. If negotiations fail for any reason, including price, the SWC may choose to cease negotiations and move on with an alternate applicant to obtain an appropriate contract for needed services.

4.0 Project Elements

The project is described within the West Fork Deadwood Creek Plan Set (Exhibit C). Proposals shall adhere to all design elements described with the Plan Set. Special Provisions for the West Fork Deadwood Creek Bridge, including Terms, Format and Definitions are included as Exhibit D.

5.0 Contractor Supervisor and Furnished Items

5.1 Contractor Supervisor Requirements

The successful applicant must provide an on-site supervisor to be physically present throughout the Project implementation. The supervisor will serve as the point of contact for Project Managers and will be responsible for daily check-ins and meetings upon request. The on-site supervisor must be identified within the proposal.

5.2 Contractor Furnished Items

The Contractor will provide all equipment, repair parts, and materials/supplies to perform Contract work according to the Plan Set (Exhibit C) and Special Provisions (Exhibit D)

5.2.1 Contractor Furnished Equipment and Supplies

Equipment includes, but is not limited to:

- Heavy equipment required to complete the Project
- Petroleum, oils and lubricants
- Hand tools
- Equipment repair kits
- Safety equipment
- Spill containment kit for each piece of equipment
- Fire extinguishing tools and tanker equipment for each piece of heavy equipment.

5.2.2 Contractor Furnished Permits and Plans

The Contractor is required to obtain necessary permits for transporting heavy equipment to the Project site (eg, ODOT permits). Contractor should confirm any bridge load restrictions on the travel route to the Project site and plan accordingly.

6.0 Additional Project Design Features

All actions shall adhere to identified design features including the following specifications:

- The Contractor must clean al equipment used off the road prior to starting work. Project managers shall inspect all off-road equipment prior to arrival at the project site.
- The Contractor shall use existing landings, temporary haul road, and old primary skid roads as much as possible prior to disturbing new areas.
- All temporary roads or skid trails shall be hydrologically stable if not used during periods of wet weather as determined by Project Managers.
- The Contractor shall de-compact all landings, temporary haul roads, and skid trails to a depth of 18-24 inches at completion of project activities.
- All areas of disturbed soil shall be covered with certified weed-free straw to inhibit erosion.
- Construction or maintenance of roads will not occur when soil is saturated, or when run-off occurs
- Hauling on native surface roads may be restricted when soils are saturated, or run-off occurs
- The Contractor shall maintain all haul roads in stable condition. Project Managers will monitor wet weather hauling and may suspend operations if deemed necessary.
- Ground-based equipment used for yarding, processing or other project activities will occur only when soil is relatively dry where water is not pooling.
- The Contractor shall leave existing downed wood habitat in place, except in cases where it is an operation hazard.
- If cultural resources are identified during project implementation (inadvertent discovery) all work would cease immediately in that area until the situation is reviewed by an archaeologist, and an assessment and mitigation plan is instituted.

7.0 Additional Requirements and Conditions

7.1 Permits

The Contractor will be required to apply for and receive permits for transporting heavy equipment to the project site. The remainder of the permits will be sought by the SWC and USFS and will be given to the Contractor prior to the start of the Project.

7.2 Spill Prevention, Control and Countermeasure

The Contractor will adhere to all applicable Federal, State, and local environmental protection laws and regulations. Any maintenance work, equipment repairs, and refueling of equipment will be completed at fueling stations located in the equipment staging site or existing roads. Equipment furnished will be free from and leakage of petroleum products. Excessive leakage will be a basis for issuing immediate shutdown of operations. Equipment will be inspected daily for fluid leaks before leaving the staging area for operation.

7.3 Fire Precautions

The Contractor will adhere to all Federal, State and local fire prevention laws. Fire restrictions may result in limited hours of equipment operations at the worksite including the use of gasoline vehicles and power tools. The Contractor is responsible for providing any equipment required by the Oregon Department of Forestry. Smoking or flaming materials are not allowed on the Project site or nearby areas with significant fuel loads during fire season.

7.4 Environmental Safety

Successful applicant will follow OSHA guidelines for wildfire smoke, air quality, and heat safety.

7.5 Insurance Requirements

The Contractor will maintain the minimum of the insurance coverage below and provide the SWC with certification prior to initiation of work.

- The Contractor, it's sub-Contractors, and all employers working under this Contract are subject employers under the Oregon Worker's Compensation Law and shall comply with ORS 656.017 which requires them to provide workers compensation coverage for all their subject workers, applicable in connection with the death, disability or injury of Contractor's officers, agents, servants or employees arising directly or indirectly out of the performance of this Contract, or shall provide documentation to SWC establishing to their satisfaction that the Contractor is exempt from Worker's Compensation coverage pursuant to ORS Chapter 656. Each policy required by this section shall be endorsed to provide a waiver of subrogation in favor of the SWC. The additional insured endorsement must include products and completed operations; ISO cg 20 10 or its equivalent and ISO cg 20 37 or its equivalent.
- Commercial General Liability Insurance in the amount of $2,000,000 per occurrence and $4,000,000 in aggregate. In addition, insurance policies shall include $5,000 of medical expenses for employees. Each policy required by this section shall be endorsed to include SWC as well as their divisions, directors, officers and employees as additionally insured and provide a waiver of subrogation in favor of SWC.
- Automobile Liability Insurance with a single combined limit of not less than $1,000,000 each occurrence for injury to or death of persons and damage to or loss or destruction of property and not less than $2,000,000 aggregate. Each policy required by this section shall be endorsed to include SWC as well as their divisions, directors, officers and employees as additionally insured and shall include a "severability of interests" provision. Each policy required by this section shall be endorsed to provide a waiver of subrogation in favor of SWC.

7.6 Performance Bond

To comply with the Chapter 279C.380 of the ORS, the Contractor (identified as "Principal" in the bond forms below) will provide a performance bond, in a sum equal to the full Contract price. The state that the Surety is incorporated will be inserted in the field preceding "corporation, authorized to transact business in Oregon…" After "Whereas, the Principal has agreed to perform that Contract as summarized below", the title of the Project will be inserted. An Attorney-in-Fact, having power of attorney to sign for the Surety Company, whose authority and documentation shall be attached and incorporated by reference, must sign the performance and payment bonds. The Surety's seal must be affixed to each bond. Power of Attorney for the Attorney-in-Fact must able be attached to each bond. The original bond documents must be supplied to the Owner prior to final execution of the Contract and commencement

of work. The Contractor will promptly notify the Surety Company of any changes to the Contract that impact time allowed for completion and/or increase the total compensation of the Contract.

7.7 Prevailing Wage

The Project is subject to State of Oregon Prevailing Wage Rate Law and must comply with all aspects of the law and reporting requirements. The Contractor employing workers on a public works project must pay to such workers no less than the applicable prevailing rate of wage for each trade or occupation, as determined by the commissioner, in which the workers are employed. Additionally, all wages due and owing to the workers shall be paid on the regular payday established and maintained under ORS 652.120; OAR 839-025-0035(1). Public works includes but is not limited to "Roads, highways, buildings, structures and improvements of all types, the construction, reconstruction or major renovation of which is carried on or contracted for by any public agency to serve the public interest" OAR 839-0250004(20).

For more information, Prevailing Wage Laws and requirements including certified payroll consult: https://www.oregon.gov/boli/whd/pwr/pages/w_pwr_pwrbk.aspx or BOLI at 971-673-0761

7.8 Indemnification

The Contractor shall indemnify, defend, save and hold harmless the Indemnified Parties (defined below) from and against any and all liability, demands, claims, losses, costs (including but not limited to attorney's fees and, in the case of item (b) below, royalty payments) and expenses arising from or in connection with:

- Claims for personal injury (including death) and/or property loss or damage to whomsoever or whatsoever occurring or arising in any manner out of or in connection with: the Work, this Contract, or any act or omission of the Contractor, its directors, officers, agents or employees, or the presence of the Contractor, its directors, its officers, agents or employees upon or about the property, premises of right-of-way of the USFS or Lane County Public Works, whether or not negligence on the part of any Indemnified Party may have caused or contributed to such injury, death, loss or damage; provided, however, that if, under the law applicable to enforcement of this Contract, an agreement to indemnify against the indemnitee's own negligence is invalid, then in that event the Contractor's obligation to indemnify the Council under this section shall be reduced in proportion to the negligence on the Council, if any, proximately contributed to such injury, death, loss or damage.
- Any claim on infringement of patent rights arising from the use of any of the articles, materials, equipment or designs furnished in connection with the Work or named in the Contract; and an claims, fines, penalties, or other charge or loss arising from any alleged violation of any statue, code, or ordinance or regulation of the United States or any state, county, or municipal government that results in whole or in part, directly or indirectly, from the activities of the Contractor's officers, agents, employees' or sub-contractors related in any way to this Contract, or from any act or omission of the Contractor, its officers, agents, employees, or sub-contractors contributing to such violation, regardless of whether such activities, acts or omissions are intentional or negligent, and regardless of any specification by the Council without actual knowledge that it might violate any such statue, code, ordinance or regulation (these laws, ordinances and regulations, include, without limitation, all laws, ordinances and regulations relating to air, water, noise, solid waste and other forms of environmental protection, contamination or pollution, as well as all laws. Ordinances, and regulations relating to discrimination on the basis of disability).

As used in this RFP, the terms “Indemnified Parties” and Indemnified Party” shall mean and include, collectively and singularly, (i) The Siuslaw Watershed Council, Inc. (hereinafter SWC), (ii) any direct or indirect subsidiary SWC (iii) any officer, director, Commissioner, employee, shareholder or agent of the USFS or any of their direct or indirect subsidiaries, (iv) any officer, director, Commissioner, employee, shareholder or agent of the SWC or of any of their direct or indirect subsidiaries.

7.9 Build America, Buy America

The PROJECT is subject to the Infrastructure Investment and Jobs Act(“IIJA”), Pub.L. No. 117-58, which includes the Build American, Buy American (BABA) Act, Pub. L. No. 117-58, §§ 70901-52 and OMB M-22-11, recipients of an award of Federal financial assistance from the Department of Commerce (DOC) are hereby notified that none of the funds provided under this award may be used for a project for infrastructure unless:

1. All iron and steel used in the project are produced in the United States–this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States;
2. All manufactured products used in the project are produced in the United States—this means the manufactured product was manufactured in the United States; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and
3. All construction materials are manufactured in the United States—this means that all manufacturing processes for the construction material occurred in the United States.

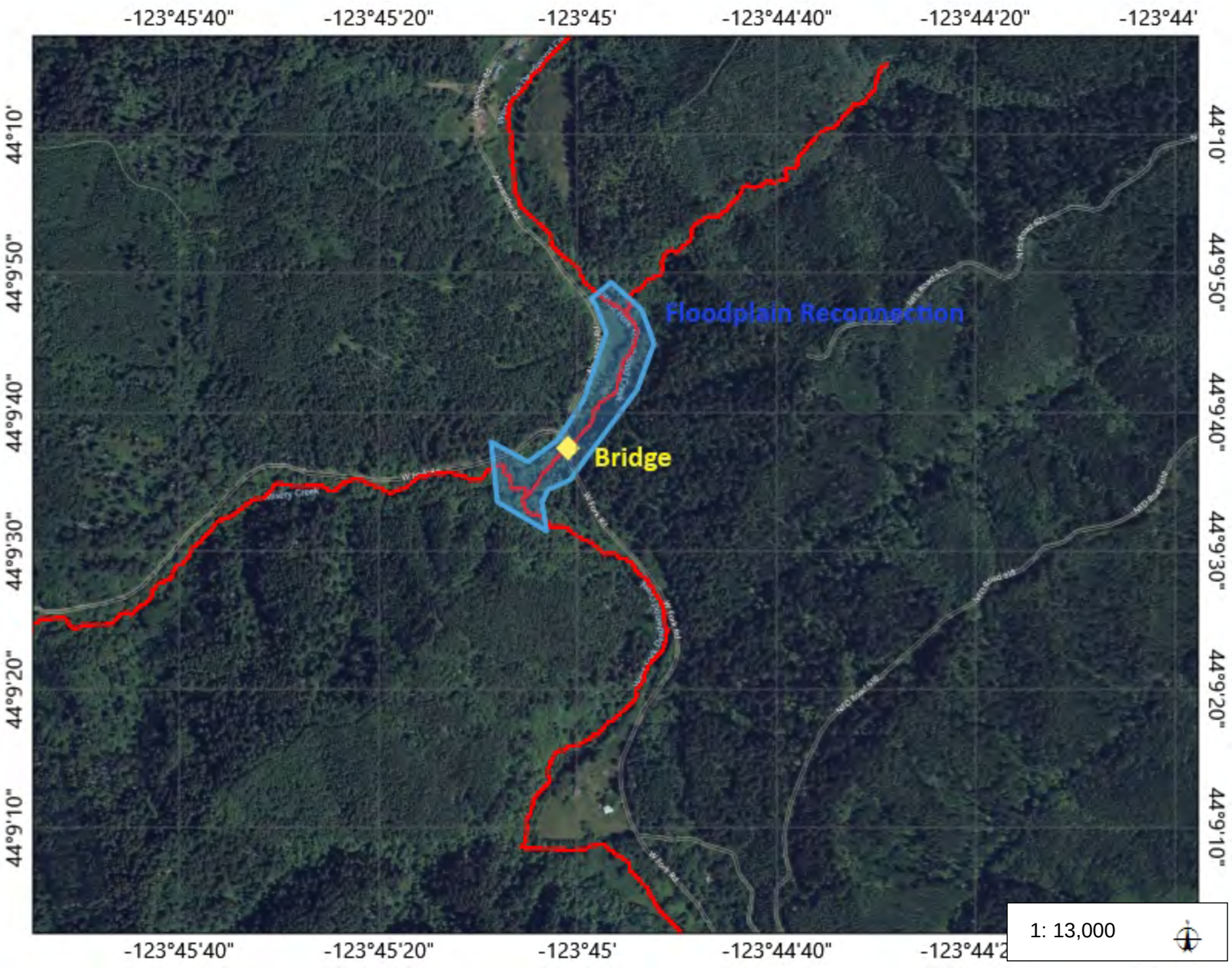
The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project. Further information on the NIST/MEP supplier scouting services is available at: https://www.nist.gov/mep/supplier-scouting .

7.10 Payments

The Contractor may invoice the SWC for the agreed upon bid amount upon the completion and acceptance by SWC Project Manager, or appointed representative, of major tasks involved with the Scope of Work and Bid sheet (Exhibit E). Final payment will not be made until the Project has been completed and accepted by the Project CO. Advance payments will not be made under this Contract unless agreed upon by both parties and stated clearly in writing. The total amount charged for this Project will not exceed available funding for the project. All invoices must be submitted no later than December 1st, 2024. Payments will be made within 45 business days on the invoice receipt from the Contractor, pending SWC receipt of payment from funder. This agreement constitutes a subcontract whereby payment to Contractor may be contingent upon reimbursement on invoiced amount from funder.

Exhibit A: Site map

West Fork Deadwood Creek/ Misery Creek Floodplain Reconnection



Legend

- County Boundaries (2015)
- Coho
  - Historical
  - Migration
  - Rearing
  - Spawning
  - Unknown
- Dark Gray Canvas Reference
- Dark Gray Canvas Base

Notes

1) Replace bridge over West Fork Creek 2) Regrade valley floor and plant native plants to restore year-round floodplain connectivity

0.4 0 0.21 0.4 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output for reference only from: Oregon Explorer Map Viewer

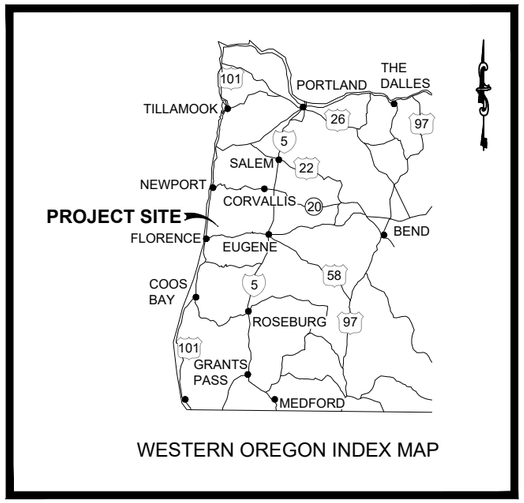
Data layers that appear on this map may or may not be accurate, current, or reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Exhibit B: Photos of existing bridge for removal at project site

Downstream of bridge looking upstream (2/27/2024)

Upstream of bridge looking downstream (2/27/2024)



WESTERN OREGON INDEX MAP

PROJECT LOCATION

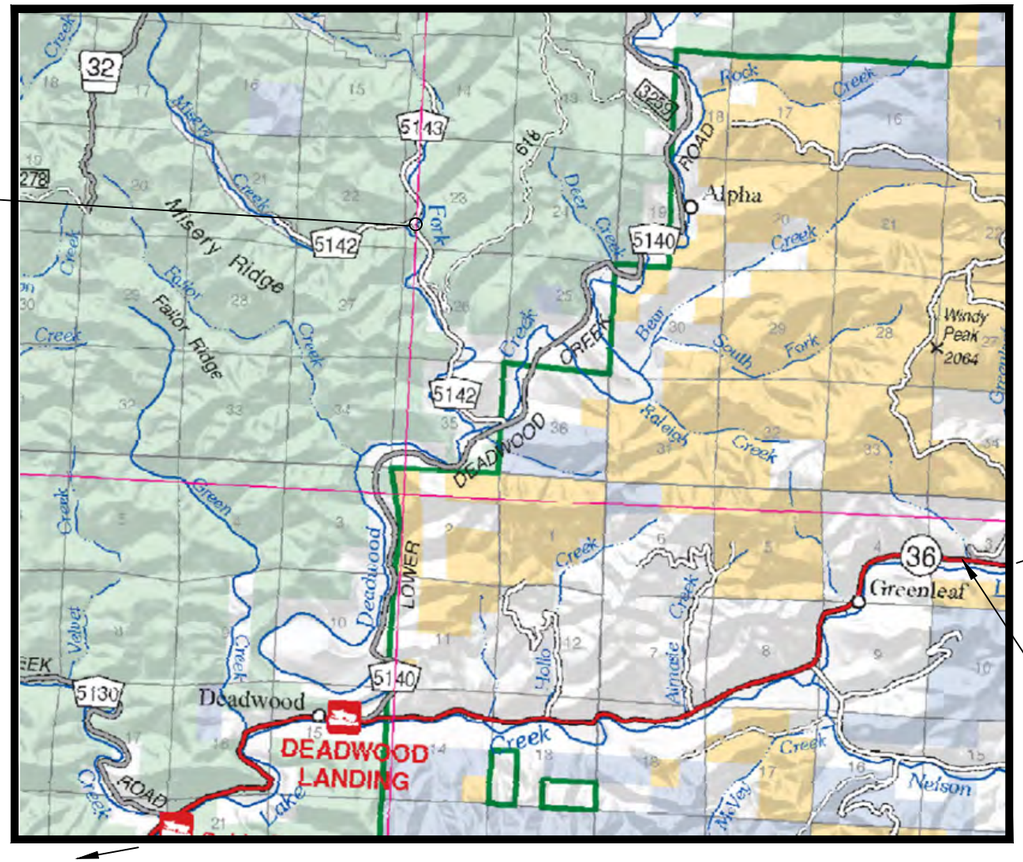
LANE COUNTY, OREGON

PLANS FOR

WEST FORK DEADWOOD CREEK BRIDGE

LOCATION T16S R09W SEC23
LAT: 44.160372° LONG: -123.750287°

PROJECT SITE
COUNTY ROAD 5142, M.P. 2.4
(T16S, R09E, SEC 23)
(LAT. 44.160372°, LONG. -123.750287°)



TO JUNCTION CITY, OR:
APPROX. 35 MILES

HWY 36

TO MAPLETON, OR:
APPROX. 12 MILES

VICINITY MAP

TRAVEL DIRECTIONS:

FROM MAPLETON, OREGON TRAVEL ON OR-36E FOR APPROX. 13.2 MILES. TURN LEFT (NORTH) ONTO DEADWOOD CREEK ROAD (COUNTY ROAD 5140) AND TRAVEL APPROX. 4.1 MILES. TURN LEFT (WEST) ONTO WEST FORK ROAD (COUNTY ROAD 5142) AND TRAVEL 2.4 MILES TO THE PROJECT SITE.

