

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A01	Title Sheet
A02	Index Of Sheets Cont. & Std. Dwg. Nos.
AD01	Survey Control Data

STATE OF OREGON
DEPARTMENT OF TRANSPORTATION

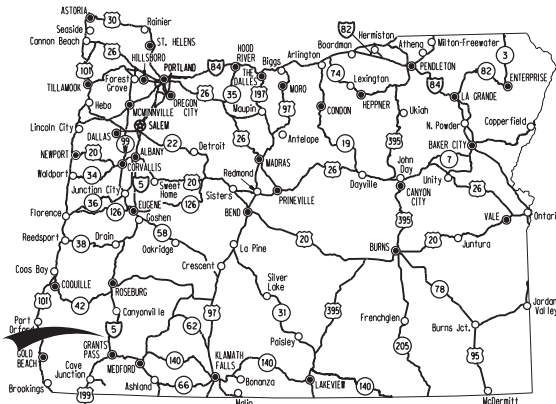
PLANS FOR PROPOSED PROJECT

GRADING, STRUCTURES & PAVING

WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT

LOWER GRAVE CREEK RD.

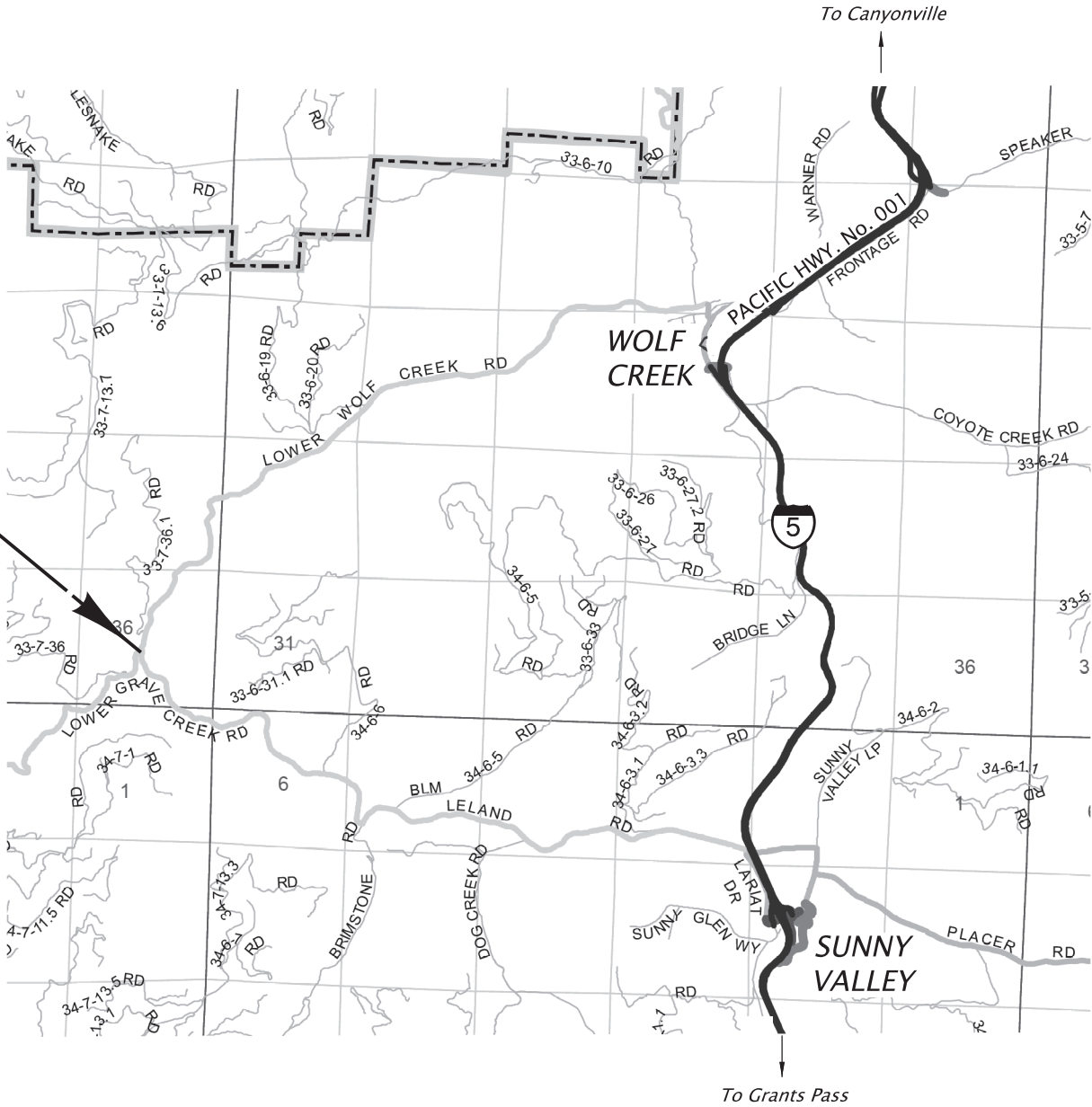
JOSEPHINE COUNTY
OCTOBER 2026



ATTENTION:
Oregon Law Requires You To Follow Rules Adopted
By The Oregon Utility Notification Center.
Those Rules Are Set Forth In OAR 952-001-0001
Through OAR 952-001-0100.
You May Obtain Copies Of The Rules By Calling
The Center (Note: The Telephone Number For
The Oregon Utility Notification Center Is
(503) 232-1987).

LET'S ALL
WORK TOGETHER
TO MAKE THIS
JOB SAFE

PROJECT LOCATION
STA. "LGC" 16+00 (MP 2.3)



T. 33S., R. 07W., W.M.



OREGON TRANSPORTATION COMMISSION

Julie Brown
Lee Beyer
Jeff Baker
Phil Chang
Vacant
Chris Warner

CHAIR
VICE CHAIR
COMMISSIONER
COMMISSIONER
COMMISSIONER
INTERIM DIRECTOR OF
TRANSPORTATION

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

THOMPSON
Mark

Approving Authority:

Signature & date

Mark Thompson, Reg. 3 Tech. Ctr. Manager

PELTZ TOVA
R

Concurrence by ODOT Chief Engineer

Digitally signed by
THOMPSON Mark
Date: 2026.08.05
15:40:26 -07'00'

Digitally signed by PELTZ
Tova R
Date: 2026.08.28
09:48:41 -07'00'

WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	C033(054)	A01

INDEX OF SHEETS, CONT.	
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BB01, BB02	Details

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C01A	General Construction Notes

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SHEET NO.	DESCRIPTION
EA01	Traffic Control Plan

EROSION CONTROL	
SHEET NO.	DESCRIPTION
FB01	Erosion and Sediment Control

HYDRAULIC	
SHEET NO.	DESCRIPTION
HA01	Stormwater
HD01	Temporary Water Management

BRIDGE		
SHEET NO.	BDS DRAWING NO.	DESCRIPTION
STRUCTURE NO. BR24461		
J01	114469	Plan and Elevation
J02	114470	General Notes
J03	114471	Geotechnical Data
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SIGNS	
SHEET NO.	DESCRIPTION
LA01	Signing Plan
LB01	Signing Details
LC01	Sign and Post Data Table

TRAFFIC CONTROL	
SHEET NO.	DESCRIPTION
EA01	Traffic Control Detour Plans
EB01	Traffic Control Plans

PERMANENT PAVEMENT MARKINGS	
SHEET NO.	DESCRIPTION
QA01	Pavement Markings Details
QB01	Pavement Markings Plan

Standard Dwgs.

- RD140 – Roadway Cross Slopes Superelevated Sections
- RD317 – Culvert Embankment Protection and Riprap Pads
- RD399 – Stormwater Treatment And Storage Facility Field Markers

- RD402 – Midwest Guardrail System Types
- RD403 – Midwest Guardrail System Wood Post And Block
- RD404 – Midwest Guardrail System Steel Post And Block
- RD407 – Midwest Guardrail System (W-Beam)
- RD409 – Thrie Beam Guardrail
- RD410 – Thrie Beam Guardrail Transition
- RD416 – Midwest Guardrail System Standard Hardware (Nuts, Bolts, Washers And Misc.)
- RD417 – Midwest Guardrail System End Sections
- RD419 – Midwest Guardrail System Grading For Terminals
- RD420 – Midwest Guardrail System Non-Flared Energy-Absorbing Terminal
- RD451 – Wood Breakaway Posts
- RD482 – Midwest Guardrail System Type 3 (Nested W-Beam)

- RD610 – Asphalt Concrete Pavement (ACP) Details
- RD615 – Surface Edge Details

- RD1005 – Check Dams Type 1, 3, And 4
- RD1032 – Sediment Barrier Type 8
- RD1055 – Slope and Channel Matting

- BR226 – 2-Tube Side Mount Rail
- BR230 – 2-Tube Side Mount Rail Transition

- BR415 – 21" Precast Prestressed Slab

- TM200 – Sign Installation Details
- TM201 – Miscellaneous Sign Placement Details
- TM223 – Street Name Sign Layout
- TM226 – Conventional Roads Directional Sign Layout
- TM230 – Mounting Details for Removable Legend 4" through 8" Letters And Numbers
- TM233 – Mounting Details for Removable Legend Various Arrow Sizes

- TM500 – Pavement Marking Standard Detail Blocks
- TM503 – Pavement Marking Standard Detail Blocks
- TM521 – Durable & High Performance Pavement Markings Surface & Groove Installed Non-Profiled
- TM530 – Intersection Pavement Markings (Crosswalk, Stop Bar & Bike Lane Stencil)
- TM560 – Alignment Layout: General
- TM561 – Alignment Layout: Left Turn Lane, Centerline & Medians
- TM570 – Traffic Delineators
- TM571 – Traffic Delineators Steel Post Details
- TM576 – Traffic Delineator Installation for Non-Freeways

- TM635 – Breakaway Sign & Luminaire Supports – Support Location Guidelines
- TM670 – Wood Post Sign Supports
- TM671 – 3 Second Gust Wind Speed Map
- TM676 – Sign Attachments
- TM681 – Perforated Steel Square Tube (PSST) Sign Support Installation
- TM687 – Perforated Steel Square Tube (PSST) Anchor Foundation
- TM688 – Perforated Steel Square Tube (PSST) Slip Base Foundation

- TM800 – Tables, Abrupt Edge and PCMS Details
- TM820 – Temporary Barricades
- TM821 – Temporary Sign Supports
- TM840 – Closure Details
- TM855 – 2-Lane, 2-Way Roadways

No R/W Map

Design Exception Control Number 23162-01



WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

FEDERAL HIGHWAY
ADMINISTRATION

PROJECT NUMBER

SHEET
NO.

OREGON
DIVISION

SEE SHEET A01

A02

Standard Drawings located on the web at:
<http://www.oregon.gov/ODOT/Engineering/Pages/Standards.aspx>

SW 1/4 SEC. 36 T33S, R7W, W.M.

36

NOTES:

COORDINATE SYSTEM: OREGON COORDINATE
REFERENCE SYSTEM (OCRS) GRANTS PASS - ASHLAND ZONE

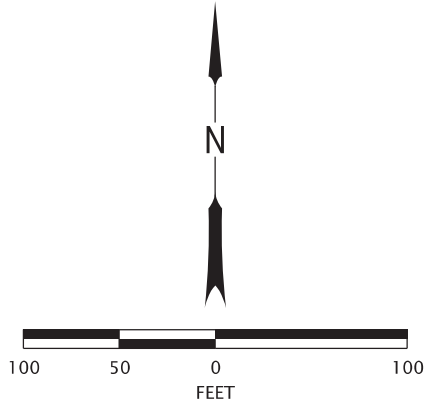
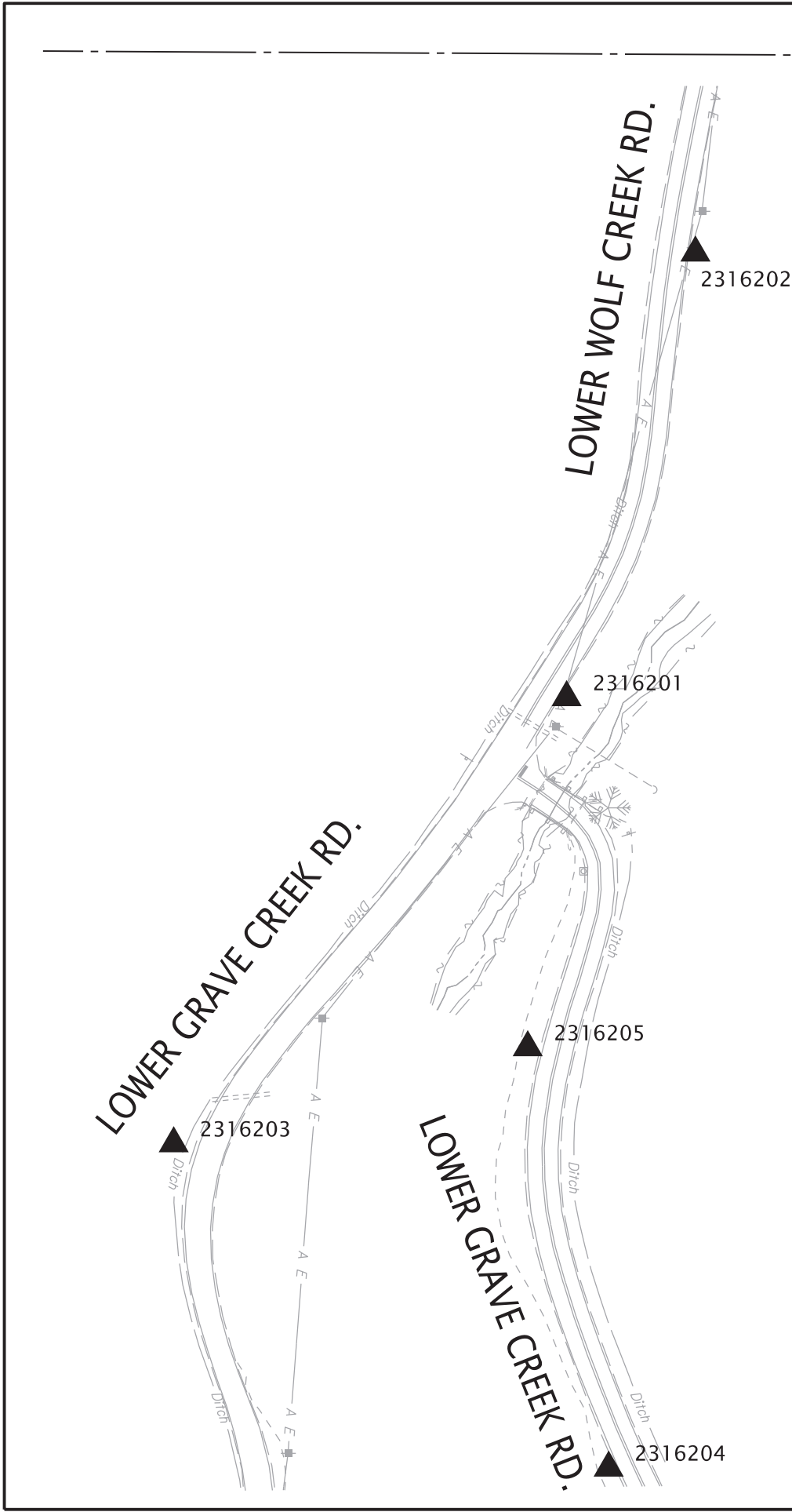
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VERTICAL DATUM: NAVD88 (GEOID 12B)

FIELD VERIFY ALL CONTROL BEFORE USE!

LEGEND	
	SET NETWORK CONTROL

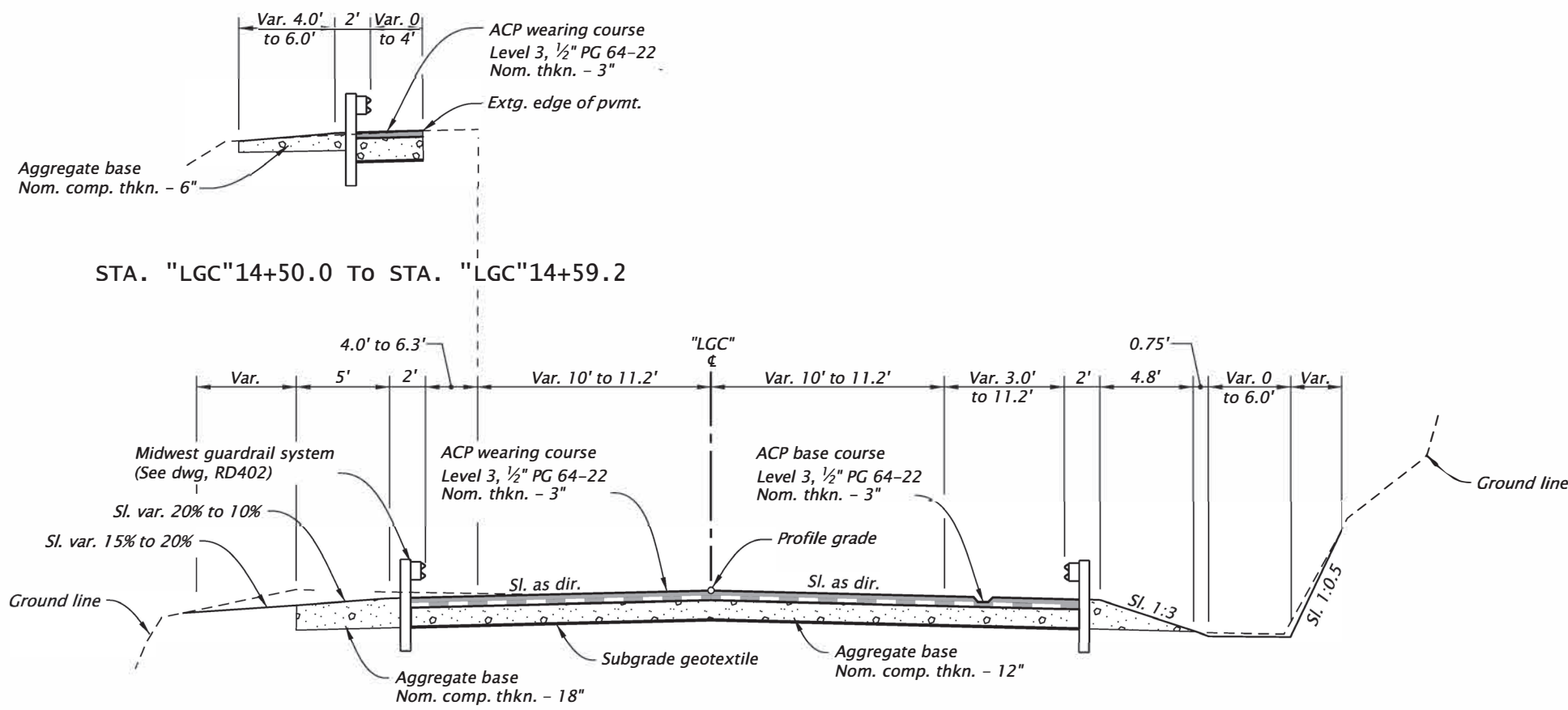
NETWORK CONTROL TABLE

PT. NO.	OCRS NORTHING	OCRS EASTING	ELEV.	DATE	DESCRIPTION
2316201	330908.51	125619.73	1033.13	11/4/2024	SET 5/8" X 30" REBAR w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 2316201"
2316202	331203.77	125705.31	1054.45	11/4/2024	SET 5/8" X 30" REBAR w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 2316202"
2316203	330612.32	125358.65	1060.05	11/4/2024	SET 5/8" X 30" REBAR w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 2316203"
2316204	330397.02	125647.56	1066.80	11/4/2024	SET 5/8" X 30" REBAR w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 2316204"
2316205	330676.14	125593.89	1045.19	11/4/2024	SET 5/8" X 30" REBAR w/ 2" ALUMINUM CAP "ODOT CONTROL POINT 2316205"

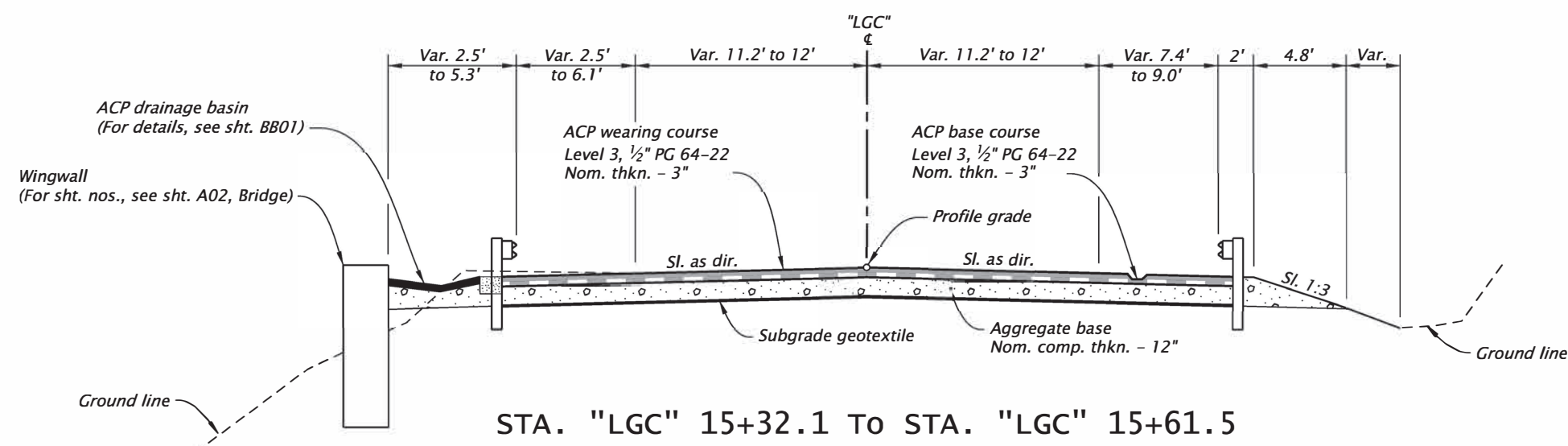


REGISTERED PROFESSIONAL LAND SURVEYOR	OREGON DEPARTMENT OF TRANSPORTATION		
	WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY		
Digitally Signed 2026.07.21 11:18:26 -07'00'	Designer: JASON WEISZ Reviewer: ZACK EARLE		SHEET NO. AD01
OREGON MARCH 14, 2017 JASON ROBERT WEISZ 91618	Drafter: JASON WEISZ Checker: N/A		
RENEWALS: 6-30-2028	SURVEY CONTROL DATA		

"LGC" LINE

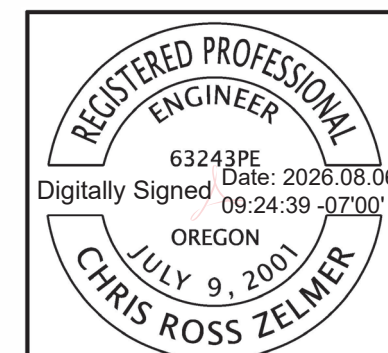


STA. "LGC" 14+50.0 To STA. "LGC" 15+32.1



STA. "LGC" 15+32.1 To STA. "LGC" 15+61.5

NOTE:
1. Side-slopes are shown as vert. to horiz.
2. For standard superelevation, see dwg. RD140.



