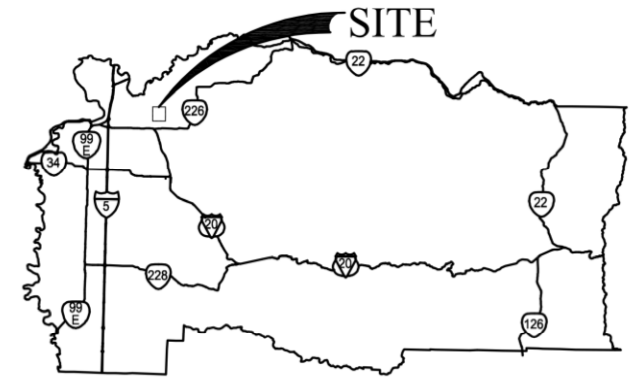


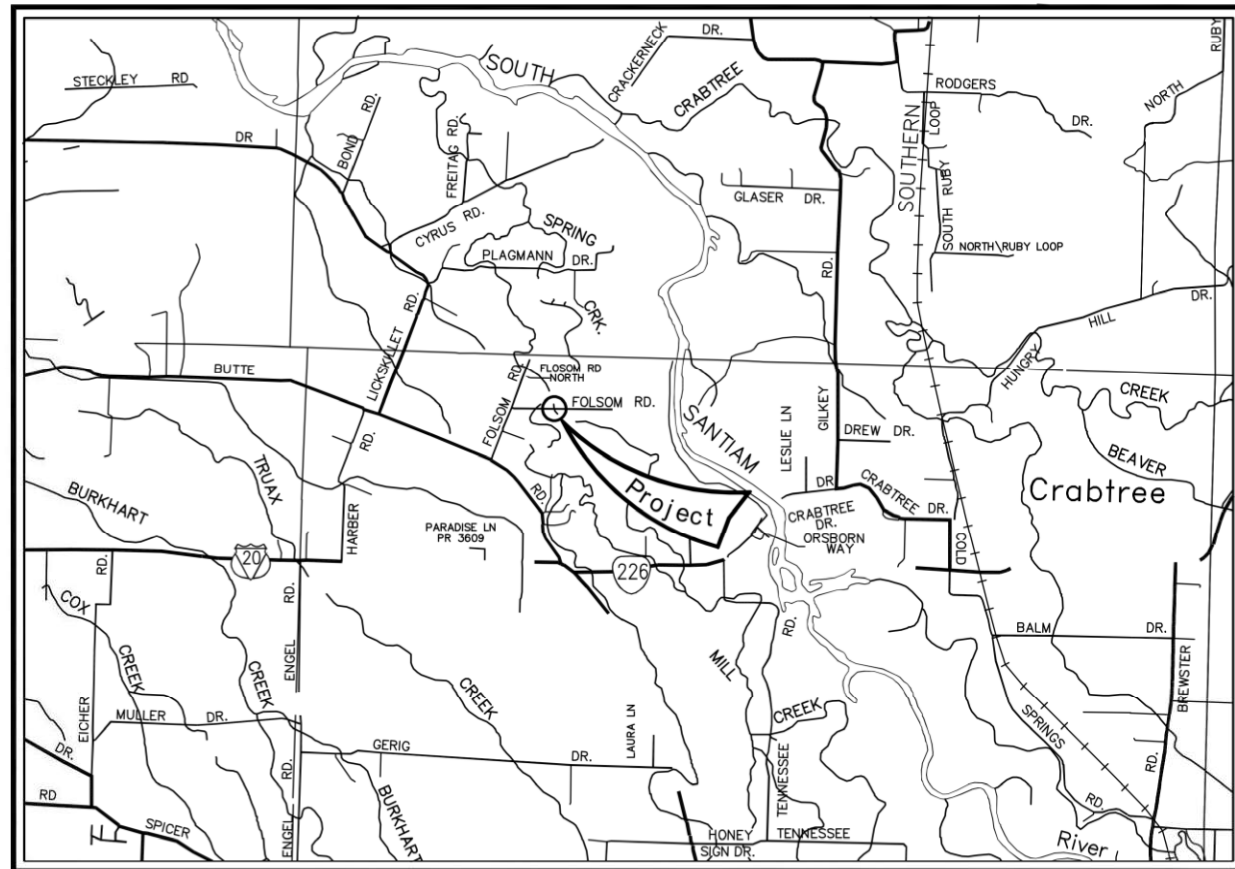
# LINN COUNTY ROAD DEPARTMENT

OVERALL PROJECT LENGTH: 0.08 MILES

BRIDGES AND ROADWAYS  
**MILL CREEK - FOLSOM ROAD  
 BRIDGE REPLACEMENT**  
 LINN COUNTY BRIDGE NO. BR0651-0065  
 ODOT BRIDGE NO. 23903  
 JULY 2022



## PROJECT LOCATION



ATTENTION:  
 Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain a copy of the rules by calling the center. The telephone number for the Oregon Utility Notification Center is (503) 232-1987.

SEE SHEET 2 FOR SHEET INDEX



6/10/2022 10:06 AM  
 K:\Projects - Current\BR 0651-0065 Folsom Road Mill Creek Bridge\KMGACAD\Folsom Road - Mill Creek Bridge Design 2022.dwg



<b>LINN COUNTY ROAD DEPARTMENT</b> 3010 FERRY STREET SW ALBANY, OREGON 97322 PHONE: (541) 967-3919 FAX: (541) 924-0202 E-MAIL: Roads@co.linn.or.us	<b>COUNTY COMMISSION</b> ROGER NYQUIST CHAIRMAN WILLIAM TUCKER SHERRIE SPRENGER	<b>ROADMASTER</b> WAYNE E. MINK, P.E. <b>COUNTY ENGINEER</b> DAINEAL MALONE, P.E.	DATE:	REVISION:	BY:	BRIDGE NO: 0651-0065	DATE: 6/7/2022
						PROJECT NO: CB1801	

			TR: T. 11 S., R. 02 W., SECTION 5, W.M.				
			DESIGNED BY: K. Groom	CHECKED BY: A. Potts			
			DRAFTED BY: K. Groom	REVIEWED BY: D. Malone			

MILL CREEK - FOLSOM ROAD BRIDGE REPLACEMENT	TITLE SHEET
LINN COUNTY 2022	SCALE: none
	SHEET 1

6/10/2022 9:58 AM

SHEET INDEX	
SHEET NO.	TITLE
1	TITLE SHEET
2	SHEET INDEX, LEGEND, NOTES, STANDARD DRAWINGS & ABBREVIATIONS
3	TRAFFIC CONTROL PLAN
4	TYPICAL SECTIONS
5	PLAN AND PROFILE
6	EROSION CONTROL PLAN
7	SIGNING AND STRIPING PLAN
8	STORMWATER DRAINAGE PLAN
9	UTILITIES
BR-01	PLAN AND ELEVATION
BR-02	GENERAL NOTES
BR-03	FOUNDATION DATA SHEET
BR-04	FOUNDATION PLAN AND DETAILS
BR-05	TYPICAL SECTION AND DECK PLAN
BR-06	SLAB AND DRAINAGE CURB DETAILS
BR-07	BENT 1 PLAN AND ELEVATION
BR-08	BENT DETAILS
BR-09	WINGWALL DETAILS

ABBREVIATION LEGEND			
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS	LT	LEFT
		LRFD	LOAD AND RESISTANCE FACTOR DESIGN
AC	ASPHALT CONCRETE	LS	LUMP SUM
ACP	ASPHALT CONCRETE WEARING SURFACE	M.I.	MALLEABLE IRON
AD	ALGEBRAIC DIFFERENCE	MIN	MINIMUM
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
BP	BEARING	NOM	NOMINAL
BRG	BEGINNING OF PROJECT	OD	OUTSIDE DIAMETER
BT	BENT	ODOT	OREGON DEPARTMENT OF TRANSPORTATION
BTM	BOTTOM	O.F.	OUTSIDE FACE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PC	POINT OF CURVE
BVCS	BEGIN VERTICAL CURVE STATION	PI	POINT OF INTERSECTION
CJP	COMPLETE JOINT PENETRATION	PP	PIPE PILE
CL	CENTERLINE	PT	POINT OF TANGENT
CTR	CENTER	PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER	QPL	QUALIFIED PRODUCTS LIST
DWG	DRAWING	R	RADIUS
EA	EACH	RT	RIGHT
ELEV/EL	ELEVATION	SHLD	SHOULDER
EOP	EDGE OF PAVEMENT	SHT	SHEET
EP	END OF PROJECT	SL	SLOPE
EVCE	END VERTICAL CURVE ELEVATION	STA	STATION
EVCX	END VERTICAL CURVE STATION	STD	STANDARD
EXTG/EX	EXISTING	T	TANGENT DISTANCE
IE	INVERT ELEVATION	TYP	TYPICAL
I.F.	INSIDE FACE	VC	VERTICAL CURVE
K	LENGTH OF CURVE/DIFFERENCE IN GRADE	VERT	VERTICAL

LEGEND	
	500 CONTOUR
	ROW RIGHT OF WAY
	Easement TEMPORARY CONSTRUCTION EASEMENT
	CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING SHOULDER
	EXISTING DRIVEWAY
	OHP EXISTING OVERHEAD POWER LINE
	TEL EXISTING TELEPHONE LINE
	GAS EXISTING GAS LINE
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING TOP OF BANK
	EXISTING STREAM
	CONSTRUCTION CENTERLINE
	EDGE OF PAVEMENT
	SHOULDER
	CURB
	DITCH
	SAWCUT LINE
	TOE OF CONSTRUCTION FILL
	SUBGRADE GEOTEXTILE
	EXISTING VEGETATION TO BE REMOVED
	EXISTING VEGETATION TO REMAIN
	EXISTING SURVEY MONUMENT
	EXISTING SURVEY CONTROL
	EXISTING SIGN AND POST
	EXISTING UTILITY POLE AND GUY
	EXISTING TELEPHONE PEDESTAL
	EXISTING STRUCTURE
	CONCRETE

**NOTES:**

- TAXLOT LINES AND INFORMATION AND EXISTING STRUCTURES ARE SHOWN FOR REFERENCE PURPOSES ONLY.
- PROTECT ALL SURVEY MONUMENTS AND PROPERTY PINS
- UNLESS OTHERWISE NOTED OR ORDERED BY THE ENGINEER, CLEAR AND GRUB TO THE TOE OF THE CONSTRUCTION FILL.
- UNLESS OTHERWISE NOTED OR ORDERED BY THE ENGINEER, CUT, DECK AND PLACE ALL TREES 10 INCHES OR LARGER IN DIAMETER AT A LOCATION SELECTED BY THE RESPECTIVE PROPERTY OWNER. TREE SYMBOL SHOWN DOES NOT REPRESENT ACTUAL TREE OR QUANTITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO PLACING A BID IN ORDER TO DETERMINE THE EXACT SIZE AND QUANTITIES OF THE TREES AND OTHER MATERIALS THAT WILL NEED TO BE CLEARED AND GRUBBED.