INDEX OF SHEETS

99% DRAFT PLAN SET

DESIGNED BY:

COLE SMITH, PE

DATE

ESTIMATE OF QUANITITIES

ITEM NUMBER	DESCRIPTION	PAY UNIT	UNIT OF MEASUREMENT
0010	0210-0100000A MOBILIZATION	LUMP SUM	ALL
0020	0221-0101000A TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LUMP SUM	ALL
0030	0231-0200000A CONSTRUCT AND REMOVE TEMPORARY ACCESS ROAD	LUMP SUM	ALL
0040	0245-0100000A TEMPORARY WATER MANAGEMENT FACILITY	LUMP SUM	ALL
0050	0280-0100000A EROSION CONTROL	LUMP SUM	ALL
0060	0305-0100000A CONSTRUCTION SURVEY WORK	LUMP SUM	ALL
0070	0310-0107000A REMOVAL OF ASPHALT CONCRETE WEARING SURFACE	SQUARE YARD	655
0080	0320-0100000A CLEARING AND GRUBBING	LUMP SUM	ALL
0090	0330-0105000K GENERAL EXCAVATION	CUBIC YARD	1420
0100	0330-0123000K EMBANKMENT IN PLACE	CUBIC YARD	1700
0110	0350-010300J RIPRAP GEOTEXTILE, TYPE 2	SQUARE YARD	1195
0120	0350-0105000J SUBGRADE GEOTEXTILE	SQUARE YARD	1500
0130	0390-0108000K LOOSE RIPRAP, CLASS 100	CUBIC YARD	387
0140	0445-010024AF 24 INCH CULVERT PIPE, 5 FT DEPTH	FOOT	50
0150	0501-0100000A BRIDGE REMOVAL WORK	LUMP SUM	ALL
0160	0510-0101000A STRUCTURE EXCAVATION	LUMP SUM	ALL
0170	0510-0108000A GRANULAR STRUCTURE BACKFILL	LUMP SUM	ALL
0180	0520-0101000A FURNISH PILE DRILLING EQUIPMENT	LUMP SUM	ALL
0190	0520-0115000F FURNISH PP 10 X 0.375 STEEL PILES	FOOT	250
0200	0520-0340000E DRILL PP 10 X 0.375 STEEL PILES	EACH	10
0210	0530-0104000O REINFORCEMENT, GRADE 60	POUND	6696
0220	0540-0313000K, GENERAL STRUCTURAL CONCRETE, CLASS 4000	CUBIC YARD	44
0230	0545-0100100J, REINFORCED CONCRETE BRIDGE APPROACH SLABS	SQUARE YARD	102
0240	0550-0139000F, 30 INCH PRECAST PRESTRESSED SLABS	FOOT	515
0250	0582-0010000E BEARING DEVICES, ELASTOMERIC	EACH	24
0260	0587-0115000A VERTICAL CONCRETE PARAPET, 42 INCH	FOOT	171.67
0270	0641-0112000K 3/4 INCH - 0 AGGREGATE BASE	CUBIC YARD	442
0280	0641-0123000K 3 INCH - 0 AGGREGATE BASE	CUBIC YARD	172
0290	0744-0302000M LEVEL 3, 1/2 INCH ACP MIXTURE	TON	300
0300	0810-0104000F GUARDRAIL, TYPE 2A	FOOT	156.25
0310	0810-0107000F GUARDRAIL, TYPE 3	FOOT	50
0320	0810-0121000E GUARDRAIL ANCHOR, TYPE 5	EACH	1
0330	0810-0126000E GUARDRAIL TRANSITION	EACH	4
0340	0810-0131000E GUARDRAIL TERMINALS, NON-FLARED, TEST LEVEL 2	EACH	3
0350	0860-0200000F LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT	540
0360	1030-0108000R PERMANENT SEEDING	ACRE	1
0370	1030-0140000R MULCHING	ACRE	1

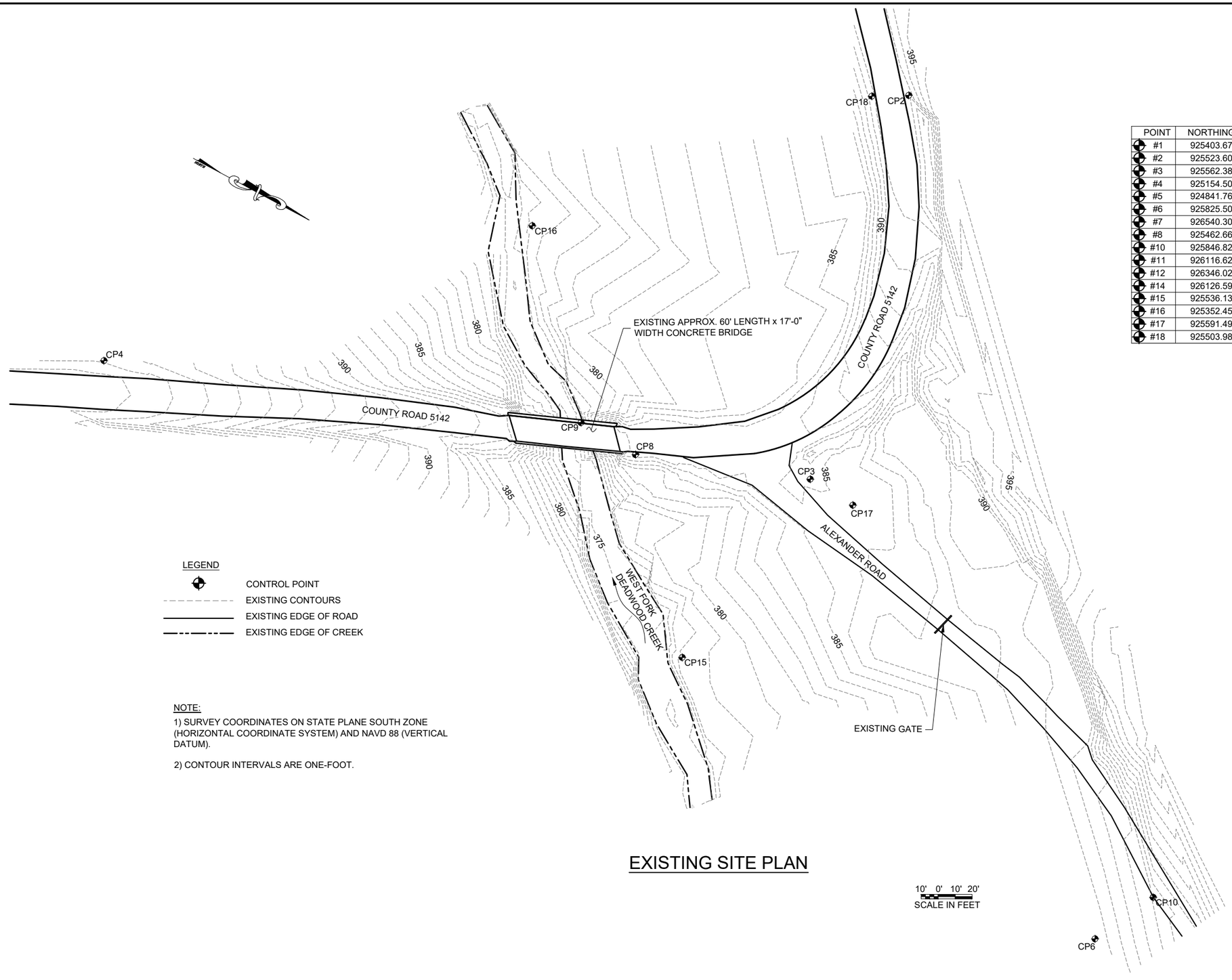
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

ESTIMATE OF QUANTITIES

County: LANE
Crossing: W FK DEADWOOD CREEK
Location: T16S R09W SEC23
Designed: CLS
Drawn: CLS
Loading: HL-93
Span: 85'-0"
Width: 24'-0"



CONTROL TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
#1	925403.67	4068057.01	391.00	½" REBAR RPC
#2	925523.60	4068191.13	392.21	½" REBAR RPC
#3	925562.38	4068420.91	384.52	H/T
#4	925154.50	4068526.01	397.84	½" REBAR RPC
#5	924841.76	4068690.50	383.92	½" REBAR RPC
#6	925825.50	4068599.88	388.12	½" REBAR RPC
#7	926540.30	4068630.97	390.12	½" REBAR RPC
#8	925462.66	4068449.42	385.78	H/T
#10	925846.82	4068563.64	393.15	H/T
#11	926116.62	4068710.96	404.38	H/T
#12	926346.02	4068689.72	405.65	H/T
#14	926126.59	4068710.40	404.51	H/T
#15	925536.13	4068547.31	378.25	H/T
#16	925352.45	4068351.17	376.43	H/T
#17	925591.49	4068424.69	385.54	MAG WISKER
#18	925503.98	4068200.39	391.61	H/T

LEGEND

- CONTROL POINT
- EXISTING CONTOURS
- EXISTING EDGE OF ROAD
- EXISTING EDGE OF CREEK

NOTE:

1) SURVEY COORDINATES ON STATE PLANE SOUTH ZONE (HORIZONTAL COORDINATE SYSTEM) AND NAVD 88 (VERTICAL DATUM).

2) CONTOUR INTERVALS ARE ONE-FOOT.

EXISTING SITE PLAN

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

EXISTING SITE PLAN & SURVEY INFORMATION

County: LANE
Crossing: W FK DEADWOOD CREEK
Location: T16S R09W SEC23
Designed: CLS
Drawn: CLS
Loading: HL-93
Span: 85'-0"
Width: 24'-0"

CENTERLINE ROADWAY LAYOUT TABLE

STATION	NORTHING	EASTING	ELEVATION*	DESCRIPTION
3+00.00	925278.58	4068500.81	MATCH EXISTING	BEGIN NEW ACP SURFACING
3+50	925325.81	4068484.40	393.32'	
4+00	925373.54	4068469.52	392.99'	
4+50	925421.28	4068454.68	392.66'	
4+67.50	925437.93	4068449.28	392.54'	℄ BRIDGE ABUT. 1 & ROADWAY
5+52.50	925515.60	4068414.74	391.69'	℄ BRIDGE ABUT. 2 & ROADWAY
6+00	925548.65	4068381.47	391.42'	
6+50	925563.38	4068334.30	391.32'	
7+00	925559.17	4068284.69	391.44'	
7+17.02	925554.45	4068268.34	MATCH EXISTING	END NEW ACP SURFACING

*ELEVATION AT TOP OF ACP

ROADWAY LAYOUT NOTES:
1) NEW ROADWAY CENTERLINE ALIGNMENT TO MATCH EXISTING ROADWAY CENTERLINE ALIGNMENT.
2) CURVE DATA FOR EXISTING ROADWAY CENTERLINE ALIGNMENT SHOWN FOR INFORMATIONAL PURPOSES ONLY.

NOTE:
ACP = ASPHALT CONCRETE PAVEMENT

℄ BEARING ABUT. #1
STA 4+67.50

GRADING AT ALL TL-2 TERMINAL ENDS PER WASHINGTON DOT STD PLAN C-22.45-06

SAW CUT, TYP.

EXISTING ACP
COUNTY ROAD 5142

NEW ACP

BEGIN NEW ROAD CONSTRUCTION
STA. 3+00.00
BEGIN NEW ASPHALT SURFACING

NEW 85'-0" SPAN PRESTRESSED SLAB BRIDGE STRUCTURE

EXISTING EDGE OF ACP

PC 5+56.95

PCC 6+27.84

L=70.89
R=112.28, D=36.17

PT 7+58.79

PCC 7+05.42

L=53.37
R=171.25, D=17.86

L=177.58
R=157.45, D=28.23

END NEW ROAD CONSTRUCTION
STA. 7+17.02
END NEW ACP SURFACING

PAVED TURN-OUT FOR NEW ALEXANDER ROAD SECTION. SEE DETAILS ON SHEETS 11, 14 & 15

℄ BEARING ABUT. #2
STA 5+52.50

24" Ø X 50'-0" LENGTH HDPE CULVERT. SEE DETAILS ON SHEET 14.

EXISTING ALEXANDER ROAD (TO BE REMOVED)

NEW ALEXANDER ROAD (SEE DETAILS ON SHEETS 14 & 15)

WEST FORK DEADWOOD CREEK

CONTRACTOR TO REMOVE EXISTING 60 FT LENGTH X 17 FT WIDTH CONCRETE BRIDGE (NOT SHOWN ON THIS SHEET FOR CLARITY) AND CONSTRUCT ROADWAY EMBANKMENT IN THE EXISTING STREAM CHANNEL TO ACCESS THE NEW BRIDGE AS SHOWN ON THIS SHEET. THE REMAINDER OF THE EXISTING STREAM CHANNEL TO BE FILLED IN BY OTHERS VIA A SEPARATE WATERSHED RESTORATION CONTRACT

LEGEND
- CONTROL POINT
- EXISTING CONTOURS
- PROPOSED FINAL CONTOURS
- DITCH LINE
- EDGE OF CREEK

CP16, CP9, CP8, CP3, CP17, CP15

PLAN

10' 0' 10' 20'
SCALE IN FEET

ROADWAY CROWN & CROSS SLOPE TABLE

STATION	DESCRIPTION
3+00.00	MATCH EXISTING ROADWAY CROWN (APPROX. 1.5%)
3+20.00	1.5% CROWN (TRANSITION FROM EXISTING TO 1.5% FOR 20 FT)
4+67.50	BEGINNING OF BRIDGE - MAINTAIN 1.5% CROWN
5+52.50	END OF BRIDGE - MAINTAIN 1.5% CROWN
5+73.00	END 1.5% CROWN. BEGIN TRANSITION TO 3% CROSS SLOPE
6+10.00	3% CROSS SLOPE
6+90.00	3% CROSS SLOPE (TRANSITION FROM 3% TO EXISTING FOR 20 FT)
7+10.00	MATCH EXISTING CROSS SLOPE (APPROX. 3%)

NEW ROADWAY STRUCTURE: 6" THICKNESS ASPHALT ON TOP OF 12" THICKNESS ¾" - AGGREGATE BASE

NEW 85'-0" SPAN PRESTRESSED SLAB BRIDGE STRUCTURE

EXISTING ROAD CENTERLINE PROFILE

BEGIN NEW ACP
STA. 3+00.00
MATCH EXISTING
TOP ROADWAY ELEV.

℄ BEARING ABUT. #1
STA 4+67.50
TOP OF ROADWAY
ELEV. 392.54

℄ BEARING ABUT. #2
STA 3+38.80
TOP OF ROADWAY
ELEV. 1503.02'

PVI STA: 6+14.31
PVI ELEV: 391.23
K: 116.62
LVC: 116.65
LOW PT. STA. 6+43.35
LOW PT. ELEV: 391.34

BVCS: 5+55.98
BVCE: 391.66

EVCS: 6+72.63
EVCE: 391.37

END NEW ACP
STA. 7+17.02
MATCH EXISTING
TOP ROADWAY ELEV.

NEW ROAD CENTERLINE PROFILE

-0.66%
-1%
0.25%

20'-4" BRIDGE APPROACH SLAB, TYP.

ELEVATION: 410, 400, 390, 380, 370, 360

STATION: 2+75, 3+00, 3+50, 4+00, 4+50, 5+00, 5+50, 6+00, 6+50, 7+00, 7+25

ROAD CENTERLINE PROFILE

10' 0' 10' 20'
SCALE IN FEET

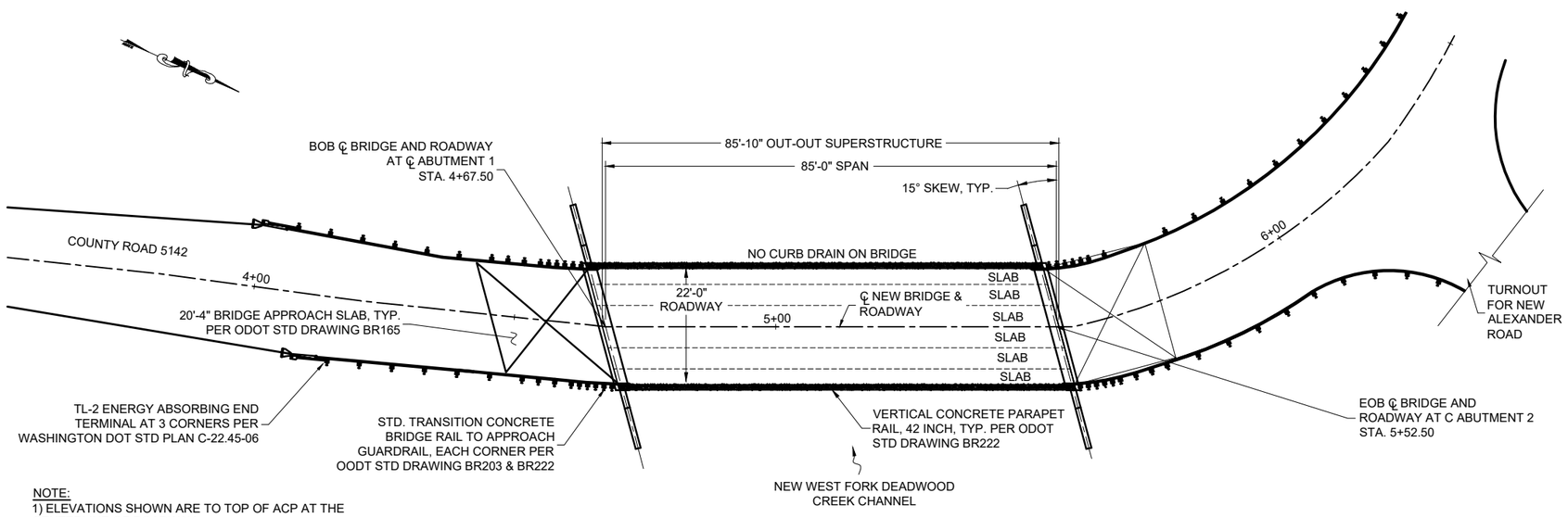
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

ROAD PLAN & PROFILE

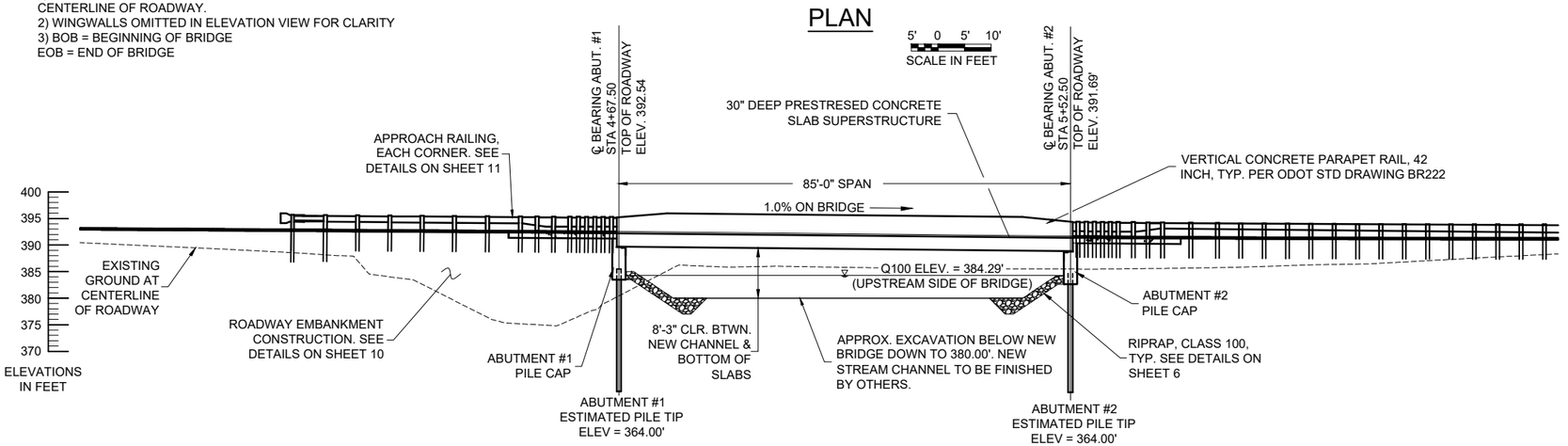
County: LANE
Crossing: W FK DEADWOOD CREEK
Location: T16S R09W SEC23
Loading: HL-93
Span: 85'-0"
Width: 24'-0"
Designed: CLS
Drawn: CLS



NOTE:
1) ELEVATIONS SHOWN ARE TO TOP OF ACP AT THE CENTERLINE OF ROADWAY.
2) WINGWALLS OMITTED IN ELEVATION VIEW FOR CLARITY
3) BOB = BEGINNING OF BRIDGE
EOB = END OF BRIDGE

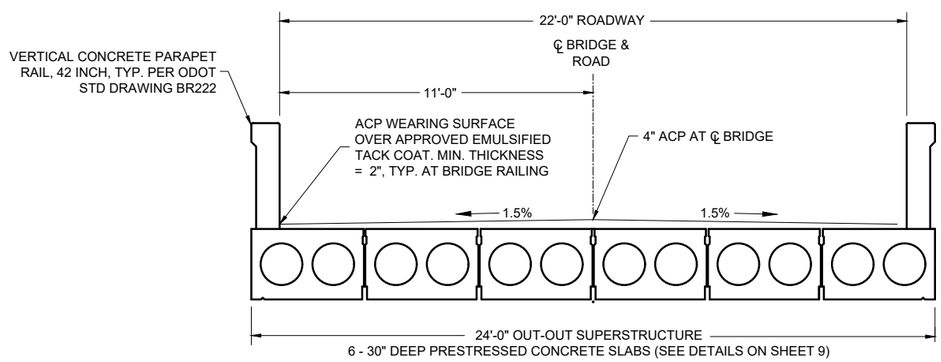
PLAN

5' 0 5' 10'
SCALE IN FEET



ROAD CENTERLINE PROFILE

5' 0 5' 10'
SCALE IN FEET



TYPICAL SECTION

NOT TO SCALE

GENERAL NOTES

SPECIFICATIONS:
DESIGN: "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" 9TH EDITION.

CONSTRUCTION: 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION

DESIGN:
DEAD LOAD: CONCRETE AT 150 PCF, STEEL AT 490 PCF, EARTH PRESSURE AT AN EQUIVALENT FLUID PRESSURE WEIGHT OF 36 PCF, ASPHALT AT 145 PCF, EARTH AT 120 PCF.

LIVE LOAD:
STRENGTH I LIMIT STATE: AASHTO HL93 WITH DYNAMIC LOAD ALLOWANCE (IM=0.33).

SEISMIC CRITERIA: PEAK GROUND ACCELERATION, As = 0.34. SPECTRAL ACCELERATION COEFFICIENT, Ss = 0.78, SPECTRAL ACCELERATION COEFFICIENT, S1 = 0.34g, SITE CLASS = B

MATERIALS:
CONCRETE:
PROVIDE GENERAL STRUCTURAL CONCRETE CLASS 4000 - 1 1/2, 1 or 3/4 CONCRETE IN PILE CAPS, WINGWALLS AND INSIDE OF PIPE PILES: FINISH CONCRETE WITH A GENERAL SURFACE FINISH. CHAMFER ALL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE NOTED.

PROVIDE PRESTRESSED CONCRETE WITH A 28 DAY COMPRESSIVE STRENGTH AND A RELEASE AND PICKUP STRENGTH AS GIVEN ON THE GIRDER SHEET.

REINFORCING STEEL: CONFORM TO AASHTO M31 GRADE 60. TWO INCH CONCRETE COVER, EXCEPT AS NOTED.

STRUCTURAL STEEL: CONFORM TO AASHTO M183 (ASTM A36). HOT DIP GALVANIZE ALL EXPOSED STRUCTURAL STEEL AFTER FABRICATION ACCORDING TO AASHTO M111. HOT DIP GALVANIZE EXPOSED STEEL FASTENERS, BOLTS AND NUTS, AND HARDWARE ACCORDING TO AASHTO M232.

PILES: FURNISH ROUND PIPE PILES HSS 10.75 X 0.375 (10.75" OUTER DIAMETER X 0.375" NOMINAL WALL THICKNESS), CONFORMING TO ASTM A252 GRADE 2 OR GRADE 3

ELASTOMERIC BEARING PADS: CONFORM TO AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECTION 18.2 AND THE CONTRACT SPECIFICATIONS

PREFORMED JOINT FILLER: CONFORM TO AASHTO M33, M153 OR M213. EXPANDED POLYSTYRENE CONFORM TO AASHTO M230.