RENEWS: 06-30-2028

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT
OF TRANSPORTATION



WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

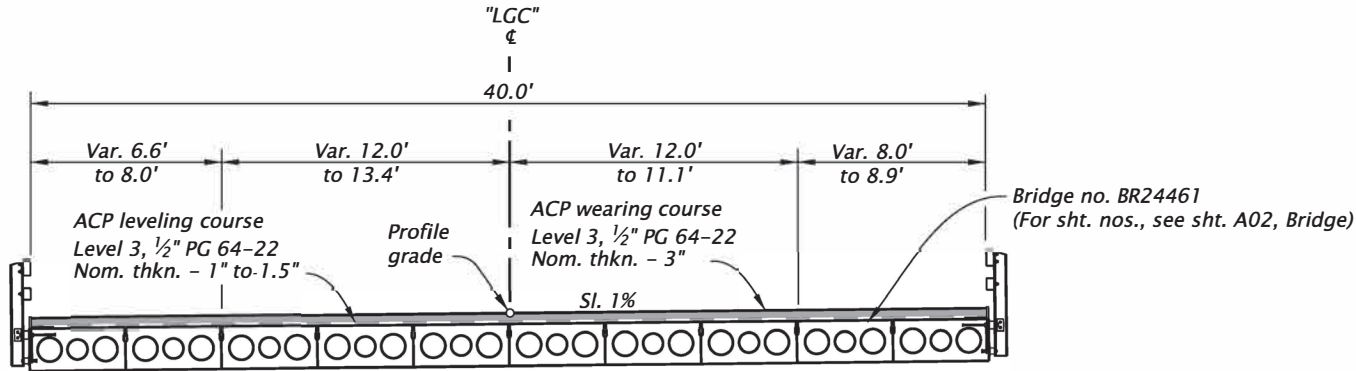
Designer: Brian Sheadel
CADD Tech: Judy Hardin

Reviewer: Chris Zelmer
Checker: Madison Quimby

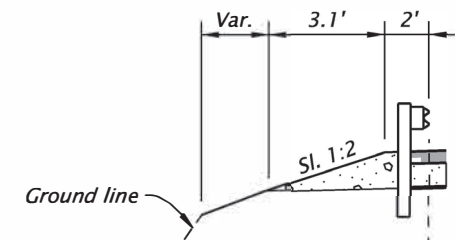
TYPICAL SECTIONS

SHEET NO.
BA01

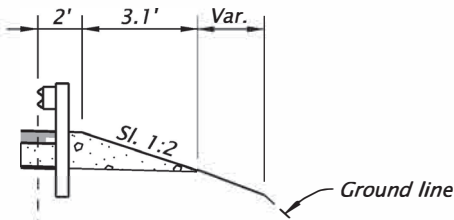
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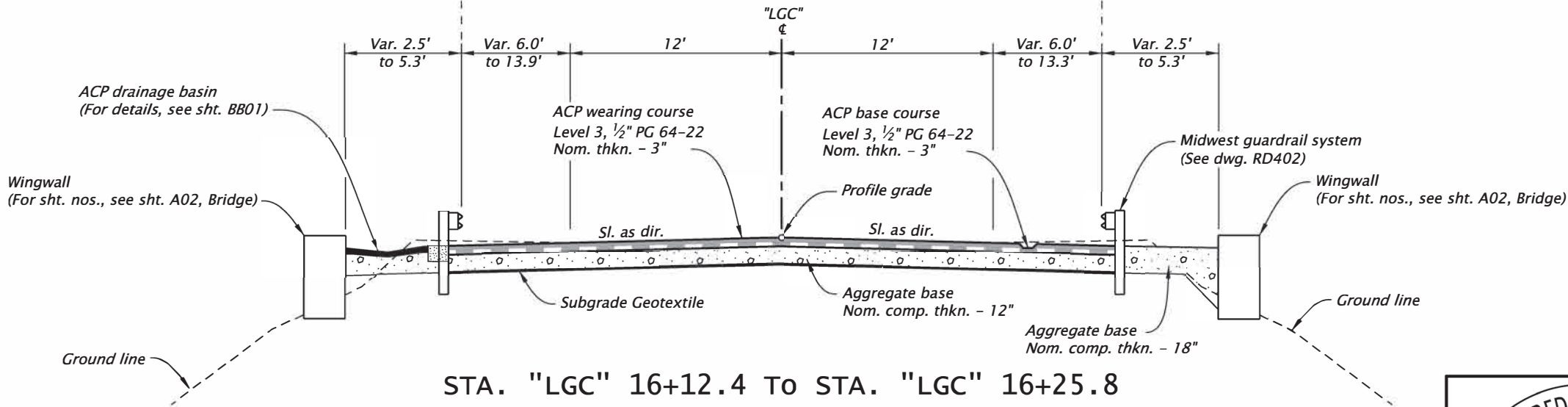
STA. "LGC" 15+61.5 To STA. "LGC" 16+12.4 (Structure)



STA. "LGC" 16+21.6 To STA. "LGC" 16+25.8



STA. "LGC" 16+21.6 To STA. "LGC" 16+25.8



STA. "LGC" 16+12.4 To STA. "LGC" 16+25.8

NOTE:
1. Side-slopes are shown as vert. to horiz.
2. For standard superelevation, see dwg. RD140.



RENEWES: 06-30-2028

OREGON DEPARTMENT OF TRANSPORTATION

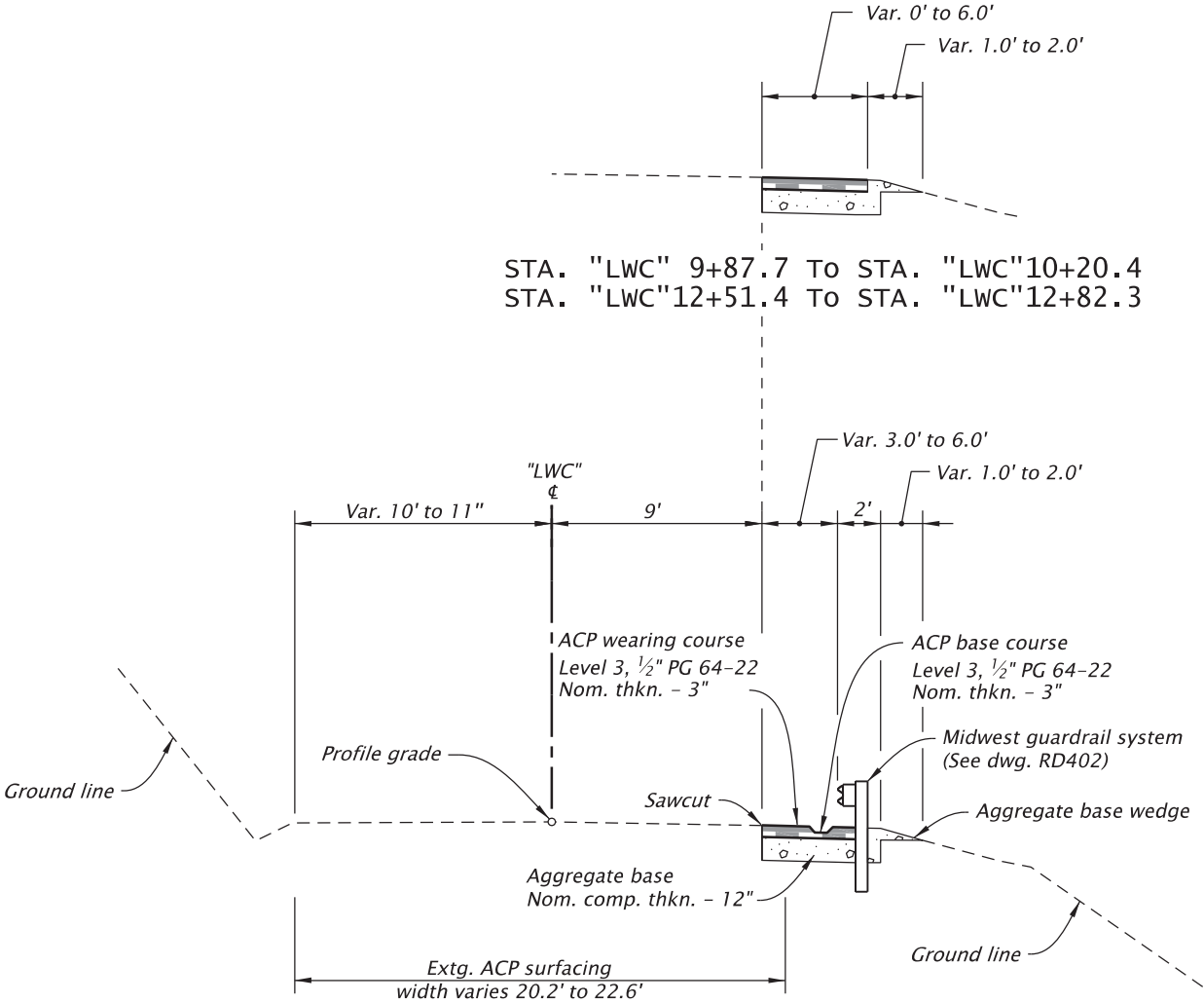
WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Brian Sheadel
CADD Tech: Judy Hardin
Reviewer: Chris Zelmer
Checker: Madison Quimby

TYPICAL SECTIONS

SHEET NO.
BA02

"LWC" LINE



STA. "LWC" 9+86.7 To STA. "LWC" 10+84.6
STA. "LWC" 10+84.6 To STA. "LWC" 11+44.4 (Intersection)
STA. "LWC" 11+44.4 To STA. "LWC" 12+82.3

NOTE:
1. Side-slopes are shown as vert. to horiz.
2. For standard superelevation, see dwg. RD140.

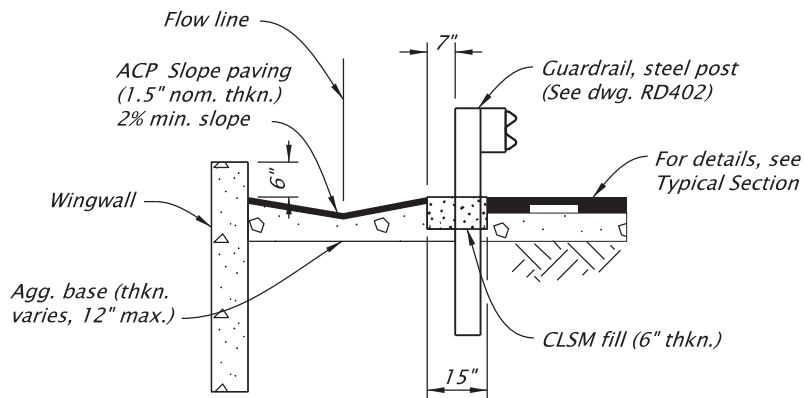
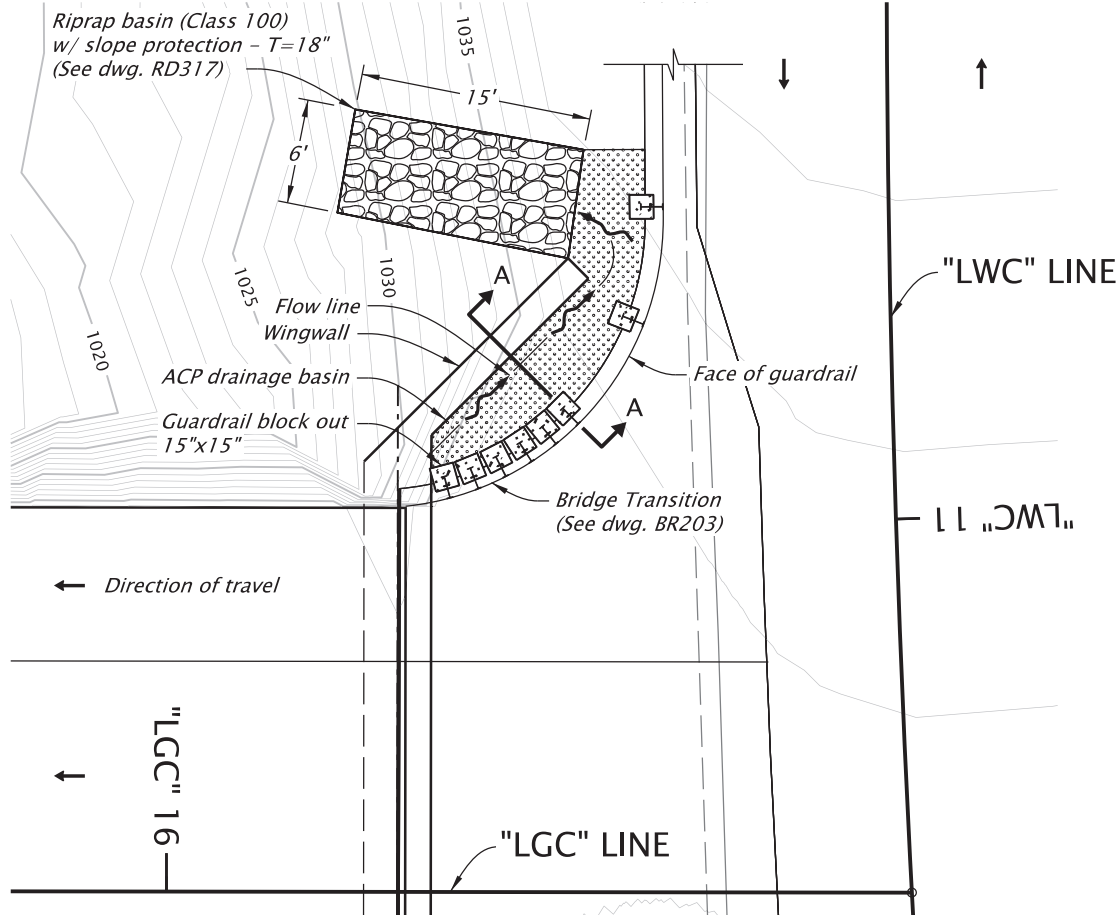
REGISTERED PROFESSIONAL
ENGINEER
63243PE
Digitally Signed
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OREGON
JULY 9, 2001
CHRIS ROSS ZELMER

RENEWES: 06-30-2028

OREGON DEPARTMENT OF TRANSPORTATION	
WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
Designer: Brian Sheadel CADD Tech: Judy Hardin	Reviewer: Chris Zelmer Checker: Madison Quimby
TYPICAL SECTIONS	SHEET NO. BA03

ACP DRAINAGE BASIN

Scale: 1"=10'
(Typical for both sides of the bridge)
(For locations, see sht. C01)



LEGEND

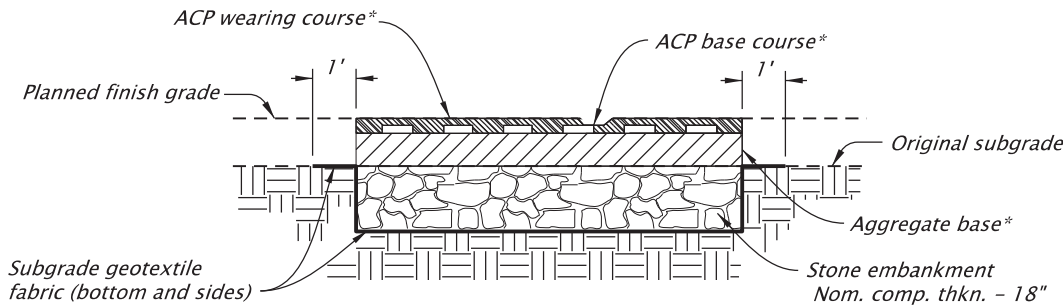
- ACP Drainage basin area
- CLSM fill material
(Max compressive strength - 120 psi)

General Notes:

- Prior to placing ACP, grade aggregate base to drain roadway runoff from the low point, to the rip rap pad (field verify low point).
- Construct a temporary block out around the guardrail post according to Section A-A, and place CLSM in the void after construction the ACP basin.
- CLSM shall be provided meeting SP section 00442.00, and have a compressive strength of between 100 and 120 psi.

18" SUBGRADE STABILIZATION

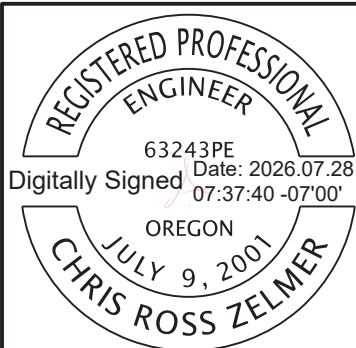
(Not to scale: Diagrammatic only)



* For pavement details not specified, see Typical Sections.

GENERAL NOTES:

- Locate as directed by the Engineer.
- Excavate to a depth of 18" below subgrade.
- Replace with 18" of stone embankment prior to placement of aggregate base.
- Over excavation, if necessary, will be directed by the Engineer and measured for payment according to 00331.80.
- Subgrade stablization to be used only in areas of excavation.



RENEWES: 06-30-2028

OREGON DEPARTMENT
OF TRANSPORTATION



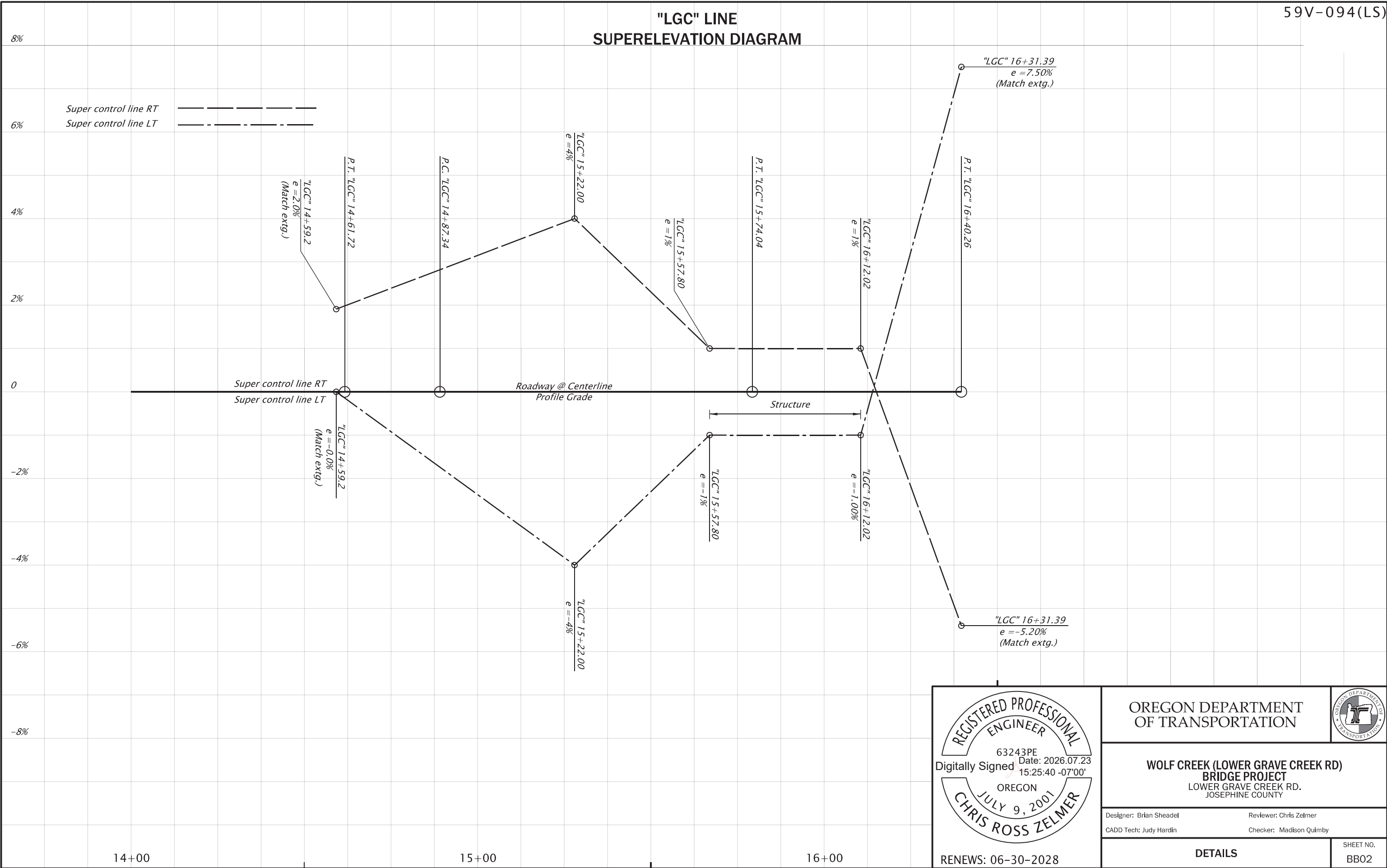
WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Brian Sheadel
CADD Tech: Judy Hardin
Reviewer: Chris Zelmer
Checker: Madison Quimby

DETAILS

SHEET NO.
BB01

"LGC" LINE
SUPERELEVATION DIAGRAM



RENEWS: 06-30-2028

OREGON DEPARTMENT
OF TRANSPORTATION



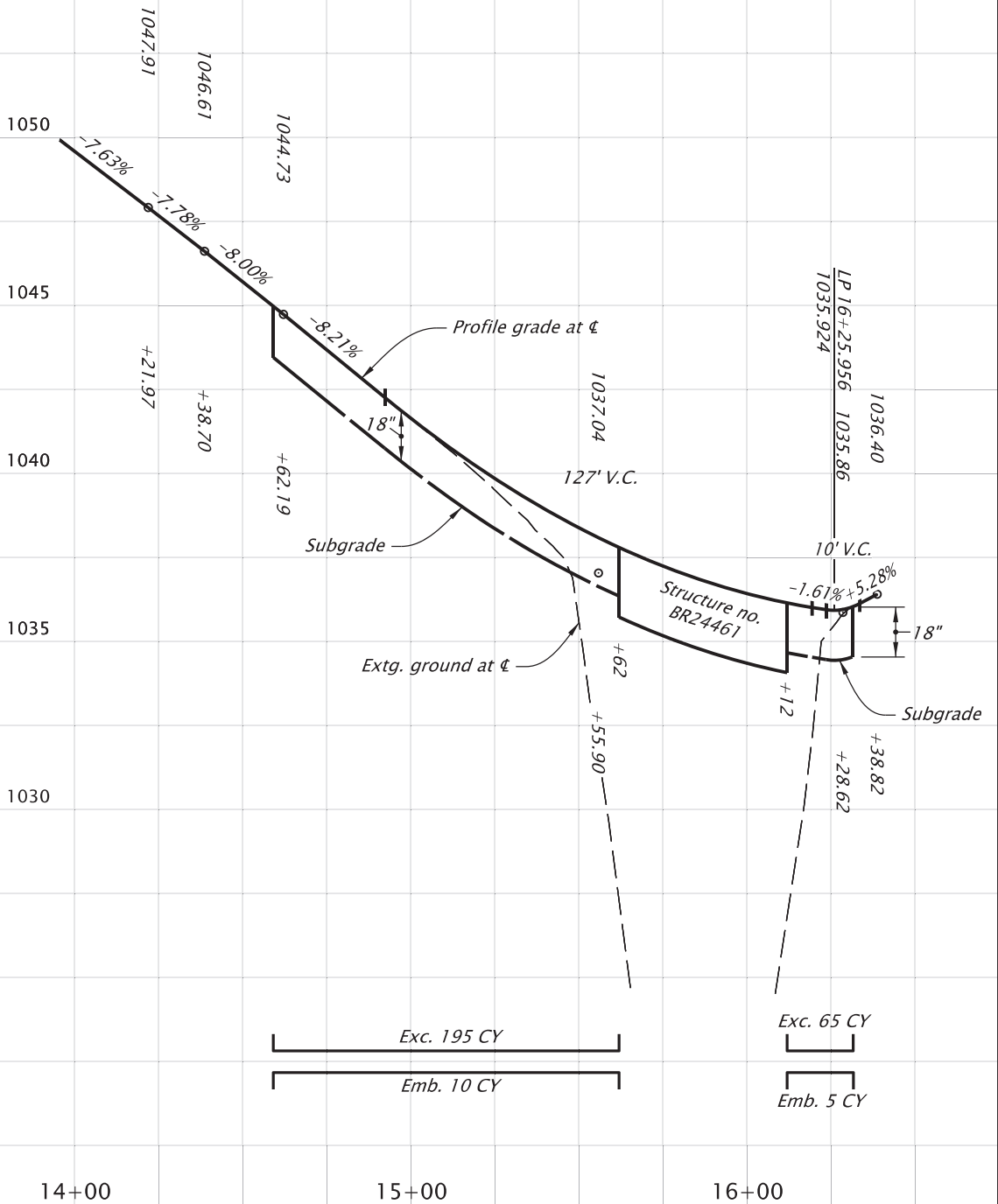
WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Brian Sheadel
CADD Tech: Judy Hardin
Reviewer: Chris Zelmer
Checker: Madison Quimby

DETAILS

SHEET NO.
BB02

"LGC" LINE
Roadway Profile



RENEWS: 06-30-2028

OREGON DEPARTMENT
OF TRANSPORTATION

WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Brian Sheadel
CADD Tech: Judy Hardin
Reviewer: Chris Zelmer
Checker: Madison Quimby

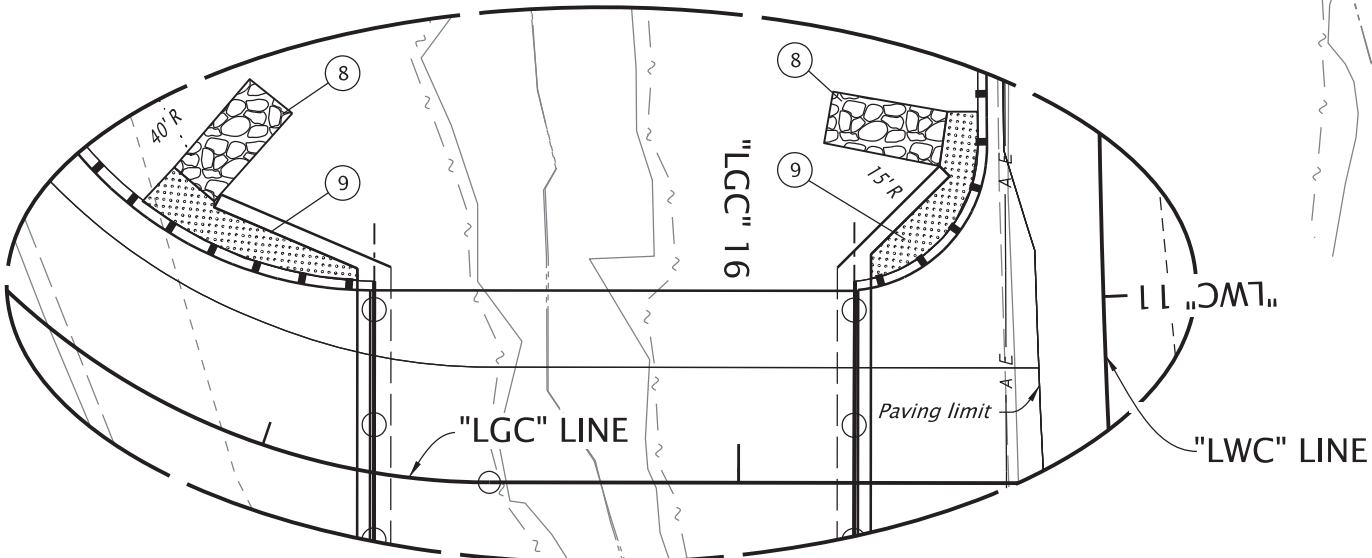
GENERAL CONSTRUCTION

SHEET NO.
C01

Sec.36, T.33S, R.7W, W.M.