**ODOT STANDARD DRAWING NUMBERS:**

<b>BRIDGE</b>	
BR140	Poured Joint Seal
BR165	Bridge Approach Slab
BR226	2-Tube Side Mount Rail
BR230	2-Tube Side Mount Rail Transition
BR420	26" Precast Prestressed Slab
BR445	Precast Prestressed Boxes and Slabs Details
<b>GUARDRAIL</b>	
RD402	Midwest Guardrail System Types
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
RD420	Midwest Guardrail System Non-Flared Energy-Absorbing Terminal
RD442	Midwest Guardrail System Typical Layout at Bridge Ends
RD450	Guardrail Anchors (Steel)

**FENCES**

RD810 Barbed and Woven Wire Fences

**EROSION CONTROL**

RD1030 Sediment Barrier Type 2, 3 and 4

**PAVEMENT MARKINGS**

TM500 Pavement Marking Standard Detail Blocks  
 TM503 Pavement Marking Standard Detail Blocks

**SIGN, ILLUMINATION AND SIGNAL SUPPORT STRUCTURES**

TM676 Sign Attachments  
 TM677 Sign Mounts  
 TM681 Perforated Steel Square Tube (PSST) Sign Support Installation  
 TM687 Perforated Steel Square Tube (PSST) Anchor Foundation

**TEMPORARY TRAFFIC CONTROL**

TM800 Tables, Abrupt Edge and PCMS Details  
 TM821 Temporary Sign Supports  
 TM822 Temporary Sign Supports  
 TM870 Bridge Construction

**ODOT STANDARD DETAIL NUMBERS:**

**EMBANKMENTS/CUTS**  
 DET2100 Standard Embankment Construction  
 DET2101 Sliver Fill Benching Details

K:\Projects - Current\1BR\_0651-0065 Folsom Road Mill Creek Bridge\KMGACAD\Folsom Road - Mill Creek Bridge Design 2022.dwg



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			PROJECT NO:	CB1801		
			TRS:	T. 11 S., R. 02 W., SECTION 5, W.M.		
			DESIGNED BY:	K. Groom	CHECKED BY:	A. Potts
			DRAFTED BY:	K. Groom	REVIEWED BY:	D. Malone

MILL CREEK - FOLSOM ROAD  
 BRIDGE REPLACEMENT

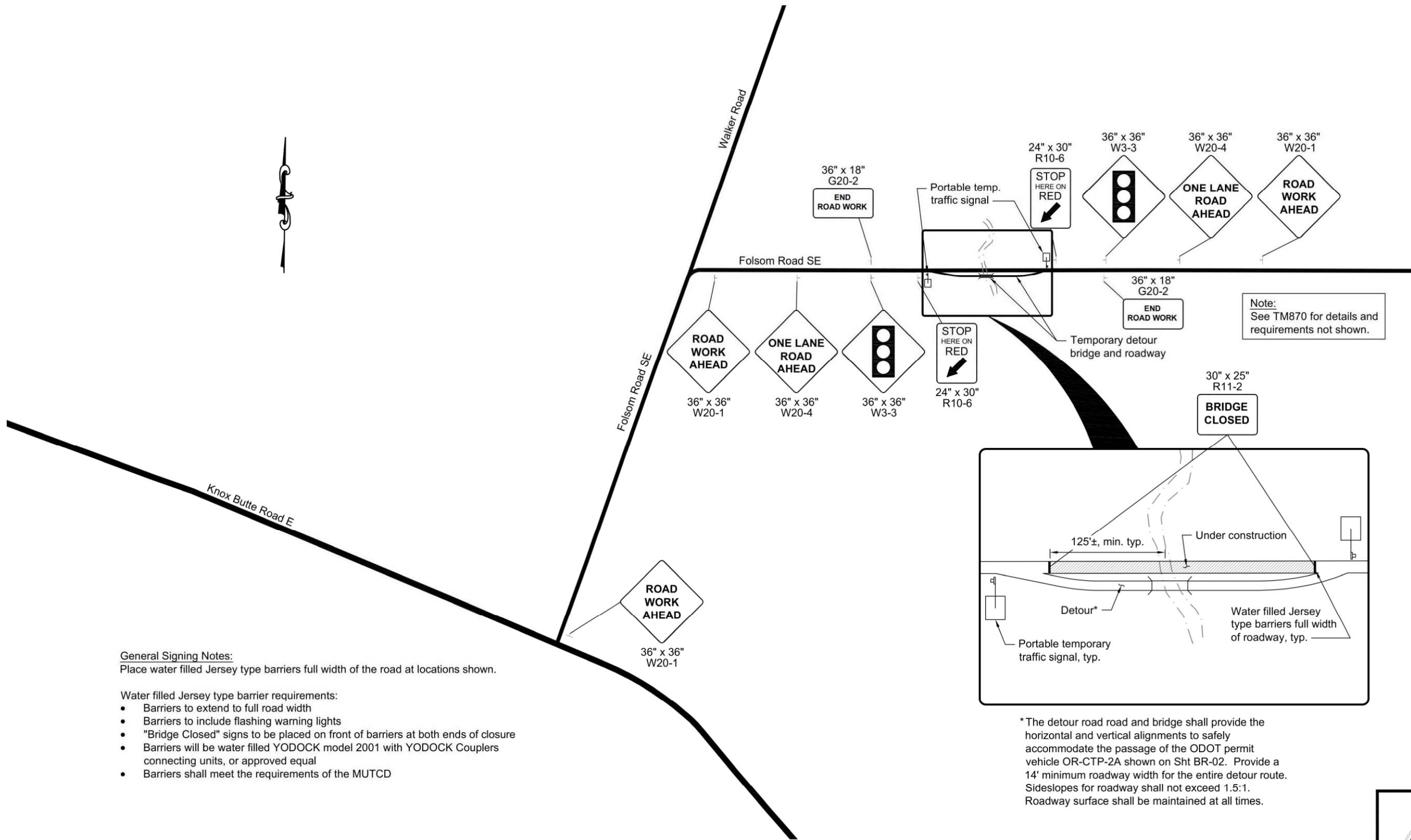
LINN COUNTY  
 2022

SHEET INDEX, LEGEND, NOTES,  
 STANDARD DRAWINGS &  
 ABBREVIATIONS

SCALE: none SHEET 2



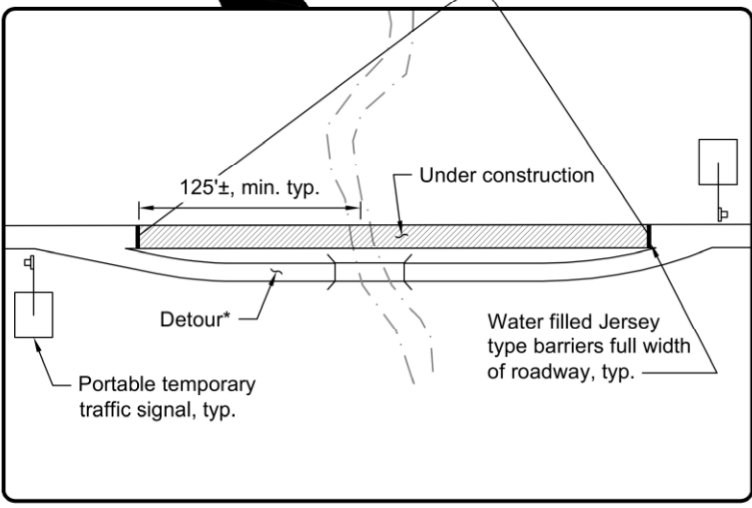




Note:  
See TM870 for details and requirements not shown.

**General Signing Notes:**  
Place water filled Jersey type barriers full width of the road at locations shown.

- Water filled Jersey type barrier requirements:**
- Barriers to extend to full road width
  - Barriers to include flashing warning lights
  - "Bridge Closed" signs to be placed on front of barriers at both ends of closure
  - Barriers will be water filled YODOCK model 2001 with YODOCK Couplers connecting units, or approved equal
  - Barriers shall meet the requirements of the MUTCD



\*The detour road and bridge shall provide the horizontal and vertical alignments to safely accommodate the passage of the ODOT permit vehicle OR-CTP-2A shown on Sht BR-02. Provide a 14' minimum roadway width for the entire detour route. Sideslopes for roadway shall not exceed 1.5:1. Roadway surface shall be maintained at all times.