HYDROLOGY AND HYDRAULICS: THIS BRIDGE IS DESIGNED TO PASS A 100-YEAR FLOOD OF 1410 CFS WITH AN APPROXIMATE FREEBOARD OF 3.97 FEET. HIGH WATER DEPTH IS APPROXIMATELY 4.29 FEET. ADDITIONAL HYDRAULICS INFORMATION IS AVAILABLE AT LANE COUNTY PUBLIC WORKS IN EUGENE, OREGON.

FOUNDATION INVESTIGATION: NOMINAL UNCONFINED COMPRESSIVE STRENGTH OF BEDROCK AT PILE TIP ELEVATIONS = 4000 PSI. DESIGN RESISTANCE FACTOR FOR BEARING ON BEDROCK = 0.45. ADDITIONAL FOUNDATION INFORMATION IS AVAILABLE AT LANE COUNTY PUBLIC WORKS IN EUGENE, OREGON.

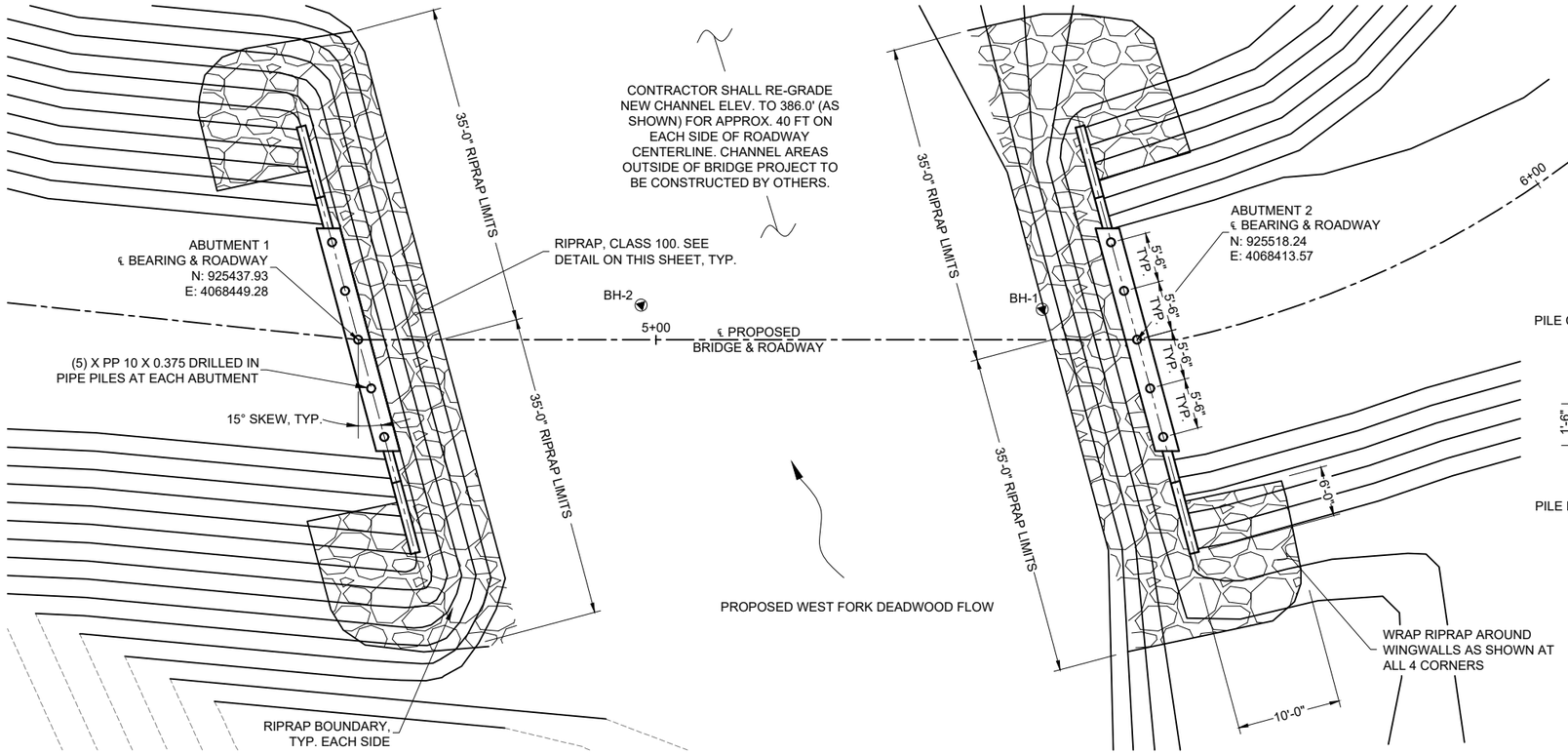
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

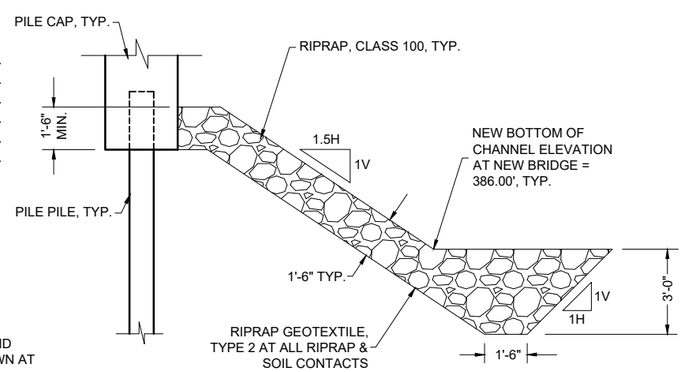
BRIDGE GENERAL LAYOUT

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



FOUNDATION PLAN

NOT TO SCALE



TYPICAL RIPRAP SECTION

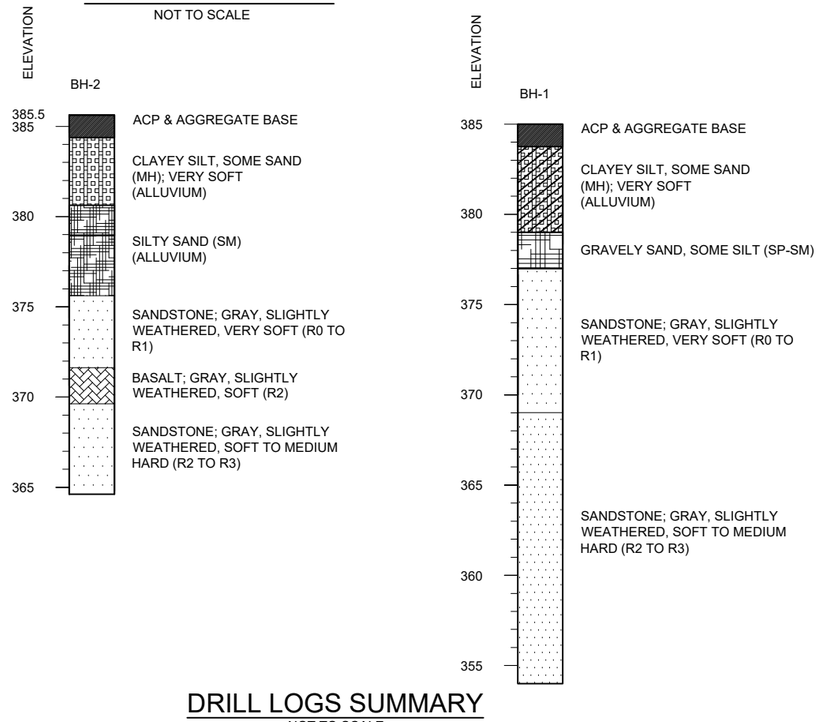
NOT TO SCALE

LEGEND

- APPROX. BOREHOLE LOCATION
- EXISTING CONTOURS
- PROPOSED FINAL CONTOURS

PILE PENETRATION TABLE

LOCATION	TYPE	ESTIMATED TIP ELEVATION (FT)	AS-BUILT TIP ELEVATION (FT)	CUT-OFF ELEVATION (FT)
ABUTMENT 1	PP 10x0.375	364.00		385.30
ABUTMENT 2	PP 10x0.375	364.00		384.45



DRILL LOGS SUMMARY

NOT TO SCALE

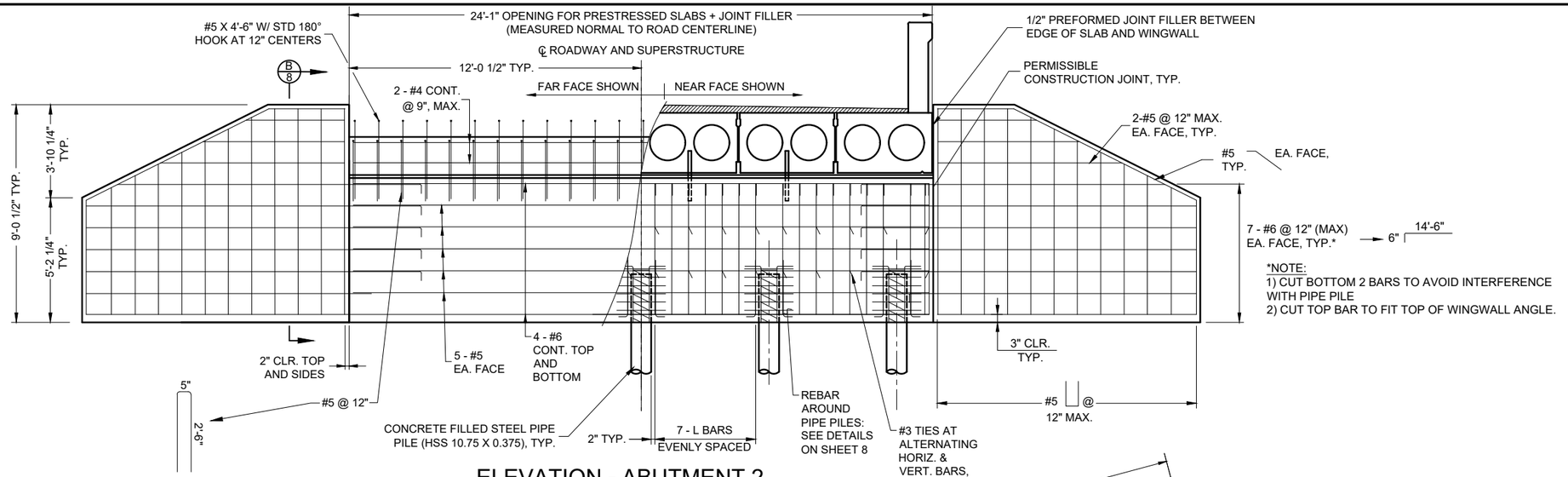
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

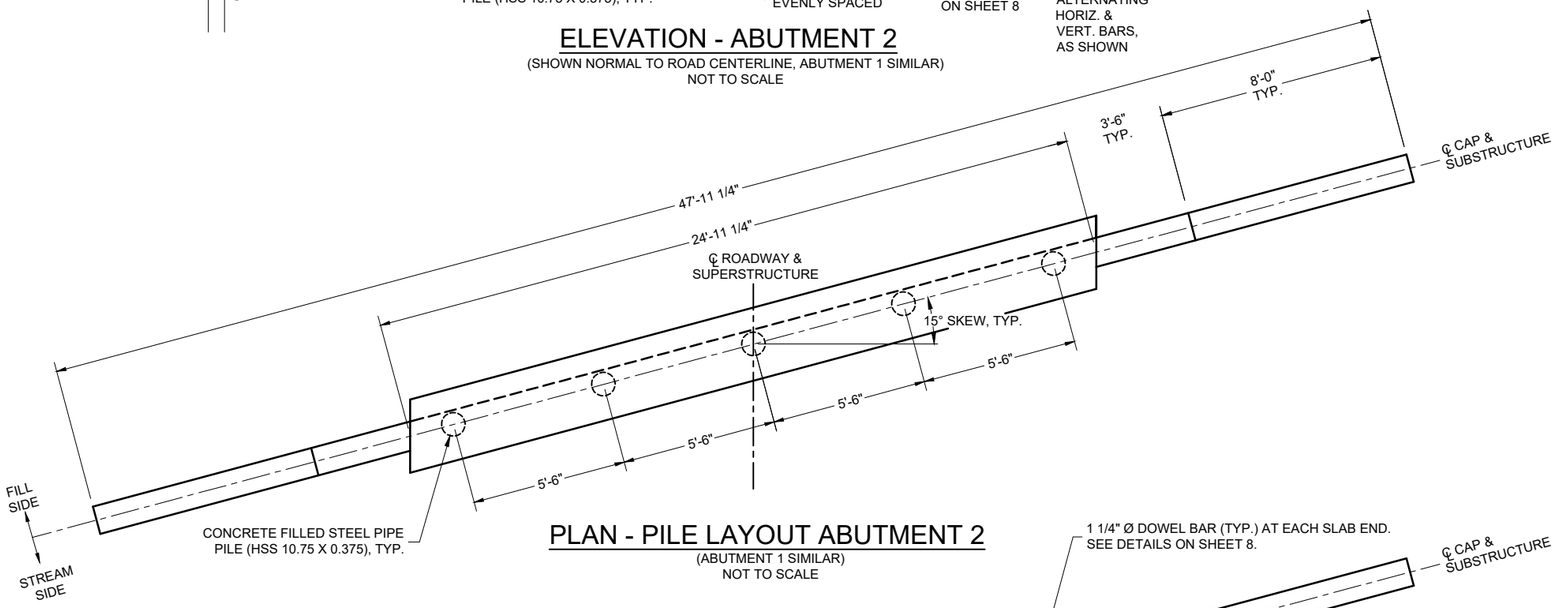
FOUNDATION PLAN

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



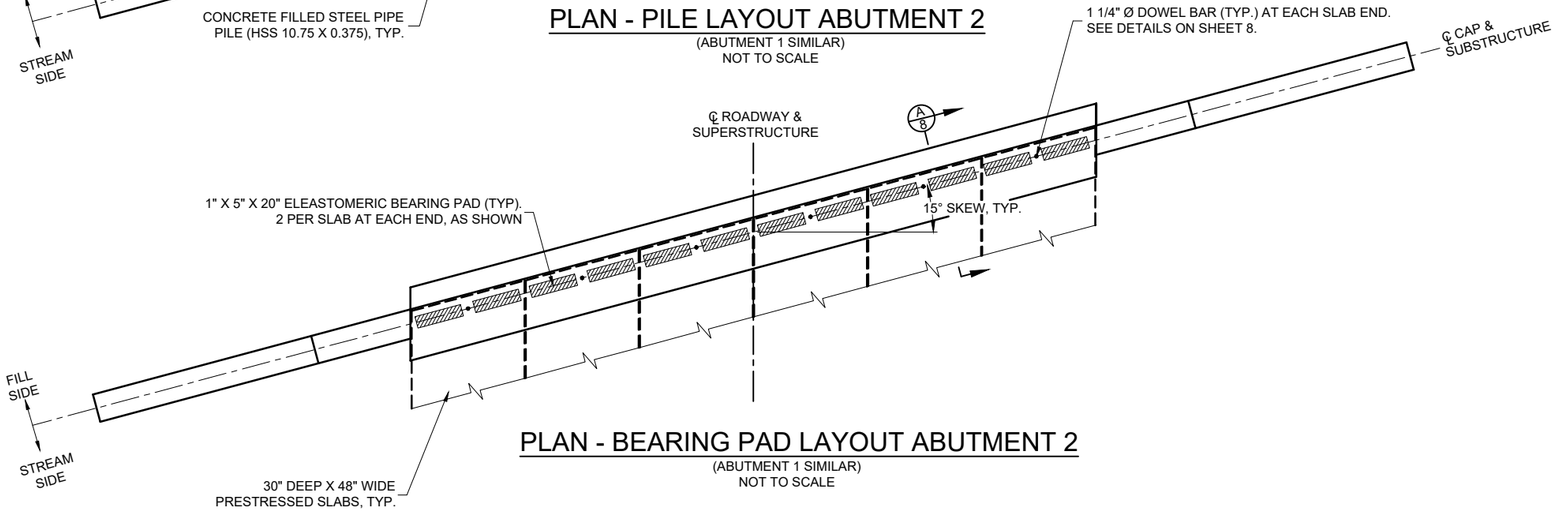
ELEVATION - ABUTMENT 2

(SHOWN NORMAL TO ROAD CENTERLINE, ABUTMENT 1 SIMILAR)
NOT TO SCALE



PLAN - PILE LAYOUT ABUTMENT 2

(ABUTMENT 1 SIMILAR)
NOT TO SCALE



PLAN - BEARING PAD LAYOUT ABUTMENT 2

(ABUTMENT 1 SIMILAR)
NOT TO SCALE

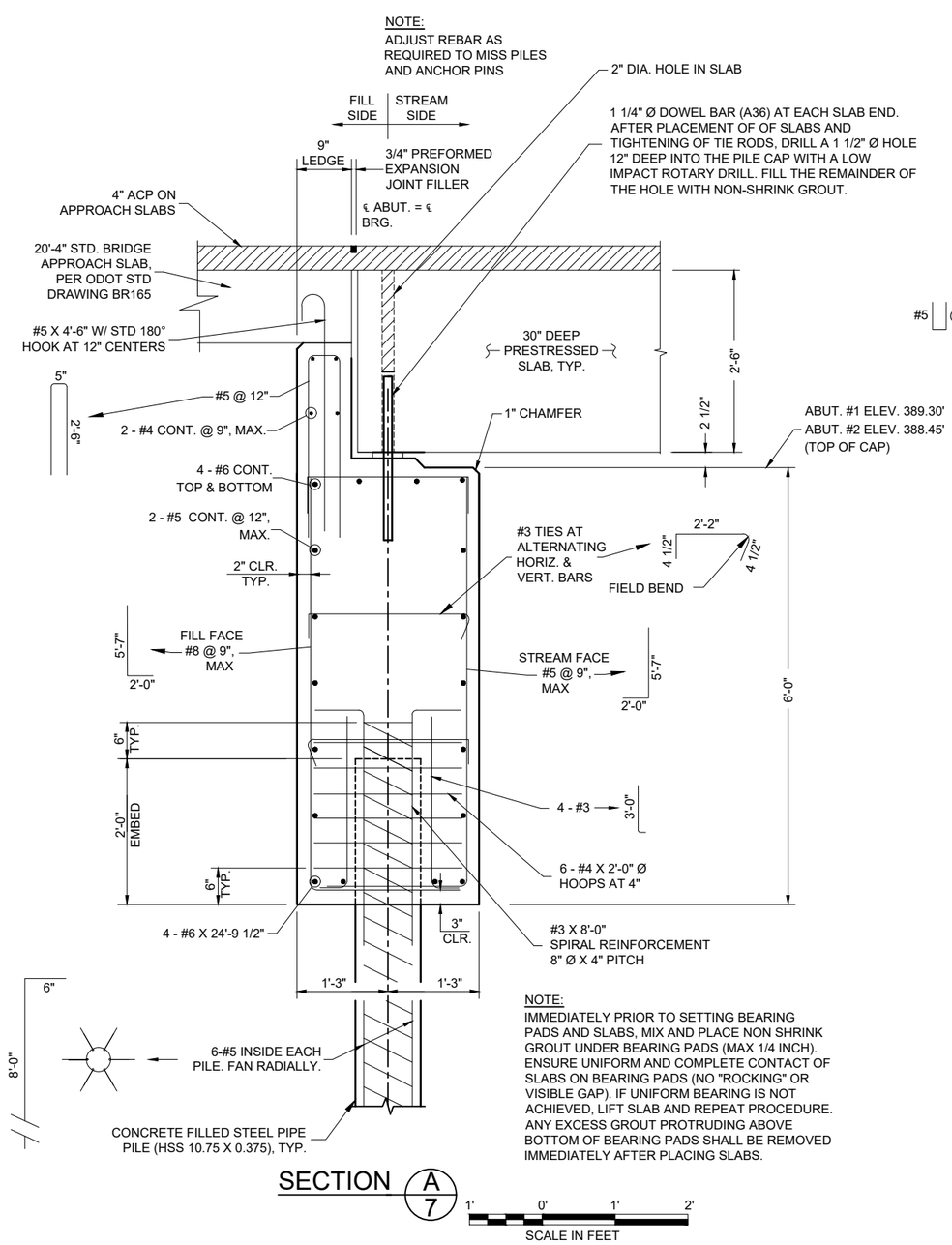
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

SUBSTRUCTURE DETAILS #1

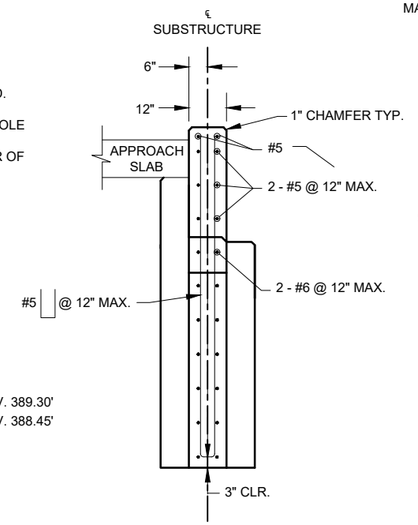
County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



NOTE:
IMMEDIATELY PRIOR TO SETTING BEARING PADS AND SLABS, MIX AND PLACE NON SHRINK GROUT UNDER BEARING PADS (MAX 1/4 INCH). ENSURE UNIFORM AND COMPLETE CONTACT OF SLABS ON BEARING PADS (NO "ROCKING" OR VISIBLE GAP). IF UNIFORM BEARING IS NOT ACHIEVED, LIFT SLAB AND REPEAT PROCEDURE. ANY EXCESS GROUT PROTRUDING ABOVE BOTTOM OF BEARING PADS SHALL BE REMOVED IMMEDIATELY AFTER PLACING SLABS.