LEGEND

- Wetlands boundary
- Ordinary high water
- Remove surfacing
- No work area
- Riprap basin
- ACP drainage basin



ENLARGED VIEW

CONSTRUCTION NOTES

- 1

Asphalt conc. pvmt. match
(Sawcut as required)
(See dwg. RD610)
- 2

Structure no. BR24461
(For sht. nos., see sht. A02, Bridge)
- 3

Remove extg. structure
Match extg. creek channel slopes
(For sht. nos., see sht. A02, Bridge)
- 4

Sta. "LGC" 14+50.0 to Sta. "LGC" 15+57.8, Lt.
Const. Midwest Guardrail System - 25' (Type 2A)
Const. Midwest Guardrail System - 12.5' (Type 3)
W=1', E=0'
Radius = 40'
Const. guardrail terminal, non-flared
Test level 3
Const. 31" guardrail to bridge transition
(Steel posts)
(See dwgs. RD402, RD403, RD404, RD407, RD409,
RD410, RD416, RD417, RD419, RD420, RD451, RD482,
BR226 & BR230)
- 5

Sta. "LGC" 14+59.2 to Sta. "LGC" 15+64.7, Rt.
Const. Midwest Guardrail System - 25.0' (Type 2A)
Const. Midwest Guardrail System - 12.5' (Type 3)
W=1', E=0'
Radius = 65'
Const. guardrail terminal, non-flared
Test level 3
Const. 31" guardrail to bridge transition
(Steel posts)
- 6

Sta. "LWC" 10+20.0 to Sta. "LWC" 11+00.0, Rt.
Const. Midwest Guardrail System - 12.5' (Type 2A)
Const. Midwest Guardrail System - 12.5' (Type 3)
W=1', E=0'
Radius = 15'
Const. guardrail terminal, non-flared
Test level 3
Const. 31" guardrail to bridge transition
(Steel posts)
- 7

Sta. "LWC" 11+37.5 to Sta. "LWC" 12+52.0, Rt.
Const. Midwest Guardrail System - 50.0' (Type 2A)
Const. Midwest Guardrail System - 12.5' (Type 3)
W=1', E=0'
Radius = 20'
Const. guardrail terminal, non-flared
Test level 3
Const. 31" guardrail to bridge transition
(Steel posts)
- 8

Const. riprap basin - 2
(See dwg. RD317)
- 9

Const ACP drainage basin - 2
ACP slope paving - 200 sq.ft.
(For details, see sht. BB01)
- 10

Const. water quality swale
(For sht. nos., see sht. A02, Hydraulic)

REGISTERED PROFESSIONAL
ENGINEER
63243PE
Date: 2026.07.23
13:55:23 -07'00'
OREGON
JULY 9, 2001
CHRIS ROSS ZELMER

Digitally Signed

RENEWS: 06-30-2028

OREGON DEPARTMENT
OF TRANSPORTATION

WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Brian Sheadel
CADD Tech: Judy Hardin

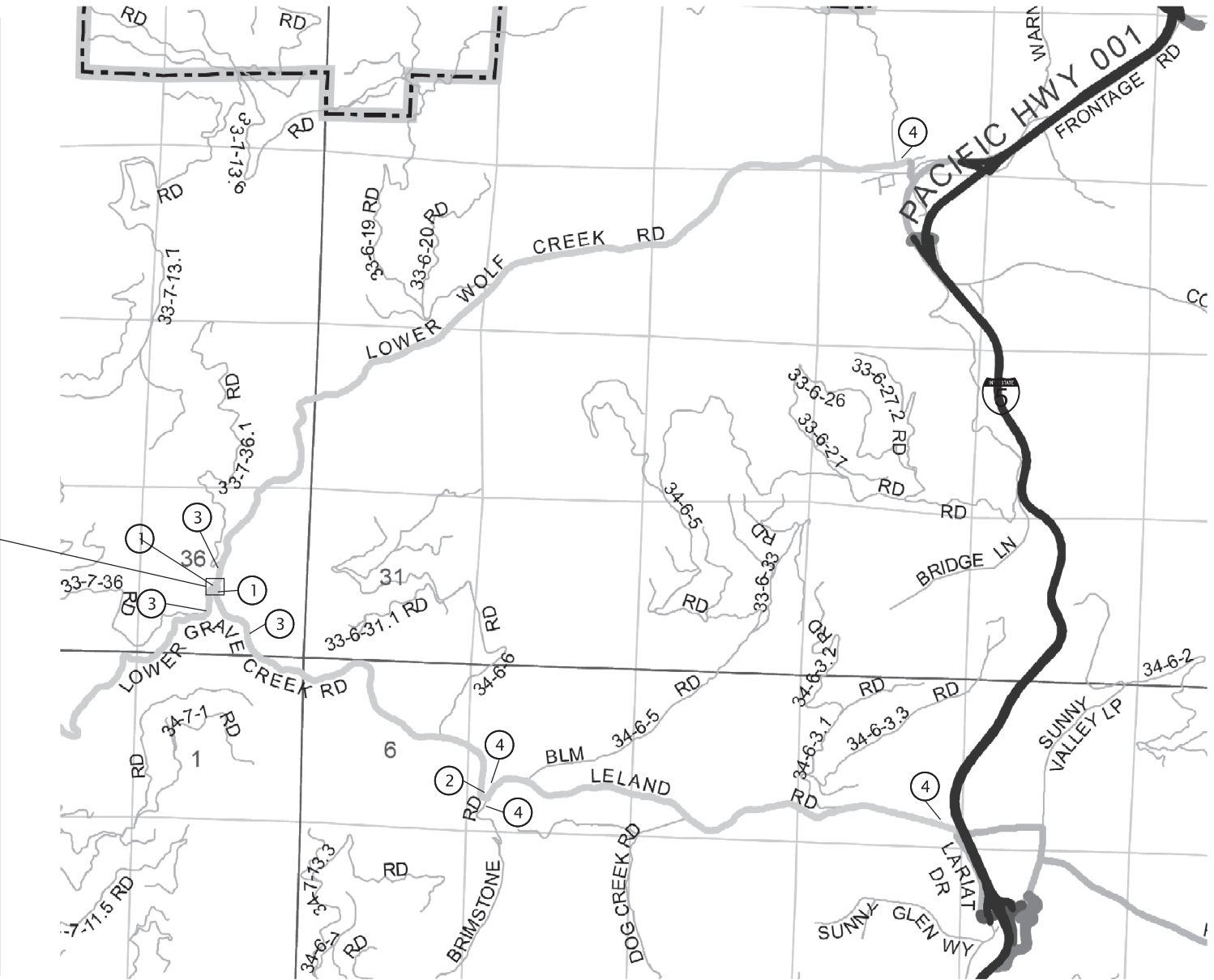
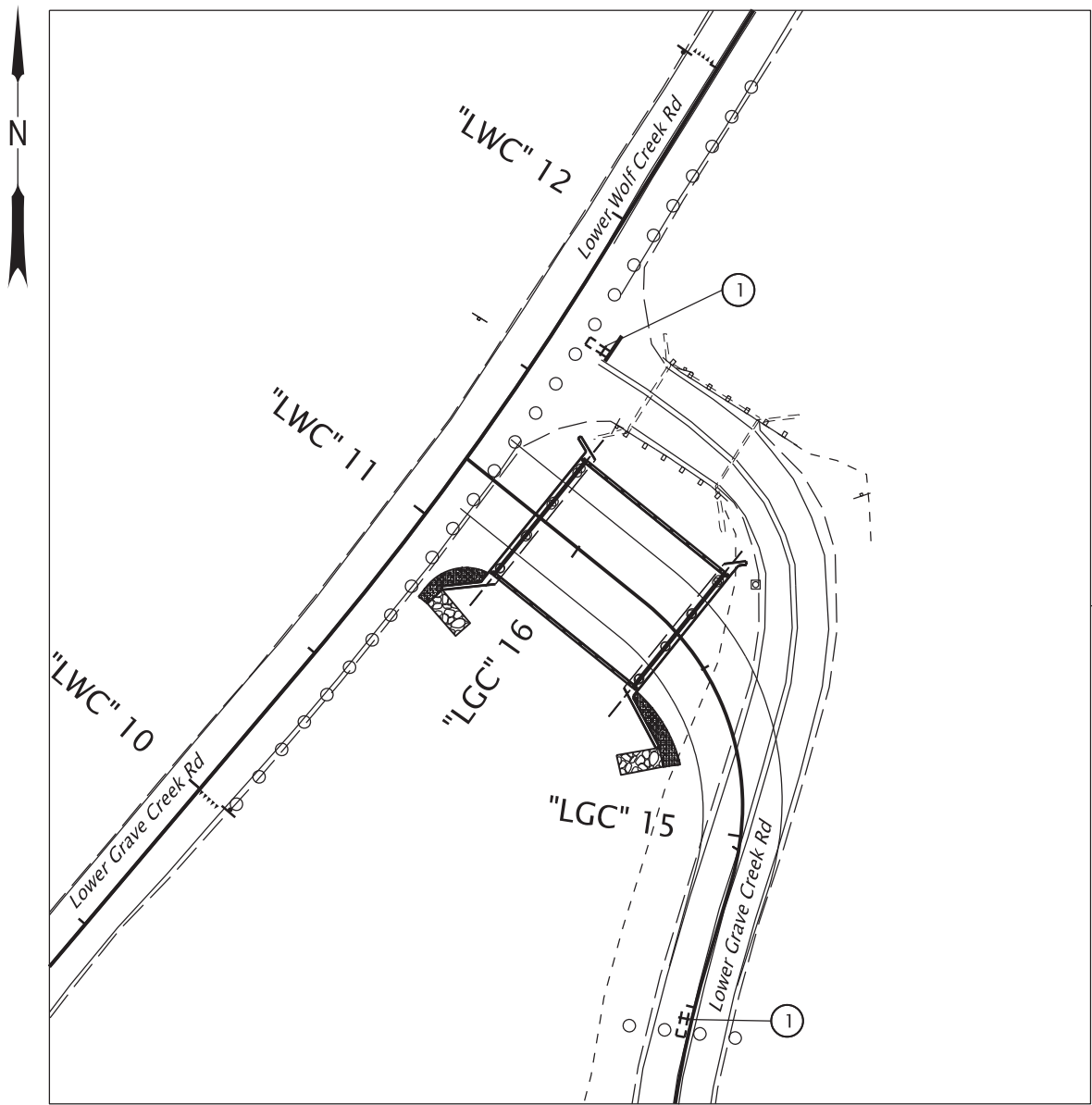
Reviewer: Chris Zelmer
Checker: Madison Quimby

GENERAL CONSTRUCTION NOTES

SHEET NO.
C01A

R_K23162_pl01.dgn :: C01A 7/23/2026 9:00:11 AM hwy32o

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST



ROAD
CLOSED
R11-2
48x30
(Mount On TSS)

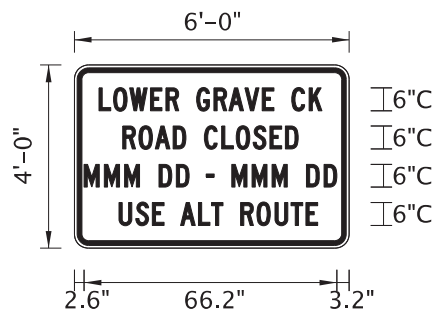
1

ROAD CLOSED
TO THRU TRAFFIC
LOCAL ACCESS ONLY
R11-4*
60x30
(Mount on TSS)

2

ROAD
CLOSED
AHEAD
W20-3
(Mount on TSS)

3



4

LEGEND

- Barricade
- ± TSS
- ○ ○ TEMP. PLASTIC DRUMS ON 10' MAX. SPACING

ACCOMPANIED BY DWGS.:
TM800, TM820, TM821, TM840
& TM855



RENEWES: 06-30-2027

OREGON DEPARTMENT
OF TRANSPORTATION



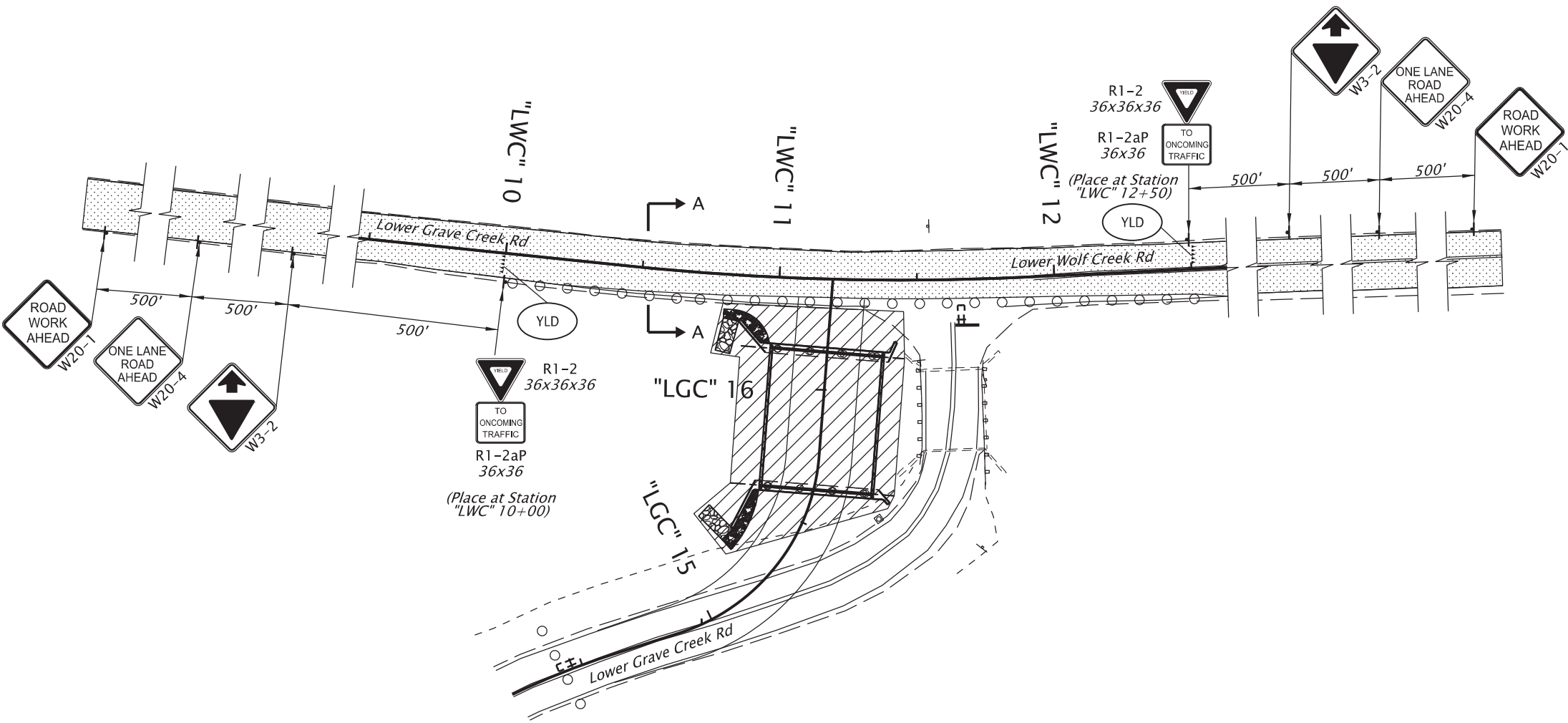
WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Jacob Sarver
Drafter: Jacob Sarver

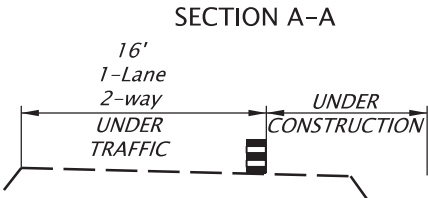
Reviewer: Jorge Gonzalez
Checker: William Fitzgerald

TRAFFIC DETOUR PLANS

SHEET NO.
EA01



See sht. EA01 for detour details during closure of the East leg of Lower Grave Creek Rd.



LEGEND

- Sign on post
- Barricade
- TSS
- TEMP. PLASTIC DRUMS ON 10' MAX. SPACING
- YLD Inst. yield line (white)
- Under traffic
- Under construction

REGISTERED PROFESSIONAL
ENGINEER
91094PE
Digitally Signed 2026.09.10 16:00:45 -07'00'
OREGON
SEP. 10, 2019
JORGE GONZALEZ
RENEWES: 06-30-2027

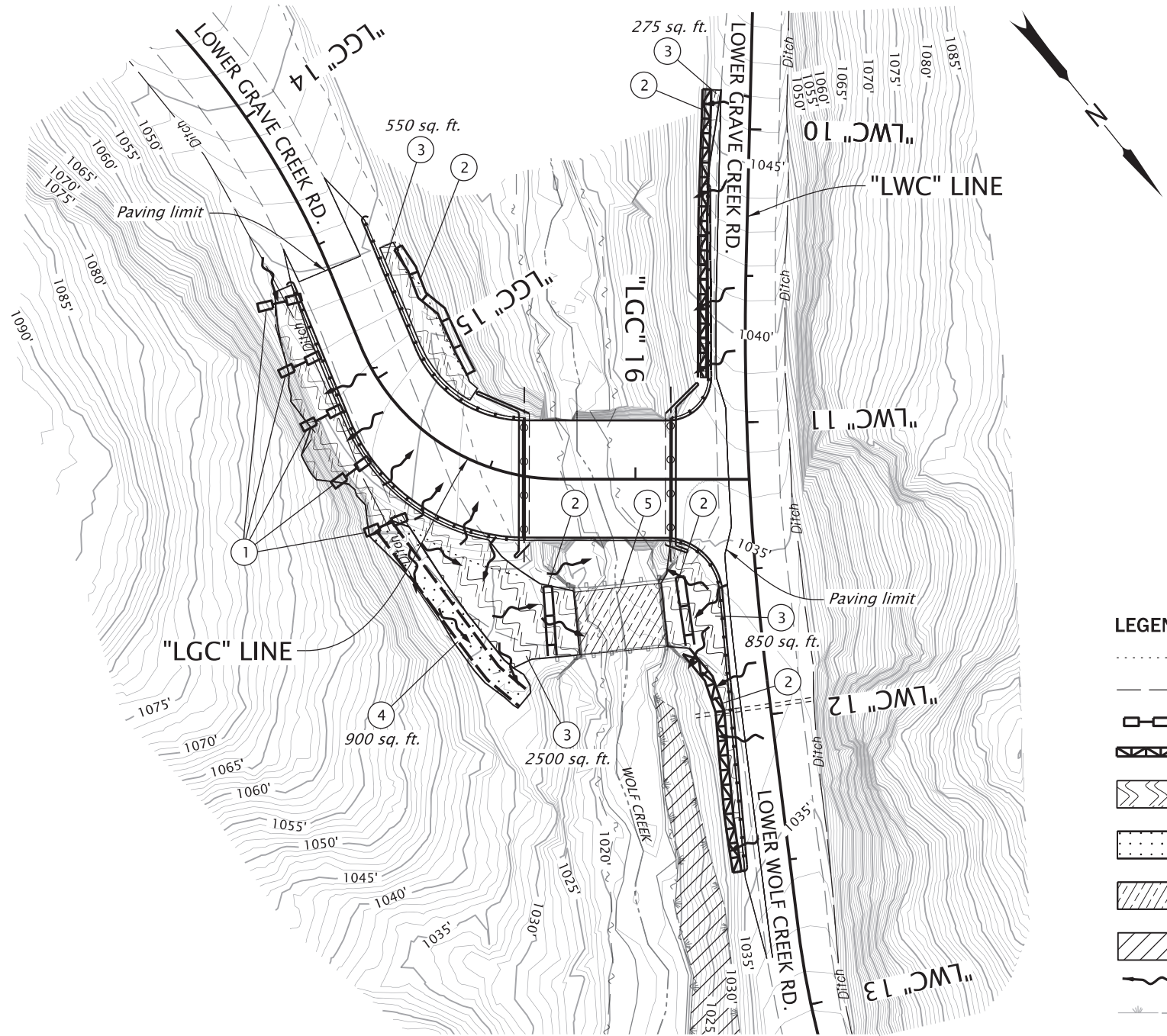
OREGON DEPARTMENT OF TRANSPORTATION

WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Jacob Sarver
Reviewer: Jorge Gonzalez
Drafter: Jacob Sarver
Checker: William Fitzgerald

TRAFFIC CONTROL PLANS

SHEET NO.
EB01



- 1 Const. check dam (Type 1) – 5 ea.
(See dwg. RD1005)
- 2 Const. sediment barrier (Type 8) – 300 LF
(Adjust for field conditions)
(See dwg. RD1032)
- 3 Inst. compost filter blanket – 600 SY
Inst. rolled matting (Type C) – 600 SY
Permanent seeding
(For details, see below)
(See dwg. RD1055)
- 4 Inst. compost filter blanket – 100 SY
Inst. rolled matting (Type C) – 100 SY
Wetlands seeding
(For details, see below)
- 5 Remove extg. structure
Match extg. creek channel slopes
(For sht. nos., see sht. A02, Bridge)

LEGEND

- Fill slope
- Cut slope
- Check dam in ditch section
- Sediment barrier, Type 8
- Compost erosion control blanket with permanent seeding
- Compost erosion control blanket with wetlands seeding
- Bridge removal
- No Work Area
- Flow direction
- Wetland boundary

STANDARD DRAWINGS

- RD1000 Construction Entrances
- RD1005 Check Dams Type 1, 3 and 4
- RD1006 Check Dams Type 2 and 6
- RD1010 Inlet Protection Type 2, 3, 6, 7 10 and 11
- RD1015 Inlet Protection Type 4
- RD1030 Sediment Barrier Type 2, 3 and 4
- RD1031 Sediment Barrier Type 5 and 6
- RD1032 Sediment Barrier Type 8
- RD1033 Sediment Barrier Type 9
- RD1040 Sediment Fence
- RD1045 Temporary Slope Drain With Energy Dissipator
- RD1050 Temporary Scour Basin / Energy Dissipator
- RD1055 Slope and Channel Matting
- RD1060 Tire Wash Facility Type 1 and 2
- RD1065 Sediment Trap
- RD1070 Concrete Truck Wash Out

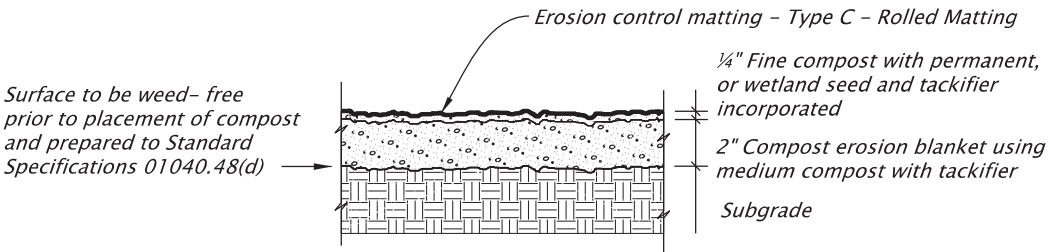
EROSION AND SEDIMENT CONTROL GENERAL NOTES

The construction, adjustment, maintenance, and upgrading of these Erosion and Sediment Control measures is the responsibility of the contractor for the duration of the project to comply with Section 00280 of the Oregon Standard Specifications for construction and, when applicable, the NPDES 1200-CA permit.