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MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT

LINN COUNTY  
2022

TRAFFIC CONTROL PLAN

SCALE: none

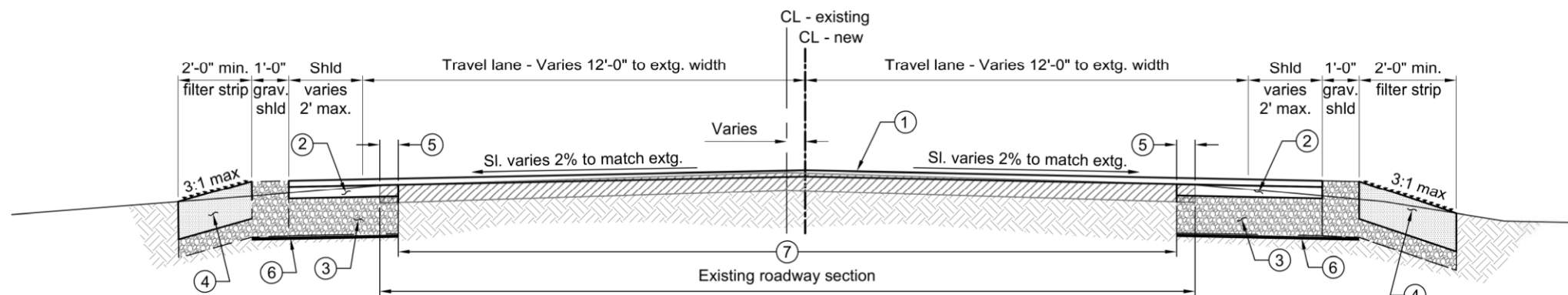
SHEET 3

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE

Digitally signed by Kevin M. Groom  
Date: 2022.06.10 10:10:15-07'00'

OREGON  
JULY 19, 1994  
**KEVIN M. GROOM**

Expires: 6/30/2023

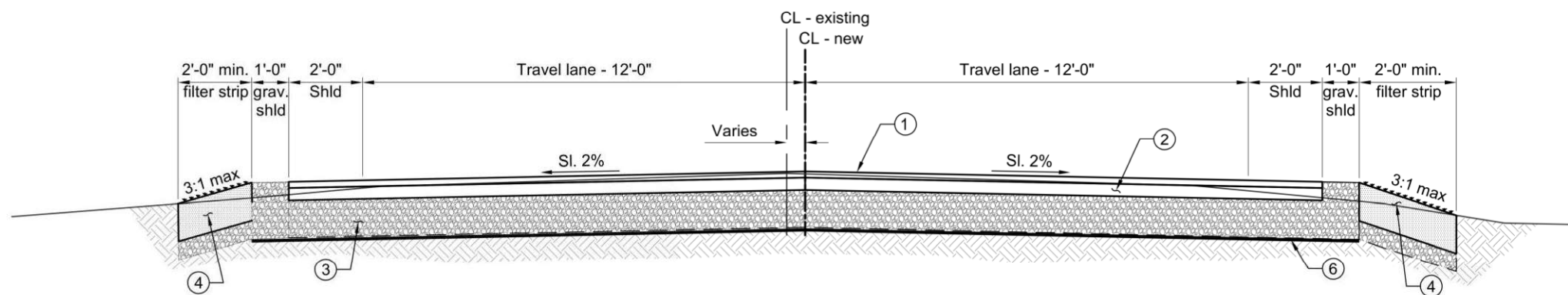


**TYPICAL SECTION**

NO SCALE

STA: 1+35.0 to STA: 2+60.0  
 STA: 3+95.0 to STA: 5+60.0

- ① Asphalt wearing course, Level 3, 1/2" dense graded ACP, 2" nominal thickness
- ② Asphalt base course, Level 3, 1/2" dense graded ACP, 4" nominal thickness. Place in 2" maximum lift thicknesses.
- ③ Aggregate base course, 3/4" - 0, 12" depth
- ④ Construct filter strip. See Sht 8 for details
- ⑤ Sawcut and remove existing asphalt 6" from edge of existing pavement
- ⑥ Subgrade geotextile, extend 1'-0" minimum beyond edge of pavement
- ⑦ Retain and protect existing roadway section



**TYPICAL SECTION**

NO SCALE

STA: 2+60.0 to STA: 2+76.0  
 STA: 2+76.0 to STA: 3+81.3 (Structure and bridge approach slabs)  
 STA: 3+81.3 to STA: 3+95.0



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MILL CREEK - FOLSOM ROAD  
 BRIDGE REPLACEMENT

LINN COUNTY  
 2022

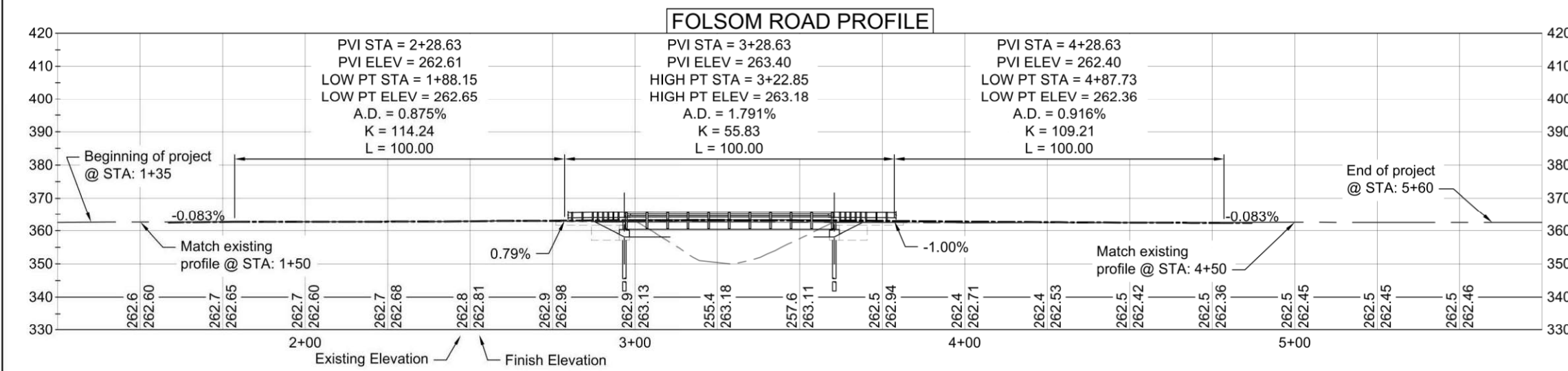
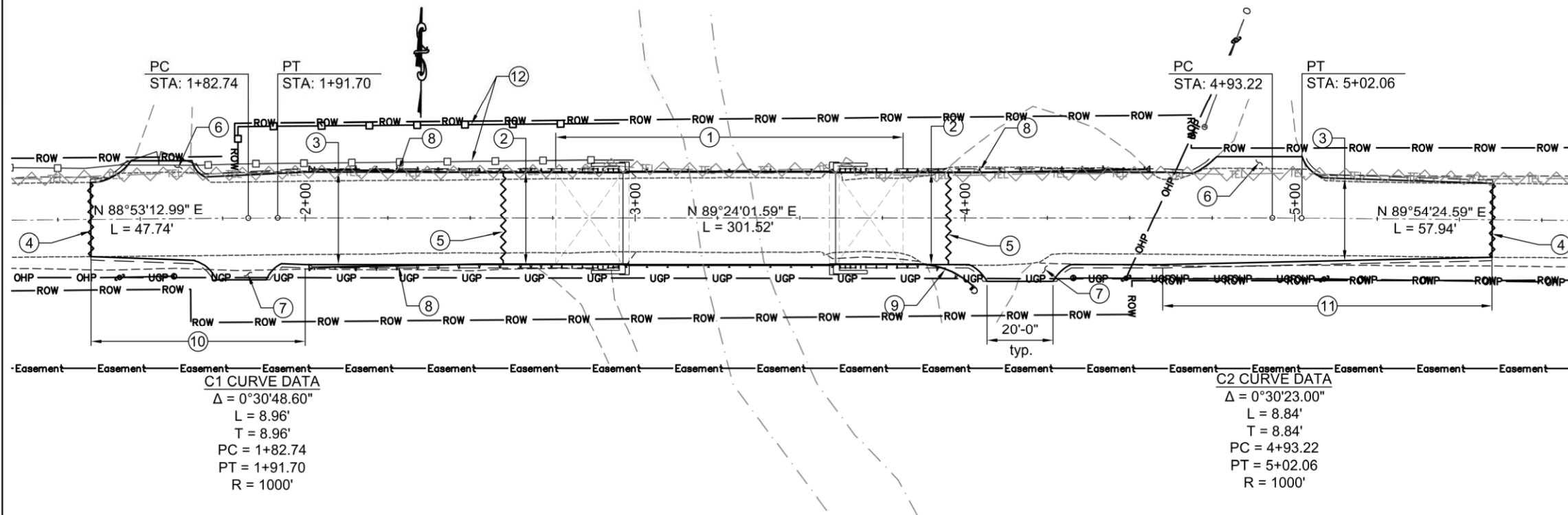
TYPICAL SECTIONS	
SCALE: as shown	SHEET 4



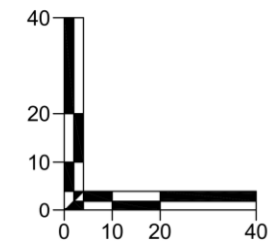
Digitally signed by Kevin M. Groom  
 Date: 2022.06.10 10:14:06-07'00'