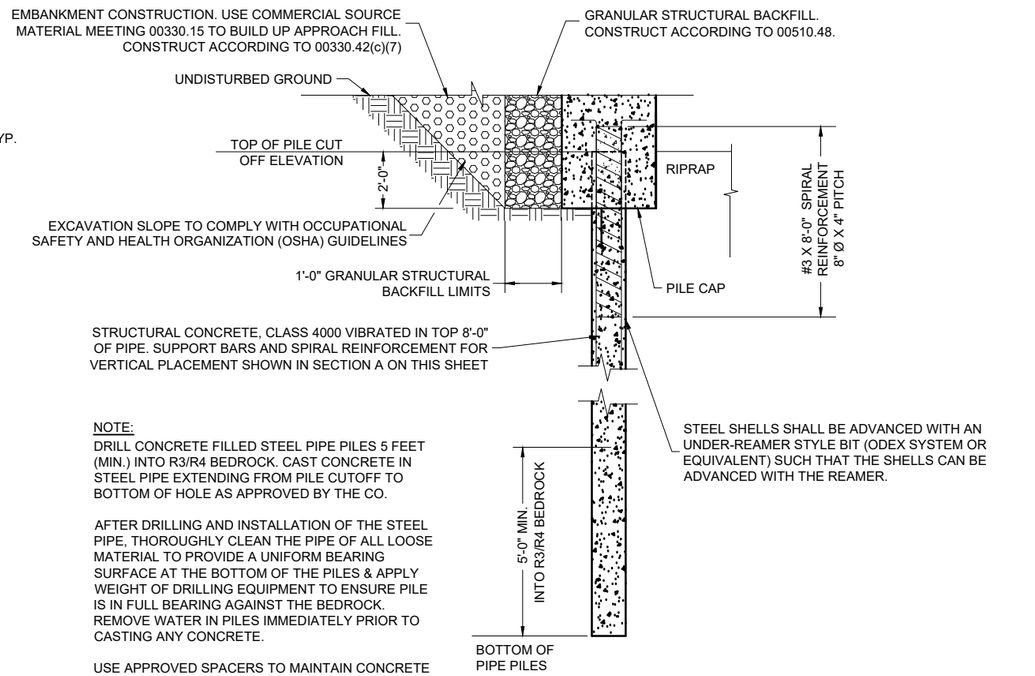
SECTION A/7

1' 0' 1' 2'
SCALE IN FEET



SECTION B/7

NOT TO SCALE



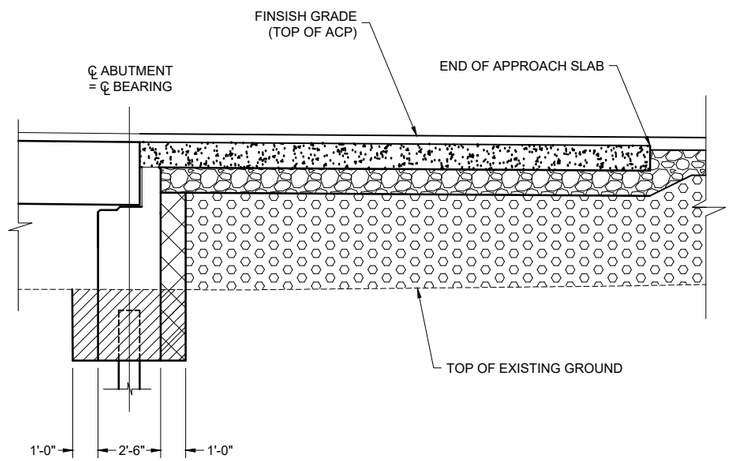
NOTE:
DRILL CONCRETE FILLED STEEL PIPE PILES 5 FEET (MIN.) INTO R3/R4 BEDROCK. CAST CONCRETE IN STEEL PIPE EXTENDING FROM PILE CUTOFF TO BOTTOM OF HOLE AS APPROVED BY THE CO.

AFTER DRILLING AND INSTALLATION OF THE STEEL PIPE, THOROUGHLY CLEAN THE PIPE OF ALL LOOSE MATERIAL TO PROVIDE A UNIFORM BEARING SURFACE AT THE BOTTOM OF THE PILES & APPLY WEIGHT OF DRILLING EQUIPMENT TO ENSURE PILE IS IN FULL BEARING AGAINST THE BEDROCK. REMOVE WATER IN PILES IMMEDIATELY PRIOR TO CASTING ANY CONCRETE.

USE APPROVED SPACERS TO MAINTAIN CONCRETE COVER FOR ALL REBAR INSIDE PIPE PILING.

10" Ø DRILLED IN PIPE DETAILS - TYPICAL

NOT TO SCALE



PAY LIMITS OF STRUCTURAL EXCAVATION

PAY LIMITS OF EMBANKMENT IN PLACE

PAY LIMITS OF GRANULAR STRUCTURAL BACKFILL

PAY LIMITS OF 3/4"-0 AGGREGATE BASE

PAY LIMITS DIAGRAM

NOT TO SCALE

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

SUBSTRUCTURE DETAILS #2

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

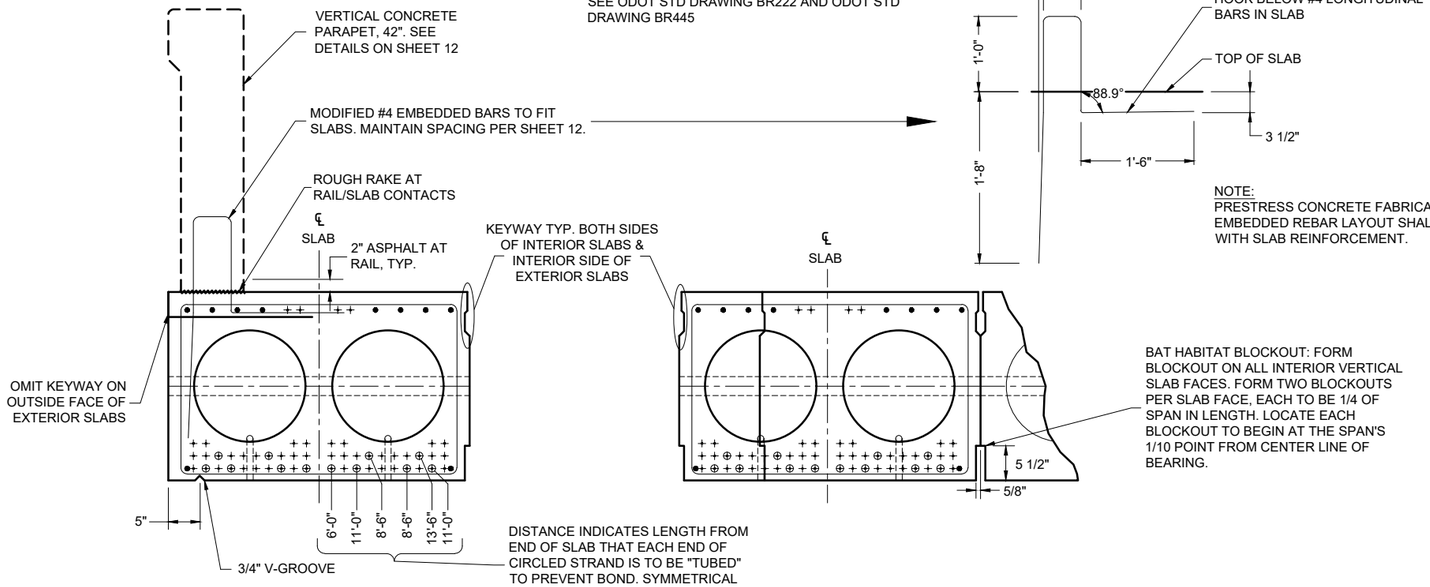
SLAB NO.	NO. SLABS REQUIRED	SPAN NO.	HORIZONTAL LENGTH c-c AT SLAB CENTERLINE, FT. (AFTER SHORTENING)	SKEW ANGLE		TOTAL STRANDS	DEBONDED STRANDS	DISTANCE "y_c" TO C.G. STRAND AT MIDSPAN, IN.	CONCRETE STRENGTH @ 28-DAYS, ksi	MIN. CONCRETE STRENGTH AT TRANSFER OF PRESTRESS, ksi	ESTIMATED INITIAL STRAND STRESS LOSS, ksi	ESTIMATED MIDSPAN DEFLECTION, in.			ESTIMATED SHORTENING 2 WEEKS AFTER TRANSFER OF PRESTRESS, IN.
				BACK	AHEAD							UPWARD AT RELEASE	UPWARD 3 MONTHS AFTER TRANSFER OF PRESTRESS (NO SIDL)	INSTANTANEOUS DOWNWARD DUE TO 100 PSF SIDL	
13	6	1	85'-10"	15	15	52	12	5.19	6.5	5.0	13.3	1 3/8	2 3/8	1	9/16

30" STANDARD PRECAST PRESTRESSED SLAB SCHEDULE

PRESTRESSED SLAB NOTES:

(SEE GENERAL NOTES ON ODOT STD DRAWING BR445 FOR DETAILS NOT SHOWN BELOW.)

1. LOCATE DIAPHRAGMS AT 1/3 POINTS PER ODOT STD DRAWING BR422.
2. THE ENTIRE SLAB SHALL BE AIR ENTRAINED 4 TO 6 PERCENT.
3. LIFTING DEVICES OF ADEQUATE STRENGTH TO SAFELY LIFT THE SECTION SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR. THEY SHALL BE SHOWN ON THE SHOP DRAWINGS.
4. SHOULD THE FABRICATOR OR THE ERECTOR DESIRE TO LIFT THE BEAMS FROM SUPPORTS AT ANY LOCATION OTHER THAN NOTED ON THE GIRDER SHEETS, SUBMIT COMPLETE CALCULATIONS AND ANY REQUIRED MODIFICATIONS TO THE GIRDERS' CONSTRUCTION FOR APPROVAL.
5. THE DESIGN ASSUMES SUPPORT OF THE SLABS DURING TRANSPORTATION AS NOTED ON THE GIRDER SHEETS. SHOULD SUPPORT DURING SHIPMENT BE DESIRED AT A POINT FARTHER FROM THE BEAM END, SUBMIT FOR APPROVAL CALCULATIONS AND ANY NECESSARY CONSTRUCTION CHANGES SHOWING THAT STRESSES DO NOT EXCEED THOSE ALLOWED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.
6. THE CALCULATIONS AND SHOP DRAWINGS FOR THE SLABS, AS PREPARED AND CHECKED BY THE FABRICATOR, SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF OREGON.
7. "y_c " USED FOR SERVICE LOAD CALCULATIONS (ALL STRANDS INCLUDED). "y_u " USED FOR ULTIMATE LOAD CALCULATIONS (TOP OF SLAB STRANDS EXCLUDED).
8. INSTALL SLABS FLAT, NOT CROWNED
9. FINISH THE CONCRETE AS SHOWN IN THE SPECIFICATIONS AND PROJECT GENERAL NOTES. FOR THE ROADWAY SURFACE, PROVIDE A FLOAT FINISH FOLLOWED BY A TRANSVERSE STIFF BROOM FINISH.
10. INSTALL GUARD ANGLES AT EACH END OF THE SLAB AS SHOWN. SEE GUARD ANGLE DETAIL THIS SHEET.



TYPICAL 30" SLAB SECTION

NOT TO SCALE

MIN. ASPHALT DEPTH ON BRIDGE	4" @ CENTERLINE, 2" @ RAILING
ANTICIPATED CAMBER AT 4 MONTHS	2 3/8"
DOWNWARD DUE TO SIDL	1"
WEARING SURFACE THICKNESS AT ABUTMENT	5 3/8" @ CENTERLINE, 3 3/8" @ RAILING

ASPHALT BUILD-UP DETAIL

SHOWN AT BRIDGE CENTERLINE
(NOT TO SCALE)

*DO NOT PLACE GUARD ANGLE IN LOCATION OF CONCRETE RAIL ON EXTERIOR SLABS.

GUARD ANGLE ASSEMBLY DETAIL

NOT TO SCALE

SECTION A-A

NOT TO SCALE

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

PRESTRESSED SLAB DETAILS

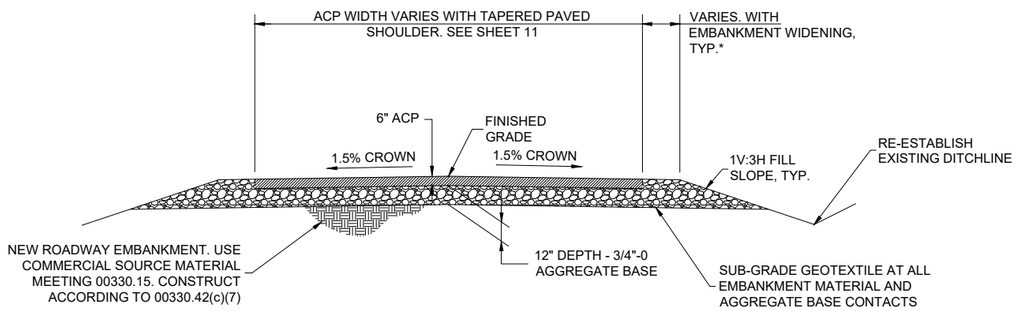
County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

*SEE WASHINGTON DOT STD PLAN C-22.45-06 FOR EMBANKMENT WIDENING DETAILS

**SEE TABLE ON SHEET 4 FOR ROADWAY CROWN & CROSS SLOPE INFORMATION

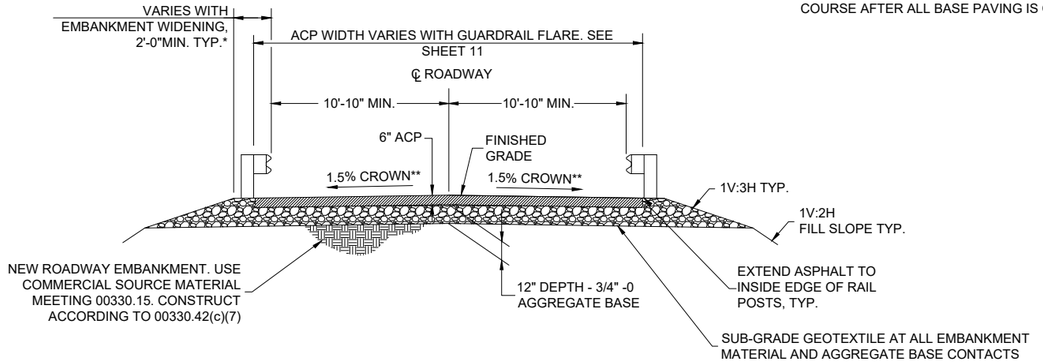
ACP NOTES:

1) ACP DEPTH = 4" (ALONG CENTERLINE) ON TOP OF BRIDGE SUPERSTRUCTURE. SEE TYPICAL SECTION ON SHEET 5.
2) ACP DEPTH = 4" ON TOP OF BRIDGE END PANELS.
3) ACP DEPTH = 6" IN ALL OTHER LOCATIONS.
4) PROVIDE BASE LIFTS AS REQUIRED 2" LOWER THAN THE FINISH GRADE. PROVIDE 2" WEARING COURSE AFTER ALL BASE PAVING IS COMPLETE.



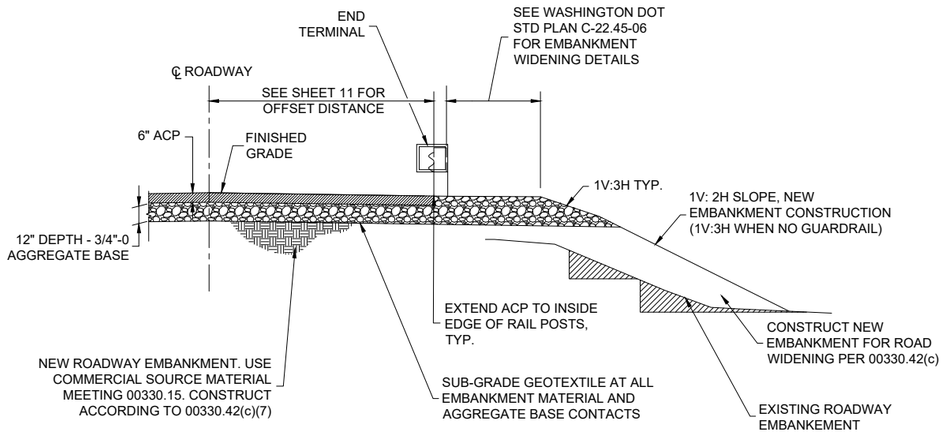
TYPICAL ROADWAY CROSS SECTION @ BOB APPROACH

NOT TO SCALE



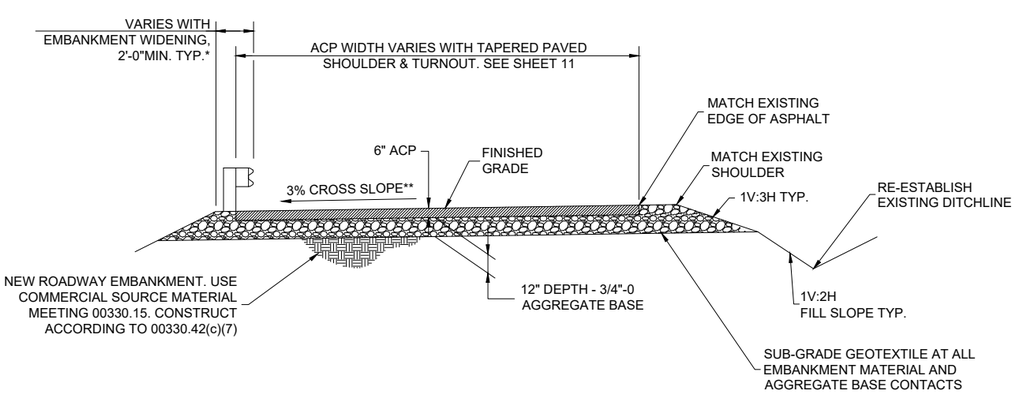
TYPICAL ROADWAY WITH GUARDRAIL CROSS SECTION

NOT TO SCALE



TYPICAL ROADWAY AT GUARDRAIL TERMINAL ENDS - CROSS SECTION

NOT TO SCALE



TYPICAL ROADWAY CROSS SECTION @ EOB APPROACH (STA. 6+50 T0 STA. 7+17.02)

NOT TO SCALE

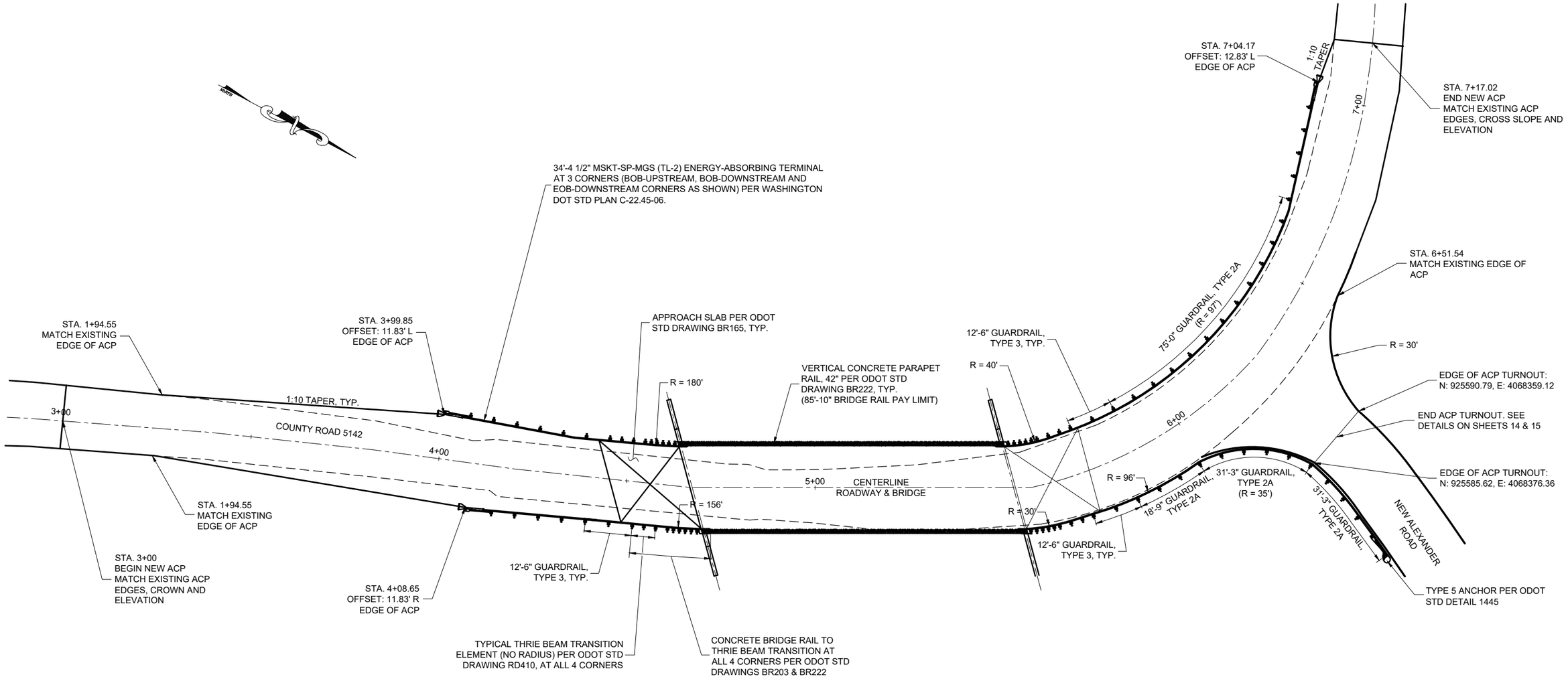
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

TYPICAL ROADWAY SECTIONS & DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