Erosion and Sediment Control measures shown on this plan are for anticipated site conditions. Adjust or upgrade these measures for unexpected storm events to ensure that sediment and sediment-laden water does not leave the site.

Develop a revised plan of the Erosion and Sediment Control measures shown as required by Section 00280, Oregon Standard Specifications for Construction. Implement this plan for all clearing and grading activities and in segments applicable to each staging phase. Construct in such a manner so as to ensure that sediment and sediment-ladenwater does not enter the roadway or drainage system, or violate applicable water standards.

Install measures within the right-of-way unless directed otherwise.



Note: See Standard Specifications 03020 for compost specifications.

APPLICATION - TEMPORARY/PERMANENT VEGETATIVE COVER

COMPOST EROSION BLANKET DETAIL



RENEWS: 06-30-2028

OREGON DEPARTMENT OF TRANSPORTATION



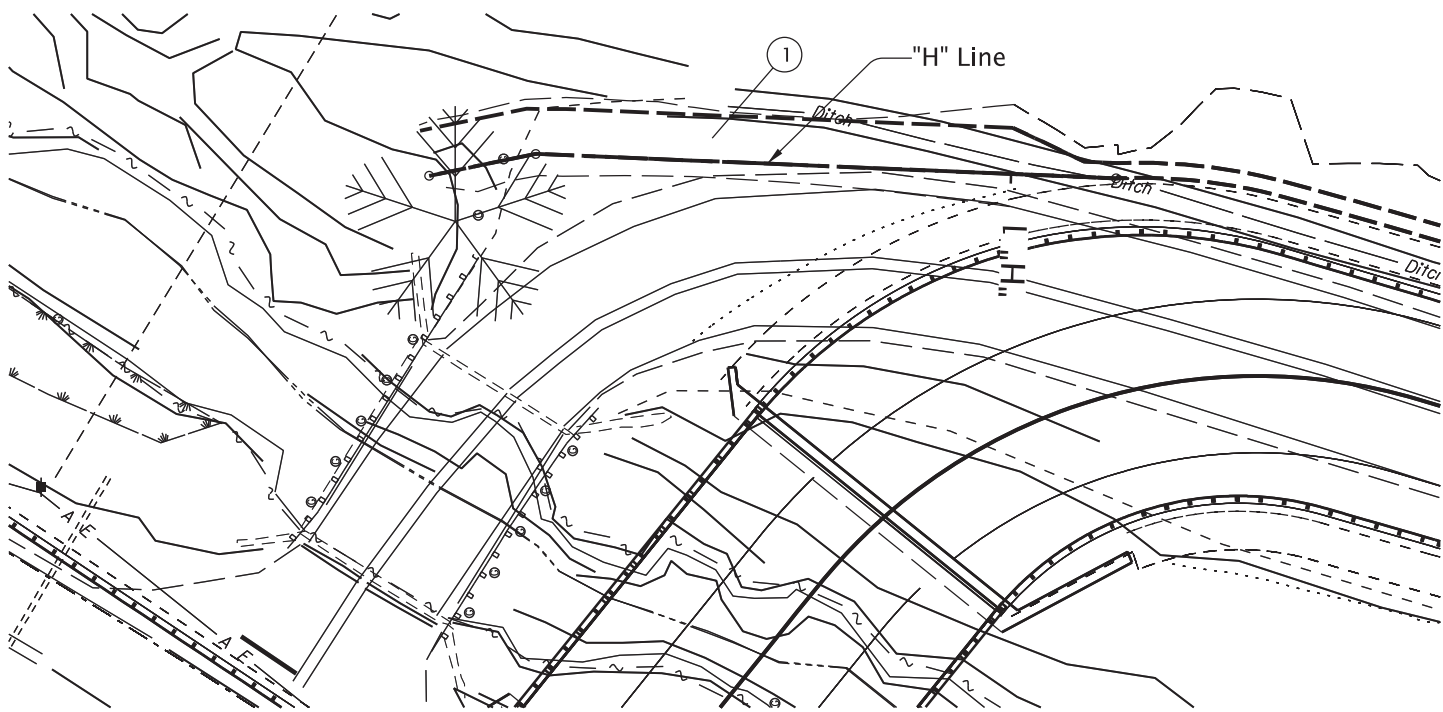
WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Gustavo Chaparro
CADD Tech: Judy Hardin
Reviewer: Chris Zelmer
Checker: Madison Quimby

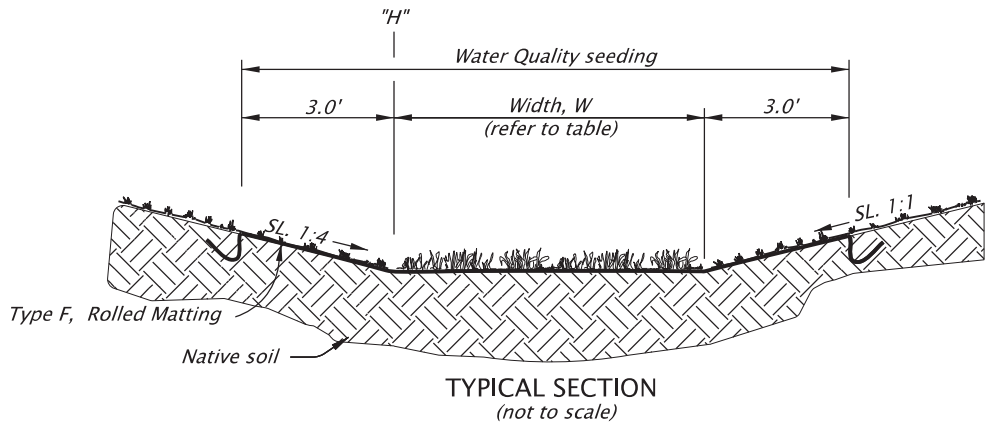
EROSION AND SEDIMENT CONTROL

SHEET NO.
FB01

WATER QUALITY SWALE



1 Sta. 'H' 1+00.0 to Sta. 'H' 1+75.0
Const. water quality swale
(For details, see this sht.)



BIOFILTRATION SWALE DATA						
Facility Name	Plan Sheet & Note #	STA. To STA.	W (ft.)	Longitudinal Slope (ft./ft.)	Side Slope Left (V:H)	Side Slope Right (V:H)
Water Quality Swale	C01, note 9	STA 1+00.0 TO STA 1+75.0	6	0.05	1:4	1:1

NOTES:
1. RD1055 channel application. Omit check slots.

Note: All dimensions are in feet unless otherwise noted.

REGISTERED PROFESSIONAL
ENGINEER
60211PE
Digitally Signed 2026.07.29 14:34:28 -07'00'
OREGON
JAN. 04, 2010
RICHARD C. CARSON

RENEWES: 12-31-2027

OREGON DEPARTMENT
OF TRANSPORTATION

WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

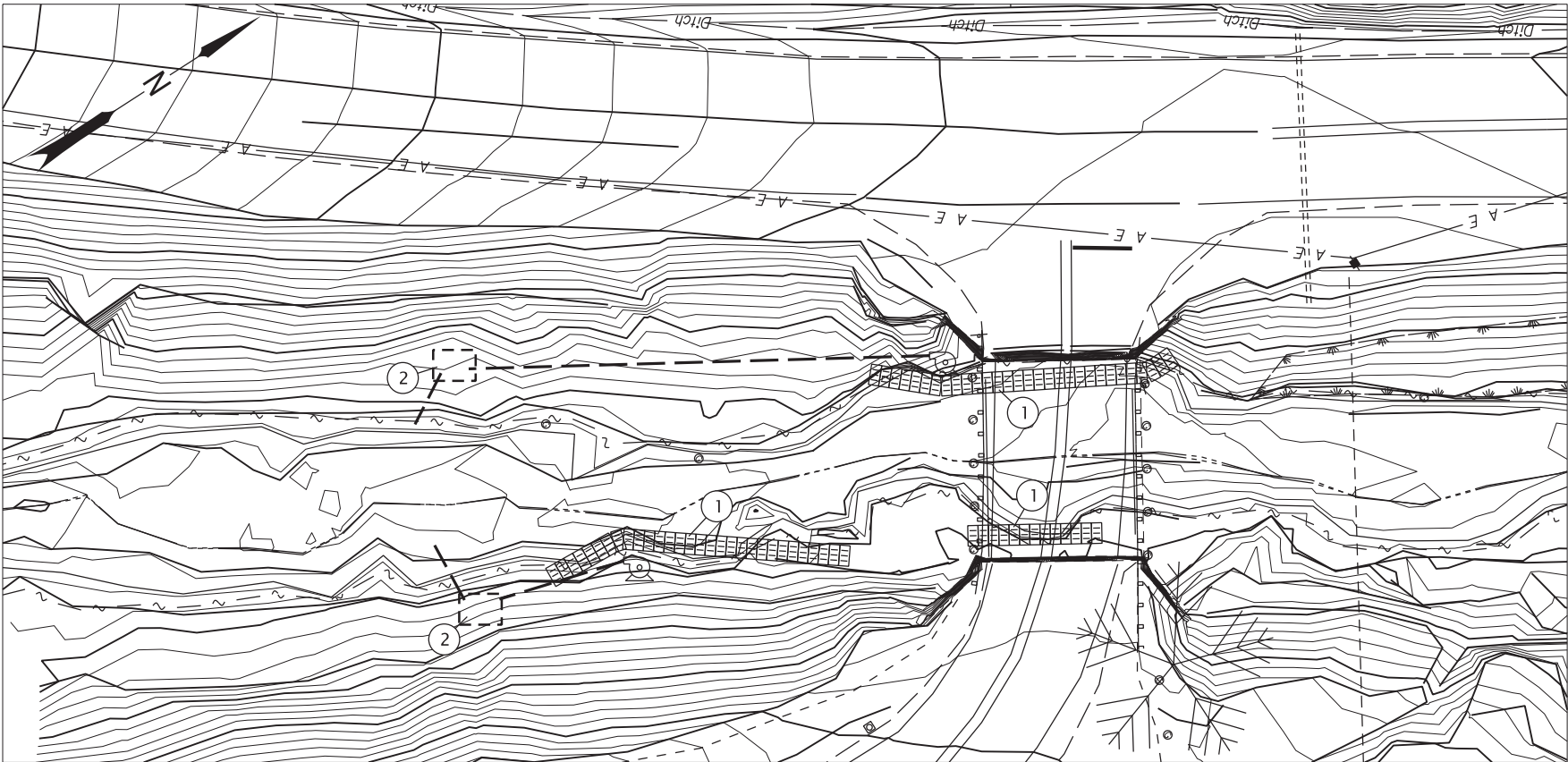
Designer: Richard Carson
CADD Tech: Richard Carson

Reviewer: Alan Babicky
Checker: Wade Coatney

STORMWATER PLAN

SHEET NO.
HA01

Sec.36, T.33S, R.7E, W.M.



PARTIAL ISOLATION NOTES

- 1 Isolating the work site: Install sandbag barrier along the stream channel. Size the barrier based on site and stream flow conditions. The discharge table below can be used to estimate water depth to establish the barrier width and height.
- 2 Provide adequate sediment control measures during dewatering of the work area to insure sediment laden water does not leave the site.

LEGEND

- Sandbag barrier line
- Sediment control facility
- Dewatering sump pump
- Hose / Pipe

GENERAL NOTES

The implementation of this Temporary Water Management Plan and the construction, maintenance, replacement and upgrading of this facility is the responsibility of the contractor until all construction is completed and approved.

The Temporary Water Management Facility shown on this plan is the minimum requirements for anticipated site conditions. During the construction periods, this facility shall be upgraded for unexpected storm events and to insure that sediment and sediment-laden water does not leave the site.

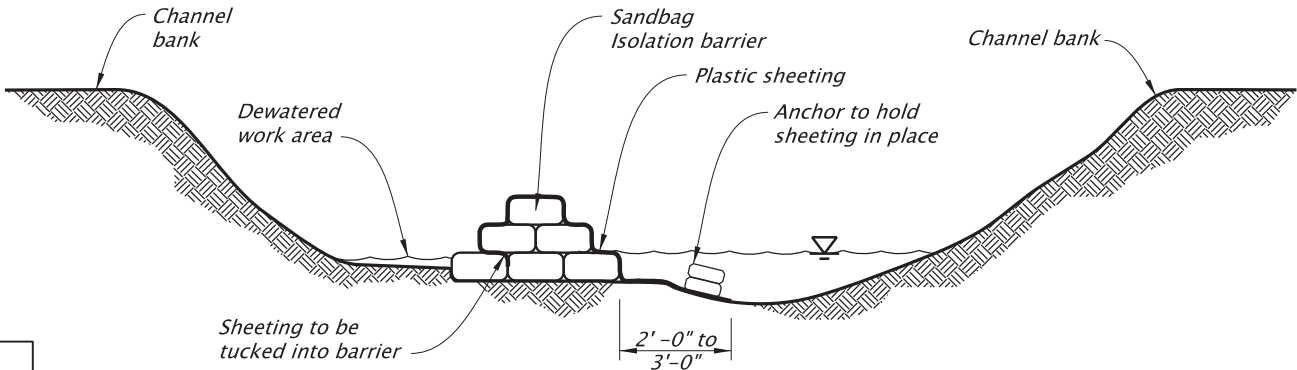
Remove all Temporary Water Management features and restore site as per plans and specifications.

WOLF CREEK. AT LOWER GRAVES CREEK. RD.

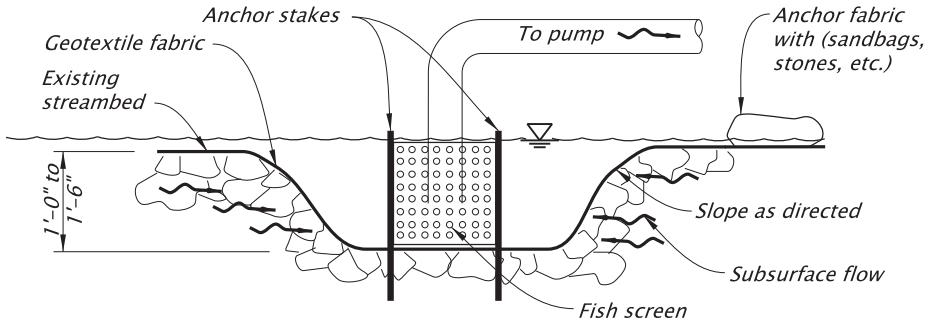
ESTIMATED DISCHARGES FOR
TEMPORARY WATER MANAGEMENT

	AVERAGE DAILY DISCHARGE IN CUBIC FEET PER SECOND (GALLONS PER MINUTE)		
NOTE	1	2	3
JUNE	138(1032.3)	63.3(473.5)	26.5(198.2)
JULY	17.6(131.7)	9.59(71.7)	6.35(47.5)
AUGUST	9.37(70.1)	3.17(23.7)	2.15(16.1)
SEPTEMBER	6.61(49.4)	4.1(30.7)	2.66(19.9)

1) Average daily discharge expected to be exceeded 2 days each month.
2) Average daily discharge expected to be exceeded 8 days each month.
3) Average daily discharge expected to be exceeded 16 days each month.
In-water work period extends from 15 June through 15 Septemeber.
Listed discharges are surface water from the upstream watershed. The estimated discharges are based on nearby gauged basins. Discharges in the subject watershed may differ.



PARTIAL ISOLATION DETAIL
NO SCALE



FISH SCREEN SUMP DETAIL
NO SCALE



RENEWES: 12-31-2025

OREGON DEPARTMENT
OF TRANSPORTATION



WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Richard Carson
CADD Tech: Richard Carson
Reviewer: Alan Babicky
Checker: Wade Coatney

TEMPORARY WATER MANAGEMENT

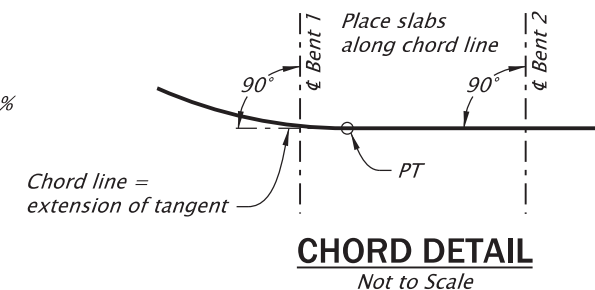
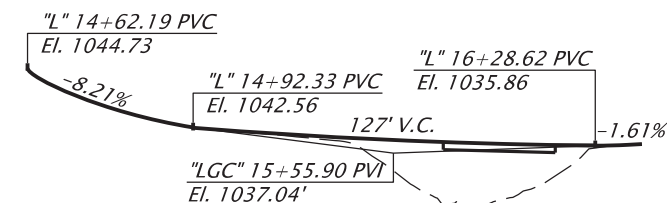
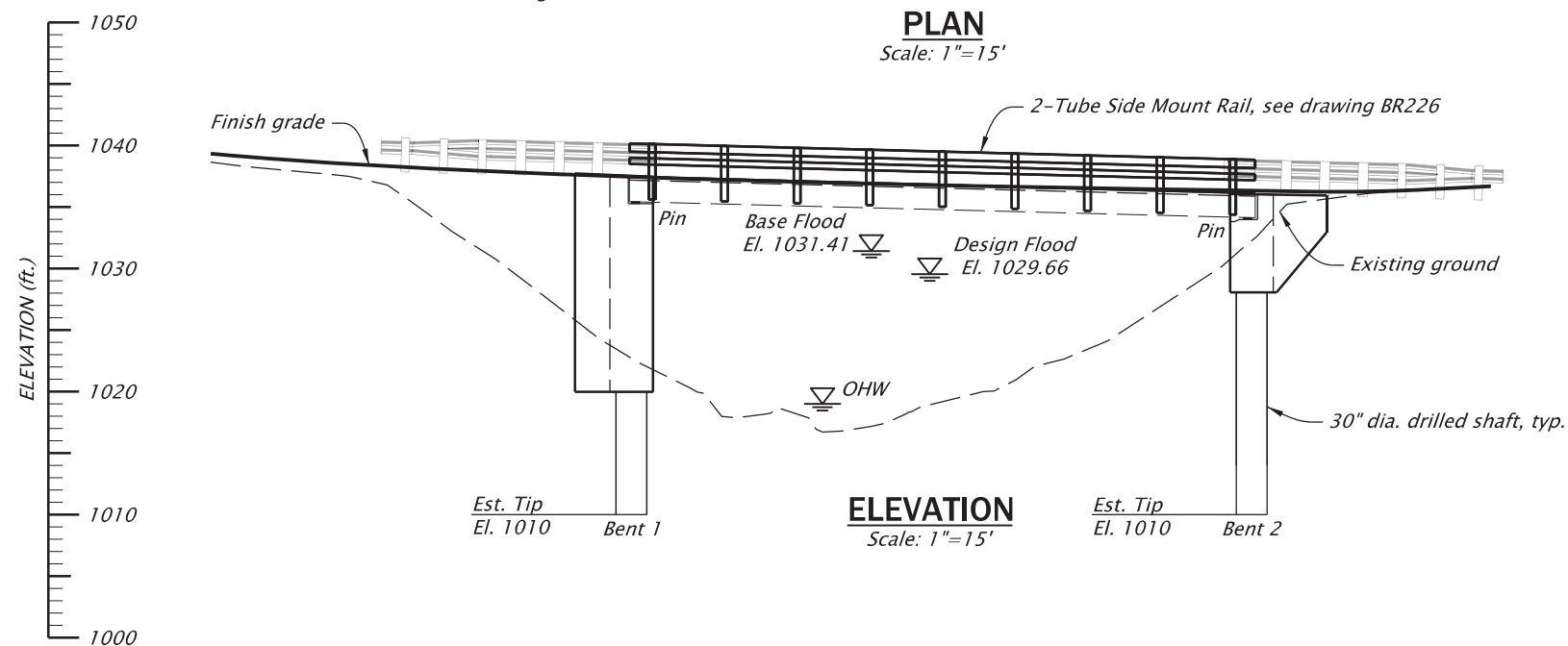
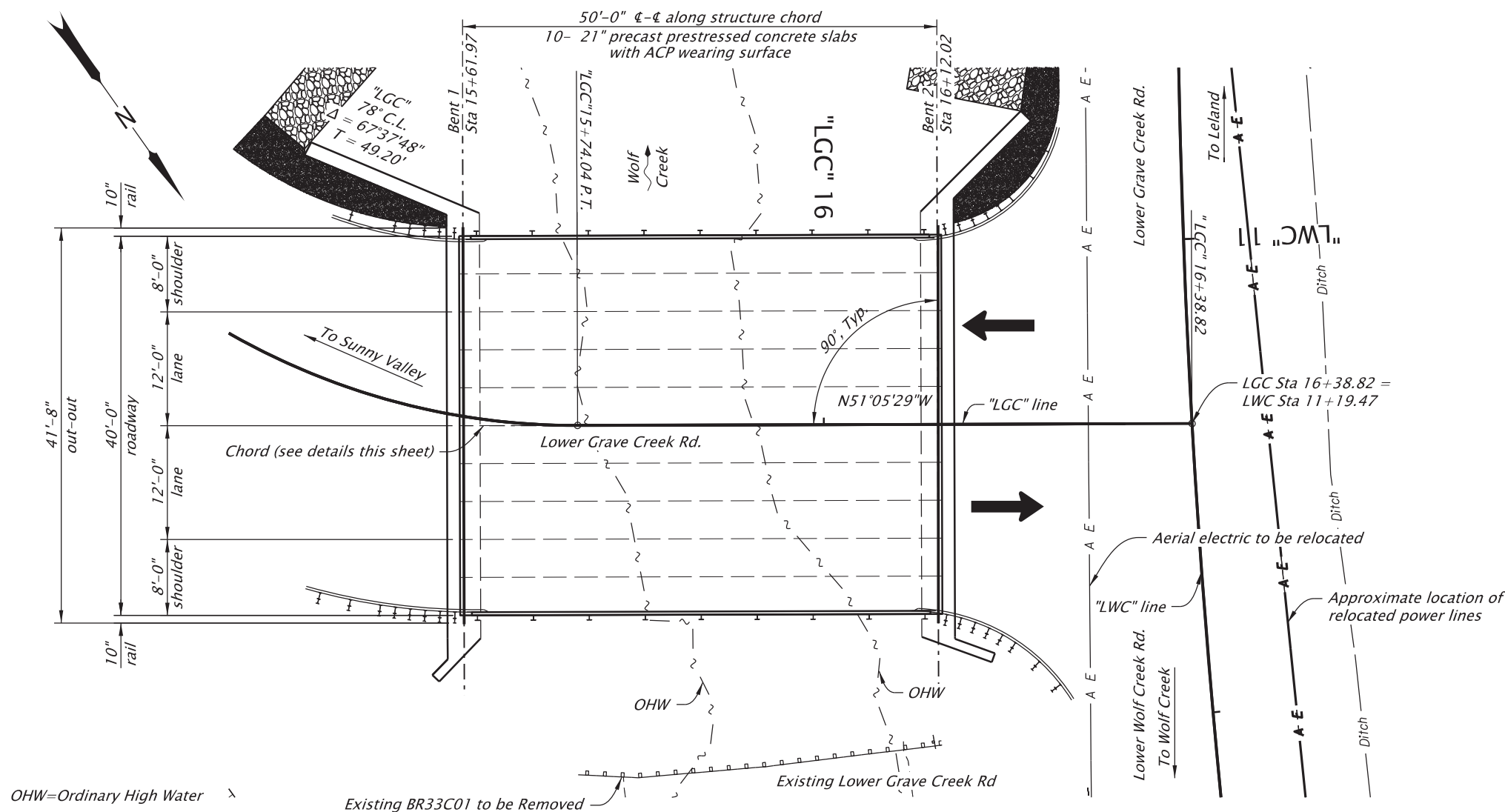
SHEET NO.
HD01

LOCATION MAP

SEC. 36, T. 33 S., R. 07 W., W.M.