Expires: 6/30/2023





- ① Remove existing bridge and construct County Bridge Number 0651-0065 on Folsom Road over Mill Creek. See sheets BR-01 to BR-09.
- ② Rebuild roadway approach with 28' wide asphalt concrete pavement on a crushed aggregate base from STA: 2+60.0 to STA: 2+76.0 and STA: 3+81.3 to STA: 3+95.0. See Sheet 4 for Typical Section
- ③ Grind and construct asphalt concrete pavement overlay from STA: 1+35.0 to STA: 2+60.0, and from STA: 3+95.0 to STA: 5+60.0. Grind from 2" to 0" from STA: 1+35.0 to STA: 2+60.0, and from 0" to 2" from STA: 3+95.0 to STA: 5+60.0.
- ④ Provide a 2" deep vertical sawcut full width of existing pavement at STA: 1+35.0 and STA: 5+60.0.
- ⑤ Sawcut existing pavement full width perpendicular to traffic at STA: 2+60.0 and STA: 3+95.0 prior to existing bridge and approaches removal.
- ⑥ Construct 5' asphalt pavement overlays at existing driveways and field accesses. Raise grade as required to match into the new roadway elevation. STA 1+55 LT and STA: 4+90 LT.
- ⑦ Relocate field accesses and construct using 8-inches of aggregate base and 4-inches of ACP. Extend ACP limits 5' from edge of new pavement. STA 1+80 RT and 4+16 RT.
- ⑧ Install thrie-beam terminal connector, guardrail transition, 12.5' of Type 3 guardrail, 12.5' of Type 2A guardrail, and energy absorbing guardrail terminal (Test Level 3) with W = 1' from end of bridge rail, per standard drawings BR230, RD404, RD409, RD410, RD416, RD417, RD420 and RD442. All guardrail to be constructed with steel posts.
- ⑨ Install thrie-beam terminal connector, guardrail transition, 6.25' Type 4 tangent section, 18.75' Type 4 guardrail w/25' radius, and thrie beam end piece (Type B) with Type 1 modified anchor per DET1455, BR230, RD402, RD404, RD409, RD410, RD416, RD417, RD420 and RD442. All guardrail to be constructed with steel posts.
- ⑩ Taper ACP from existing roadway width to 28.0' from STA: 1+35.0 to STA: 2+00.0.
- ⑪ Taper ACP from 28.0' to existing roadway width from STA: 4+60 to STA: 5+60
- ⑫ Remove existing fence from STA: 1+80 LT to STA: 3+00 LT. Install new fence from STA: 1+80 LT to STA: 2+95 LT 1' inside Right of Way. Tie into existing fence at STA: 1+80. Install Type 2 fence with metal posts per RD810



**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
Digitally signed by Kevin M. Groom  
Date: 2022.06.10 10:14:35-07'00'  
OREGON  
JULY 19, 1994  
**KEVIN M. GROOM**  
Expires: 6/30/2023



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**ROADMASTER**  
WAYNE E. MINK, P.E.  
COUNTY ENGINEER  
DAINEAL MALONE, P.E.

DATE:	REVISION:	BY:	BRIDGE NO: 0651-0065	DATE: 6/7/2022
			PROJECT NO: CB1801	
			TRS: T. 11 S., R. 02 W., SECTION 5, W.M.	
			DESIGNED BY: K. Groom	CHECKED BY: A. Potts
			DRAFTED BY: K. Groom	REVIEWED BY: D. Malone

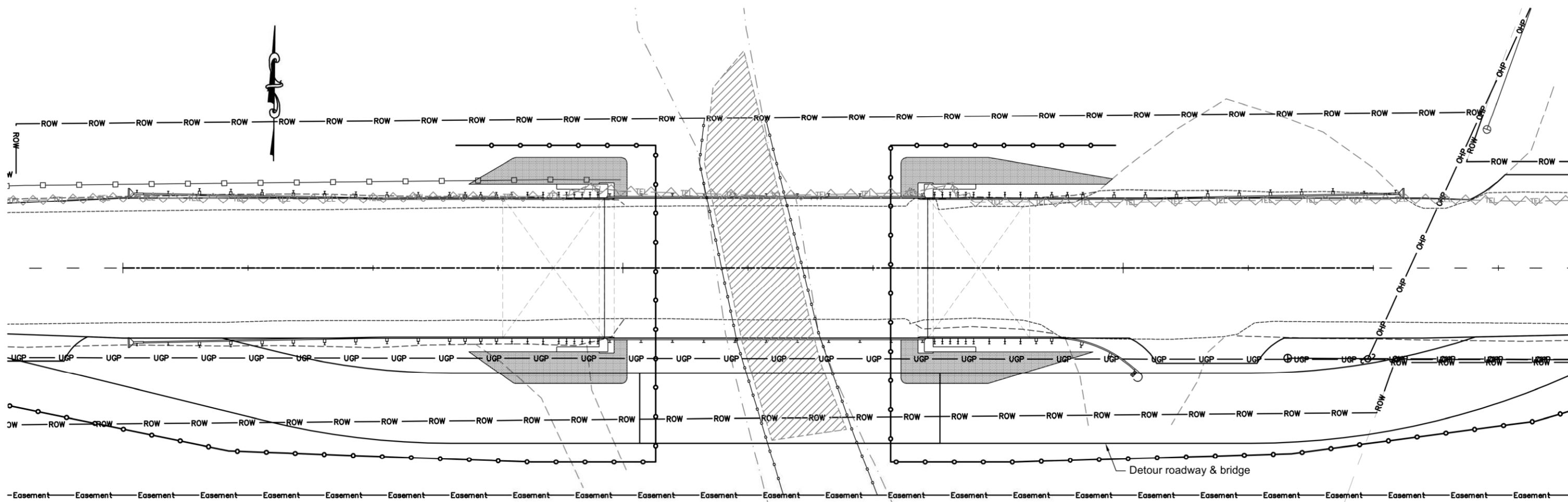
MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT

LINN COUNTY  
2022

PLAN AND PROFILE

SCALE: as shown

SHEET 5



**PLAN - EROSION CONTROL**  
1" = 20'

- Wetland - no work zone
- Permanent seeding
- Sediment barrier, Type 3
- Work zone fencing per Section 00221.13

**General Notes:**

1. The implementation of the erosion control plans and the construction, maintenance, replacement and upgrading of the erosion control facilities are the responsibility of the Contractor until all construction is completed and approved.
2. Installation, construction, and maintenance of erosion control facilities shall begin prior to clearing, grading, or other earth altering activities.
3. The erosion control facilities shown on this plan are anticipated for site conditions. During the construction period, these facilities shall be upgraded for unexpected storm events to insure that sediment and sediment laden water does not leave the site.
4. If the contractor elects to use a work bridge or access beyond the limits shown, the erosion control details shown shall be extended past the limits of the work bridge and access.
5. Develop a revised plan of the erosion control facilities shown in accordance with the requirements of Section 00280 of the Oregon Standard Specifications for Construction. This plan must be constructed in conjunction with all clearing and grading activities. Construct in such a manner as to insure that sediment and sediment laden water does not enter the drainage system, roadway, or violate applicable water standards. Construct controls in segments applicable to each staging phase.
6. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to insure that all paved areas are kept clean for the duration of the project.



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MILL CREEK - FOLSOM ROAD  
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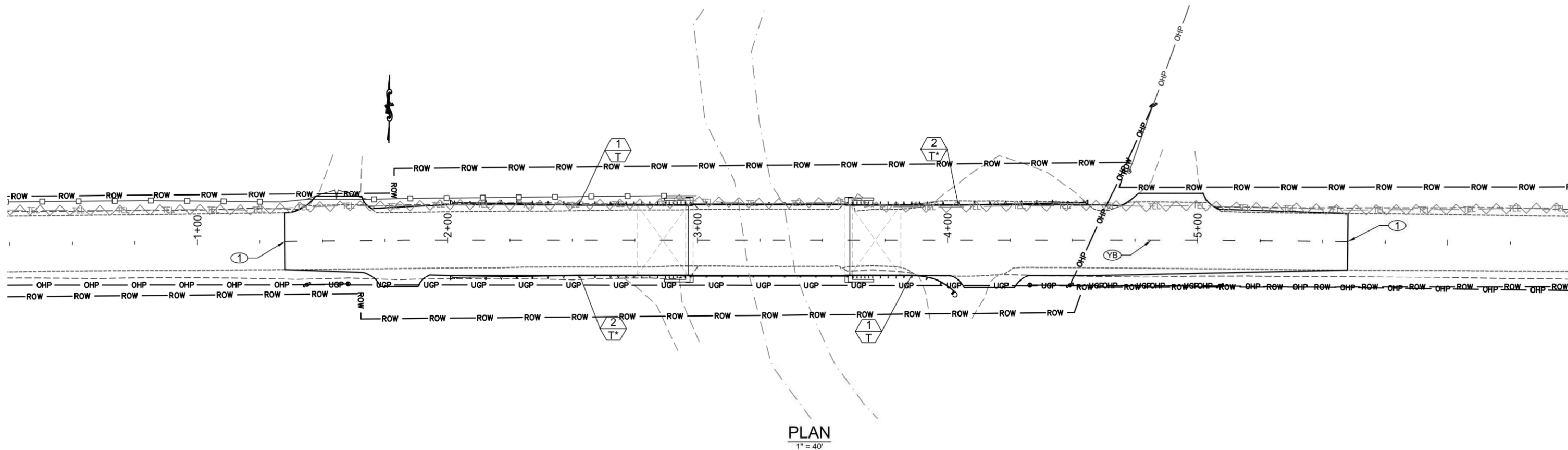
LINN COUNTY  
2022

EROSION CONTROL PLAN

SCALE: as shown

SHEET 6





PLAN  
1" = 40'



Sign 1  
Type: OM-3L  
(12" x 36")



Sign 2  
Type: OM-3R  
(12" x 36")

**Signing Notes:**

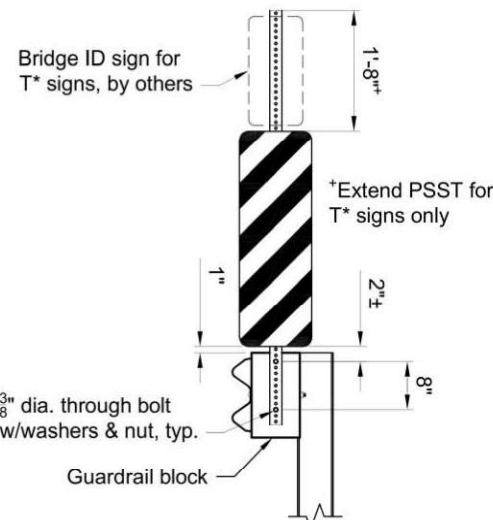
1. The locations of sign installations shown are approximate with exact locations to be determined in the field.
2. Install signs per ODOT Standard Drawings TM200, TM201, TM676, TM681, TM687 and the PSST sign anchor detail shown on this sheet
3. All signs shall meet the requirements of the most current Manual on Uniform Traffic Control Devices (MUTCD).