APPROACH RAIL PLAN

5' 0 5' 10'
SCALE IN FEET

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

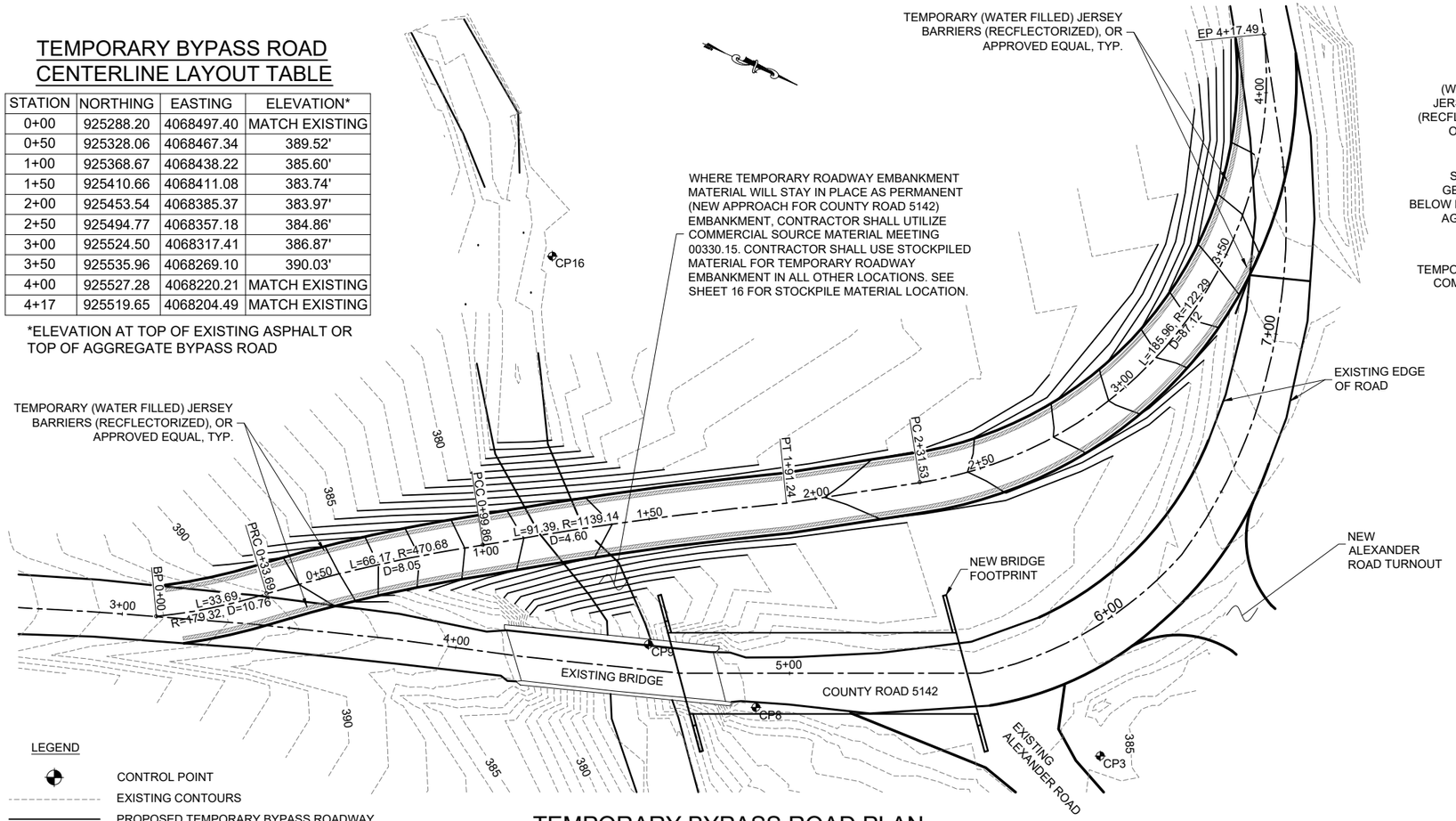
APPROACH RAIL PLAN

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

TEMPORARY BYPASS ROAD CENTERLINE LAYOUT TABLE

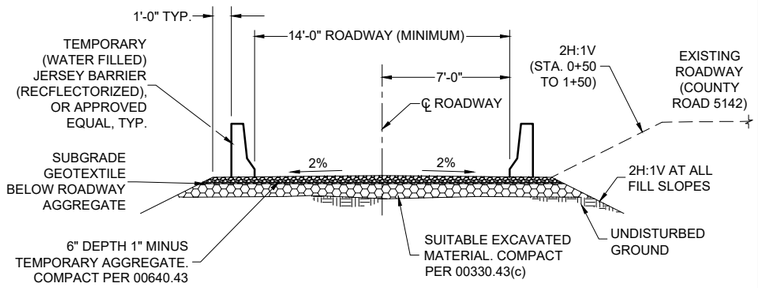
STATION	NORTHING	EASTING	ELEVATION*
0+00	925288.20	4068497.40	MATCH EXISTING
0+50	925328.06	4068467.34	389.52'
1+00	925368.67	4068438.22	385.60'
1+50	925410.66	4068411.08	383.74'
2+00	925453.54	4068385.37	383.97'
2+50	925494.77	4068357.18	384.86'
3+00	925524.50	4068317.41	386.87'
3+50	925535.96	4068269.10	390.03'
4+00	925527.28	4068220.21	MATCH EXISTING
4+17	925519.65	4068204.49	MATCH EXISTING

*ELEVATION AT TOP OF EXISTING ASPHALT OR TOP OF AGGREGATE BYPASS ROAD



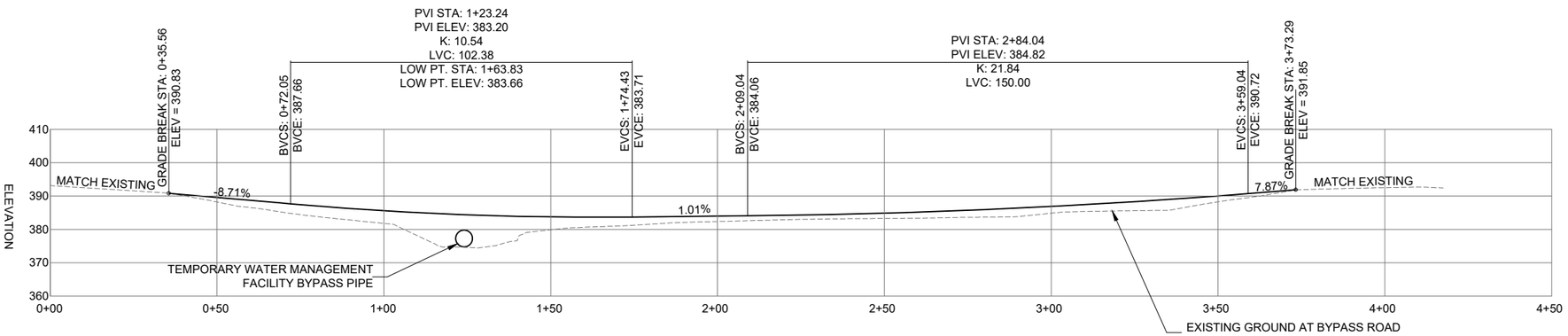
TEMPORARY BYPASS ROAD PLAN

10' 0' 10' 20'
SCALE IN FEET



TYPICAL SECTION BYPASS ROADWAY

NOT TO SCALE



TEMPORARY BYPASS ROAD PROFILE

10' 0' 10' 20'
SCALE IN FEET

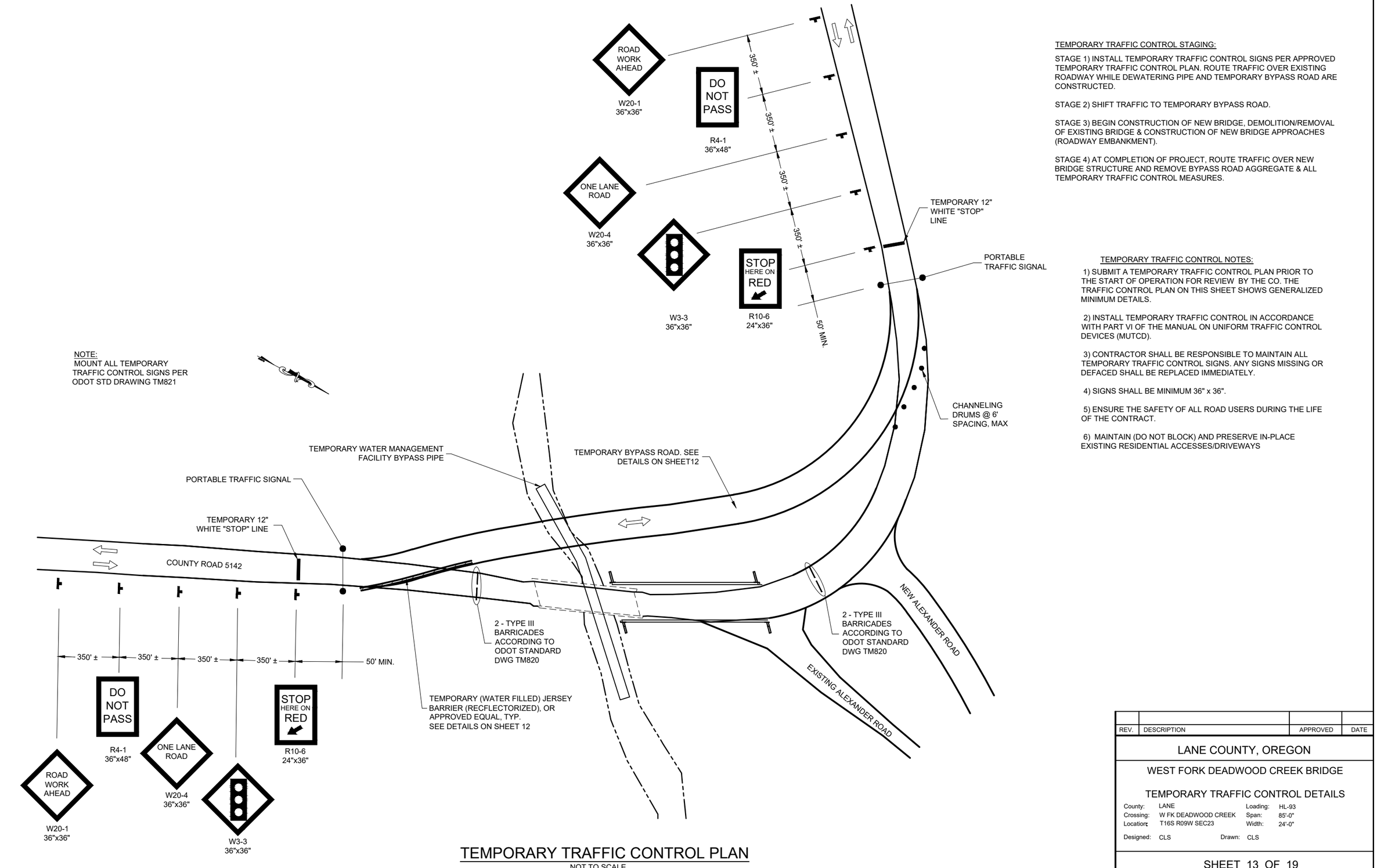
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

TEMPORARY BYPASS ROAD DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



NOTE:
MOUNT ALL TEMPORARY TRAFFIC CONTROL SIGNS PER ODOT STD DRAWING TM821

TEMPORARY TRAFFIC CONTROL PLAN

NOT TO SCALE

TEMPORARY TRAFFIC CONTROL STAGING:

STAGE 1) INSTALL TEMPORARY TRAFFIC CONTROL SIGNS PER APPROVED TEMPORARY TRAFFIC CONTROL PLAN. ROUTE TRAFFIC OVER EXISTING ROADWAY WHILE DEWATERING PIPE AND TEMPORARY BYPASS ROAD ARE CONSTRUCTED.

STAGE 2) SHIFT TRAFFIC TO TEMPORARY BYPASS ROAD.

STAGE 3) BEGIN CONSTRUCTION OF NEW BRIDGE, DEMOLITION/REMOVAL OF EXISTING BRIDGE & CONSTRUCTION OF NEW BRIDGE APPROACHES (ROADWAY EMBANKMENT).

STAGE 4) AT COMPLETION OF PROJECT, ROUTE TRAFFIC OVER NEW BRIDGE STRUCTURE AND REMOVE BYPASS ROAD AGGREGATE & ALL TEMPORARY TRAFFIC CONTROL MEASURES.

TEMPORARY TRAFFIC CONTROL NOTES:

1) SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN PRIOR TO THE START OF OPERATION FOR REVIEW BY THE CO. THE TRAFFIC CONTROL PLAN ON THIS SHEET SHOWS GENERALIZED MINIMUM DETAILS.

2) INSTALL TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

3) CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL TEMPORARY TRAFFIC CONTROL SIGNS. ANY SIGNS MISSING OR DEFACED SHALL BE REPLACED IMMEDIATELY.

4) SIGNS SHALL BE MINIMUM 36" x 36".

5) ENSURE THE SAFETY OF ALL ROAD USERS DURING THE LIFE OF THE CONTRACT.

6) MAINTAIN (DO NOT BLOCK) AND PRESERVE IN-PLACE EXISTING RESIDENTIAL ACCESSES/DRIVEWAYS

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

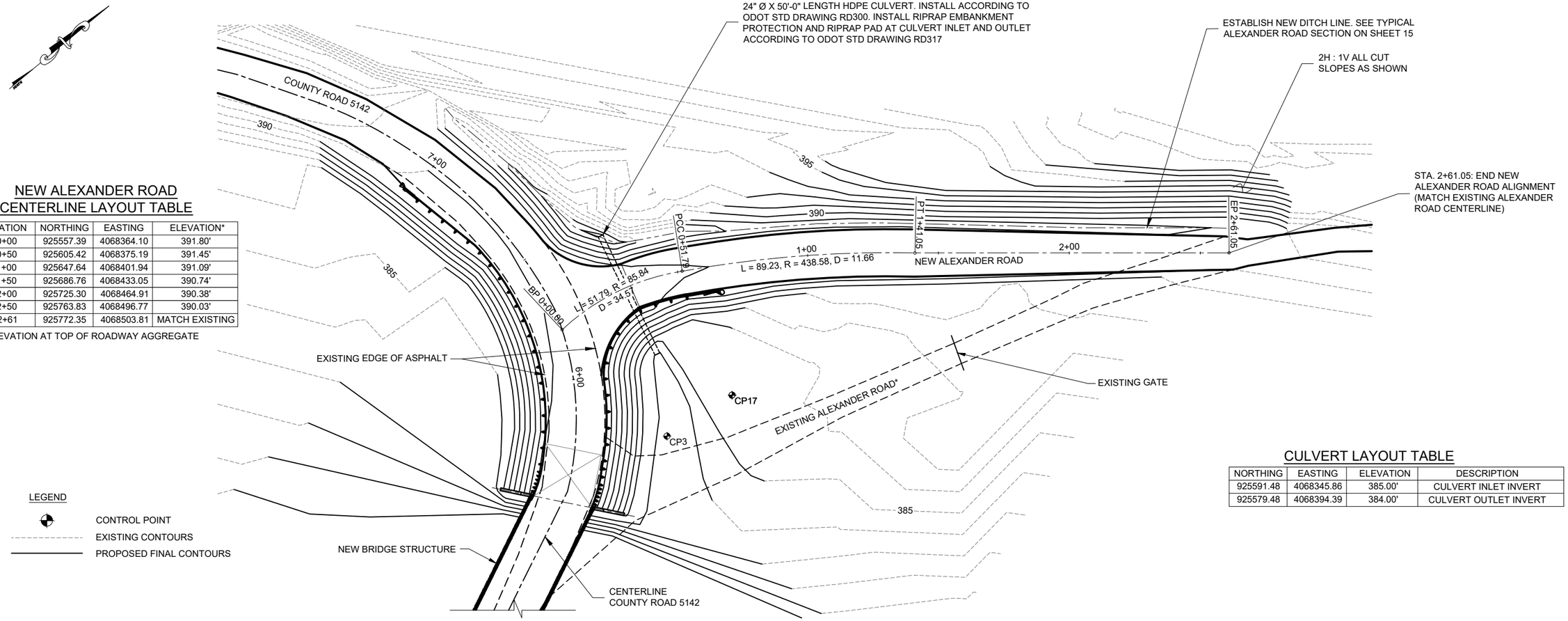
TEMPORARY TRAFFIC CONTROL DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

NEW ALEXANDER ROAD CENTERLINE LAYOUT TABLE

STATION	NORTHING	EASTING	ELEVATION*
0+00	925557.39	4068364.10	391.80'
0+50	925605.42	4068375.19	391.45'
1+00	925647.64	4068401.94	391.09'
1+50	925686.76	4068433.05	390.74'
2+00	925725.30	4068464.91	390.38'
2+50	925763.83	4068496.77	390.03'
2+61	925772.35	4068503.81	MATCH EXISTING

*ELEVATION AT TOP OF ROADWAY AGGREGATE



ALEXANDER ROAD PLAN

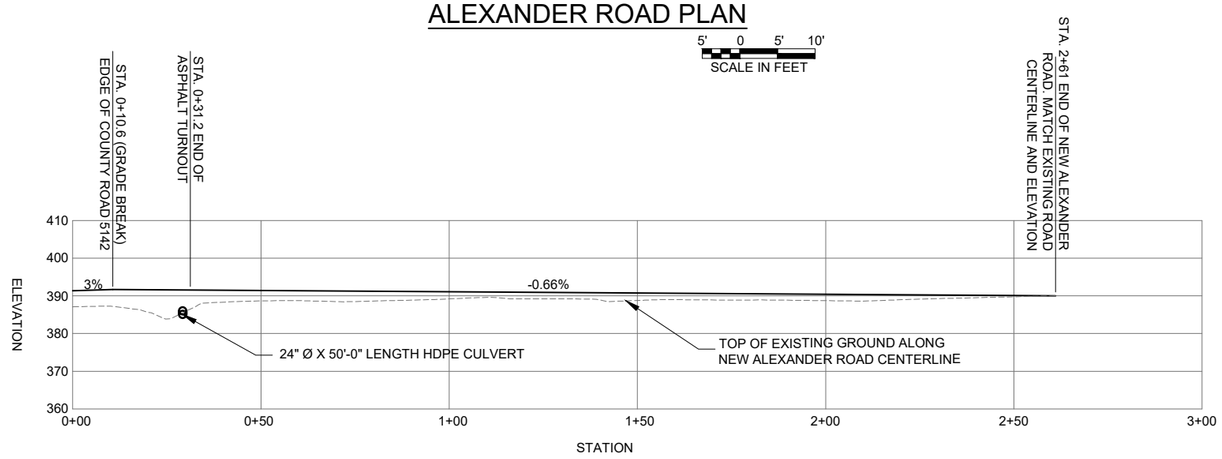
5' 0 5' 10'
SCALE IN FEET

LEGEND

- CONTROL POINT
- EXISTING CONTOURS
- PROPOSED FINAL CONTOURS

CULVERT LAYOUT TABLE

NORTHING	EASTING	ELEVATION	DESCRIPTION
925591.48	4068345.86	385.00'	CULVERT INLET INVERT
925579.48	4068394.39	384.00'	CULVERT OUTLET INVERT



ROAD CENTERLINE PROFILE

5' 0 5' 10'
SCALE IN FEET

REV.	DESCRIPTION	APPROVED	DATE

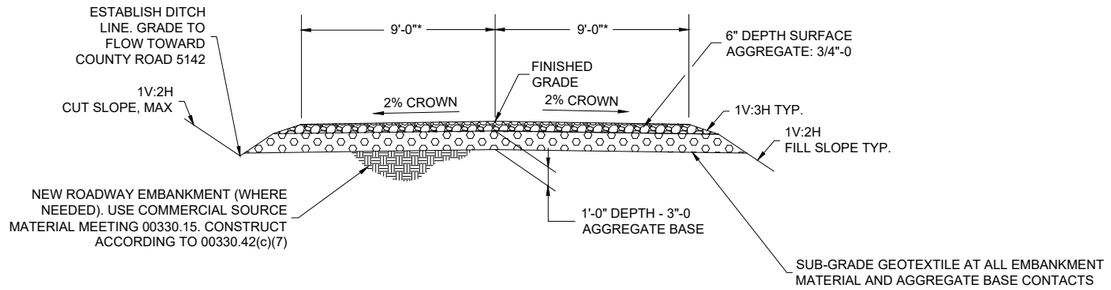
LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

ALEXANDER ROAD REALIGNMENT PLAN & PROFILE

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

*MAINTAIN 18'-0" ROADWAY WIDTH UNTIL STATION 1+50.00, THEN BEGIN A STRAIGHT-LINE TAPER (10:1 MINIMUM) OF ROADWAY WIDTH (EACH SIDE) TO MATCH EXISTING ROADWAY WIDTH OF ALEXANDER ROAD (APPROX. 10'-0") AT STATION 2+61.00



TYPICAL ALEXANDER ROAD AGGREGATE ROADWAY CROSS SECTION

NOT TO SCALE

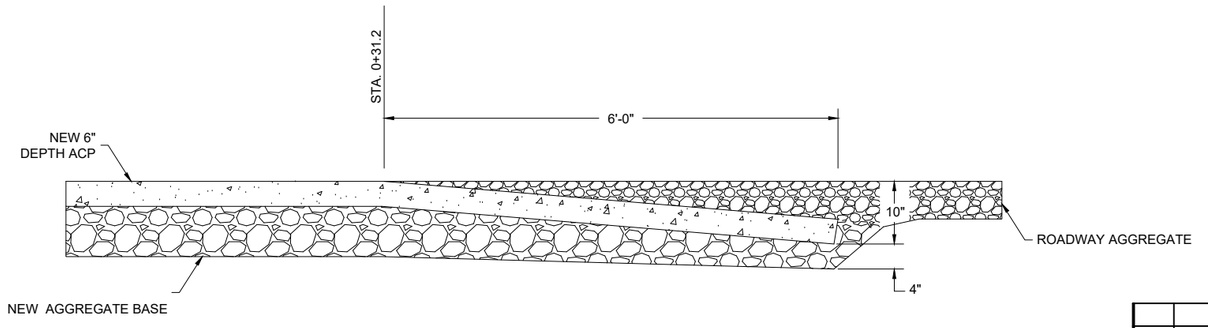
ACP TRANSITION NOTES:

1) INSTALL ACP PER ACP NOTES ON SHEET 10.

2) AFTER THE BASE LIFTS HAVE BEEN INSTALLED, BEGIN PAVING THE WEARING COURSE IN THE BOTTOM OF THE TRENCH TOWARDS COUNTY ROAD 5142.

3) IMMEDIATELY PLACE ROADWAY AGGREGATE BACK INTO THE TRENCH AND COMPACT THE AGGREGATE AND THE PROPOSED ACP AS THE ROLLER MOVES ONTO THE PROPOSED ASPHALT.

4) DO NOT COMPACT THE PROPOSED ASPHALT THAT IS ON THE SLOPE BEFORE PLACING THE BACKFILLED MATERIAL.