LAT. 42.65767, LONG. -123.47617

HYDRAULIC DATA				
Items	Units	Design Flood	Base Flood	Maximum Probable Flood
Discharge	cfs	5290	6740	8420
Recurrence interval	yrs.	25	100	500
Approach Section Headwater Elevation with Bridge	ft.	1032.00	1033.94	1035.87
Upstream Face of Bridge	ft.	1029.66	1031.41	1033.47
Downstream Face of Bridge	ft.	1025.93	1025.93	1028.45
Waterway Area at Downstream Face of Bridge	ft.	417.02	453.23	517.28
Average Velocity at Downstream Face of Bridge	fps	12.69	14.87	16.28

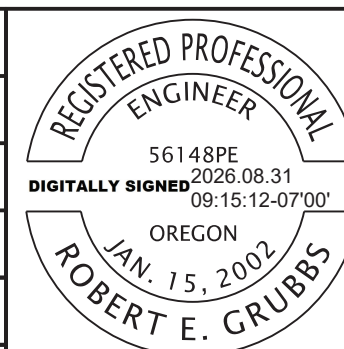


NOTE:
Elevations shown are based on
North American Vertical Datum 1988 (NAVD88).

ACCOMPANIED BY DRAWINGS:
J02-J12;
BR226, BR230, BR415

IF THIS MEASURES
1 INCH
THEN DRAWING IS TO SCALE

STRUCTURE NO.	24461
BDS DWG NO.	114469
CALC. BOOK	8028
HWY: NA	
M.P.: 2.55	
COUNTY	Josephine
DATE	July 2026



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

Replaces existing structure number 33C01

OREGON DEPARTMENT
OF TRANSPORTATION



Wolf Cr_Lower Grave Cr Rd
**WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT**
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Regan Campbell
CADD Tech: Dan Faas

Reviewer: Robert Grubbs
Checker: Josh Beattie

PLAN AND ELEVATION

SHEET NO.
J01

GENERAL NOTES

DESIGN NOTES:

Bridge is designed in accordance with the 2024 10th edition of the "AASHTO LRFD Bridge Design Specifications" and October 2024 edition of the "Oregon Bridge Design Manual in the Bridge Design Category 'Bridge Modernization'" as modified by the following: Design Deviation 26R3-0015 for omitting Approach Slabs.

Design includes an allowance of 50psf for present wearing surface and 40psf for future for future wearing surface and all of the following Live Loads:

- Service and Strength I Limit States:
HL-93: Design truck (or trucks per LRFD 3.6.1.3) or the design tandems and the design lane load.
- Strength II Limit State:
ODOT Type STP-5BW Permit truck
ODOT Type STP-4E Permit truck
EV3 truck

Seismic design is performed in accordance with the "AASHTO Guide Specifications for LRFD Seismic Bridge Design" as modified by the October 2025 edition "ODOT Bridge Design Manual". For the bridge site with Latitude 42.6576°N and Longitude 123.4761°W and an assumed time-averaged shear wave velocity of 2500 ft/s, the design response spectral acceleration coefficient at a period of zero seconds for 1000 year Ground Motions is 0.2779, and SDC of B.

CONSTRUCTION NOTES:

Provide all materials and perform all work according to the "Oregon Standard Specifications for Construction 2024".

Provide all reinforcing steel according to ASTM Specification A706, or AASHTO M31 (ASTM A615) Grade 60. (Provide Field bent stirrups according to ASTM Specification A706.) Use the following splice lengths (unless shown otherwise):

Reinforcing Splice Lengths (Class B) Grade 60 $f_c = 3.3\text{ ksi}$, $\lambda_{rc} = 0.4$, 2" min. concrete clear cover										
Bar Size	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14 & #18
Uncoated	1'-4"	1'-9"	2'-2"	2'-7"	3'-0"	3'-5"	3'-10"	4'-4"	4'-10"	Not permitted

Reinforcing Splice Lengths (Class B) Grade 60 $f_c = 4.0\text{ ksi}$, $\lambda_{rc} = 0.4$, 2in min. concrete clear cover										
Bar Size	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14 & #18
Uncoated	1'-4"	1'-7"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"	4'-0"	4'-5"	Not permitted

Increase all splice lengths 30% for horizontal or nearly horizontal bars so placed that more than 12" of fresh concrete is cast below the bar.

Splice reinforcing steel at alternate bars, staggered at least one splice length or as far as possible, unless shown otherwise.

Support the bottom mat reinforcing steel from the forms with precast mortar blocks at 24" maximum centers each way. Support the top mat of reinforcing steel from the bottom mat of reinforcing steel with wire bar supports as shown in Chapter 3 of the "CRSI Manual of Standard Practice" (SBU, BBU, or CHCU). Place wire bar supports at 24" maximum centers.

Place bars 2" clear of the nearest face of concrete (unless shown otherwise).

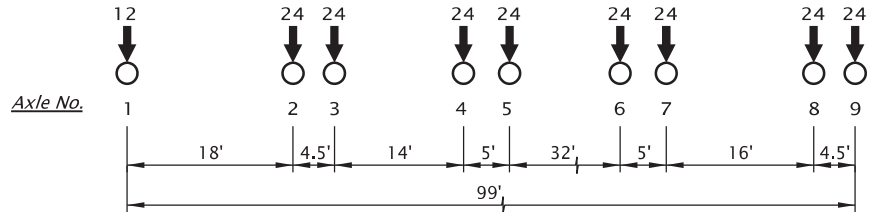
Provide 4000 - 3/8 drilled shaft concrete

Provide Class 3300 - 1 1/2, 1 or 3/4 concrete for all other concrete.

Provide prestressing steel according to detail plans.

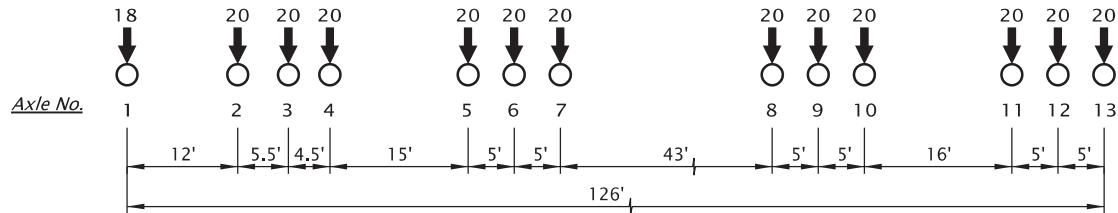
TYPE OR-STP-5BW

9 Axle Vehicle
Gross Weight = 204K



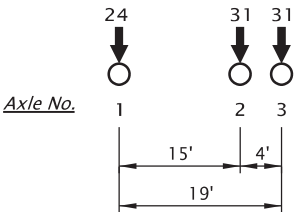
TYPE OR-STP-4E

13 Axle Vehicle
Gross Weight = 258K



EV3 Truck

3 Axle Emergency Vehicle
Gross Weight = 86K

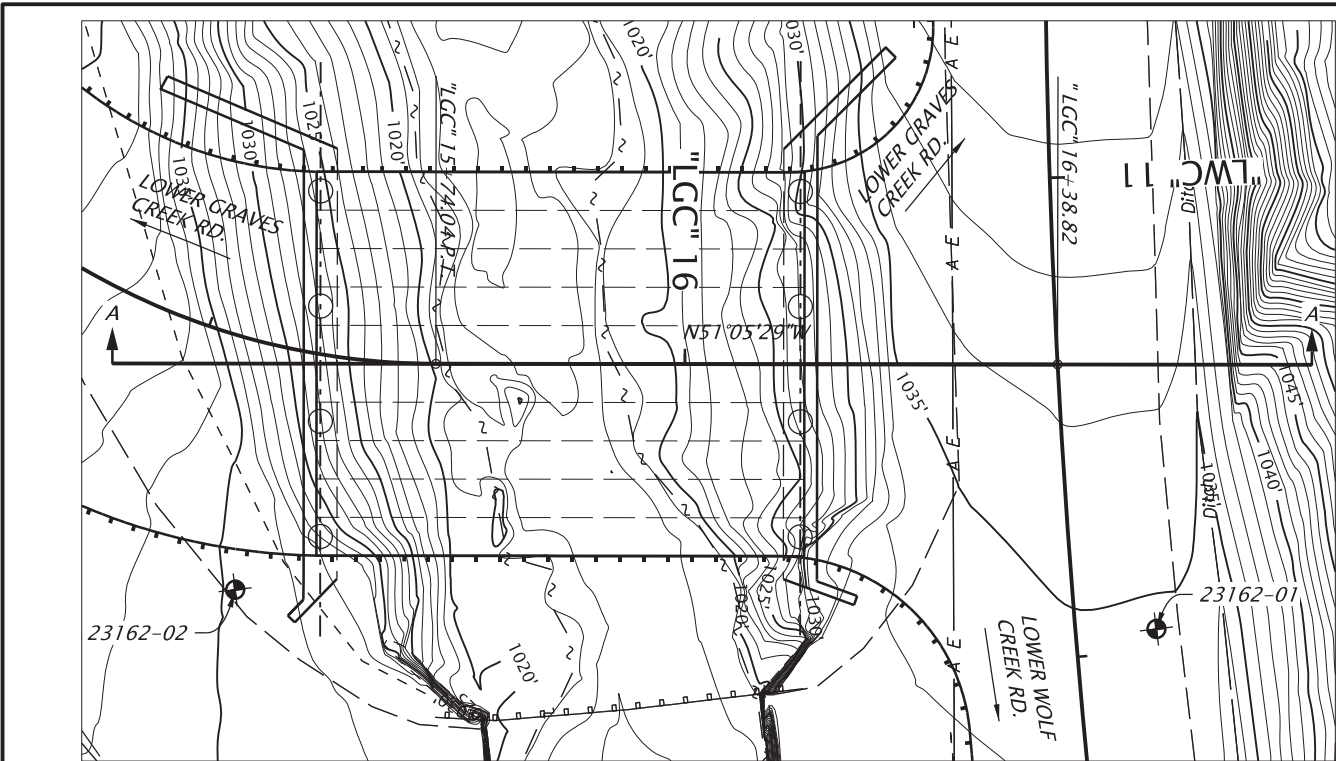


OREGON PERMIT LOADS FOR STATE OWNED BRIDGES

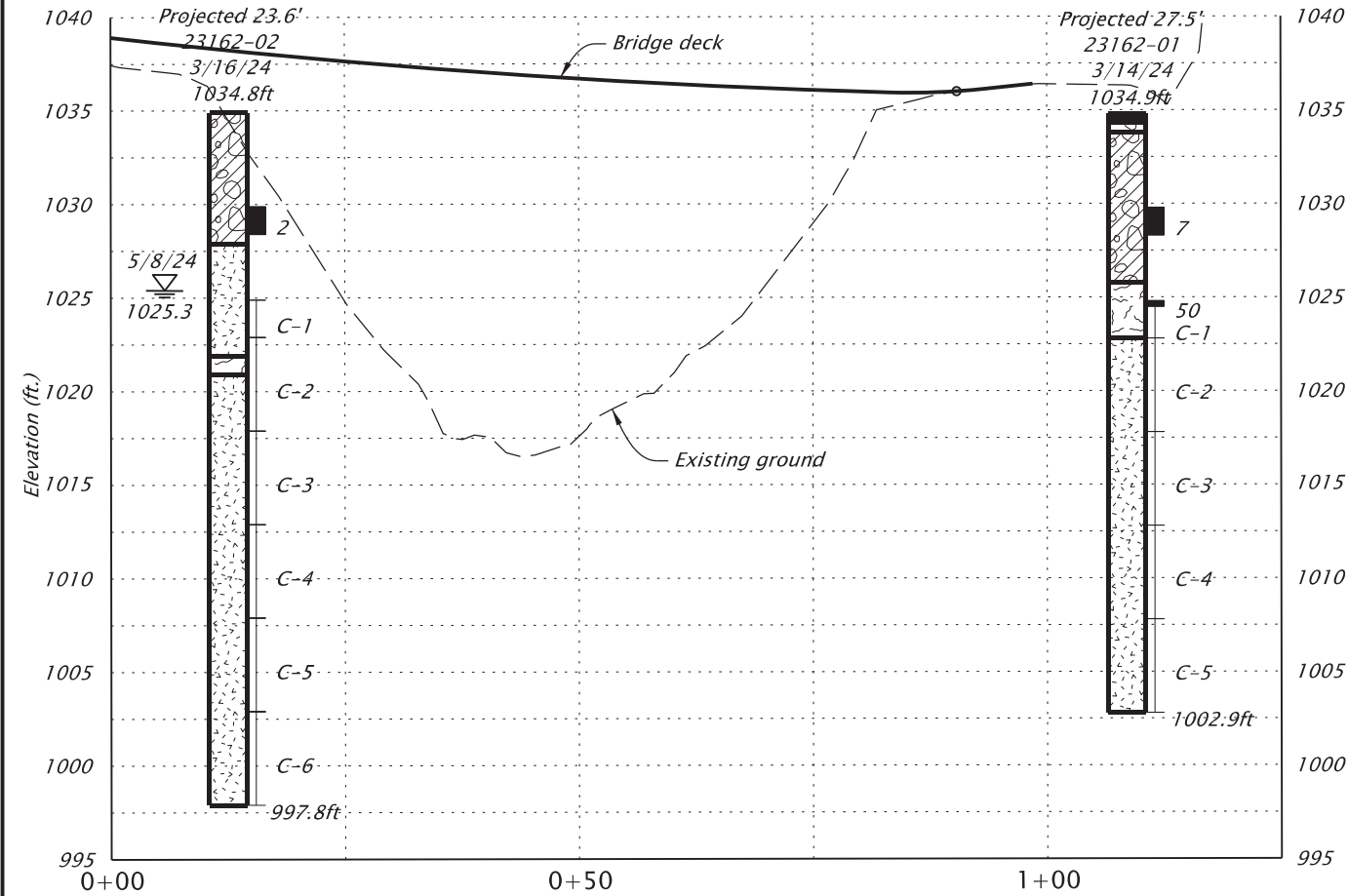
Note: Units are kips and Feet

For accompanied by drawings, see sht. J01

STRUCTURE NO. 24461		OREGON DEPARTMENT OF TRANSPORTATION	
BDS DWG NO. 114470		Wolf Cr_Lower Grave Cr Rd	
CALC. BOOK 8028		WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
HWY: NA M.P.: 2.55		Designer: Regan Campbell	Reviewer: Robert Grubbs
COUNTY Josephine		CADD Tech: Dan Faas	Checker: Josh Beattie
DATE July 2026	GENERAL NOTES		SHEET NO. J02



SITE PLAN
Scale: 1"=20'



SECTION A-A
Scale: V= 1"=10'
Scale: H= 1"=20'

LEGEND

- Drill hole
- C-1 = Core sample
- R.Q.D. = Rock Quality Designation
- 24 = Standard Penetration Test - Uncorrected N value
- Maximum Groundwater
- 00.00' = Maximum Groundwater Elevation
- X/X/XXXX = Date of Maximum Ground Water Level
- Edge of Asph.
- Edge of Gravel
- Bridge Super General
- A E = Above Ground Electrical
- ~ ~ ~ = Ordinary High Water
- Existing Guardrail
- Guardrail
- Ditch line

UNIT DESCRIPTIONS

Asphaltic Concrete (PAVEMENT SECTION)

Aggregate Base (PAVEMENT SECTION)

Clayey GRAVEL to Clayey GRAVEL with some sand, GC, blue/gray, brown, non plastic to medium plasticity fines, wet, very loose to loose, angular (FILL: Unit 1)

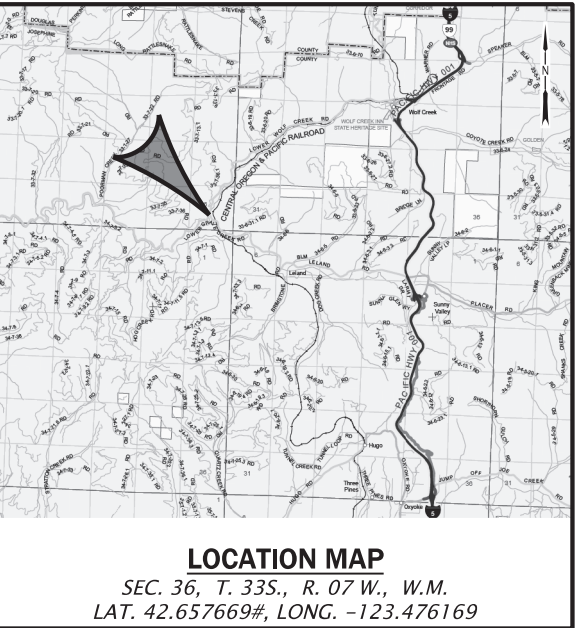
Weathered Serpentinized PERIDOTITE, brown, blue/green, white, decomposed to moderately weathered, extremely weak to weak (R0-R2), very close to close jointing, joint staining, clay joint infill (ROGUE FORMATION: Unit 2a)

Serpentinized PERIDOTITE, blue/green, white, green, gray, slightly weathered to fresh, generally medium strong to very strong (R3-R5) with locally weak zones, close to wide jointing, joint staining, SiO2/FeS2 infill (ROGUE FORMATION: Unit 2b)

23162-02			
Core	% Rec.	Hardness	R.Q.D.
C1	100	R3-R5	90
C2	88	R0-R5	50
C3	100	R3-R5	100
C4	100	R4-R5	100
C5	100	R4-R5	80
C6	100	R4-R5	80

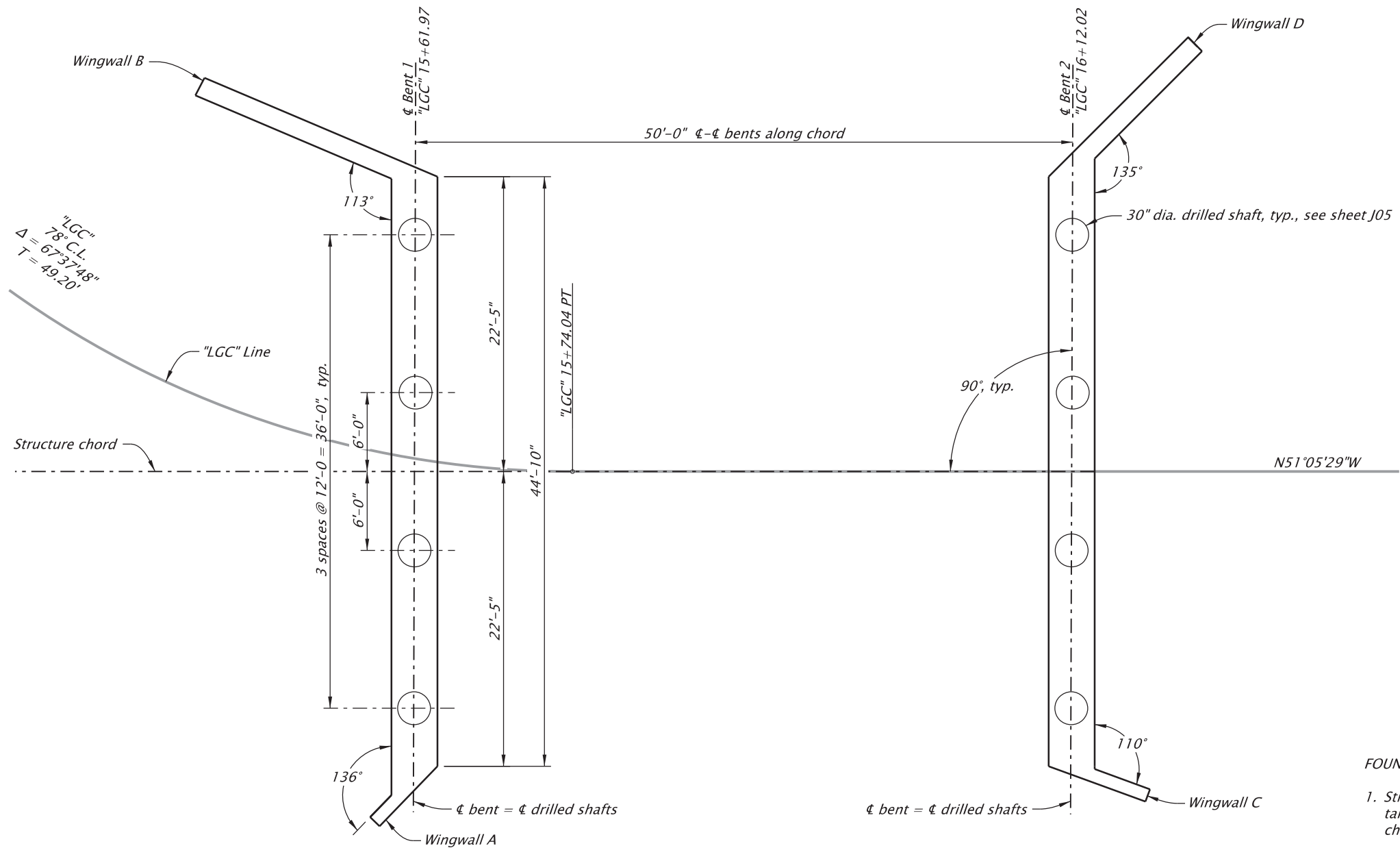
23162-01			
Core	% Rec.	Hardness	R.Q.D.
C1	0	R0	0
C2	90	R3-R5	60
C3	100	R3-R5	100
C4	100	R3-R5	92
C5	100	R3-R5	82

- GENERAL NOTES:**
- Elevations are based on North American Vertical Datum (1988).
 - Geotechnical data shown on this drawing are a consolidation of information and/or revision in terminology from the drill logs. Estimated groundwater levels, if provided, are for reference only; the absence of a groundwater symbol may indicate that groundwater was not specifically measured. More detailed subsurface data is available on the drill logs in the geotechnical report, which is available from the Engineer.
 - In accordance with ASTM D1586, N values are reported for an interval of 1 ft., except as noted.
 - While not encountered during drilling, cobbles and boulders present on the surface of the fill slopes indicate that these materials may be present within the fill.