Install Sign (N) and Support (T)

**Legend:**

- N = Sign Number
- T = Perforated Steel Square Tube (PSST)
- T\* = Perforated Steel Square Tube (PSST) w/1'-8" extending above sign (N)



OBJECT MARKER SIGN DETAIL  
NO SCALE

- ① Match existing striping
- ⓎB 4" yellow broken line shown thus (See TM500)

**Note:**  
The Contractor is to remove any existing striping or pavement markings that conflict with the new striping or markings.



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MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT  
LINN COUNTY  
2022

SIGNING AND STRIPING PLAN  
SCALE: as shown  
SHEET 7

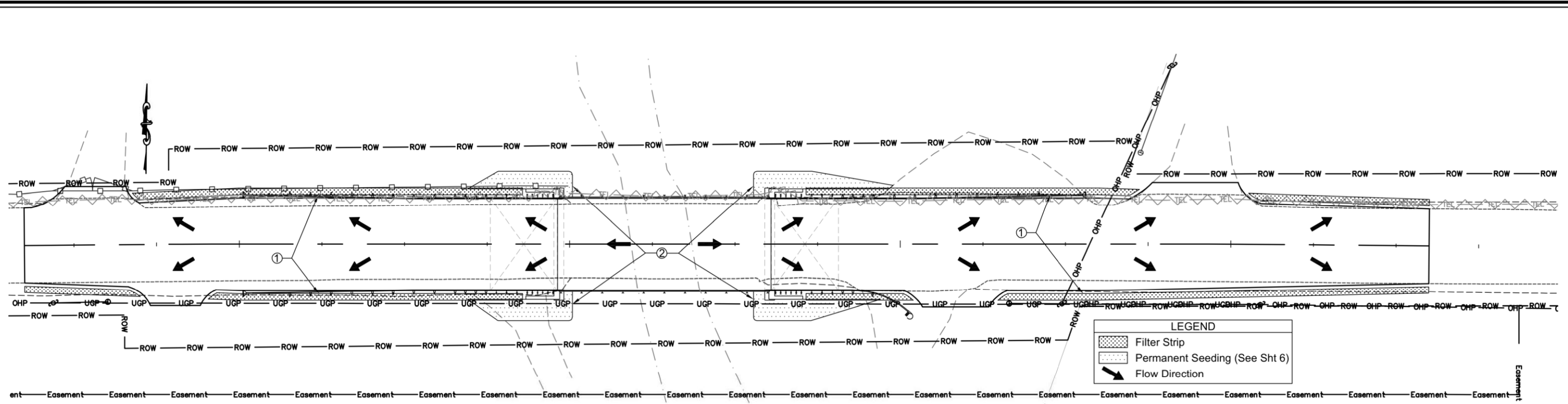


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Date: 2022.06.10 10:16:35-07'00'

Expires: 6/30/2023

6/10/2022 9:59 AM

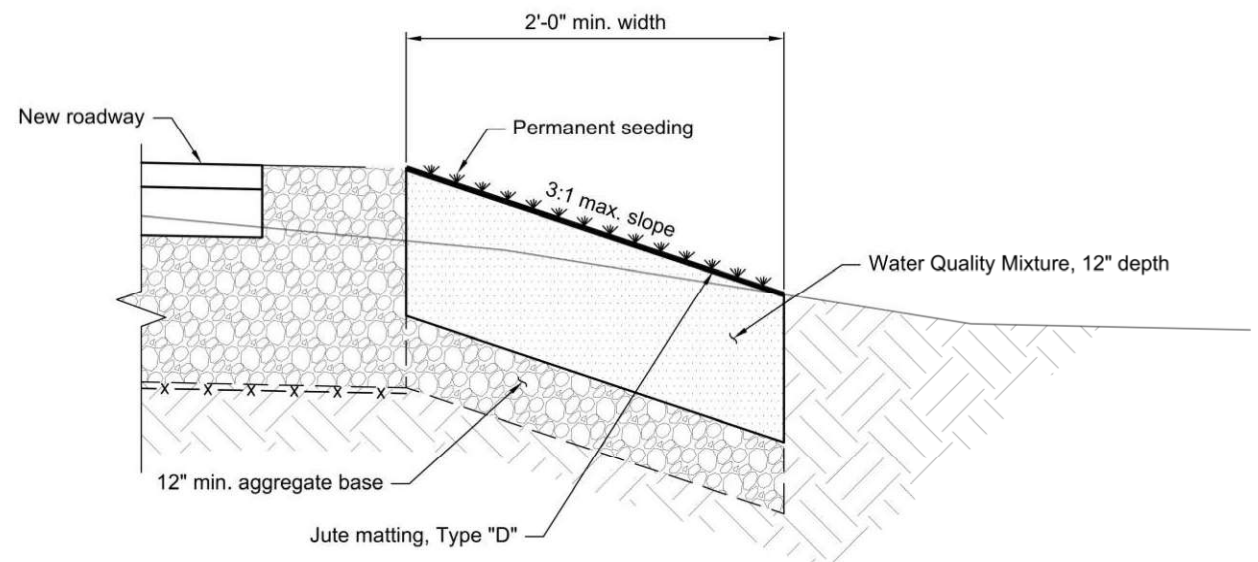
K:\Projects - Current\BR 0651-0065 Folsom Road Mill Creek Bridge\MMGACAD\Folsom Road - Mill Creek Bridge Design 2022.dwg



### STORMWATER DRAINAGE PLAN

1" = 30'

- ① Construct Filter Strip per detail this sheet. Water Quality Mixture per Section 01014.10 and permanent seeding per Section 01030. Construction per Section 01012. STA: 1+40 to STA: 2+85 LT, STA: 1+35 to STA: 2+85 RT, STA: 3+70 to STA: 5+60 LT & RT
- ② Construct permanent seeding erosion control per Sht 6



**FILTER STRIP DETAIL**  
NO SCALE



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 WAYNE E. MINK, P.E.  
 COUNTY ENGINEER  
 DAINEAL MALONE, P.E.

DATE:	REVISION:	BY:

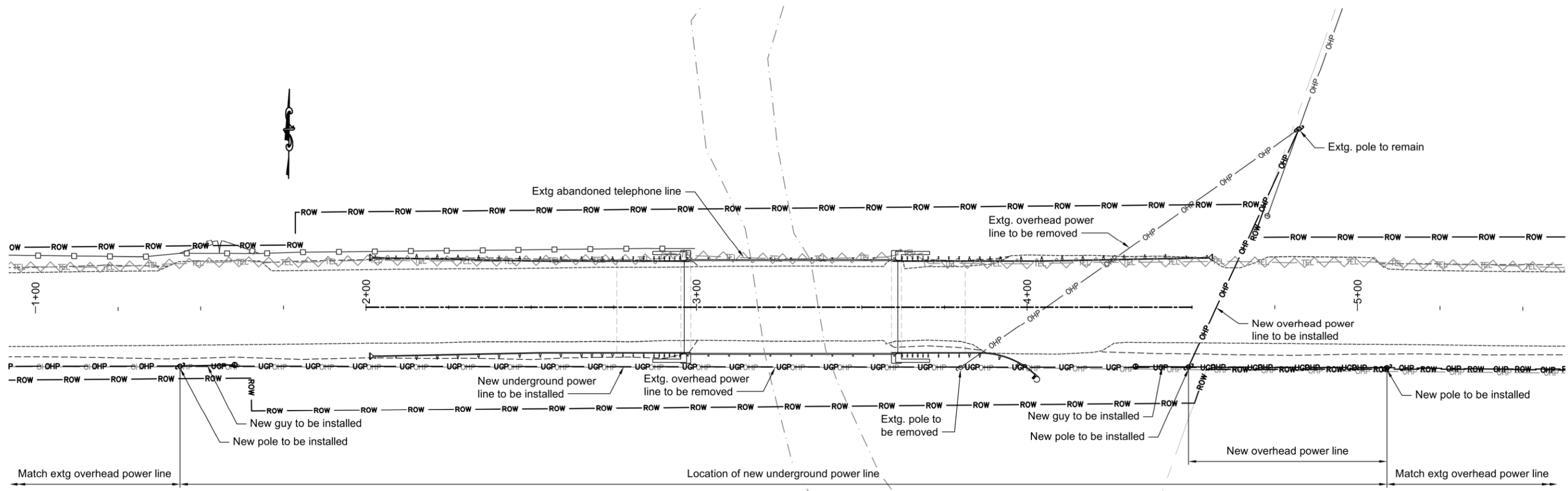
BRIDGE NO:	0651-0065	DATE:	6/7/2022
PROJECT NO:	CB1801		
TRS:	T. 11 S., R. 02 W., SECTION 5, W.M.		
DESIGNED BY:	K. Groom	CHECKED BY:	A. Potts
DRAFTED BY:	K. Groom	REVIEWED BY:	D. Malone

MILL CREEK - FOLSOM ROAD  
 BRIDGE REPLACEMENT  
 LINN COUNTY  
 2022

STORMWATER DRAINAGE PLAN  
 SCALE: as shown  
 SHEET 8

**REGISTERED PROFESSIONAL ENGINEER**  
 17206PE  
 Digitally signed by Kevin M. Groom  
 Date: 2022.06.10 10:17:16-07'00'  
 OREGON  
 JULY 19, 1994  
**KEVIN M. GROOM**  
 Expires: 6/30/2023





**UTILITIES - PLAN**  
1" = 30'

**Note:**  
See Project Special Provisions  
for utility contact information and  
timeline for power line relocation.



**LINN COUNTY ROAD DEPARTMENT**  
3010 FERRY STREET SW  
ALBANY, OREGON 97322  
PHONE: (541) 967-3919  
FAX: (541) 924-0202  
E-MAIL: Roads@co.linn.or.us

**COUNTY COMMISSION**  
ROGER NYQUIST  
CHAIRMAN  
WILLIAM TUCKER  
SHERRIE SPRENGER

DATE:	REVISION:	BY:

BRIDGE NO:	0651-0065	DATE:	6/7/2022
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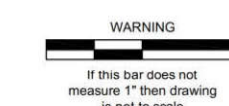
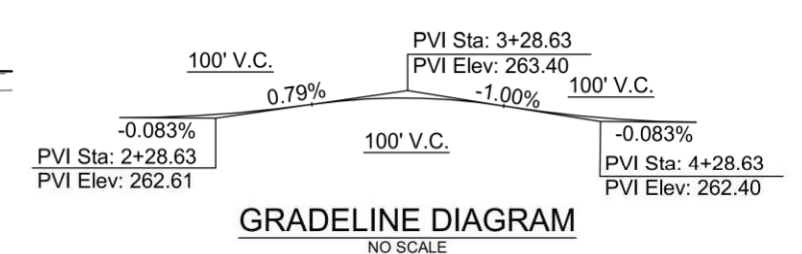
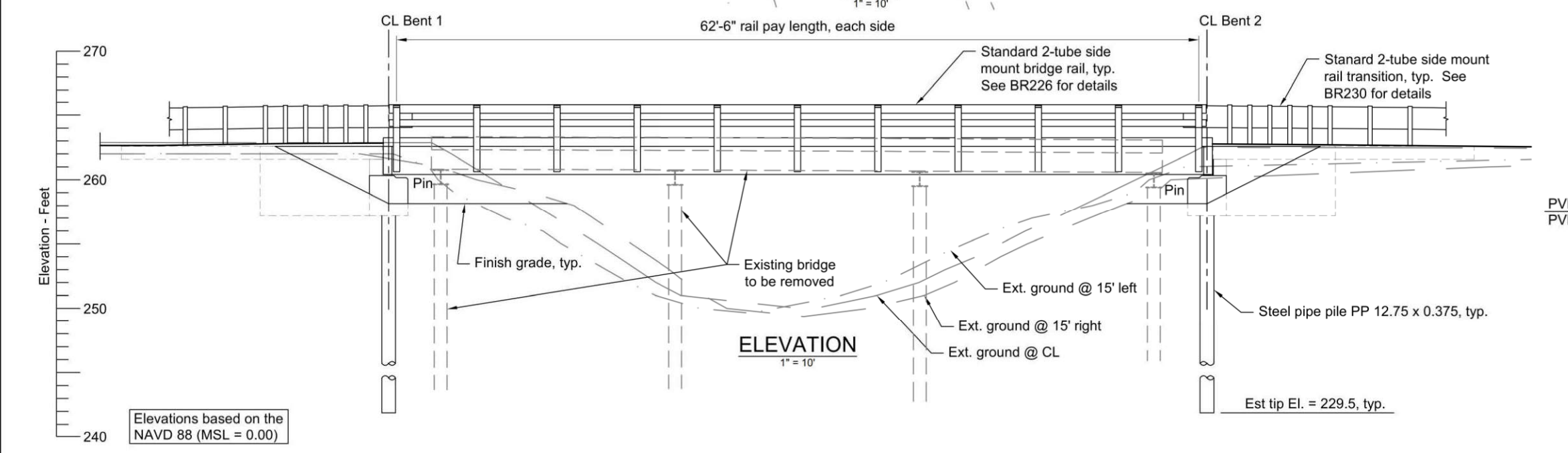
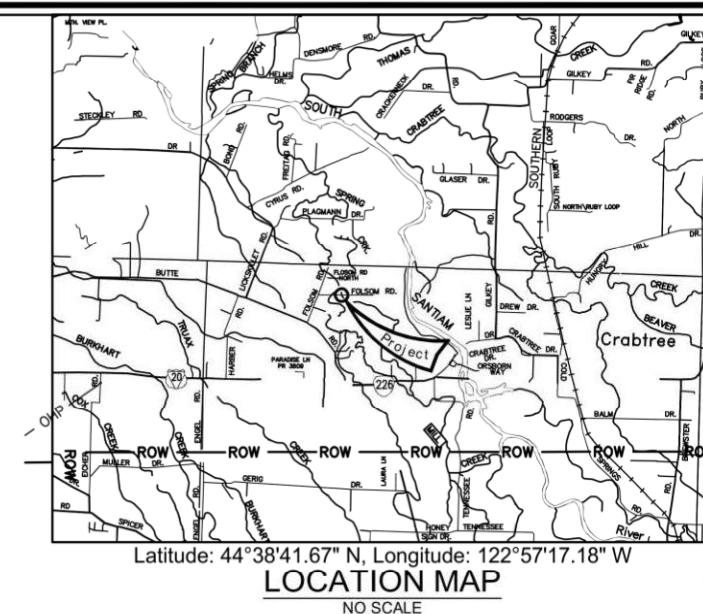
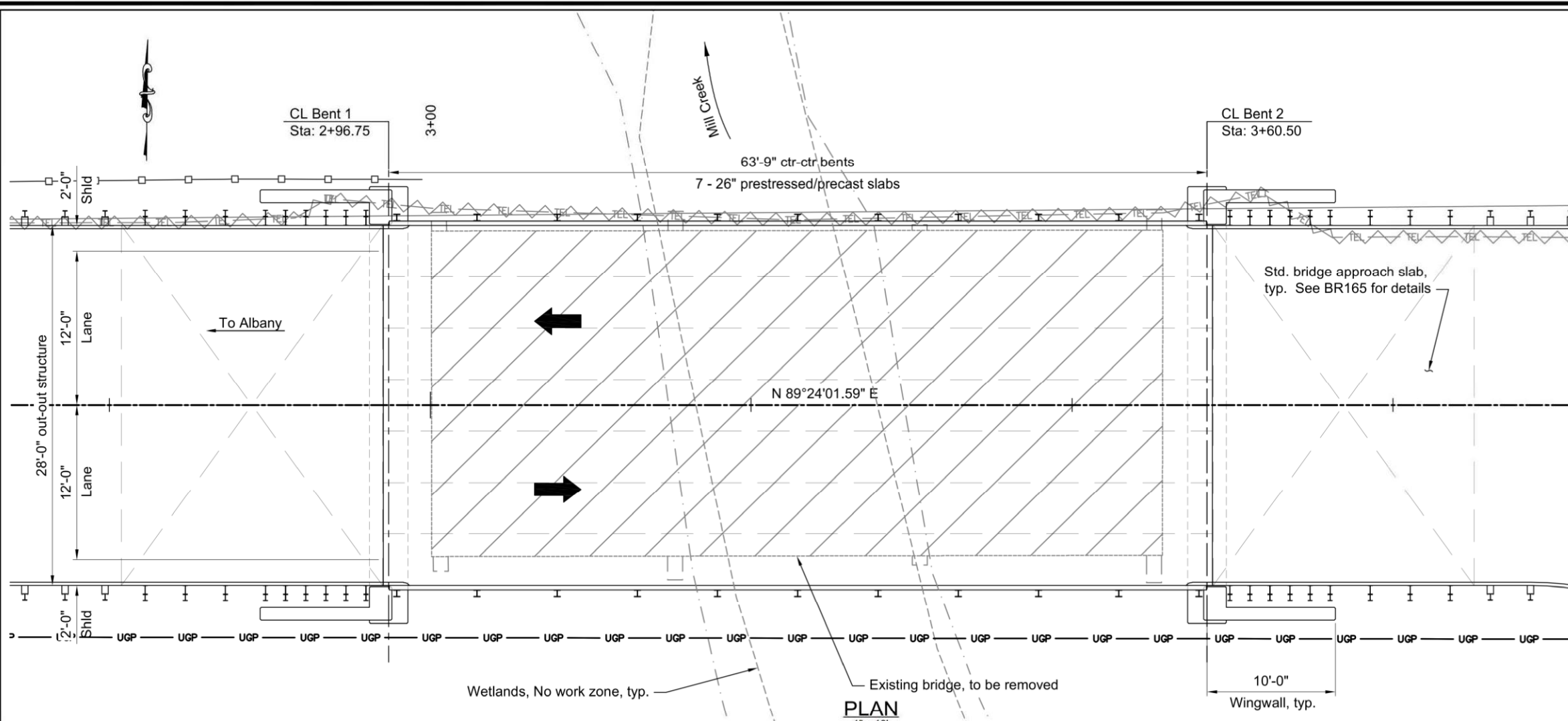
MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT  
  
LINN COUNTY  
2022

UTILITIES  
  
SCALE: as shown  
SHEET 9

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
Digitally signed by Kevin M. Groom  
Date: 2022.06.10 10:17:44-07'00'  
OREGON  
JULY 19, 1994  
KEVIN M. GROOM  
Expires: 6/30/2023

6/10/2022 9:59 AM

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REGISTERED PROFESSIONAL ENGINEER  
17206PE  
Digitally signed by Kevin M. Groom  
Date: 2022.06.10 10:18:23-07'00'  
OREGON  
JULY 19, 1994  
KEVIN M. GROOM  
Expires: 6/30/2023



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DAINEAL MALONE, P.E.

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			0651-0065	6/7/2022
			PROJECT NO: CB1801	
			TRS: T. 11 S., R. 02 W., SECTION 5, W.M.	
			DESIGNED BY: K. Groom	CHECKED BY: A. Potts
			DRAFTED BY: K. Groom	REVIEWED BY: D. Malone

MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT  
LINN COUNTY  
2022

PLAN AND ELEVATION  
SCALE: as shown  
SHEET BR-01



6/10/2022 9:59 AM

**General Notes:**

All materials and workmanship shall conform to the 2021 Oregon Standard Specifications for Construction and the Project Special Provisions, and the current edition of The General Conditions for Construction for the Linn County Road Department.