ASPHALT TRANSITION TYPICAL

NOT TO SCALE

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

ALEXANDER ROAD REALIGNMENT DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

WORK LIMIT EXTENTS

POINT	NORTHING	EASTING
WL-1	925264.7	4068528.7
WL-2	925248.4	4068492.1
WL-3	925338.3	4068403.5
WL-4	925440.7	4068358.0
WL-5	925489.6	4068204.4
WL-6	925533.3	4068185.0
WL-7	925591.1	4068279.3
WL-8	925598.0	4068322.2
WL-9	925698.3	4068375.0
WL-10	925809.3	4068496.4
WL-11	925789.8	4068531.2
WL-12	925667.2	4068489.1
WL-13	925577.5	4068529.0
WL-14	925485.6	4068498.5
WL-15	925451.7	4068513.5

CONSTRUCTION NOTES:

1) PERFORM CONSTRUCTION IN CONFORMANCE WITH OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2021 EXCEPT AS MODIFIED BY SPECIAL PROVISIONS AND CLAUSES IN THE CONTRACT DOCUMENT OR THE PLANS.
2) WATER FOR FIRE PREVENTION & SUPPRESSION REQUIREMENTS UNDER THE CONTRACT, AS WELL AS FOR USE WITH CONSTRUCTION ACTIVITIES, MAY BE OBTAINED FROM WEST FORK DEADWOOD CREEK. ALL WATER WITHDRAWALS FOR FIRE OR CONSTRUCTION SHALL ABIDE BY CURRENT NMFS WATER DRAFTING GUIDELINES. AT A MINIMUM, ANY WATER WITHDRAWAL IN ACTIVE STREAMS WITH FISH PRESENT SHALL HAVE SCREENED INTAKES WITH A MAXIMUM SCREEN OPENING OF 3/32 INCH, MAXIMUM INTAKE VELOCITY OF 0.4 FEET PER SECOND, AND WILL NOT REDUCE STREAM FLOW BY MORE THAN 10% BY VISUAL MEASURE. WATER WITHDRAWAL FROM ANY OTHER SOURCE SHALL BE APPROVED IN WRITING, PRIOR TO USE, BY THE CO.
3) PRIOR TO DIGGING, CALL "DIG SAFELY OREGON" 1-800-332-2344. LOCATING AND PROTECTION OF ALL UTILITIES (PUBLIC & PRIVATE) IS THE RESPONSIBILITY OF THE CONTRACTOR.
4) CONTRACTING OFFICER APPROVAL IS REQUIRED PRIOR TO THE PLACEMENT OF THE FOLLOWING ITEMS: BEDDING OR LEVELING COURSE OF ANY STRUCTURE, STREAM FLOW THROUGH TEMPORARY BYPASS OR OVER NEWLY CONSTRUCTED STREAMBED, PLACEMENT OF PRESTRESSED CONCRETE SLABS, CRUSHED AGGREGATE BASE AND ASPHALT.
5) REMOVE ALL CONSTRUCTION RELATED REFUSE FROM PROJECT AREA PRIOR TO FINAL ACCEPTANCE.
6) REPAIR ANY DAMAGE TO THE EXISTING ROAD SYSTEM DUE TO CONTRACTOR'S OPERATIONS, INSIDE OR OUTSIDE THE PROJECT BOUNDARY, AT THE CONTRACTOR'S EXPENSE, PRIOR TO FINAL ACCEPTANCE.
7) CONFINE CONSTRUCTION EQUIPMENT TO THE ROADWAY, UNLESS OTHERWISE SHOWN ON THE PLANS OR APPROVED BY THE CONTRACTING OFFICER.
8) STORING OF ALL EQUIPMENT ON COUNTY LANDS WILL BE AT THE CONTRACTOR'S RISK AND AT A LOCATION APPROVED BY THE CONTRACTING OFFICER.
9) DEPTHS OF SOIL, AGGREGATE, AND ASPHALT CONCRETE ARE GIVEN AS FINAL COMPACTED DEPTHS.
10) PLACE ALL RIPRAP BY MACHINE OR HAND; DO NOT SIDE CAST OR END DUMP.

CONSTRUCTION STAGING NOTES:

CONSTRUCTION SHALL BE STAGED AS FOLLOWS:

1) CONSTRUCT NEW ALEXANDER ROAD TO PROVIDE ACCESS TO PRIVATE LAND OWNER DURING ALL STAGES OF NEW BRIDGE CONSTRUCTION.
2) DE-WATER THE STREAM AND INSTALL ESC BMP'S PER SHEETS 17-19.
3) CONSTRUCT TEMPORARY BYPASS ROAD & TEMPORARY TRAFFIC CONTROL.
4) ROUTE TRAFFIC OVER TEMPORARY BYPASS ROAD.
5) BEGIN REMOVAL OF EXISTING BRIDGE AND CONSTRUCTION OF NEW BRIDGE STRUCTURE.
6) AFTER NEW BRIDGE AND ROADWAY CONSTRUCTION ARE COMPLETE, RE-ROUTE TRAFFIC OVER NEW BRIDGE AND REMOVE TEMPORARY TRAFFIC CONTROL.
7) DEWATERING PIPE TO BE ABANDONED IN PLACE.
8) REMOVE BYPASS ROAD MATERIAL BACK TO THE STOCKPILE AREA SHOWN ON THIS SHEET, AND RE-SHAPE THE NEW CHANNEL PER SHEET 6.

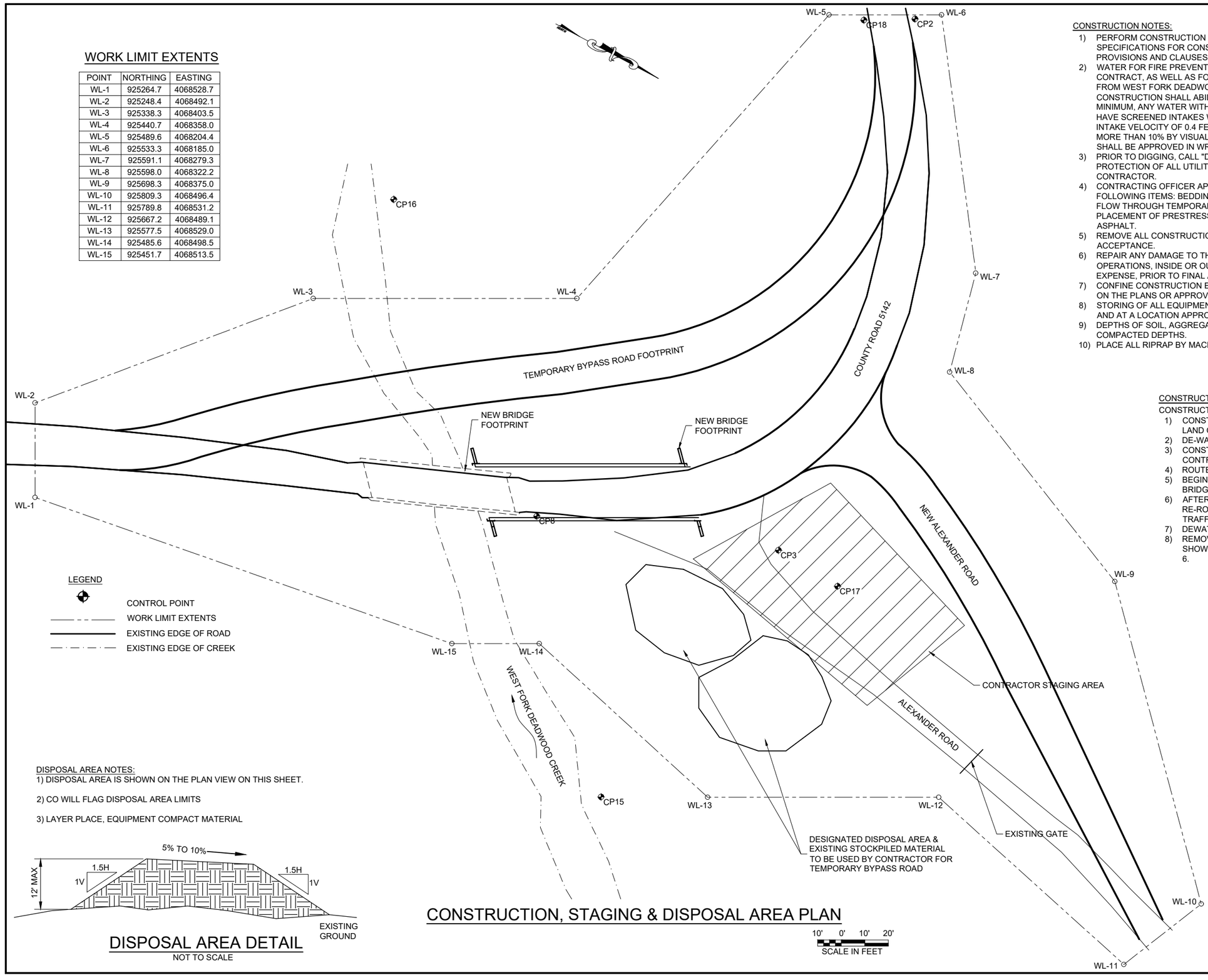
LEGEND

- CONTROL POINT
- WORK LIMIT EXTENTS
- EXISTING EDGE OF ROAD
- EXISTING EDGE OF CREEK

DISPOSAL AREA NOTES:

1) DISPOSAL AREA IS SHOWN ON THE PLAN VIEW ON THIS SHEET.
2) CO WILL FLAG DISPOSAL AREA LIMITS
3) LAYER PLACE, EQUIPMENT COMPACT MATERIAL

DISPOSAL AREA DETAIL
NOT TO SCALE



CONSTRUCTION, STAGING & DISPOSAL AREA PLAN

10' 0' 10' 20'
SCALE IN FEET

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE
CONSTRUCTION, STAGING &
DISPOSAL AREA DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS

CUT/FILL SUMMARY:

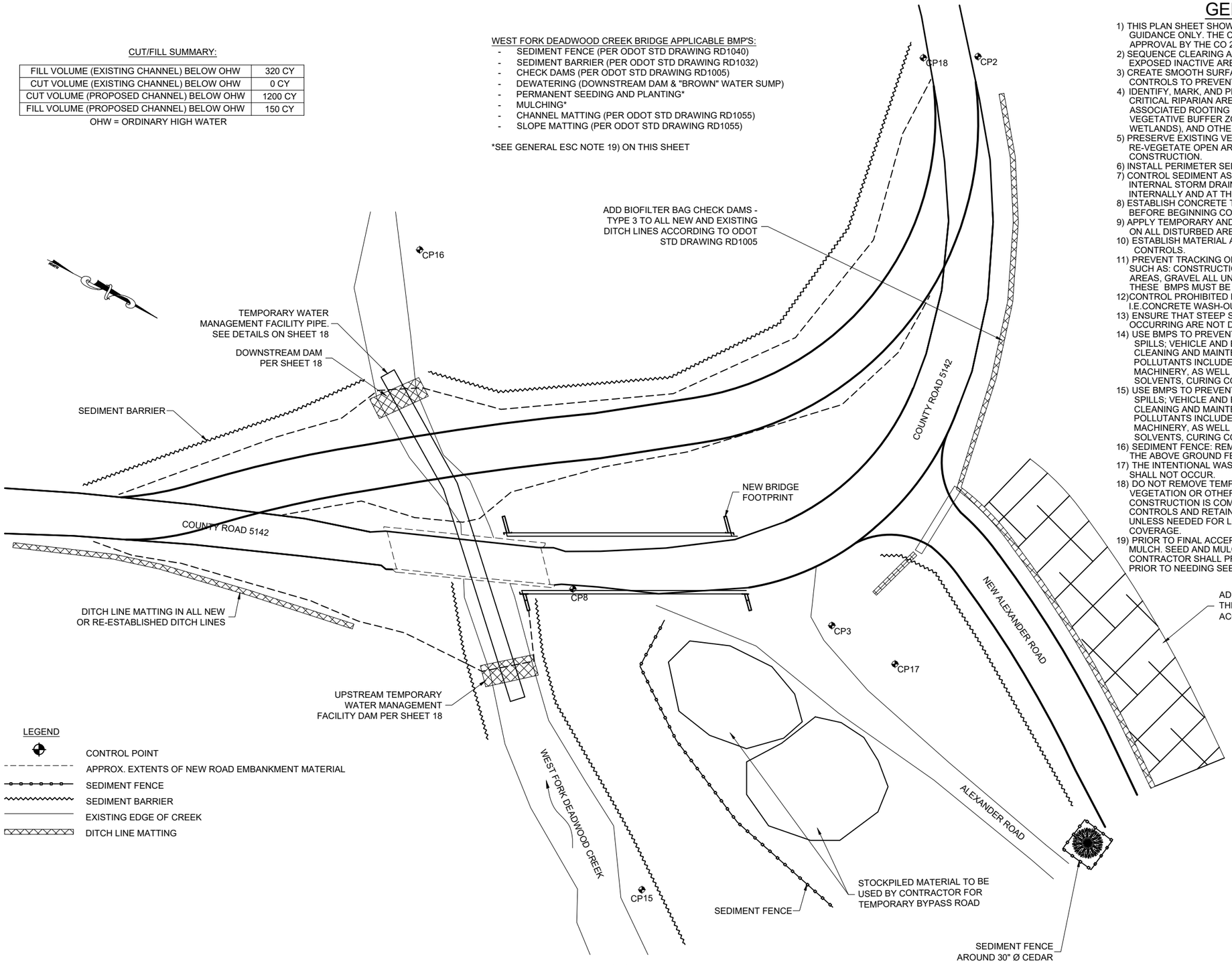
FILL VOLUME (EXISTING CHANNEL) BELOW OHW	320 CY
CUT VOLUME (EXISTING CHANNEL) BELOW OHW	0 CY
CUT VOLUME (PROPOSED CHANNEL) BELOW OHW	1200 CY
FILL VOLUME (PROPOSED CHANNEL) BELOW OHW	150 CY

OHW = ORDINARY HIGH WATER

WEST FORK DEADWOOD CREEK BRIDGE APPLICABLE BMP'S:

- SEDIMENT FENCE (PER ODOT STD DRAWING RD1040)
- SEDIMENT BARRIER (PER ODOT STD DRAWING RD1032)
- CHECK DAMS (PER ODOT STD DRAWING RD1005)
- DEWATERING (DOWNSTREAM DAM & "BROWN" WATER SUMP)
- PERMANENT SEEDING AND PLANTING*
- MULCHING*
- CHANNEL MATTING (PER ODOT STD DRAWING RD1055)
- SLOPE MATTING (PER ODOT STD DRAWING RD1055)

*SEE GENERAL ESC NOTE 19) ON THIS SHEET



LEGEND

- CONTROL POINT
- APPROX. EXTENTS OF NEW ROAD EMBANKMENT MATERIAL
- SEDIMENT FENCE
- SEDIMENT BARRIER
- EXISTING EDGE OF CREEK
- DITCH LINE MATTING

ESC PLAN

10' 0' 10' 20'
SCALE IN FEET

GENERAL ESC NOTES:

1) THIS PLAN SHEET SHOWS MINIMALLY ACCEPTABLE ESC ELEMENTS FOR GENERAL GUIDANCE ONLY. THE CONTRACTOR SHALL SUBMIT A ESC PLAN FOR REVIEW AND APPROVAL BY THE CO 2 WEEKS MINIMUM PRIOR TO CONSTRUCTION BEGINNING.
2) SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.
3) CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORM WATER FROM BYPASSING CONTROLS AND PONDING.
4) IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED..
5) PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION.
6) INSTALL PERIMETER SEDIMENT CONTROL PRIOR TO LAND DISTURBANCE.
7) CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY.
8) ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK.
9) APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES.
10) ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS.
11) PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES.
12) CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E.CONCRETE WASH-OUT.
13) ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED.
14) USE BMPS TO PREVENT OR MINIMIZE STORM WATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS.
15) USE BMPS TO PREVENT OR MINIMIZE STORM WATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS.
16) SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL.
17) THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS SHALL NOT OCCUR.
18) DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE.
19) PRIOR TO FINAL ACCEPTANCE, ALL DISTURBED AREAS SHALL RECEIVE SEED AND MULCH. SEED AND MULCH SHALL BE PROVIDED BY SIUSLAW WATERSHED COUNCIL. THE CONTRACTOR SHALL PROVIDE 14 DAYS (MIN.) NOTICE TO THE WATERSHED COUNCIL PRIOR TO NEEDING SEED AND MULCH.

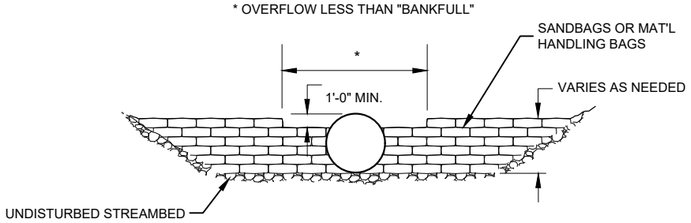
REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

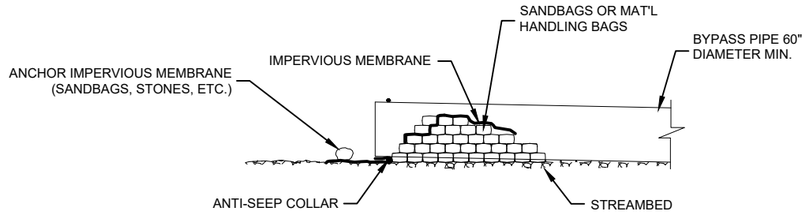
WEST FORK DEADWOOD CREEK BRIDGE

ESC PLAN

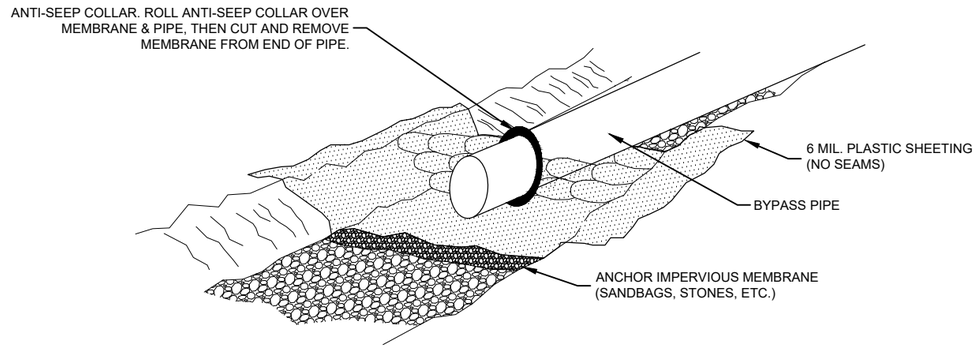
County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



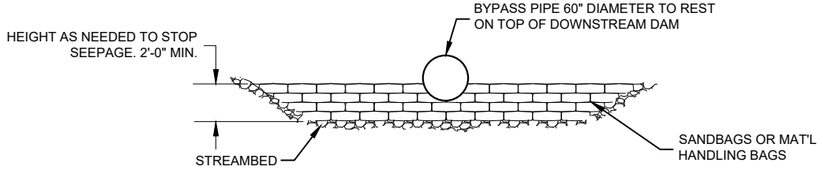
BYPASS DAM ELEVATION
NOT TO SCALE



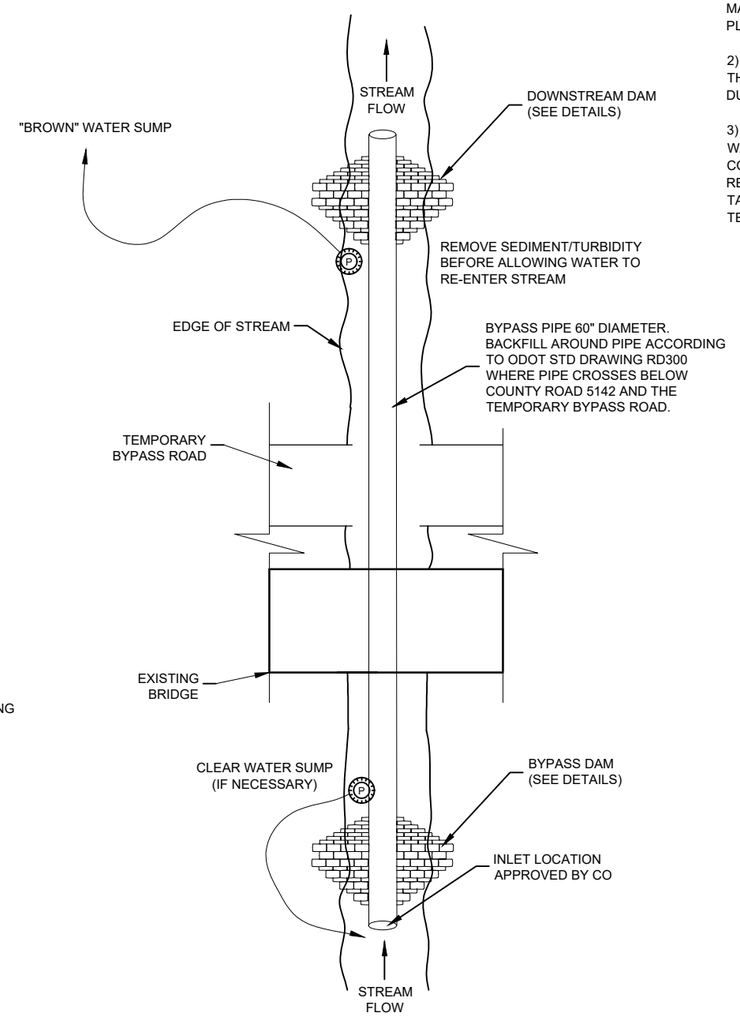
BYPASS DAM SECTION
NOT TO SCALE



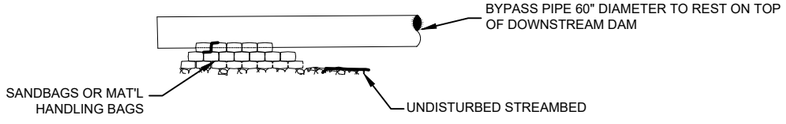
SANDBAG BYPASS DAM
NOT TO SCALE



DOWNSTREAM DAM ELEVATION
NOT TO SCALE



TEMPORARY WATER MANAGEMENT FACILITY TYPICAL PLAN VIEW
NOT TO SCALE



DOWNSTREAM DAM SECTION
NOT TO SCALE

DEWATERING NOTES:

1) THE TYPICAL TEMPORARY WATER MANAGEMENT FACILITY PLAN SHOWS THE MINIMUM ACCEPTABLE CRITERIA AND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND MAINTAINING THE TEMPORARY WATER MANAGEMENT FACILITY PLAN.

2) MAINTAINING CLEAN WATER DOWNSTREAM OF THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT, 24 HRS./DAY.

3) 14 DAYS (MINIMUM) PRIOR TO IMPLEMENTING THE TEMPORARY WATER MANAGEMENT FACILITY PLAN, THE CONTRACTOR SHALL COORDINATE WITH THE CO TO FACILITATE AQUATIC ORGANISM RESCUE (FISH SALVAGE). AQUATIC ORGANISM RESCUE SHALL TAKE PLACE IMMEDIATELY PRIOR TO IMPLEMENTATION OF THE TEMPORARY WATER MANAGEMENT FACILITY PLAN.