For accompanied by drawings, see sht. J01

STRUCTURE NO. 24461		OREGON DEPARTMENT OF TRANSPORTATION	
BDS DWG NO. 114471		Wolf Cr_Lower Grave Cr Rd	
CALC. BOOK		WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT	
HWY: NA M.P.: 2.55		LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
COUNTY Josephine		Designer: Jill DeKoekkoek	Reviewer: Colin Cunningham
DATE July 2026	CADD Tech: Dan Faas	Checker: N/A	
EXPIRES: 05-01-2027		GEOTECHNICAL DATA	SHEET NO. J03



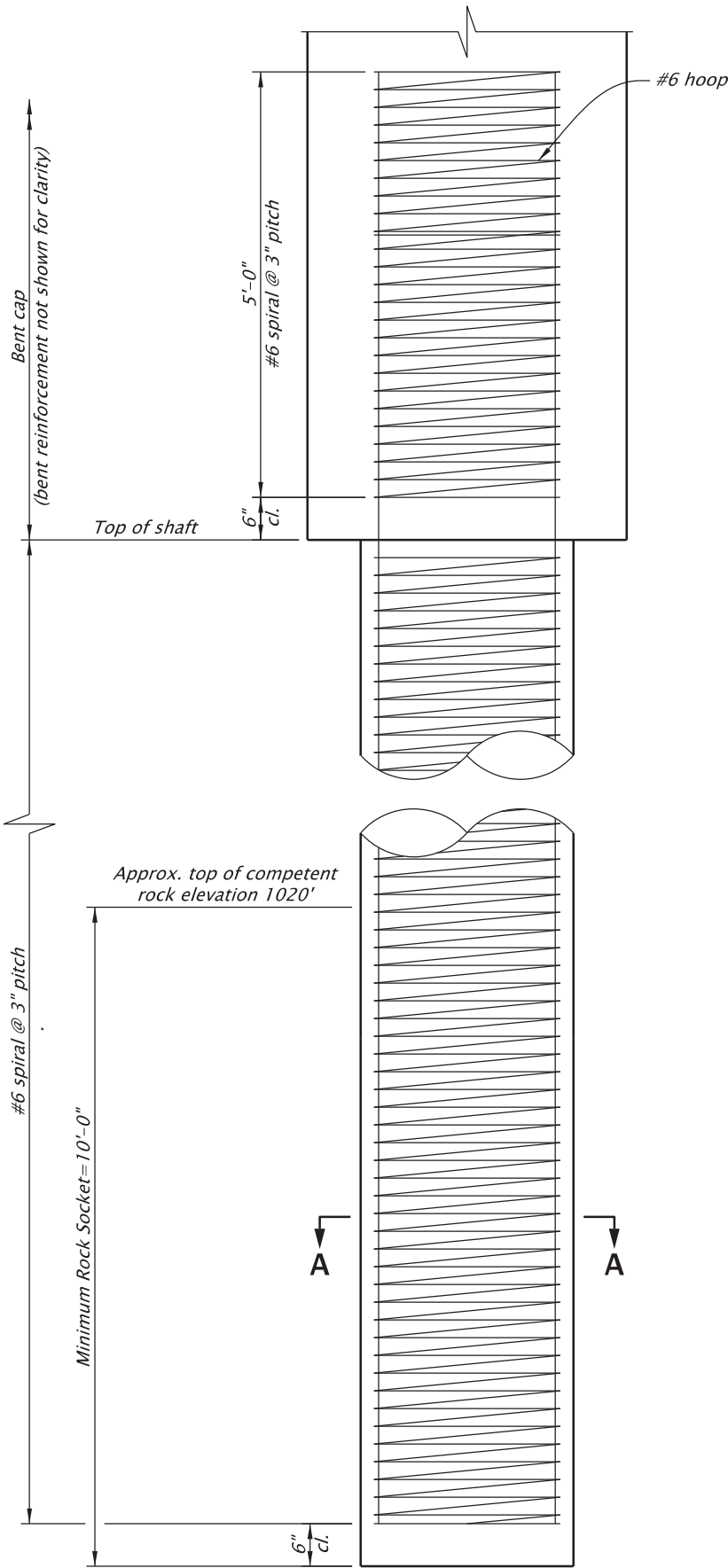
FOUNDATION PLAN
Scale: 1" = 10'

- FOUNDATION GENERAL NOTES:
1. Structure chord = bridge centerline along "LGC" tangent from Bent 2 intersection. See J01 for chord details
 2. Bents are parallel.
 3. See Wingwall Plan on sheet J11.

For accompanied by drawings, see sht. J01

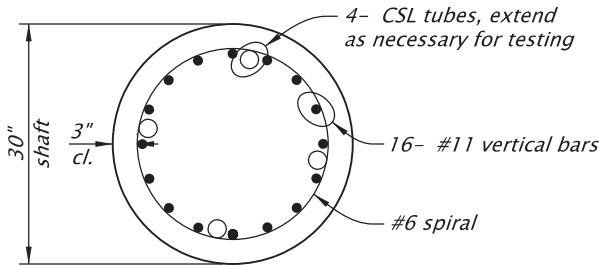
STRUCTURE NO. 24461	REGISTERED PROFESSIONAL ENGINEER 56148PE DIGITALLY SIGNED 2026.07.28 06:24:03-07'00' OREGON JAN. 15, 2002 ROBERT E. GRUBBS RENEWES: 06-30-2027	OREGON DEPARTMENT OF TRANSPORTATION	
BDS DWG NO. 114472		Wolf Cr_Lower Grave Cr Rd	
CALC. BOOK 8028		WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
HWY: NA M.P.: 2.55		Designer: Regan Campbell	Reviewer: Robert Grubbs
COUNTY Josephine		CADD Tech: Dan Faas	Checker: Josh Beattie
DATE July 2026	FOUNDATION PLAN		SHEET NO. J04

IF THIS MEASURES
1 INCH
THEN DRAWING IS TO SCALE



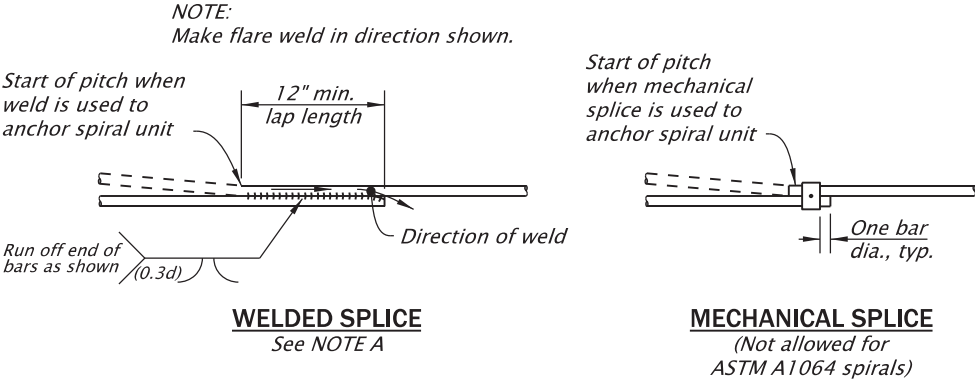
Final shaft tip elevation to be determined on field verified top of competent rock elevation and detailed rock socket.

ELEVATION
Scale: 1/2" = 1'-0"



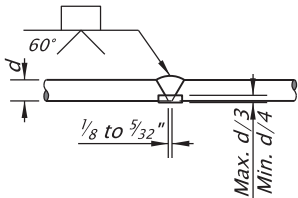
SECTION A-A
Scale: 1/2" = 1'-0"

IF THIS MEASURES
1 INCH
THEN DRAWING IS TO SCALE



SPIRAL SPLICE/TERMINATION DETAIL

NOTE A:
Use ASTM A706 for all welded splices, except ASTM A615 Grade 60, ASTM A1064 may be used if copies of the chemical composition analysis are submitted and approved as weldable by the Engineer. Anchor spirals at each end or discontinuity with one extra turn and a splice to itself as shown.

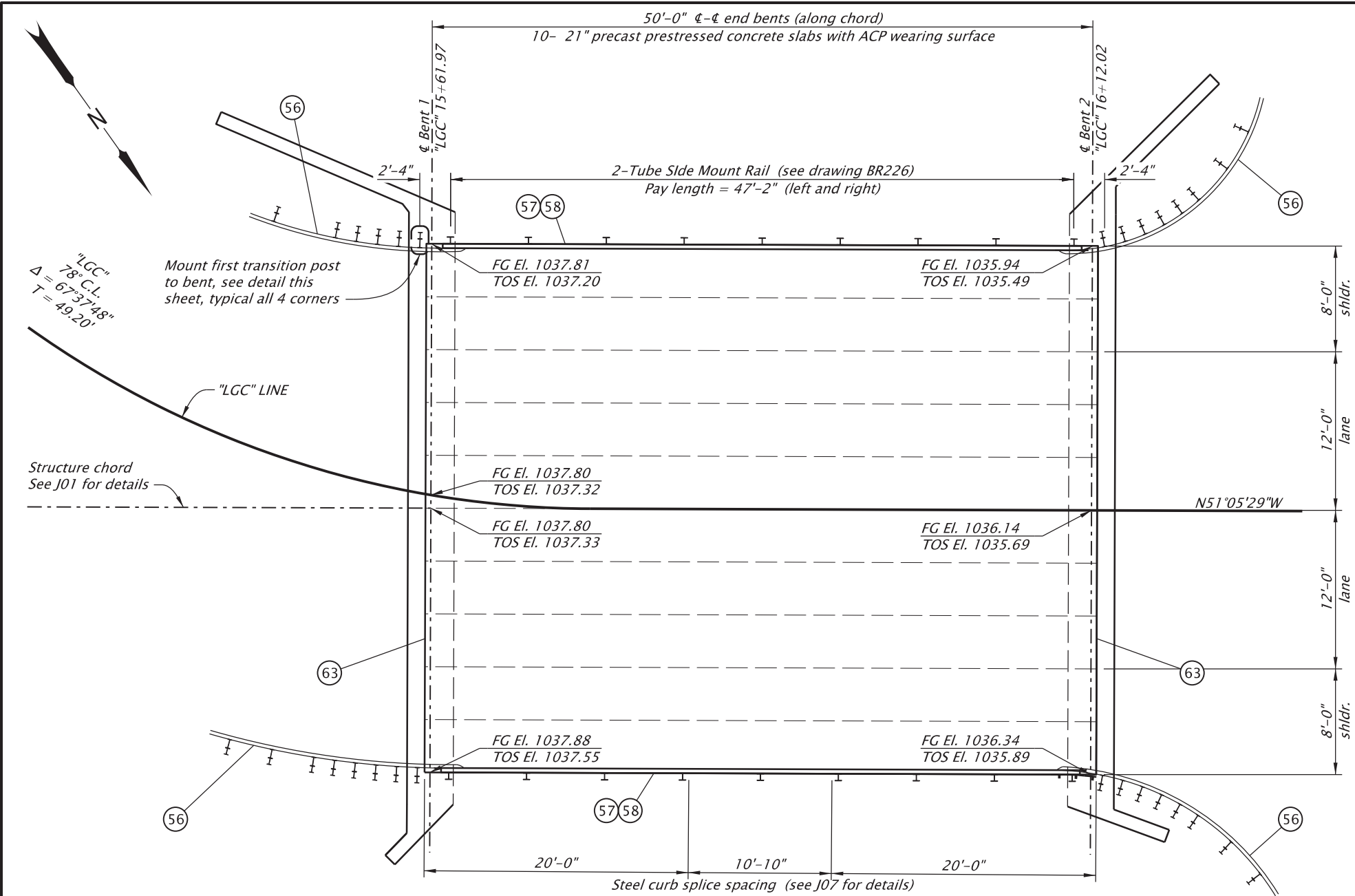


**ALTERNATE WELDED SPLICE
(EXCEPT ASTM A1064)**

Weld reinforcing steel splices in accordance with ANSI/AWS D1.4 "Structural Welding Code Reinforcing Steel"

For accompanied by drawings, see sht. J01

STRUCTURE NO. 24461	REGISTERED PROFESSIONAL ENGINEER 56148PE DIGITALLY SIGNED 2026.08.06 09:35:16-07'00' OREGON JAN. 15, 2002 ROBERT E. GRUBBS	OREGON DEPARTMENT OF TRANSPORTATION		
BDS DWG NO. 114473		Wolf Cr_Lower Grave Cr Rd		
CALC. BOOK 8028		WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY		
HWY: NA M.P.: 2.55		Designer: Regan Campbell	Reviewer: Robert Grubbs	
COUNTY Josephine	CADD Tech: Dan Faas	Checker: Josh Beattie		
DATE July 2026	RENEW: 06-30-2027	DRILLED SHAFT DETAILS		SHEET NO. J05



DECK PLAN
Scale: 1" = 10'

WORK ITEMS:

- 56 Standard Guardrail transition, see drawing RD203
- 57 Standard 2-Tube Side Mount Rail, see drawings BR226 and BR230
- 58 L8x8x1/2 steel curb, see sheet J07 for details
- 63 Control joint

NOTES:
Deck elevations shown are at gutter line, centerline of bent, and at structure chord, as shown.

FG = finish grade

TOS = top of prestressed slab, based on calculated camber, to be adjusted as required to accommodate actual measured camber.

Chord = bridge ϕ along "LGC" tangent from Bent 2 intersection. Place prestressed slabs parallel to and centered on chord.

See Roadway plans for guardrail transition curvature.

RAIL POST NOTES:

Install posts normal to grade.

Provide all structural steel (except anchor bolts) conforming to AASHTO M183 (ASTM A36).

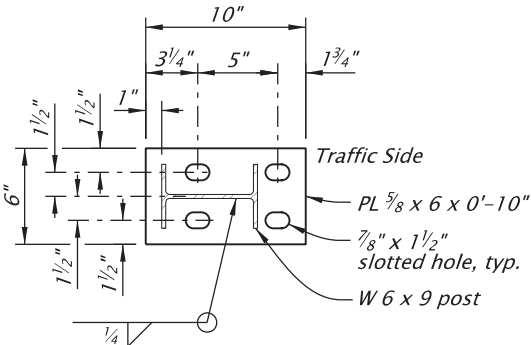
Provide all bolts meeting ASTM A307, except as noted.

Hot-dip galvanize all structural steel after fabrication.

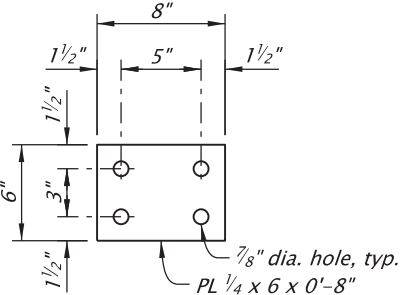
Provide Grade 36 anchor bolts according to ODOT Specification 02560.30 (a) (Alternate "A").

Provide and install Grade 36 resin bonded anchors according to ODOT Specification 00535.

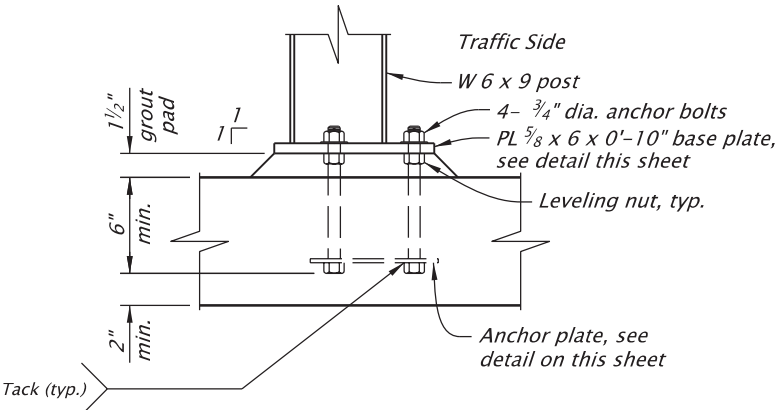
Rail Anchorage Alternates, Rail Base Plate, and Alternate Anchor Plate details are only applicable to guardrail transition posts at bents.



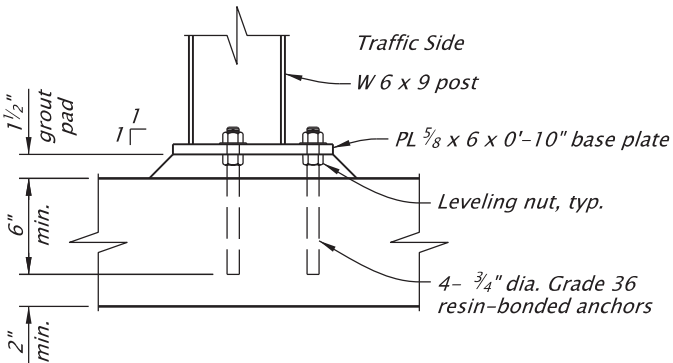
BASE PLATE
Scale: 1" = 1'-0"



ALTERNATE 'A' ANCHOR PLATE
Scale: 1" = 1'-0"



ANCHORAGE - ALTERNATE 'A'
Scale: 1" = 1'-0"



ANCHORAGE - ALTERNATE 'B'
Scale: 1" = 1'-0"

FIRST POST DETAILS

IF THIS MEASURES
1 INCH
THEN DRAWING IS TO SCALE

For accompanied by drawings, see sht. J01

STRUCTURE NO. 24461	REGISTERED PROFESSIONAL ENGINEER 56148PE DIGITALLY SIGNED 2026.07.28 06:23:23-07'00' OREGON JAN. 15, 2002 ROBERT E. GRUBBS	OREGON DEPARTMENT OF TRANSPORTATION		
BDS DWG NO. 114474		Wolf Cr_Lower Grave Cr Rd		
CALC. BOOK 8028		WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY		
HWY: NA M.P.: 2.55		Designer: Regan Campbell	Reviewer: Robert Grubbs	
COUNTY Josephine	RENEW: 06-30-2027	CADD Tech: Dan Faas	Checker: Josh Beattie	
DATE July 2026		DECK PLAN		
		SHEET NO. J06		

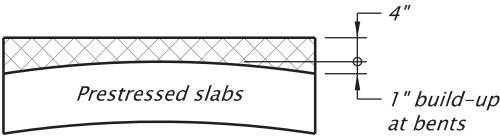
*ACP thickness at Bent 1 varies due to curve and superelevation.

Minimum ACP ----- 4"

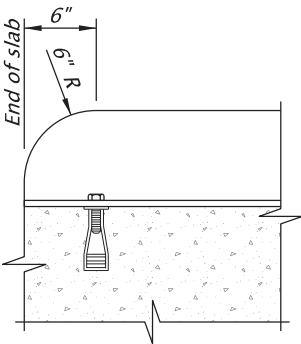
Anticipated camber @ 3 months ----- 2"

Downward due to SIDL ----- 1/2"

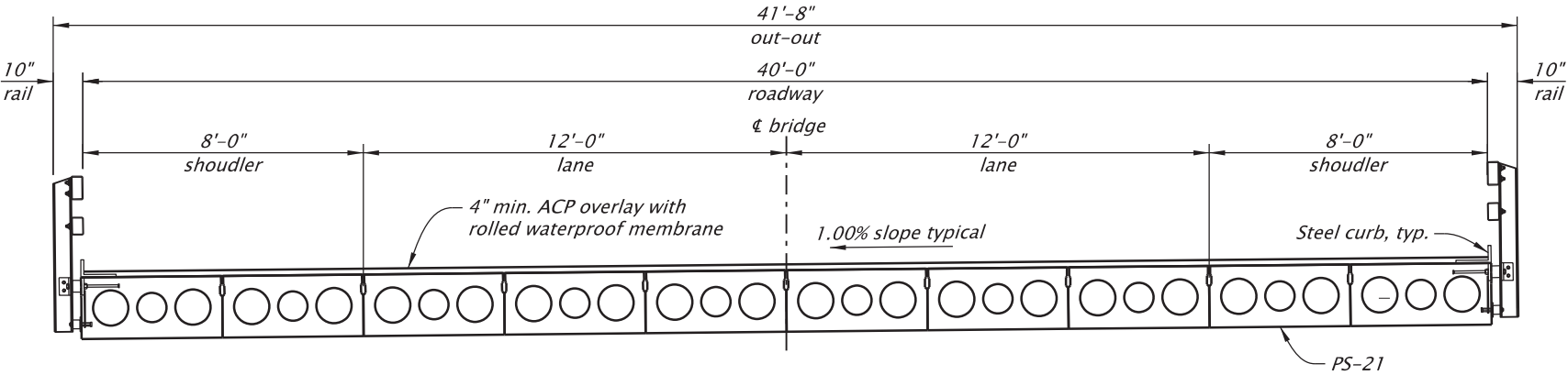
ACP thickness @ bents * ----- 5 1/2"



ACP BUILD-UP DETAIL
Not To Scale



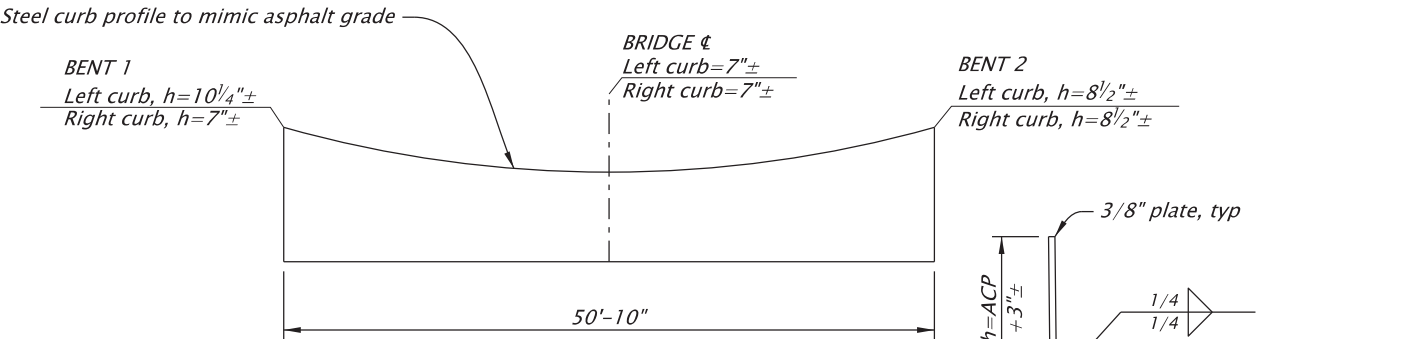
CURB END DETAIL
Scale: 3/4"=1'-0"



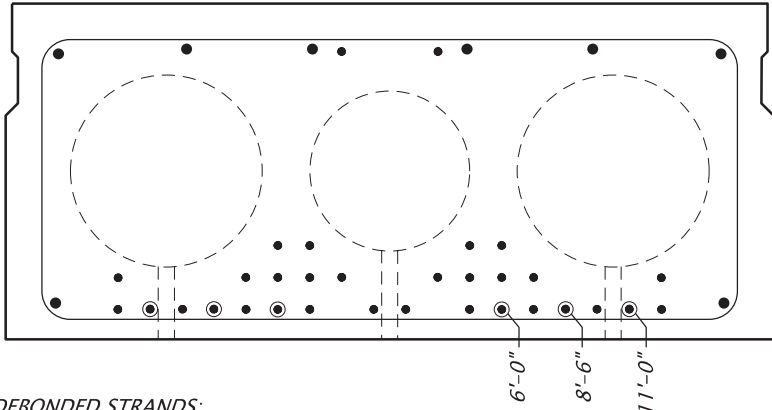
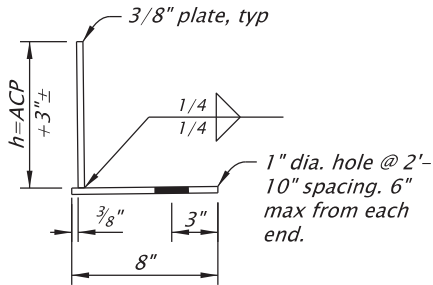
TYPICAL SECTION
Scale: 1"=5'

21" PRECAST PRESTRESSED SLAB SCHEDULE																
Slab Number	Span Number	Horizontal Length o-o at slab CL, ft. (after shortening)	Skew Angle		Number of Strands	Debonded Strands	Distance "Yc" to c.g. strand at midspan, in.	Distance "Yu" to c.g.s. at midspan subtracting top strand, in.	Concrete Strength @ 28 Days, KSI	Concrete Strength @ Release, KSI	Initial Tension per Strand, Kips	Estimated Midspan Deflection (Inches)				Est. Shortening 2 weeks after Release (Inches)
			Back	Ahead								Upward at Release	Upward 3 months after Release	Downward Due to SIDL	Downward Due to SIDL 5 years after Loading	
21	1	50'-10"	0°	0°	32	6	4.01"	3.08"	6.0	5.0	202.5	1 1/8"	2"	1/2"	7/8"	3/8"

The superimposed dead load (SIDL) is 94 lbs./ft.2 which includes the deck, present wearing surface, bridge rails, and allowance for a 3" depth of future wearing surface.