Bridge is designed in accordance with the 8th edition of the AASHTO LRFD Bridge Design Specifications with an allowance for the wearing surface shown on the plans, 25 psf for future wearing surface, and all the following live loads:

**Service and Strength-1 Limit States:**

HL-93: Design truck (or trucks per LRFD 3.6.1.3) or the design tandem, and the design lane load

**Strength-2 Limit State:**

ODOT Permit Vehicle Type OR-STP-4E  
 ODOT Permit Vehicle Type OR-STP-5BW

In addition to the requirements of the AASHTO LRFD Bridge Design Specifications, the detour bridge shall be designed to accommodate an ODOT Type OR-CTP-2A truck.

Seismic design is performed in accordance with the "AASHTO LRFD Bridge Design Specifications" ("AASHTO Guide Specifications for LRFD Seismic Bridge Design") as modified by the "ODOT Bridge Design Manual". The Horizontal Peak Ground Acceleration Coefficient (PGA) for the 1000 year (Life Safety) and Cascadia Subduction Zone Earthquake (Operational) return periods are 0.24g and 0.20g, respectively, based on the 2014 USGS Seismic Hazard Maps and the PSU Acceleration Response Spectra web application, respectively. The bridge site is defined as a Site Class D with a site factor ( $F_{pga}$ ) of 1.36, and  $V_{s30} = 885$  fps.

Provide all reinforcing steel according to ASTM Specification A706 or ASTM A615, Grade 60. Provide welded or field bent bars according to ASTM Specification A706. Splice reinforcing steel at alternate bars, staggered at least one splice length or as far as possible, unless shown otherwise. Use the following splice lengths, unless shown otherwise:

SPlice LENGTH (CLASS B)*											
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'-11"	Not Permitted	

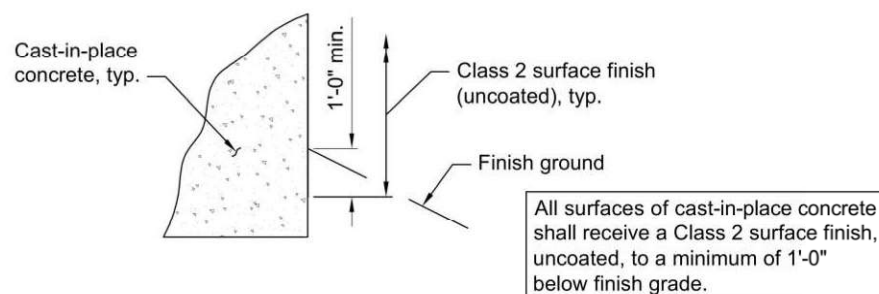
\*Increase the splice lengths by ALL the applicable percentages:  
 40% for locations with 12 inches or more of fresh concrete placed below.  
 30% for areas with more than 50% of bars spliced in one region.

Place reinforcing bars a minimum of 2-inches clear of the nearest face of concrete, unless shown otherwise.

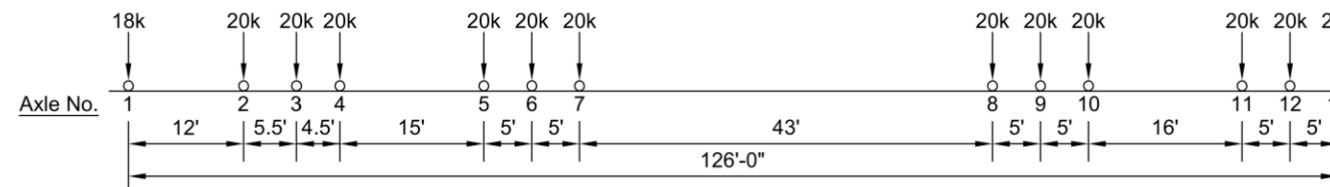
Provide Class 3300 - 1" or  $\frac{3}{4}$ " concrete for all concrete not otherwise specified.

Provide concrete and prestressing steel in precast prestressed slabs in accordance with detail plans.

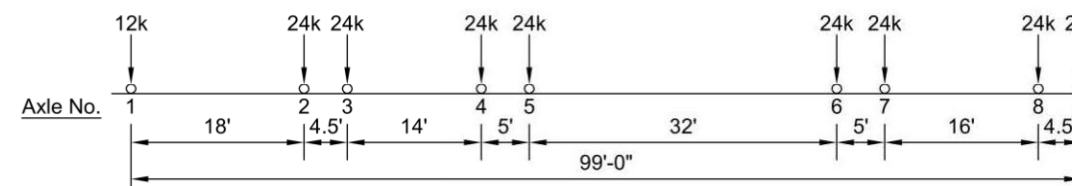
Provide bridge rail materials according to the ODOT Standard Drawings referenced.



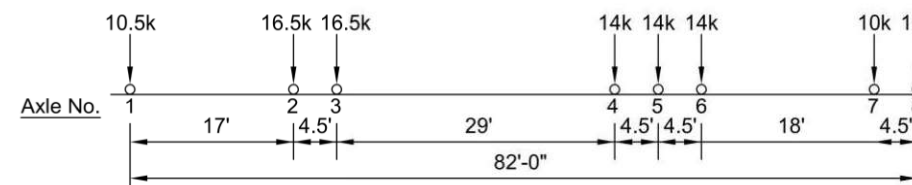
**CONCRETE FINISH DIAGRAM**  
NO SCALE



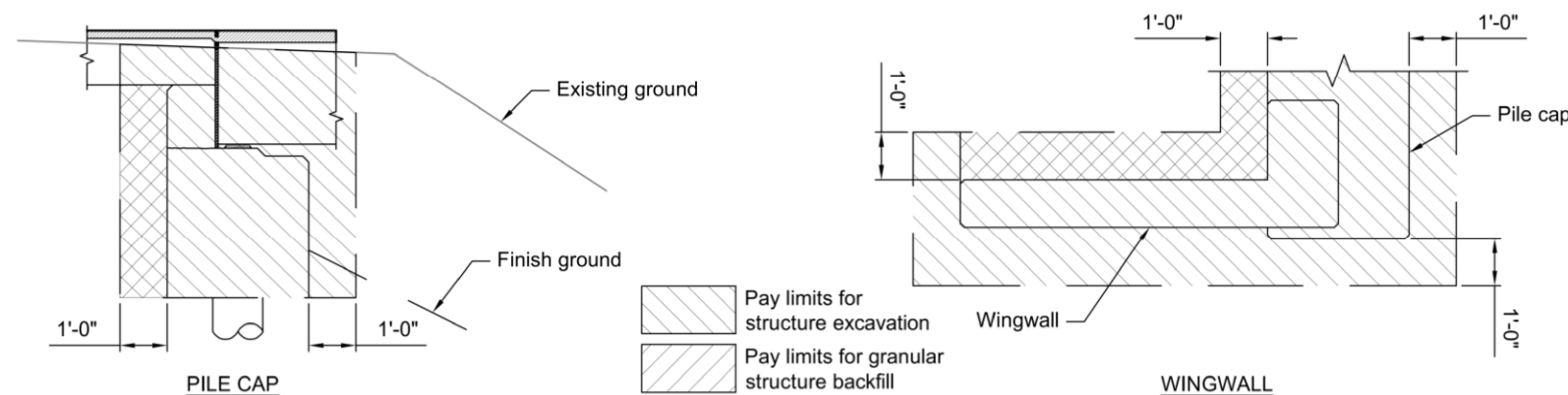
**ODOT PERMIT VEHICLE TYPE OR-STP-4E**  
NO SCALE



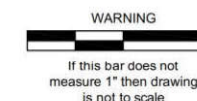
**ODOT PERMIT VEHICLE TYPE OR-STP-5BW**  
NO SCALE



**ODOT PERMIT VEHICLE TYPE OR-CTP-2A (DETOUR BRIDGE ONLY)**  
NO SCALE



**STRUCTURE EXCAVATION AND BACKFILL PAY LIMITS**  
NO SCALE



Expires: 6/30/2023

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DATE:	REVISION:	BY:	BRIDGE NO:	DATE:
			0651-0065	6/7/2022
			PROJECT NO: CB1801	
			TRS: T. 11 S., R. 02 W., SECTION 5, W.M.	
			DESIGNED BY: K. Groom	CHECKED BY: A. Potts
			DRAFTED BY: K. Groom	REVIEWED BY: D. Malone