DEWATERING SEQUENCE

1) CONSTRUCT BYPASS DAM AND DOWNSTREAM DAM PER APPROVED TEMPORARY WATER MANAGEMENT FACILITY PLAN AND CONSTRUCTION SCHEDULE.

2) PLACE TEMPORARY WATER MANAGEMENT FACILITY PIPE THROUGH CONSTRUCTION AREA AS SHOWN ON THIS SHEET

3) CONSTRUCT TEMPORARY BYPASS ROAD OVER TEMPORARY WATER MANAGEMENT FACILITY PIPE.

4) REMOVE EXISTING CONCRETE BRIDGE/CONSTRUCT NEW CONCRETE BRIDGE.

5) CONSTRUCT PERMANENT ROADWAY EMBANKMENT OVER TEMPORARY WATER MANAGEMENT FACILITY PIPE FOR ACCESS TO NEW CONCRETE BRIDGE.

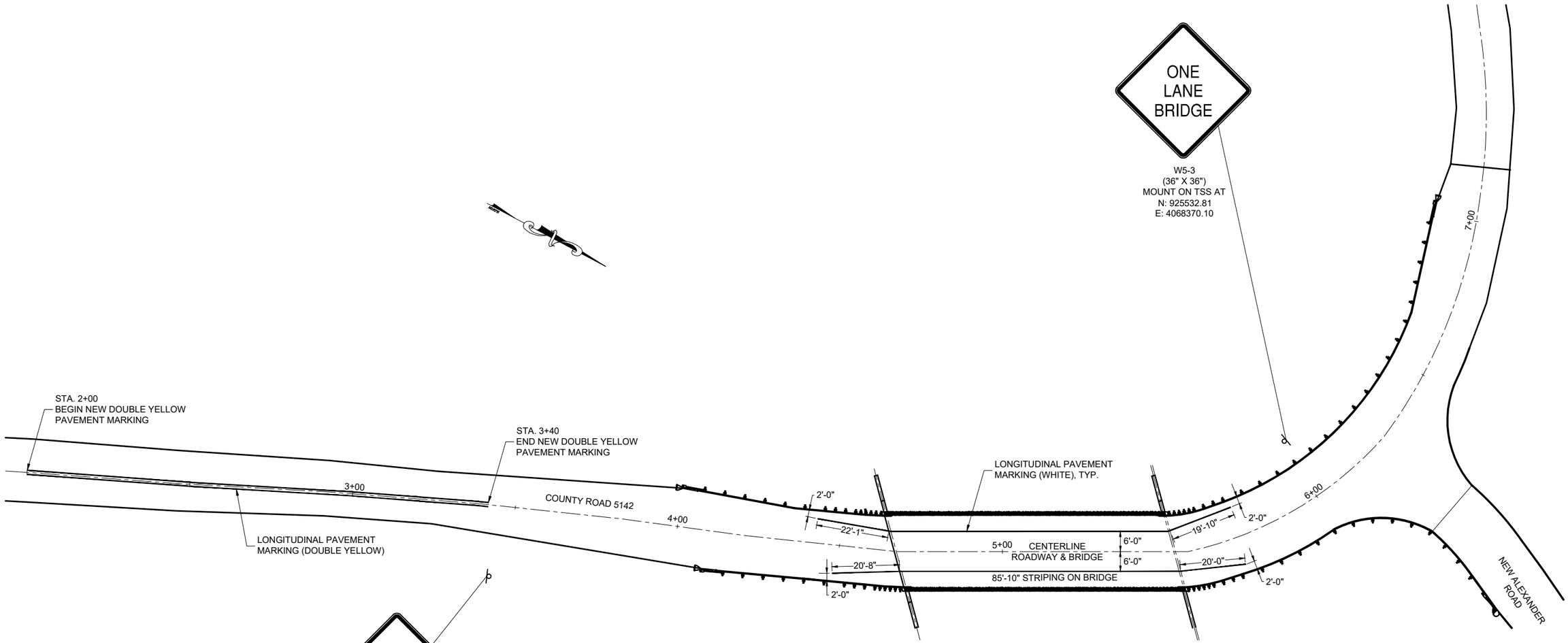
6) ABANDON TEMPORARY WATER MANAGEMENT FACILITY PIPE IN PLACE. (ABANDONED PIPE AND EXISTING STREAM CHANNEL TO BE COMPLETELY FILLED IN BY OTHERS VIA A SEPARATE WATERSHED RESTORATION CONTRACT).

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE
TEMPORARY WATER MANAGEMENT
FACILITY DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"
Designed:	CLS	Drawn:	CLS



STRIPING & SIGN PLAN

5' 0 5' 10'
SCALE IN FEET

REV.	DESCRIPTION	APPROVED	DATE

LANE COUNTY, OREGON

WEST FORK DEADWOOD CREEK BRIDGE

SIGNING & STRIPING DETAILS

County:	LANE	Loading:	HL-93
Crossing:	W FK DEADWOOD CREEK	Span:	85'-0"
Location:	T16S R09W SEC23	Width:	24'-0"

Designed: CLS Drawn: CLS

SPECIAL PROVISIONS FOR CONSTRUCTION

WEST FORK DEADWOOD CREEK BRIDGE

SPECIAL PROVISIONS FOR CONSTRUCTION

TABLE OF CONTENTS

PROFESSIONAL OF RECORD CERTIFICATION

Seal w/signature	I certify the Special Provision Section(s) listed below are applicable to the design for the subject project for West Fork Deadwood Creek Bridge. Modified Special Provisions were prepared by me or under my supervision. Section(s) 00210, 00220, 00222, 00223, 00224, 00226, 00227, 00230, 00236, 00237, 00245, 00280, 00290, 00305, 00310, 00330, 00350, 00390, 00405, 00445, 00501, 00510, 00520, 00530, 00540, 00545, 00550, 00582, 00587, 00640, 00730, 00744, 00810, 01030, 02001, 02320, 02415, 02690

FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

WORK TO BE DONE

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

1. Install temporary water management facility and erosion control measures.
2. Construct temporary roadbed and temporary traffic control.
3. Remove exting road bridge.
4. Construct new bridge, roadway and stream channel excavation.
5. Perform additional and Incidental Work as called for by the Specifications and Plans.

APPLICABLE SPECIFICATIONS

The Specifications that are applicable to the Work on this Project is the 2021 edition of the "Oregon Standard Specifications for Construction" Parts 00200 through 03000 and the "General Conditions for Construction for Lane County - 2021" which contain Part 00100 "General Conditions", as modified by these Special Provisions. All Sections in Part 00100 apply, whether or not modified or referenced in the Special Provisions.

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

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

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

- When an abrupt edge is created by excavation, protect traffic according to the "Excavation Abrupt Edge" and the "Typical Abrupt Edge Delineation" configurations shown on the Standard Drawings.

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

Traffic Lanes may be closed on County Road 5142 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 on County Road 5142 at all times.

SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS

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

- Install "ROAD WORK AHEAD" (W20-1-48) signs with a 36 by 24-inch "FINES DOUBLE" (R2-6aP) rider on County Road 5142, according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans except do not install the "FINES DOUBLE" rider on concrete barrier mounted signs.

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

- When the horizontal clearance for the Roadway is less than 19 feet, install horizontal clearance (CW21-12-48) signs, identifying the narrowest width of the Roadway. Locate these horizontal clearance signs as shown or as directed.

SECTION 00223 - WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES

Comply with Section 00223 of the Standard Specifications.

SECTION 00224 - TEMPORARY TRAFFIC CHANNELIZING DEVICES

Comply with Section 00224 of the Standard Specifications.

SECTION 00226 - TEMPORARY ROADSIDE BARRIERS AND IMPACT ATTENUATORS

Comply with Section 00226 of the Standard Specifications.

SECTION 00227 - TEMPORARY TRAFFIC SIGNALS AND ILLUMINATION

Comply with Section 00227 of the Standard Specifications.

SECTION 00230 – TEMPORARY ROADBED AND SURFACING

Section 00230, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00230.00 Scope - This Work consists of constructing, maintaining, and removing temporary Roadbeds and Surfacing, as shown or directed.

Materials

00230.10 Materials - Furnish Materials meeting the following requirements:

Aggregate.....00640.10
Geotextile 02320

00230.11 Earthwork - Furnish Materials required to construct the Roadbed according to Section 00330 and as shown.

Construction

00230.40 Earthwork - Construct temporary embankments and excavation outside the permanent Roadbed according to the applicable parts of Section 00330, except density testing to verify compaction will not be required. Compact the embankment material according to 00330.43(c). Ensure that Earthwork that remains in place as permanent Roadbed meets all requirements of Section 00330.

00230.41 Geotextile - Place subgrade geotextile according to Section 00350.

00230.42 Riprap - Place riprap according to the applicable parts of Section 00390.

00230.43 Aggregate - Place and compact Aggregate according to the applicable parts of Section 00640.

Finishing and Cleaning Up

00230.70 General - When temporary surfaces are no longer needed, do the following:

- Remove all related materials.
- Restore the area on which the temporary Surfacing and associated Roadbed occupied to the original ground contours, or as directed.
- Apply permanent seeding to the area occupied by the temporary Surfacing and associated Roadbed, if required, according to Section 01030.
- Dispose of excess materials according to 00330.41(a)(4).

Measurement

00230.80 Measurement - No measurement of quantities will be made for Work performed under this Section.

Permanent seeding will be measured according to 01030.80.

Payment

00230.90 Payment - The accepted quantities of Work performed under this Section, except for permanent seeding Work, will be paid for at the Contract lump sum amount for the item "Construct and Remove Temporary Access Road".

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

Permanent seeding will be paid for according to 01030.90.

SECTION 00236 - AGENCY PROVIDED DISPOSAL SITES

Section 00236, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00236.00 Scope - This Work consists of utilizing Agency provided prospective or mandatory disposal sites as the Contractor elects or as required for the construction of the Contract.

00236.02 Mandatory Disposal Site Specific Requirements - The following mandatory disposal site for excess native waste material, as long as the material does not contain hazardous substances, is to be used on this Project:

(a) Mandatory Disposal Site, West Fork Deadwood Northeast:

- **Location** – Disposal Site is located at the bridge project location to the Northeast side of the proposed bridge structure.
- **Access** – Adjacent to bridge project location from Alexander Road
- **Disposal Quantity Limit** – 1500 cubic yards
- **Available Area for Material Disposal of Waste Material:**
  - **Existing** – 0.3 acres

If material contains hazardous substances do not dispose of the material in the mandatory disposal site. Dispose of materials that contain hazardous substances according to Section 00290.20.

00236.03 Laws - Conduct operations within the disposal site according to all applicable State, county, and federal laws including mining and fire laws. Provide, operate, and maintain wildland firefighting equipment appropriate for the current fire levels on-site at all times during all disposal site operations.

00236.06 Site Occupancy - Coordinate disposal site occupancy with the Contracting Officer. Do not operate beyond the disposal site Project boundary or in no Work areas as staked unless otherwise directed, in writing.

00236.07 Site Development - If proposing changes to a disposal site development plan, submit a site development plan as an unstamped Working Drawing according to 00150.35. Do not begin Work in a disposal site until the site development plan has been approved, in writing, by the Contracting Officer.

Develop a site-specific Erosion and Sediment Control Plan for each disposal site according to 00280.04 and submit it to the Contracting Officer at or before the pre-work meeting. Construct stormwater control berm(s) as shown and as needed to control runoff. Do not allow any materials, including sediments, or Aggregate to enter into waterways or Wetlands.

Develop a site-specific Pollution Control Plan for each disposal site according to 00290.30(b), and submit it to the Contracting Officer at or before the pre-work meeting. Include the following requirements in the Pollution Control Plan:

- Do not discharge waste or by-product if it contains any substance in concentrations that could contaminate Soils or result in harm to fish, wildlife, or water sources.
- Store all potentially hazardous materials and solid waste in a manner that prevents seepage into the ground or groundwater sources. Lined sumps or pits are allowable options for storage. If pits

or sumps are used, construct adequate berms or provide other measures to prevent breaching of the pits or sumps.

- For Materials capable of causing water pollution if discharged, locate storage facilities in an area that prevents spillage into waterways or Wetlands.

Construction

00236.40 General - All vehicles and Equipment, prior to entering the site for the first time, and each subsequent time if the vehicle has left the Roadway outside the construction Project limits, shall be steam cleaned of all debris (soil, dirt, plant parts, and vegetative matter) before being brought back to the site. Notify the Contracting Officer before moving each vehicle onto the site. Certify, in writing, that the Equipment has been steam cleaned.

00236.41 Restrictions and Protection of Resources - Comply with the following for all operations within the disposal site:

- Protect cultural resources according to 00290.50.
- Protect migratory birds according to 00290.36(a).
- Limit Equipment operation activities and disposal activities to the hours of 7:00 a.m. to 7:00 p.m., Monday through Saturday unless modifications to these hours are requested in writing and approved by the Engineer. Do not conduct any operation on Sundays or legal holidays, as defined in ORS 279C.540.

00236.44 Site Operations - The following apply during disposal site operations:

- Construct slopes, benches, top, and floor of the disposal area as shown.
- Track-walk all slopes with a grade at or flatter than 1V:1.5H so that track impressions run parallel to slope contours. Maintain at least 1 3/8-inch tall track grousers.
- Place only material that is identified as acceptable for this site in the disposal area as shown. Maintain a minimum 10-foot wide buffer strip between the toe of the disposal area and the property boundary. Smooth and contour the disposal area to form side slopes no steeper than 1V:2H.

00236.45 Site Clean-up - The following apply at the completion of operations:

- Leave no loose material on the site exceeding 1 foot diameter, except as noted below.

00236.47 Site Vacating - Before vacating the disposal site the following apply:

- Remove all structures, noncombustible debris, and Equipment from the disposal site, even if it was pre-existing, except for grass and small shrubs incorporated into the overburden.
- Remove solid waste and hazardous material from the site and dispose of properly. Provide documentary evidence of proper disposal and verify the amount of material removed.
- If a spill or dumping has occurred, or is suspected to have occurred, the Contractor shall clean up contaminated materials according to Section 00290. After clean up, the Contracting Officer may, sample and test materials at the spill or dumping locations to verify the cleanup has been completed. If the Contracting Officer's verification testing demonstrates remaining contamination, the Contractor shall perform additional clean up until the requirements of Section 00290 including 00290.20(g) are met.
- Attend a post-work meeting at the disposal site to evaluate disposal site rehabilitation work with the Contracting Officer and attendees listed under 00236.05.

Measurement

00236.80 Measurement - No measurement of quantities will be made for Work performed under this Section.

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Payment

00236.90 Payment - No separate or additional payment will be made for Work performed under this Section.

SECTION 00237 - AGENCY-PROVIDED STAGING AREAS

Section 00237, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00237.00 Scope - This Work consists of utilizing Agency provided prospective or mandatory staging areas as the Contractor elects or as required for the construction of the Contract.

Locate staging areas in previously improved areas that have been paved or compacted and graveled, unless otherwise shown or approved.

00237.02 Mandatory Staging Areas - No staging areas may be used on this Project, including non-Agency sites, except for the following mandatory staging area:

(a) Mandatory Staging Area, West Fork Deadwood Northeast.

- **Location** – Lane County Road 5142 – MP 2.4
- **Access** - Adjacent to bridge project location from Alexander Road
- **Available Area** - 0.2 Acres

Do not stage Equipment, store Materials, or operate beyond the staging area boundary shown or delineated unless otherwise directed in writing.

Measurement

00237.80 Measurement - No measurement of quantities will be made for Work performed under this Section.

Payment

00237.90 Payment - No separate or additional payment will be made for Work performed under this Section.

SECTION 00245 - TEMPORARY WATER MANAGEMENT

Section 00245, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00245.00 Scope - This Work consists of furnishing, installing, operating, maintaining, and removing temporary water management facilities in regulated Work areas.

00245.01 Abbreviations:

TWM - Temporary Water Management
TWMF - Temporary Water Management Facility
TWMP - Temporary Water Management Plan

00245.02 Definitions:

Temporary Water Management Facility - A TWMF that conveys water around or through Work areas, removes water from Work areas, and treats and discharges water at locations outside Work areas.

00245.03 Temporary Water Management Plan - The Agency TWMP is a concept plan. 28 Calendar Days before beginning Work in regulated Work areas, submit Working Drawings of a Contractor-developed TWMP, according to 00150.35, based on either the Agency's concept plan or an independent plan that meets water quality and environmental guideline requirements and does not negatively affect neighboring properties or water rights.

Include the following minimum information in the TWMP:

The sequence and schedule for dewatering and re-watering. This sequence and schedule must include when to contact the Engineer prior to dewatering and re-watering.

- How the Work area is isolated from the active stream flow upstream, through, and downstream.
- How the stream flow is routed and conveyed around or through the isolated Work area.
- How fish passage is provided around the Work area, if required.
- How the isolated Work area is de-watered.
- How the pumped water is treated, if necessary, before it is discharged downstream.
- Description of all construction stages, including appropriate contact points for each stage.
- A list of on-site backup Materials and Equipment.
- Provide the name of the TWM Subcontractor (if applicable) and Contractor's superintendent, and their 24-hour contact phone number 10 Days before the pre-Work meeting. If changes in the appointment of the TWM Subcontractor or Contractor's superintendent occur during the term of the Contract, provide written notice to the Engineer within 5 Calendar Days of the change.
- Calculations of water withdraw pump's capacity.
- Details of the proposed water intake screen used to isolate in-water Work area and how it meets the requirements of 00290.34(c)(3).

Any change to the TWMP during construction requires approval prior to implementation.

Obtain the Engineer's written approval before beginning Work in in-water Work areas.

00245.04 Pre-Work Meeting - Before beginning any TWM Work, attend a pre-work meeting at the Project Site with the Engineer no more than 8 Calendar Days prior to implementation of TWM. Required meeting attendees include:

- Engineer
- Contractor
- TWM Subcontractor (if applicable)
- Agency Environmental Coordinator or their appointed representative

The pre-Work meeting agenda typically includes the method of TWM, the TWMP, fish salvage plan and strategy, describe environmental risks, turbidity monitoring, energy dissipation, dewatering and re-watering plan and strategy, site clean-up expectations, and the circumstances under which contacting the Engineer is required.

Materials

00245.10 Materials - Furnish Materials meeting the following requirements:

Pipe 00445.11
Plastic Sheeting..... 00280.14(a)
Sandbags ..... 00280.15(a)
Water Intake Screening.....00290.34(c)

Furnish pumps that are:

Self-priming.

- Equipped with a variable speed governor.
- Equipped with a power source.
- Able to pump water that contains soft and hard solid.

Construction

00245.40 Fish Removal - Qualified Agency, ODFW, or Lane County consultant biologists will remove fish and other aquatic organisms from the isolation Work areas. Coordinate fish removal with the Engineer at least 28 Calendar Days before beginning Work in regulated Work areas. Allow access into the isolation Work areas before, during and after installation of the TWMF to perform the specified tasks as follows:

Before Installation of TWMF - Before any in-water Work, including installing TWMF, qualified personnel will remove fish and other native aquatic organisms from within the proposed isolated Work area.

After Installation of TWMF - After installing TWMF and the reduction of the water level through the isolated Work area has begun, qualified personnel will remove all fish and aquatic organisms as the water level is reduced. Do not completely de-water the isolation area until all fish and aquatic organisms have been removed.

00245.41 Installation - During installation of the temporary water management facility, maintain a downstream water flow rate of at least 50 percent of the upstream water flow rate.

00245.42 Operation - Operate temporary water management as follows:

Protect fish and fish habitat according to 00290.34.

- Maintain and control water flow downstream of the isolated Work area for the duration of the diversion to prevent downstream de-watering.
- Clean, maintain and repair water intake screening to ensure adequate flows and protection of aquatic organisms.
- In the event of containment failure immediately notify the Engineer so arrangements can be made to remove fish and aquatic organisms from the isolation Work areas prior to the continuation of Work within the ordinary high water limits.

Maintenance

00245.60 Maintenance - Monitor water turbidity according to 00290.30(a)(8).

Finishing and Cleaning Up

00245.70 Removal - Maintain stream flow through the TWMF for the entirety of the project and abandon the TWMF in place after construction is complete.

Measurement

00245.80 Measurement - No measurement of quantities will be made for temporary water management facilities.

Payment

00245.90 Payment - The accepted quantities of temporary water management facilities will be paid for at the Contract lump sum amount for the item "Temporary Water Management Facility".

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.

No separate or additional payment will be made for TWMP, maintaining, operating, monitoring, moving, or removing the facility.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

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

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

00280.02 Definitions -

Replace the sentence that begins "**Temporary Stabilization"** with the following sentence:

Temporary Stabilization - Covering soil or other measures to prevent erosion until permanent stabilization measures are in place and established.

00280.04 Erosion and Sediment Control Plan on Agency Controlled Lands - Replace the bullets with the following bullets:

- When using the Agency's ESCP with only modifications required to keep the ESCP current during construction, submit a written notification indicating the Agency's ESCP is used without modifications prior to construction.
  - Prior to beginning construction, edit the ESCP to provide a list of all contractors working on the site.
  - Prior to beginning construction edit the ESCP cover sheet to list all personnel by name and position who are responsible for the installation and maintenance of stormwater control measures including their individual responsibilities and certifications. Keep list current for the duration of the project.
- When using a Contractor modified version of the Agency's ESCP, include the following:
  - Proposed ESCP showing all ESC Work, and quantities of Work.
  - An EMP that addresses pollution prevention and control of potentially contaminated sites or Materials when pollutants are known to be present.
  - Implementation schedules for the ESCP
  - Plans for each phase of Contractor's Work
  - Names and positions of all personnel engaged in construction activities.
  - Names and positions of all personnel responsible for the installation and maintenance of stormwater control measures.

00280.06 Erosion and Sediment Control Manager - Delete this subsection.

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

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

If a significant noncompliance or serious water quality issue occurs that could endanger health or the environment, verbally report it to the Contracting Officer within 24 hours.

00280.63(c) Paved Areas - Replace this subsection, except for the subsection number and title, with the following subsection:

Keep all paved areas clean for the duration of the Project. Use cleaning methods that do not transport sediment-laden water to receiving streams. Remove sediment that has been tracked-out from the Project Site by the end of the same business day. If the sediment track-out occurs on a non-business day, remove the sediment by the end of the next business day.