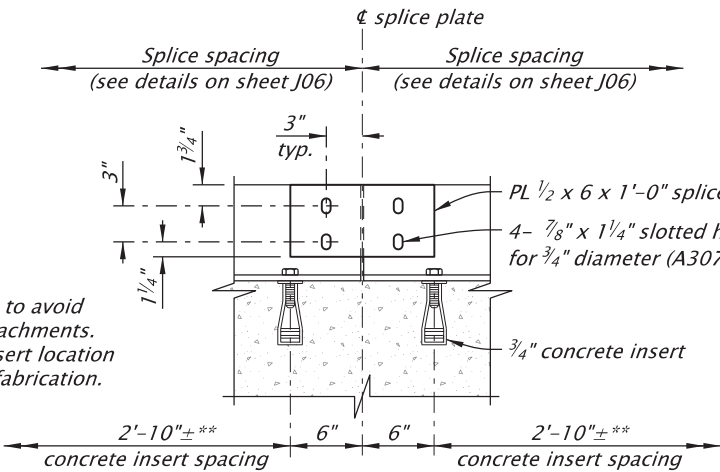


STEEL CURB DETAIL
Scale: 1/5"=1'-0"

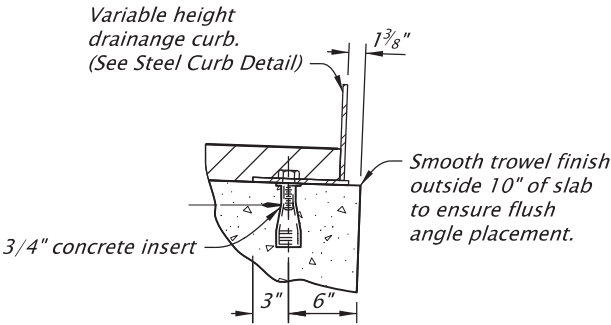


DEBONDED STRANDS:
Dimension shown indicates length of tube required, at both ends, to debond the indicated strand. See '21" PRECAST PRESTRESSED SLAB SCHEDULE' for strand pattern detail. Detension strands in order of increasing tube length shown. See BR415 and BR445 for details not shown.

TYPICAL SECTION
Scale: 1"=1'-0"



SPLICE DETAIL
Scale: 3/4"=1'-0"



ANGLE DETAIL
Scale: 3/4"=1'-0"

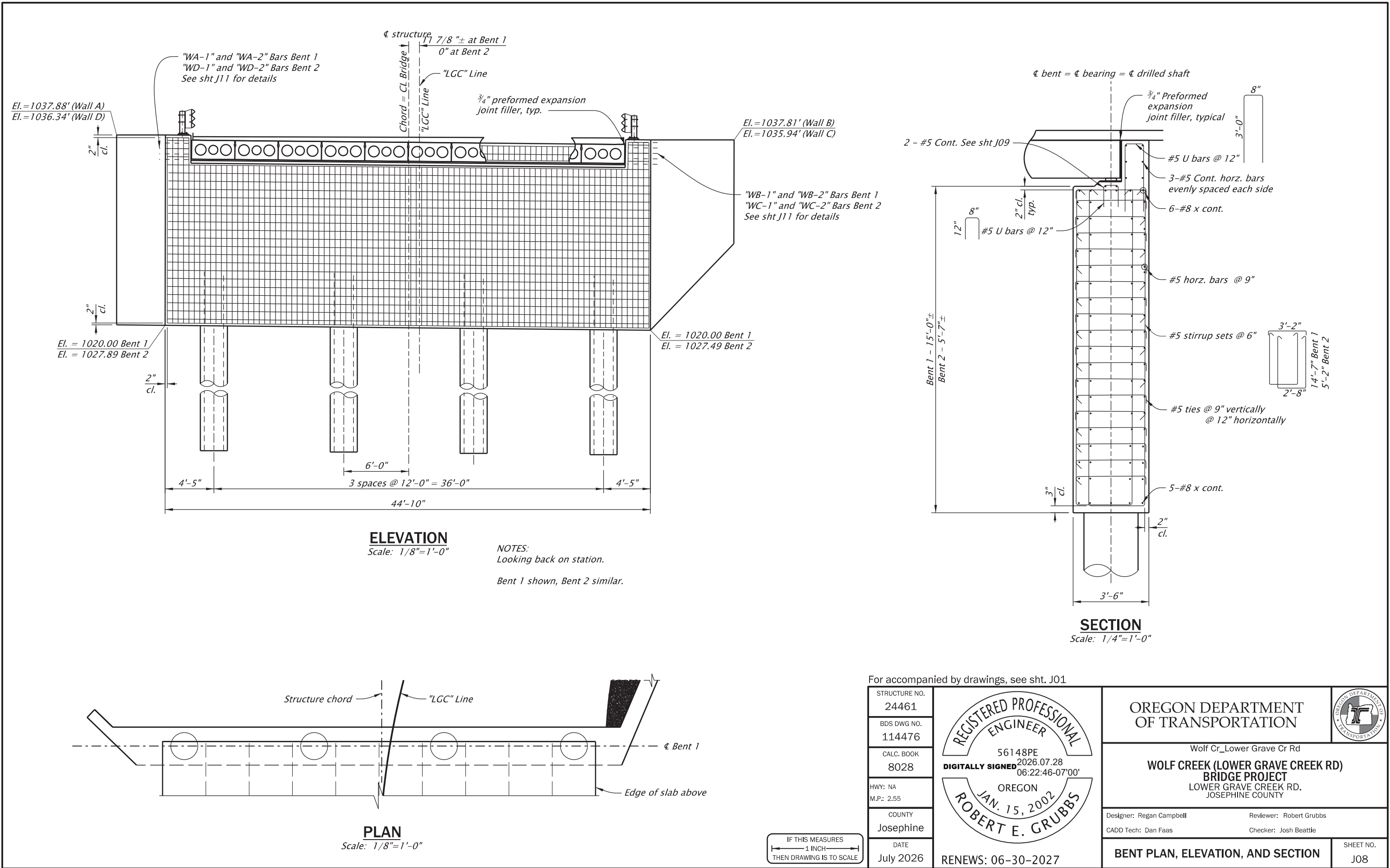
IF THIS MEASURES
1 INCH
THEN DRAWING IS TO SCALE

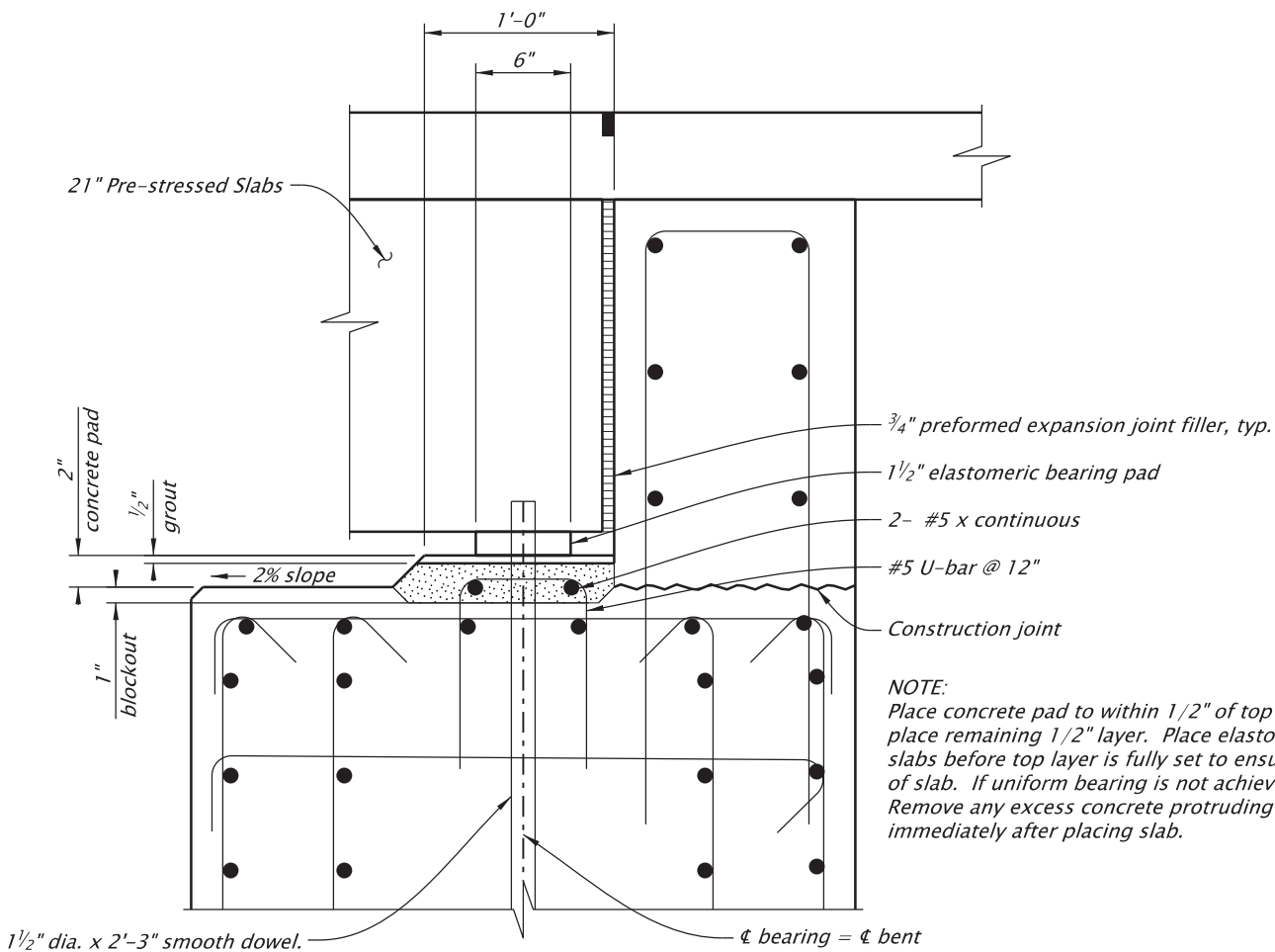
For accompanied by drawings, see sht. J01

STRUCTURE NO.	24461
BDS DWG NO.	114475
CALC. BOOK	8028
HWY: NA	
M.P.: 2.55	
COUNTY	Josephine
DATE	July 2026

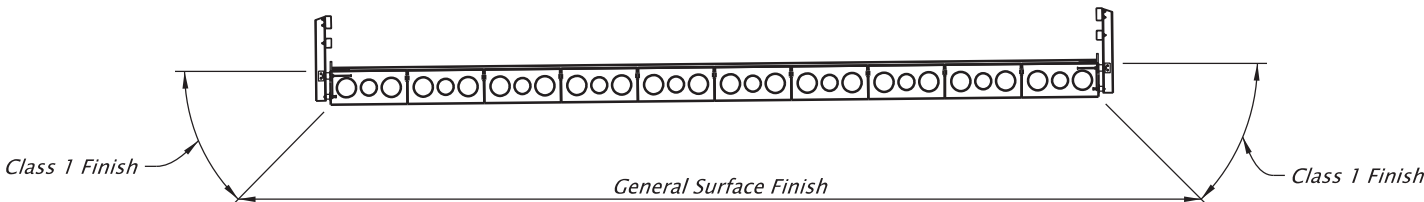
REGISTERED PROFESSIONAL ENGINEER
56148PE
DIGITALLY SIGNED 2026.08.14 05:51:32-07'00'
OREGON
JAN. 15, 2002
ROBERT E. GRUBBS
RENEW: 06-30-2027

OREGON DEPARTMENT OF TRANSPORTATION	
Wolf Cr_Lower Grave Cr Rd	
WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
Designer: Regan Campbell	Reviewer: Robert Grubbs
CADD Tech: Dan Faas	Checker: Josh Beattie
TYPICAL DECK SECTION	
SHEET NO. J07	

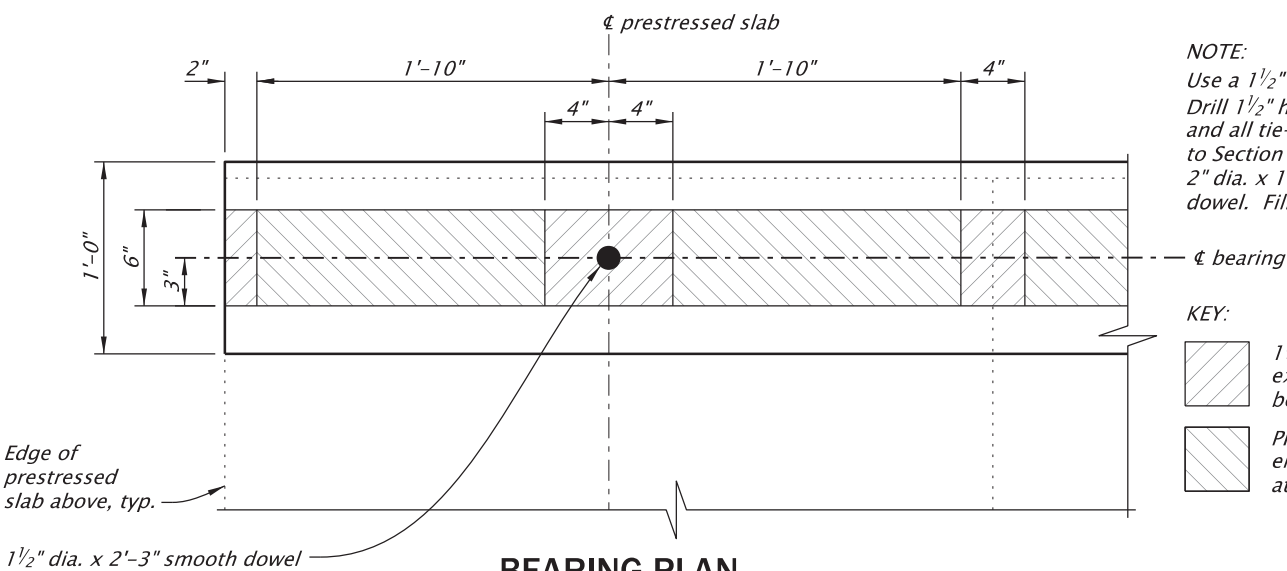




GROUT PAD DETAIL
Scale: 1"=1'-0"



SURFACE FINISH DIAGRAM
Scale: 1"=5'



BEARING PLAN
Scale: 1"=1'-0"

NOTE:
Use a 1 1/2" dia. x 2'-3" smooth dowel at each end of slab. Drill 1 1/2" hole 1'-0" into bent after all slabs are placed and all tie-rods are fully tightened. Drill hole according to Section 00535.40. Do not resin-bond dowel. Place a 2" dia. x 1" thick expanded polystyrene plug on top of dowel. Fill remainder of hole with non-shrink grout.

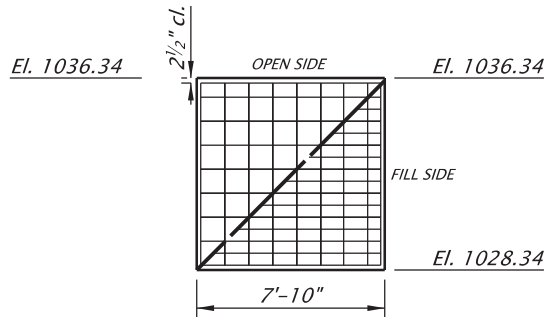
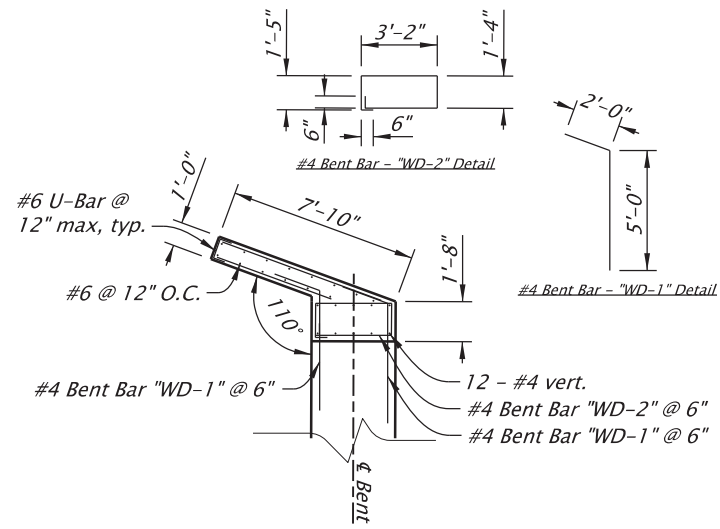
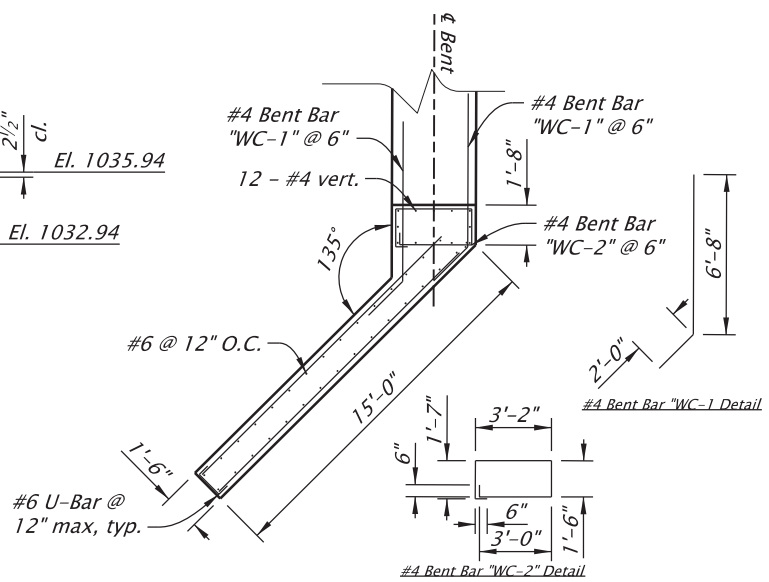
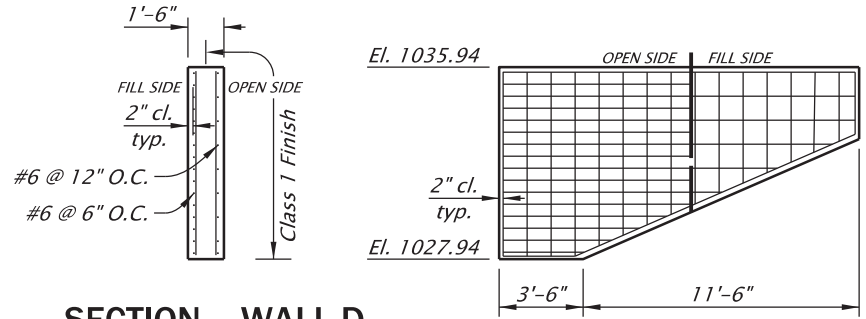
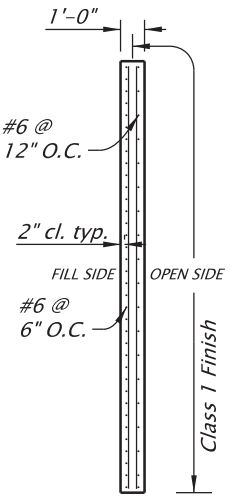
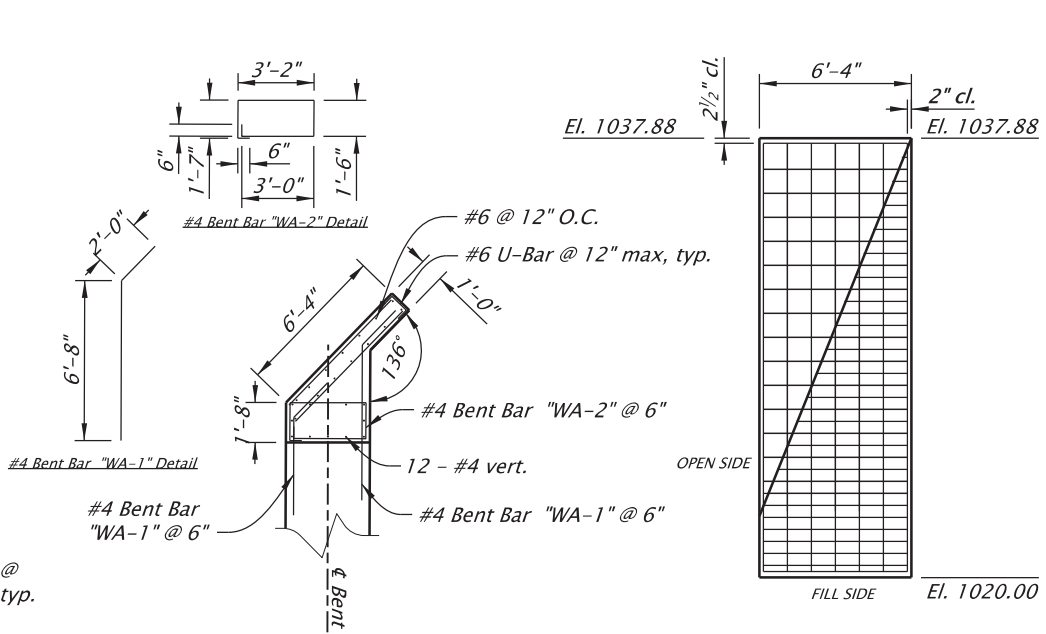
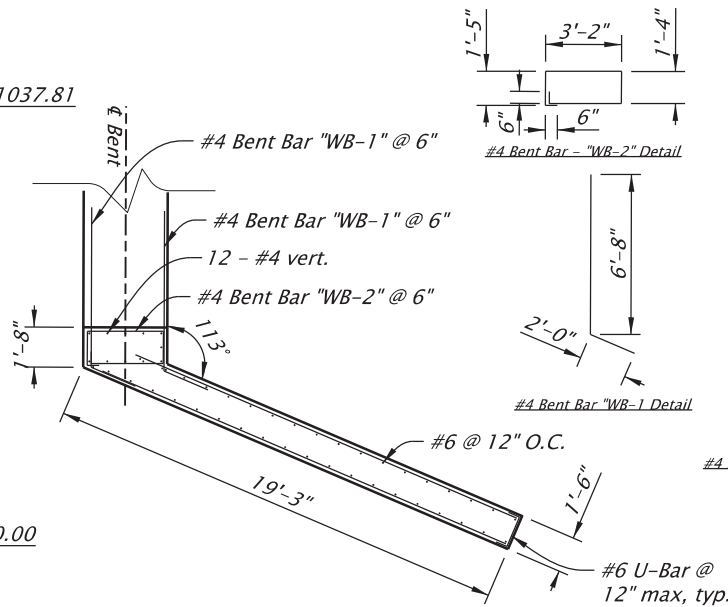
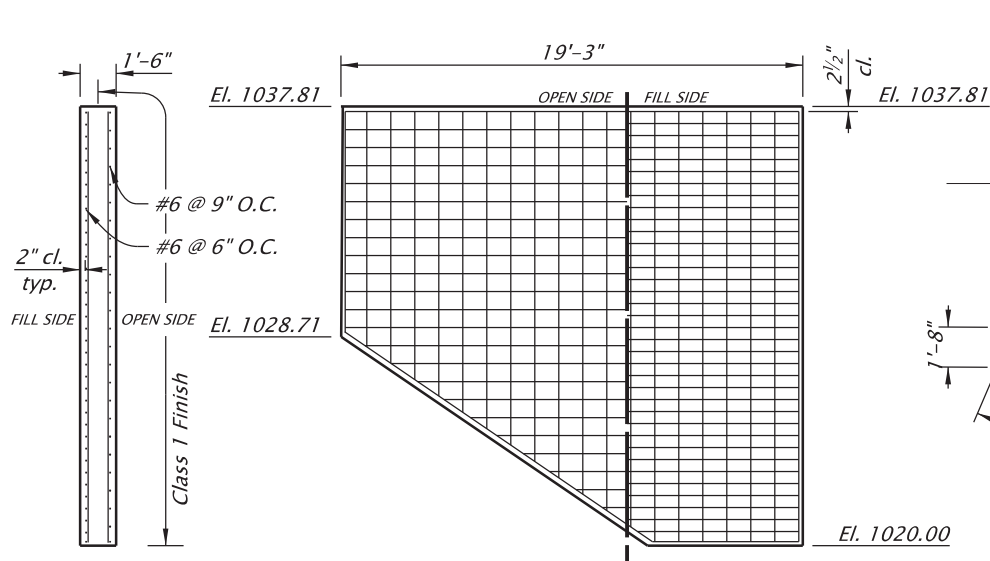
For accompanied by drawings, see sht. J01

STRUCTURE NO.	24461
BDS DWG NO.	114477
CALC. BOOK	8028
HWY: NA	
M.P.: 2.55	
COUNTY	Josephine
DATE	July 2026



RENEW: 06-30-2027

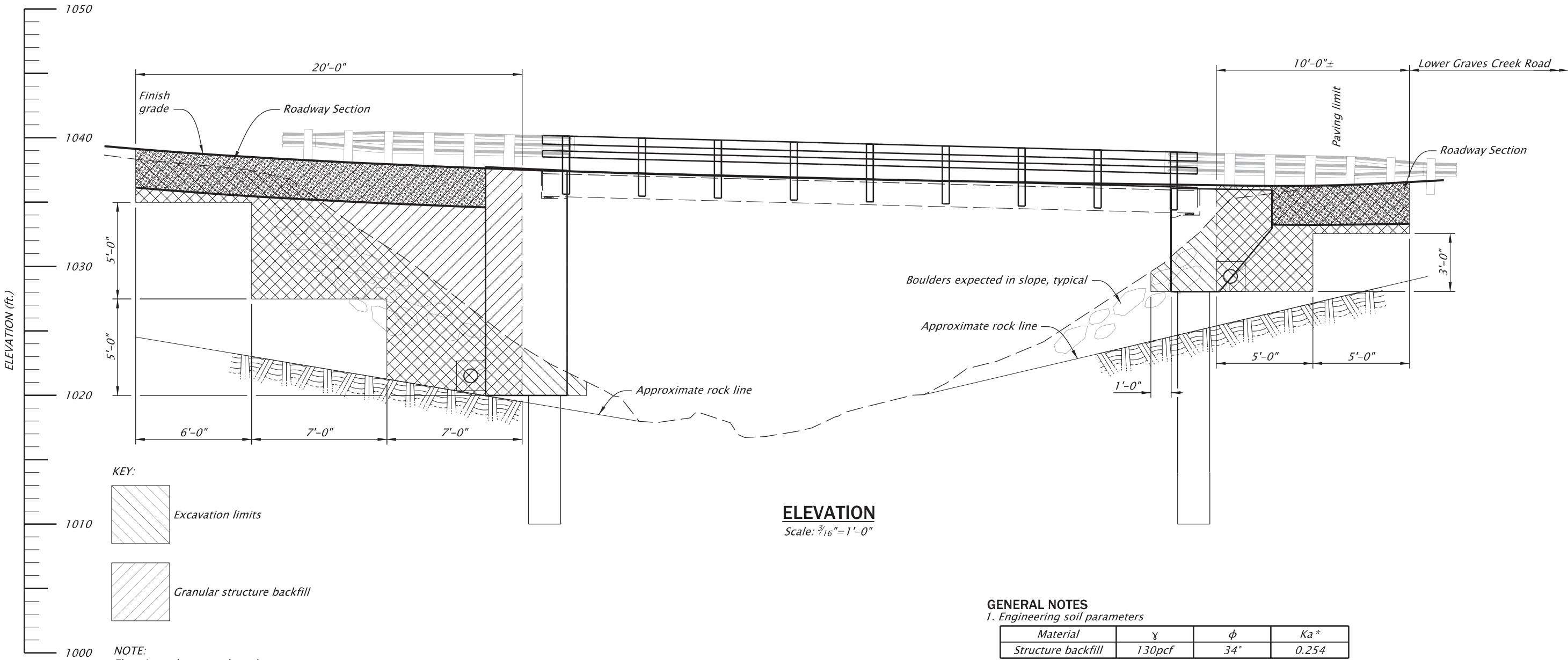
OREGON DEPARTMENT OF TRANSPORTATION	
Wolf Cr_Lower Grave Cr Rd	
WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
Designer: Regan Campbell	Reviewer: Robert Grubbs
CADD Tech: Dan Faas	Checker: Josh Beattie
BENT DETAILS	
SHEET NO. J09	



WINGWALL PLAN
Scale: 1/8"=1'-0"

For accompanied by drawings, see sht. J01

STRUCTURE NO. 24461		OREGON DEPARTMENT OF TRANSPORTATION	
BDS DWG NO. 114478		Wolf Cr_Lower Grave Cr Rd	
CALC. BOOK 8028		WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT	
HWY: NA M.P.: 2.55		LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
COUNTY Josephine		Designer: Regan Campbell	Reviewer: Robert Grubbs
DATE July 2026	RENEWES: 06-30-2027	CADD Tech: Dan Faas	Checker: Josh Beattie
		WINGWALLS	SHEET NO. J10

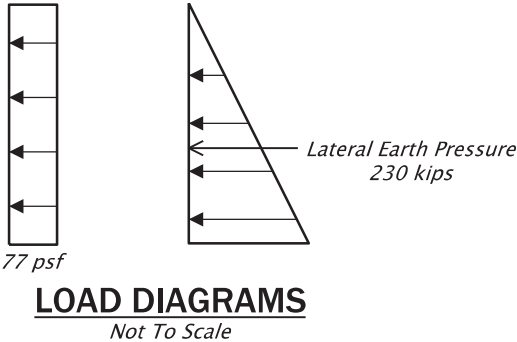
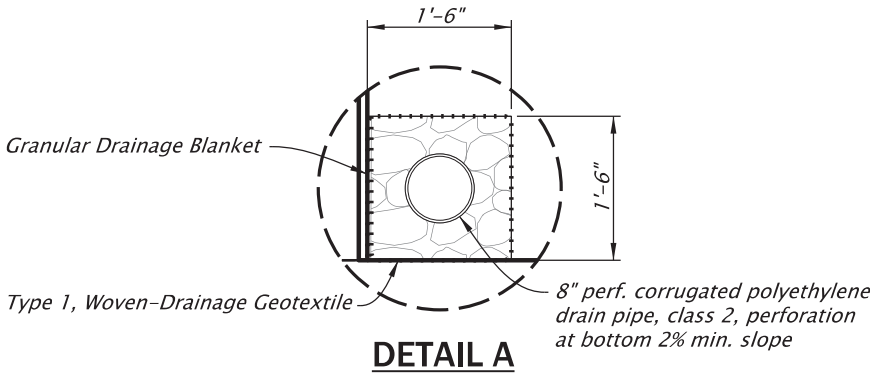


GENERAL NOTES

1. Engineering soil parameters

Material	γ	ϕ	Ka^*
Structure backfill	130pcf	34°	0.254

2. Compact abutment backfill according to Specifications.



IF THIS MEASURES
1 INCH
THEN DRAWING IS TO SCALE

For accompanied by drawings, see sht. J01

STRUCTURE NO. 24461
BDS DWG NO. 114479
CALC. BOOK 8028
HWY: NA M.P.: 2.55
COUNTY Josephine
DATE July 2026

REGISTERED PROFESSIONAL
ENGINEER
56148PE
DIGITALLY SIGNED 2026.07.28 09:55:20-07'00'
OREGON
JAN. 15, 2002
ROBERT E. GRUBBS
RENEW: 06-30-2027

OREGON DEPARTMENT OF TRANSPORTATION	
Wolf Cr_Lower Grave Cr Rd	
WOLF CREEK (LOWER GRAVE CREEK RD) BRIDGE PROJECT LOWER GRAVE CREEK RD. JOSEPHINE COUNTY	
Designer: Regan Campbell	Reviewer: Robert Grubbs
CADD Tech: Dan Faas	Checker: Josh Beattie
BACKFILL DETAILS	SHEET NO. J11

SIGNING PLAN
LOWER GRAVE CREEK RD/LOWER WOLF CREEK RD
STA. LGC 10+00 TO STA. LGC 16+39
STA. LWC 8+50 TO STA. LWC 12+50

LEGEND

- RXN

M

Remove existing sign (N) and (M) sign support
- RXN

Remove existing sign (N)
- N

M

Install new sign (N) on new (M) sign support
- N

Install new sign (N)
- EXN

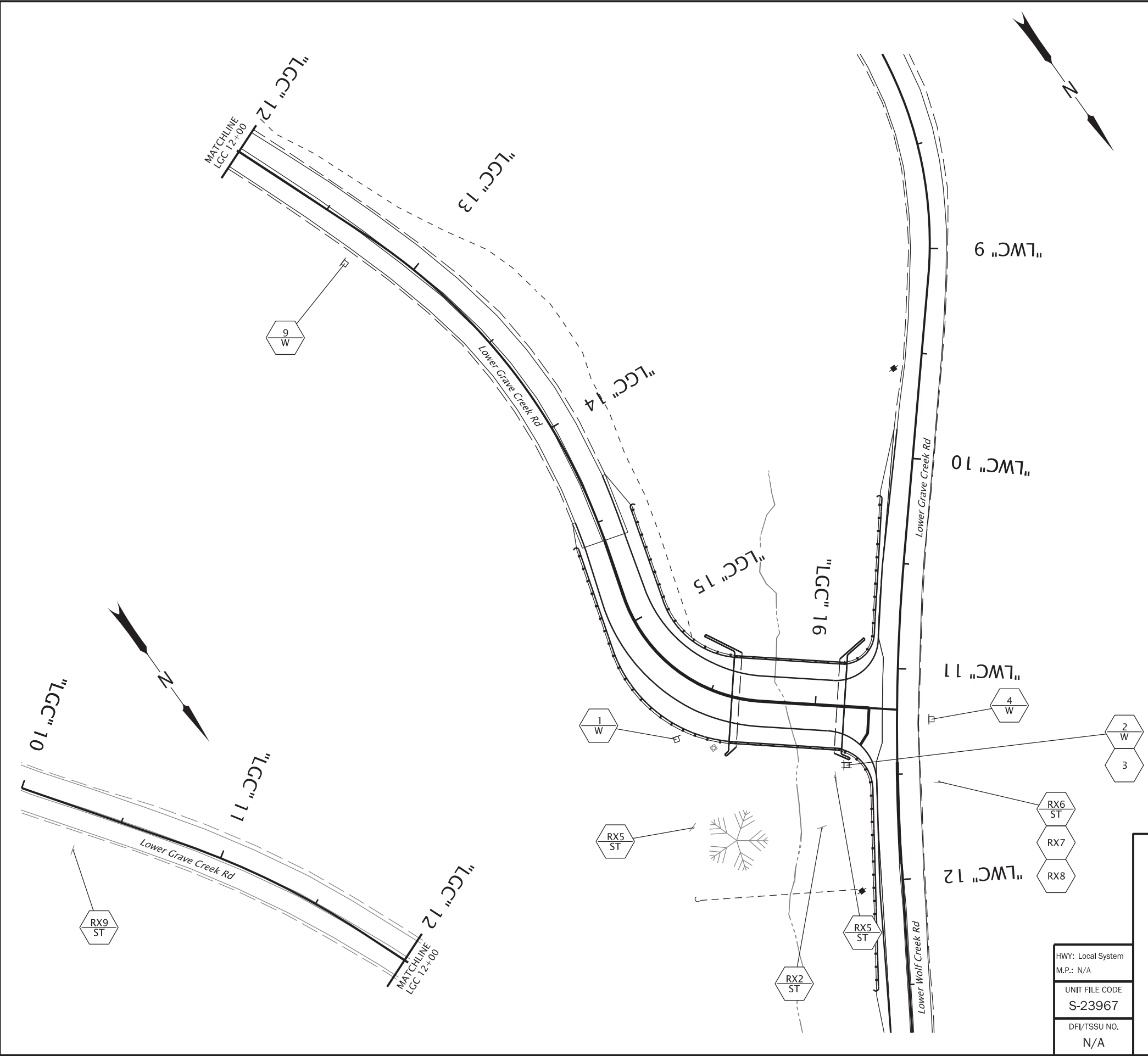
Maintain and protect existing sign (N) and support

N = Sign Number
M = Material

Material options:
W = Wood Sign Post
ST = Perforated Steel Square Tube Sign Support

NOTE:
Existing signs not shown are to remain in place unless otherwise directed by the Engineer.

NOTE:
The locations of sign installations shown are approx. with exact locations to be determined in the field.



HWY: Local System M.P.: N/A
UNIT FILE CODE S-23967
DFI/TSSU NO. N/A



RENEWS: 12-31-2026

OREGON DEPARTMENT
OF TRANSPORTATION



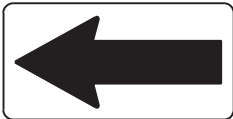
WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Scott Parker
CADD Tech: Scott Parker
Reviewer: William Fitzgerald
Checker: Ray Lapke

SIGNING PLAN

SHEET NO.
LA01

SIGNING DETAILS



Sign No. 1



Sign No. 6



Sign No. 2



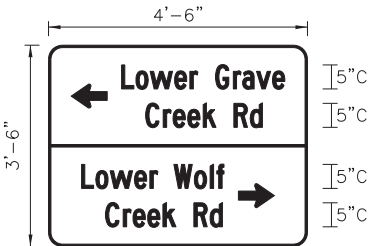
Sign No. 7



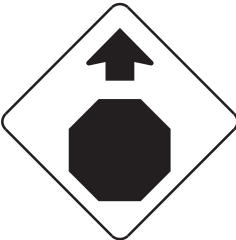
Sign No. 3



Sign No. 8



Sign No. 4



Sign No. 9



Sign No. 5

NOTE:
Signs shown with broken borders are existing signs.

HWY: Local System M.P.: N/A
UNIT FILE CODE S-23968
DFI/TSSU NO. N/A



RENEWS: 12-31-2026

OREGON DEPARTMENT
OF TRANSPORTATION



**WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT**
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Scott Parker Reviewer: William Fitzgerald
CADD Tech: Scott Parker Checker: Ray Lapke

SIGNING DETAILS

SHEET NO.
LB01

[illegible]

1/
BK=BLACK
BL=BLUE
BR=BROWN
FY=FLUORESCENT YELLOW
G= GREEN
O=ORANGE
P= PURPLE
R=RED
RB=RED-BLUE
W=WHITE
Y=YELLOW
YG= FLOURESCENT YELLOW-GREEN

3/
NOTE: L,C,R ARE LOCATIONS
OF POSTS FACING THE SIGN.

L = LEFT POST
C = CENTER POST
R = RIGHT POST

3/
DISTANCE FROM EDGE OF TRAVEL LANE,
FACE OF CURB, GUARDRAIL, OR BARRIER
TO THE CENTERLINE OF FOOTING. FOR
ADDITIONAL INFORMATION SEE STANDARD
DRAWINGS TM600, TM602, AND TM635

4/
NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE
EXCEPT FOR SPEED ZONES, SCHOOL ZONES, OBJECT
MARKERS AND MILEPOST MARKERS. EXACT LOCATIONS
ARE TO BE DETERMINED BY THE ENGINEER

5/
MINIMUM DEPTH OF FOOTING FOR TRIANGULAR
BASE BREAKAWAY AND MULTI-POST BREAKAWAY
INSTALLATIONS IS FOR A 2' DIAMETER FOOTING.
FOR ADDITIONAL INFORMATION SEE STANDARD
DRAWINGS TM601 AND TM602.

MINIMUM DEPTH OF FOOTING FOR TRIANGULAR
BASE BREAKAWAY AND MULTI-POST BREAKAWAY
INSTALLATIONS IS FOR A 2' DIAMETER FOOTING.
FOR ADDITIONAL INFORMATION SEE STANDARD
DRAWINGS TM601 AND TM602.

HWY: Local System M.P.: N/A
UNIT FILE CODE S-23969
DFI/TSSU NO. N/A



RENEWS: 12-31-2026

OREGON DEPARTMENT
OF TRANSPORTATION



**WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT**
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Scott Parker Reviewer: William Fitzgerald
CADD Tech: Scott Parker Checker: Ray Lapke

SIGN AND POST DATA TABLE

SHEET NO.
LC01

LEGEND

- EX

W

Retain and protect extg. 4" white line
- EX

ND

Retain and protect extg. narrow double no-pass two 4" yellow lines
- RX

W

Remove extg. 4" white line
- W

Inst. 4" white line
- ND

Inst. narrow double no-pass two 4" yellow lines
- S

Inst. stop bar 1' white bar

GENERAL NOTES:

1. Match points to existing striping are approximate and shall be field verified.
2. Longitudinal pavement markings shall be installed using Method "2(h)" (Hi-Build, Sprayed, Wet Weather, Surface). See Section 00866 in Special Provisions.
3. Transverse pavement markings shall be installed using Material Type "B-HS" (Preformed, Fused, Thermoplastic Film High Skid). See Section 00867 in Special Provisions.
4. Delineators (Type 1 and Type 5) shall be installed as shown. See Section 00840 in Special Provisions.

To be accompanied by Standard Drawings TM500, TM503, TM521, TM530, TM560, TM561, TM570, TM571, TM576



RENEWS: 12-31-2026

OREGON DEPARTMENT
OF TRANSPORTATION



WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Scott Parker

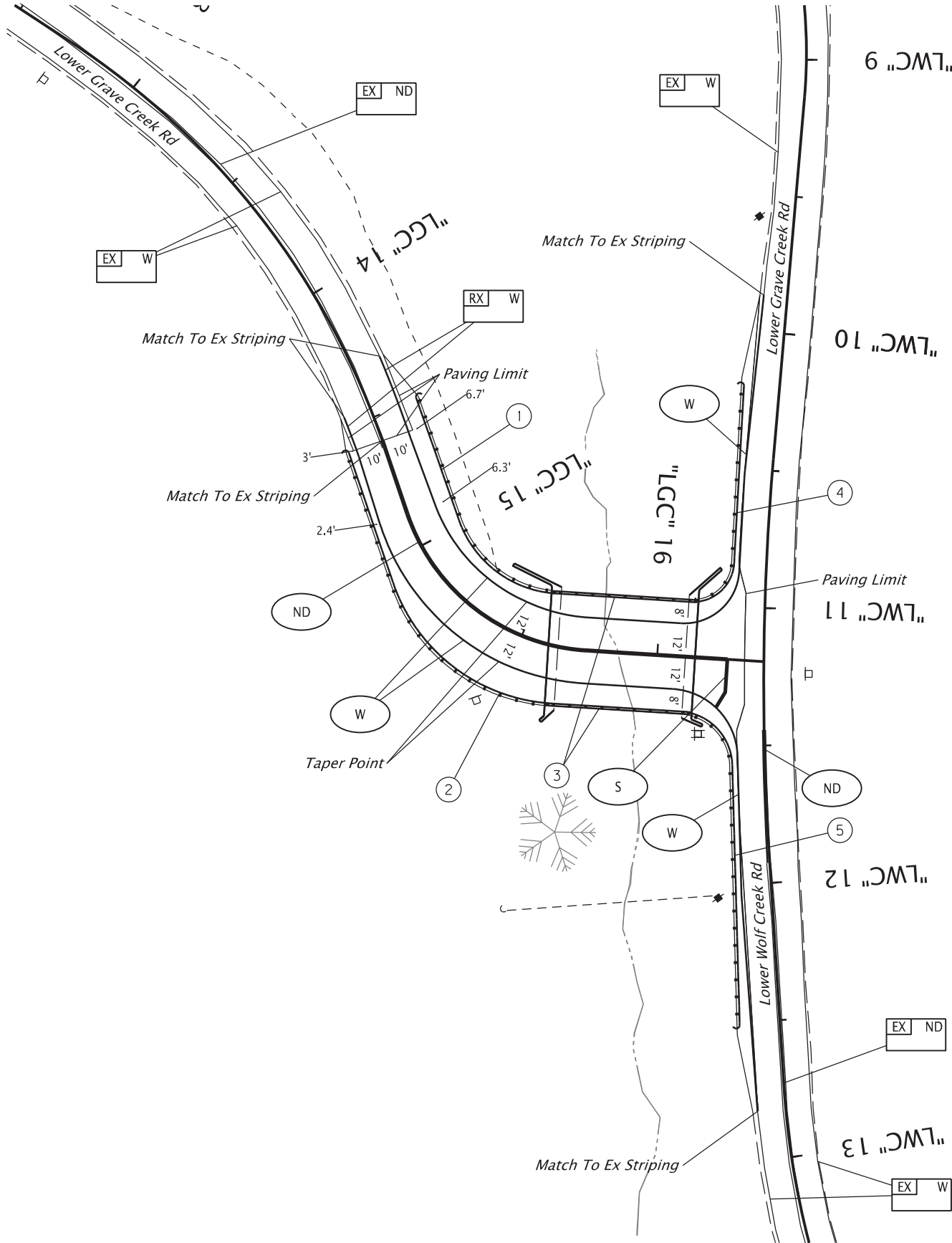
Reviewer: William Fitzgerald

CADD Tech: Scott Parker

Checker: Ray Lapke

PAVEMENT MARKINGS DETAILS

SHEET NO.
QA01



- 1 Sta. "LGC" 14+62 to Sta. "SB" 15+73 Lt.
Install delineator, type 1, behind guardrail - 4 ea.
- 2 Sta. "LGC" 14+79 to Sta. "LGC" 15+73 Rt.
Install delineator, type 1, behind guardrail - 4 ea.
- 3 Sta. "LGC" 15+73 to Sta. "LGC" 16+10 Rt. and Lt.
Install delineator, type 5, on top of bridge rail - 2 ea. side of road
- 4 Sta. "LWC" 10+20 Rt. to Sta. "LGC" 16+10 Lt.
Install delineator, type 1, behind guardrail - 5 ea.
- 5 Sta. "LWC" 12+51 Rt. to Sta. "LGC" 16+10 Rt.
Install delineator, type 1, behind guardrail - 6 ea.



RENEWS: 12-31-2026

OREGON DEPARTMENT
OF TRANSPORTATION



WOLF CREEK (LOWER GRAVE CREEK RD)
BRIDGE PROJECT
LOWER GRAVE CREEK RD.
JOSEPHINE COUNTY

Designer: Scott Parker Reviewer: William Fitzgerald
CADD Tech: Scott Parker Checker: Ray Lapke

PAVEMENT MARKINGS PLAN

SHEET NO.
QB01