Add the following subsection:

00280.64 Corrective Actions - Initiate corrective actions when the following noncompliance occur:

- A discharge from the Project Site causes an exceedance of applicable water quality standards,
- Sediment or turbidity are visible in discharge from the Project site in conveyance system leading to surface water or at the discharge point within surface water,
- BMP needs repair or replacement, beyond routine maintenance,
- BMP shown on ESCP was not installed or installed incorrectly,
- A prohibited discharge has occurred,
- When required by DEQ,
- As directed by the Contracting Officer

(a) Corrective Action Timelines - Immediately initiate corrective actions to address noncompliance, including removing discharged material and repairing or replacing BMPs that do not provide Effective Functioning according to the following:

- Mobilize resources to clean contaminated surfaces and address cause of discharge,
- Complete corrective actions by the close of the next business day for discharge clean-up and to restore Effective Functioning of installed BMPs,
- For more significant noncompliance of which require additional, replacement or modified BMPs to restore Effective Functioning, complete corrective action(s) no later than 24 hours after the discovery
    - If completion of corrective action is not feasible within 24 hours, document the reasons why the time line cannot be met.
    - Provide a schedule for clean-up and corrective actions that restores Effective Functioning as soon as feasible. If schedule cannot be met document the reasons for the delay.
    - Provide all corrective action documentation and photographs to Agency within 24 hours of completion of corrective actions.

00280.90 Payment - Replace this subsection, except for the subsection number and title, with the following:

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

Pay Item	Unit of Measurement

(a) Erosion Control ..... Lump Sum

Item (a) includes:

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

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

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

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.

No separate or additional payment will be made for:

- constructing and removing temporary slope berms
- erosion control for Work outside the construction limits including but not limited to limited to, Borrow pits, haul roads, disposal sites, and Equipment storage sites
- modifications or additions to the ESCP.

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

SECTION 00290 - ENVIRONMENTAL PROTECTION

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

00290.30(a)(7) Water Quality:

- Do not discharge contaminated or sediment-laden water, including drilling fluids and waste, or water contained within a work area isolation, directly into any waters of the State or U.S. until it has been satisfactorily treated (using a best management practice such as a filter, settlement pond, bio-bag, dirt-bag, or pumping to a vegetated upland location).
- Do not use permanent stormwater quality treatment facilities to treat construction runoff unless prescribed by an ESCP approved under Section 00280.
- If construction discharge water is released using an outfall or diffuser port, do not exceed velocities more than 4 feet per second, and do not exceed an aperture size of 1 inch.
- Do not use explosives under water.
- Implement containment measures adequate to prevent pollutants or construction and demolition materials, such as waste spoils, fuel or petroleum products, concrete cure water, silt, welding slag and grindings, concrete saw cutting by-products and sandblasting abrasives, from entering waters of the State or U.S.
- Implement containment measures adequate to prevent flowing stream water from coming into contact with concrete or grout within the first 24 hours after placement.
- Do not end-dump riprap into the waters of the State or U.S. Place riprap from above the ordinary high water line.
- Cease Project operations under high flow conditions that may result in inundation of the Project area, except for efforts to avoid or minimize resource damage.
- The Contracting Officer retains the authority to temporarily halt or modify the Work in case of excessive turbidity or damage to natural resources.
- If Work activities violate permit conditions or any requirement of this subsection, stop all in-water work activities and notify the Contracting Officer.
- Do not cause a visible sediment plume in waters of the State or U.S.

00290.34 Protection of Fish and Fish Habitat - Add the following paragraph:

Meet with the Agency Biologist, Resource Representative, Engineer, and inspector on site, before moving equipment on-site or beginning any work, to ensure that all parties understand the locations of sensitive biological sites and the measures that are required to be taken to protect them.

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

The regulated work area is the area at or below 378.6 feet elevation and between stations 1+40 and 3+10 of West Fork Deadwood Creek.

Perform work within the regulated work area only during the in-water work period. The in-water work period is from July 1, 2024 to September 15, 2024.

Submit a schedule to complete all work within the regulated work area within the in-water work period at least 10 days prior to the preconstruction conference.

(2) Work Area Isolation - Provide work isolation according to Section 00245. Provide safe passage around or through the isolated work area for adult and juvenile migratory fish unless passage did not previously exist.

00290.90 Payment - Add the following paragraph(s) to the end of this subsection:

No separate or additional payment will be made for the work containment plan.

SECTION 00305 - CONSTRUCTION SURVEY WORK

Comply with Section 00305 of the Standard Specifications.

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

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

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

SECTION 00330 - EARTHWORK

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

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

Perform all earthwork under this Section on the embankment basis.

00330.14 Selected Granular Backfill - Delete the sentence that begins “Reclaimed glass meeting the requirements of Section 02695…”.

00330.15 Selected Stone Backfill - Delete the sentence that begins “Reclaimed glass meeting the requirements of Section 02695…”.

SECTION 00350 - GEOSYNTHETIC INSTALLATION

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

00350.01 Definitions - Replace the sentence that begins "**Embankment Geotextile** - For installation…" with the following sentence:

Embankment Geotextile - Embankment geotextile is used as a reinforcement within embankments and as a separation and reinforcement under embankments.

Replace the bullet that begins "**Nonwoven Geotextile** - A textile…" with the following bullet:

- **Nonwoven Geotextile** - A textile produced by bonding or interlocking of fibers by mechanical, heat or chemical means.

Replace the sentence that begins "**Riprap Geotextile** - For installation…" with the following sentence:

Riprap Geotextile - Riprap geotextile is used as a filter and separator behind or beneath riprap, Buttresses, inlays, shear keys and erosion control applications.

Replace the sentence that begins "**Subgrade Geotextile** - For installation…" with the following sentence:

Subgrade Geotextile - Subgrade geotextile is used as a separator and reinforcement on Subgrades and in other material separation applications.

00350.41(f)(5) Geotextile Placement - Replace the paragraph that begins "Slit wrinkles or folds …" with the following paragraph:

Slit wrinkles or folds exceeding 1 inch and lay flat. Shingle-lap not more than 6 inches in the direction of the paving. Broom or squeegee to smooth the geotextile and pneumatic roll to maximize geotextile contact with the Pavement surface. Additional hand-placed sealant material may be required at laps as determined.

SECTION 00390 - RIPRAP PROTECTION

Comply with Section 00390 of the Standard Specifications modified as follows:

00390.41 Riprap Geotextile - Replace this subsection, except for the subsection number and title, with the following:

Install riprap geotextile according to the requirements of Section 00350 and as shown or directed.

SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL

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

00405.90 Payment - Add the following paragraph to the end of this subsection:

When the Contract Schedule of Items does not indicate payment for Work performed under this Section, no separate or additional payment will be made. Payment will be included in payment made for the appropriate items under which this Work is required.

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

Comply with Section 00445 of the Standard Specifications.

SECTION 00501 - BRIDGE REMOVAL

Comply with Section 00501 of the Standard Specifications modified as follows:

00501.00 Scope - Add the following paragraph(s) to the end of this subsection:

Remove the existing bridge over West Fork Deadwood Creek.

SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL

Comply with Section 00510 of the Standard Specifications modified as follows:

00510.80(b)(1) Lump Sum - Add the following to the end of this subsection:

The estimated quantity of structure excavation is:

Location	Structure Excavation (Cubic Yard)
Abutment 2	28

00510.80(d)(1) Lump Sum - Add the following to the end of this subsection:

The estimated quantities of granular wall backfill and granular structure backfill are:

Location	Granular Wall Backfill (Cubic Yard)	Granular Structure Backfill (Cubic Yard)
Abutment 1		24
Abutment 2		24
24” HDPE Culvert		26

SECTION 00520 - DRIVEN PILES

Delete Section 00520 of the Standard Specifications and replace with the following:

SECTION 00520 – DRILLED IN PIPE PILES

Description

00520.00 Scope - This work consists of furnishing and drilling concrete filled steel pipe piles. This work also includes furnishing all labor, equipment, materials, and supplies for drilling, advancing pipe, furnishing and placing concrete, and furnishing and placing reinforcing steel for concrete-filled steel pipe piles. Drill holes for placement of pipe piles as shown on plans using standard well drilling equipment with an under-reamer bit style for advancing pipe piling.

Materials

00520.10 Materials - Furnish Materials meeting the following requirements:

Steel Piles 02520.10
Steel Pile Protective Coating..... 00594
Steel Reinforcement for Concrete 00530

00520.11 Pile Lengths - Furnish pipe piles in accordance with the itemized order list shown on the plans. All pipe furnished and paid for is the property of the county. Furnish pipe lengths less than or equal to 25 feet long as one piece. For pile lengths longer than 25 feet, welded field splices will be allowed.

If the contractor's method of operation requires longer piles, furnish additional pile lengths at no additional expense to the county.

Equipment

00520.20 Equipment for Drilling Pipe Piles – Provide pile drilling Equipment meeting the following requirements:

(a) Pile Drilling Equipment - Furnish well-drilling equipment with an under-reamer style bit capable of advancing Round Pipe Piles HSS 10.75 x 0.375 (10.75" Outer Diameter x 0.375" Nominal Wall Thickness), conforming to ASTM A252 Grade 3, into the material shown in drill logs on the plans. Material shown in drill logs is representative of the site, but natural obstructions not shown in the drill logs may be encountered.

(b) Approval of Pile-Drilling Equipment and Operator:

(1) **Drilling Operator** - Perform drilling operations with the specified equipment by or under the direct supervision of an equipment operator with a minimum of five (5) years of demonstrated successful past performance in similar work.

(2) **Submittals** - Submit information regarding the manufacturer and model of the well-drilling equipment to be used in drilling operations, the qualifications and experience of the operator, and an installation plan a minimum of 14 calendar days in advance of operations

Construction

00520.40 Preparation and Drilling - Load, transport, unload, store, and handle steel pipes for piles so the metal is kept clean and free from damage. Do not use pipes that exceed the camber and sweep permitted by allowable mill tolerance.

Make the heads of all piles plane and perpendicular to the longitudinal axis of the pile. Coordinate pile installation to prevent damage to other parts of the completed work.

Install piles to within 1 inch laterally of plan location at cutoff elevation; provide a minimum of 9 inches cover to any cap face. Install piles and pipes so that the axial alignment (batter) is within 1/4 inch per foot, along the longitudinal axis, of the required alignment. The CO may stop drilling operation to check the pile alignment. Check alignment of piles that cannot be internally inspected after installation before the last 5 feet are drilled. Do not pull laterally on piles or splice to correct misalignment. Do not splice a properly aligned section on a misaligned pipe.

When practicable, drill and install all pipes in each substructure unit before placing concrete in any of the pipes. Do not drill pile pipes within 15 feet of any concrete-filled pipe pile until the concrete has cured for at least 7 days or 3 days if using high-early-strength concrete. Do not drive or advance any pipe pile after it is filled with concrete.

Remove and replace pipes that are determined to be unacceptable for use due to breaks, bends, or kinks.

Drill piles to the minimum tip elevations and the required embedment into bedrock shown in the plans. Advance pipe piles to the bottom of the hole as shown in the plans.

00520.41 Pile Cutoffs - Cut off the tops of all piles at the required elevation. Cut off the piles clean and straight parallel to the bottom face of the structural member in which they are embedded. Dispose of cutoff lengths legally off of county land.

00520.42 Unsatisfactory Piles - Correct unsatisfactory piles by an approved method. Methods of correcting unsatisfactory piles may include one or more of the following:

(a) Use of the pile at a reduced capacity;

(b) Install additional piles;

(c) Repair damaged piles; and

(d) Replace damaged piles.

00520.43 Placing Concrete in Pipe Piles - Clean inside of pipes by removing loose material after drilling. Keep the pipe substantially water tight. Remove water before placing concrete or place concrete using a tremie when water is present in the pile. Provide suitable equipment for inspecting the entire inside surface of the pipe just before placing concrete.

(a) Reinforcing steel - Furnish reinforcing steel as shown on the plans. Securely tie concrete spacers or other approved spacers at fifth points around the perimeter of the reinforcing steel cage. Install spacers at intervals not to exceed 5 feet measured along the length of the cage.

Place the reinforcement cage into the pipe when the concrete reaches the planned bottom elevation of the reinforcement. Support the reinforcement so it remains within 2 inches of the required vertical location. Support the cage from the top until the concrete reaches the top of the pipe and has taken initial set.

(b) Concrete - Construct concrete according to Section 00540. Place concrete in one continuous operation from the bottom to the top of the pile. Consolidate the top 10 feet of the concrete pile using approved vibratory equipment before the initial concrete set.

(c) Finishing - Allow pile concrete to set a minimum of 7 days. Backfill all voids in the ground adjacent to the concrete filled steel pipe piles with sand or other approved material.

00520.44 Splices - Align and connect pile sections so the axis of the spliced pile is straight.

Use welders certified for structural welding.

Make surfaces to be welded smooth, uniform, and without loose scale, slag, grease, or other material that prevents proper welding. Steel may be oxygen cut. Carbon-arc gouging, chipping, or grinding may be used for joint preparation.

Weld according to AASHTO/AWS, *Structural Welding Code – Steel D1.1 (D1.1M)* or AWS, *Bridge Welding Code D1.5 (D1.5M).* Weld the entire pile cross-section using prequalified AWS groove weld butt joints. Weld so there is no visual evidence of cracks, lack of fusion, undercutting, excessive piping, porosity, or inadequate size. Do not use manufactured splices.

Measurement

00520.80 Measurement - The quantities of Work performed under this Section will be measured according to the following:

(a) **Furnish Pile Drilling Equipment** – No measurement of quantities will be made for furnishing Equipment for drilling in pipe piles.
(b) **Furnish Piles** – The quantity of furnishing steel pipe piles will be measured on a length basis for the total length of piling furnished to the project site.

(c) **Drill Piles** – The quantity of drilling steel pipe piles will be measured on the unit basis

Payment

00520.90 Payment - The accepted quantities of Work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item	Unit of Measurement
(a) Furnish Pile Drilling Equipment	Lump Sum
(b) Furnish PP 10 x 0.375 Steel Piles	Foot

(c) Drill PP 10 x 0.375 Steel Piles... .....Each

Partial payments for Item (a) will be made as follows:

• When Equipment for drilling piles is furnished and is satisfactorily drilling piles 75%

• When pile drilling is complete and Equipment has been removed from site 25%

SECTION 00530 - STEEL REINFORCEMENT FOR CONCRETE

Comply with Section 00530 of the Standard Specifications.

SECTION 00540 - STRUCTURAL CONCRETE

Comply with Section 00540 of the Standard Specifications.

SECTION 00545 - REINFORCED CONCRETE BRIDGE END PANELS

Comply with Section 00545 of the Standard Specifications modified as follows:

Add the following subsection:

00545.01 Terminology - For the purposes of this Section, the terms “end panel” and “end panels” shall respectively refer to and shall be read to mean “approach slab” and “approach slabs”.

SECTION 00550 - PRECAST PRESTRESSED CONCRETE MEMBERS

Comply with Section 00550 of the Standard Specifications.

SECTION 00582 - BRIDGE BEARINGS

Comply with Section 00582 of the Standard Specifications.

SECTION 00587 - BRIDGE RAILS

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

00587.80 Measurement - Add the following to the end of this subsection:

The estimated quantity of bridge rail is:

Structure	Rail Type	Quantity (Foot)
West Fork Deadwood Creek Bridge	Vertical Concrete Parapet, 42”	171.67

SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

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”.

00730.90 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.

SECTION 00744 - ASPHALT CONCRETE PAVEMENT

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

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

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

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.

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

SECTION 00810 - METAL GUARDRAIL

Comply with Section 00810 of the Standard Specifications.

SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications.

SECTION 02001 - CONCRETE

Comply with Section 02001 of the Standard Specifications.

SECTION 02320 - GEOSYNTHETICS

Comply with Section 02320 of the Standard Specifications.

SECTION 02415 - PLASTIC PIPE

Comply with Section 02415 of the Standard Specifications.

SECTION 02690 - PCC AGGREGATES

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

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

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

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

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

		Sieve Size											
Size Number	Nominal Size Square Openings	(2½ in.)	(2 in.)	(1½ in.)	(1 in.)	(¾ in.)	(½ in.)	(⅜ in.)	(No. 4)	(No. 8)	(No. 16)	(No. 50)	(No. 200)
3	(2 to 1 in.)	100	90 to 100	35 to 70	0 to 15	—	0 to 5	—	—	—	—	—	**
357*	(2 in. to No. 4)	100	95 to 100	—	35 to 70	—	10 to 30	—	0 to 5	—	—	—	**
4	(1½ to ¾ in.)	—	100	90 to 100	20 to 55	0 to 15	—	0 to 5	—	—	—	—	**
467*	(1½ to No. 4)	—	100	95 to 100	—	35 to 70	—	10 to 30	0 to 5	—	—	—	**
5	(1 to ½ in.)	—	—	100	90 to 100	20 to 55	0 to 10	0 to 5	—	—	—	—	**
56	(1 to ¾ in.)	—	—	100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	—	—	—	**
57	(1 to No. 4)	—	—	100	95 to 100	—	25 to 60	—	0 to 10	0 to 5	—	—	**
6	(¾ to ⅜ in.)	—	—	—	100	90 to 100	20 to 55	0 to 15	0 to 5	—	—	—	**
67	(¾ to No. 4)	—	—	—	100	90 to 100	—	20 to 55	0 to 10	0 to 5	—	—	**
68	(¾ to No. 8)	—	—	—	100	90 to 100	—	30 to 65	5 to 25	0 to 10	0 to 5	—	**
7	(½ to No. 4)	—	—	—	—	100	90 to 100	40 to 70	0 to 15	0 to 5	—	—	**
78	(½ to No. 8)	—	—	—	—	100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5	—	**
8	(⅜ to No. 8)	—	—	—	—	—	100	85 to 100	10 to 30	0 to 10	0 to 5	—	**
89	(⅜ to No. 16)	—	—	—	—	—	100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	**

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

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

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

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

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

CONTRACTOR PERMIT-OF-ENTRY CERTIFICATION

The Contractor, herein referred to as "Contractor", hereby certifies that the below described property to be used in connection with the construction of the above described project shall be used only with the full knowledge and consent of the lawful owner of said property, herein referred to as "Property Owner", and in connection therewith, Contractor shall defend, save, hold harmless, and indemnify Lane County and its Commissioners, employees, agents and officers from all claims, suits, damages, losses, expenses and actions arising out of or resulting from the negligence or fault of the Contractor, the Contractor's officers, agents, employees, or subcontractors in the performance of or failure to perform this contract. Property Owner further acknowledges that any payment due to Property Owner in connection with said use shall be paid by the Contractor, and Property Owner hereby further waives any claims for damages against Lane County as a result of non-payment of any financial obligations or non-performance of restoration work due in connection with the use of said property by Contractor.

CONTRACTOR	
Company	**Email Address**
Mailing Address	**Phone**
Signature	**Date**

PROPERTY OWNER	
Property Owner Name(s)	**Email Address**
Mailing Address	**Phone**
Site Address	**Tax Lot Number(s)**
Signature	**Date**

Schedule of Items

West Fork Deadwood Creek Bridge

Lane County

ITEM NO.	DESCRIPTION	PAY UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
0010	0210-0100000A Mobilization	Lump Sum	All	$_____	$_____
0020	0221-0101000A Temporary work zone traffic control, complete	Lump Sum	All	$_____	$_____
0030	0231-0200000A Construct and remove temporary access road	Lump Sum	All	$_____	$_____
0040	0245-0100000A Temporary water management facility	Lump Sum	All	$_____	$_____
0050	0280-0100000A Erosion control	Lump Sum	All	$_____	$_____
0060	0305-0100000A Construction survey work	Lump Sum	All	$_____	$_____
0070	0310-0107000A Removal of asphalt concrete wearing surface	Square Yard	655	$_____	$_____
0080	0320-0100000A Clearing and grubbing	Lump Sum	All	$_____	$_____
0090	0330-0105000K General excavation	Cubic Yard	1420	$_____	$_____
0100	0330-0123000K Embankment in place	Cubic Yard	1700	$_____	$_____
0110	0350-0103000J Riprap geotextile, type 2	Square Yard	1195	$_____	$_____
0120	0350-0105000J Subgrade geotextile	Square Yard	1500	$_____	$_____
0130	0390-0108000K Loose riprap, class 100	Cubic Yard	387	$_____	$_____
0140	0445-010024AF 24 Inch culvert pipe, 5 ft depth	Foot	50	$_____	$_____
0150	0501-01000000A Bridge removal work	Lump Sum	All	$_____	$_____
0160	0510-0101000A Structure excavation	Lump Sum	All	$_____	$_____
0170	0510-0108000A Granular structure backfill	Lump Sum	All	$_____	$_____

0180	0520-0101000A Furnish pile drilling equipment	Lump Sum	All	$_____	$_____
0190	0520-0115000F Furnish PP 10 x 0.375 steel piles	Foot	250	$_____	$_____
0200	0520-034000E Drill PP 10 x 0.375 steel piles	Each	10	$_____	$_____
0210	0530-0104000O Reinforcement, grade 60	Pound	6696	$_____	$_____
0220	0540-0313000K General structural concrete, class 4000	Cubic Yard	44	$_____	$_____
0230	0545-0100100J Reinforced concrete bridge approach slabs	Square Yard	102	$_____	$_____
0240	0550-0139000F 30 Inch precast prestressed slabs	Foot	515	$_____	$_____
0250	0582-0010000E Bearing devices, elastomeric	Each	24	$_____	$_____
0260	0587-0115000A Vertical concrete parapet, 42 inch	Foot	171.67	$_____	$_____
0270	0641-0112000K 3/4 Inch - 0 aggregate base	Cubic Yard	442	$_____	$_____
0280	0641-0123000K 3 Inch - 0 aggregate base	Cubic Yard	172	$_____	$_____
0290	0744-0302000M Level 3, 1/2 inch ACP mixture	Ton	300	$_____	$_____
0300	0810-0104000F Guardrail, Type 2A	Foot	156.25	$_____	$_____
0310	0810-0107000F Guardrail, Type 3	Foot	50.00	$_____	$_____
0320	0810-0121000E Guardrail anchor, Type 5	Each	1	$_____	$_____
0330	0810-0126000E Guardrail transition	Each	4	$_____	$_____
0340	0810-0131000E Guardrail terminals, non-flared, test level 2	Each	3	$_____	$_____
0350	0860-0200000F Longitudinal pavement marking - paint	Foot	540	$_____	$_____
0360	1030-0108000R Permanent seeding	Acre	1	$_____	$_____
0370	1030-0140000R Mulching	Acre	1	$_____	$_____
	TOTAL ITEMS COST				$_____

Exhibit F: Relative Elevation Model with cut/fill cross sections