MILL CREEK - FOLSOM ROAD  
 BRIDGE REPLACEMENT

LINN COUNTY  
 2022

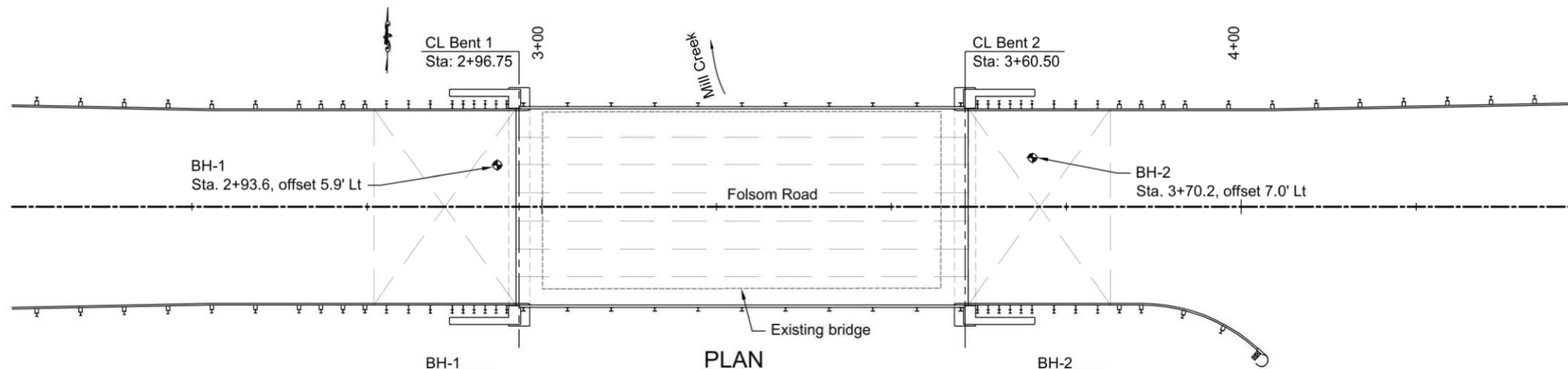
GENERAL NOTES

SCALE: none

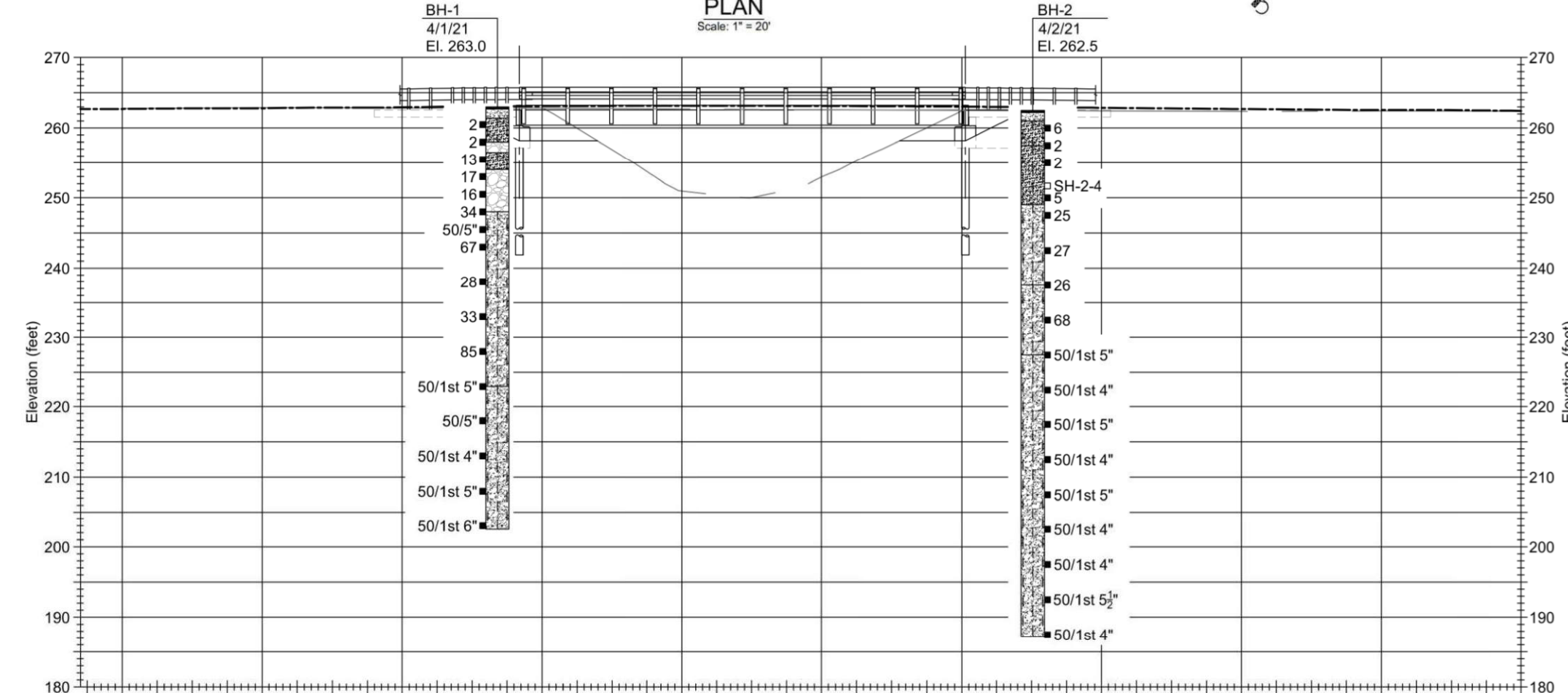
SHEET BR-02

6/7/2022 2:59 PM

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PLAN  
Scale: 1" = 20'



PROFILE  
Scale: 1" = 20'

Elevations based on the NAVD 88 (MSL = 0.00)

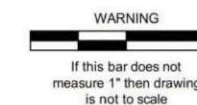
UNIT DESCRIPTIONS

- ASPHALTIC CONCRETE
- CRUSHED ROCK (GW); grey, dry to damp, medium dense, ±1-inch minus angular rock, (base rock).
- Silty SAND (SM) and silty SAND, trace gravel (SM); grey to brown and iron-stained, low plasticity silt, damp to wet, very loose to medium dense, fine sand, fine to coarse subangular gravel, (fill or alluvium).
- GRAVEL, trace silt and sand (GP to GW); grey, low plasticity silt, moist to wet, very loose to medium dense, fine sand, fine to coarse subangular to subrounded gravel, (fill or alluvium).
- GRAVEL, some silt and sand (GW-GM); GRAVEL, trace to some silt and some sand (GW-GM); sandy GRAVEL, some silt (GW-GM); grey, brown, blue-grey, and dark grey to black, low plasticity silt, moist to wet, medium dense to very dense, fine sand, fine to coarse subrounded gravel, (alluvium)

LEGEND

- ◆ = Geotechnical Boring (BH)
- 24 = Standard Penetration Test
- N value
- SH-3-2 = Shelby Tube Sample

Geotechnical data shown on this drawing are a consolidation of information and/or revision in terminology from the Geotechnical Boring logs. Boring logs used in compiling this drawing are available upon request for review at the office of the Linn County Road Department. Contractor shall refer to the geotechnical report and boring logs and information therein.



**FOUNDATION ENGINEERING, INC.**  
PROFESSIONAL GEOTECHNICAL SERVICES

820 N.W. CORNELL AVENUE  
CORVALLIS, OREGON 97330  
BUS. (541) 757-7645 FAX (541) 757-7650



RENEWS: 12-31-2022



**LINN COUNTY ROAD DEPARTMENT**  
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BRIDGE NO:	0651-0065	DATE:	6/7/2022
PROJECT NO:	CB1801		
TRS:	T. 11 S., R. 02 W., SECTION 5, W.M.		
DESIGNED BY:	B. Nickels	CHECKED BY:	B. Running
DRAFTED BY:	K. Groom	REVIEWED BY:	M. Mason

MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT

LINN COUNTY  
2022

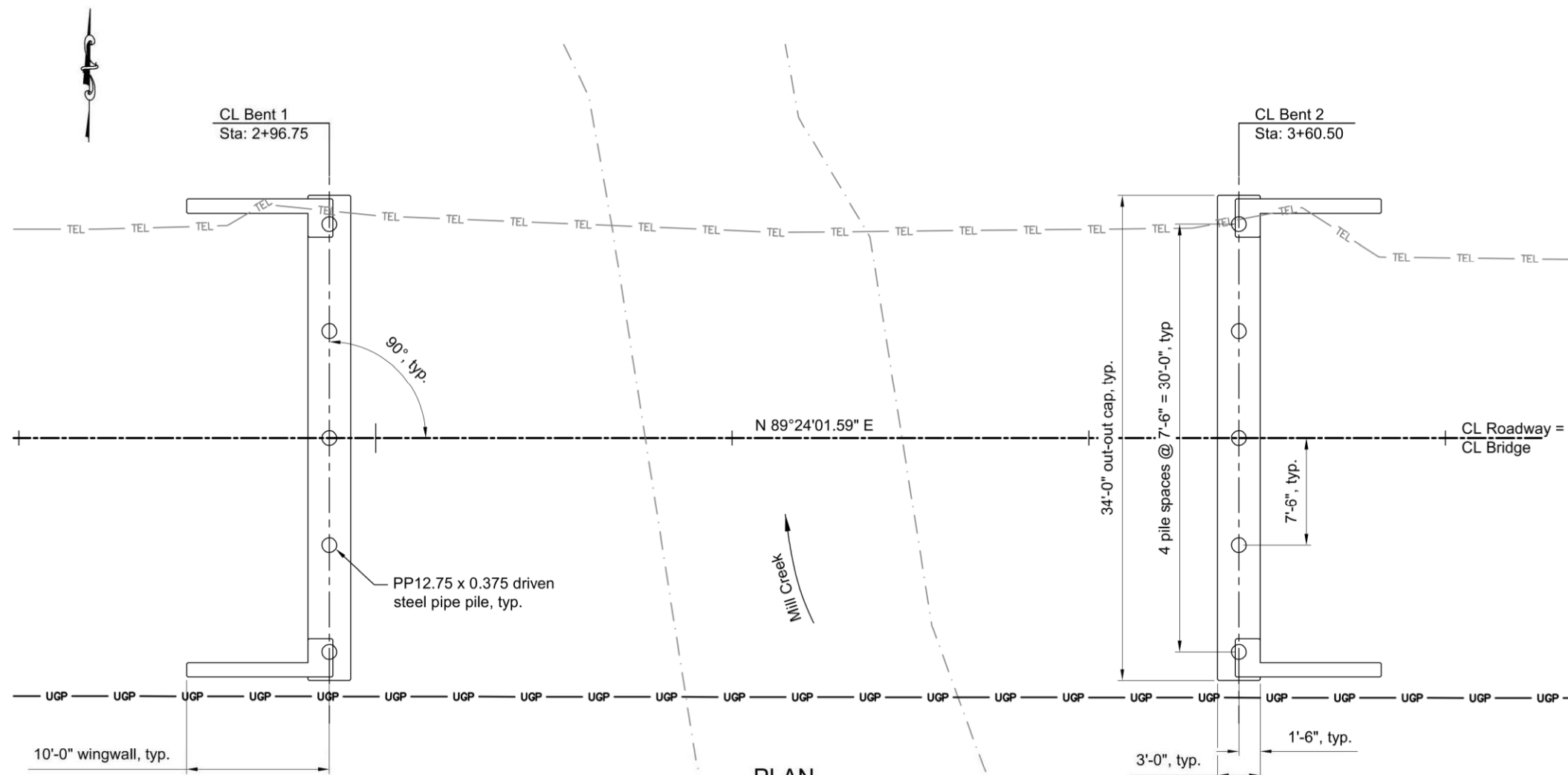
FOUNDATION DATA SHEET

SCALE: as shown

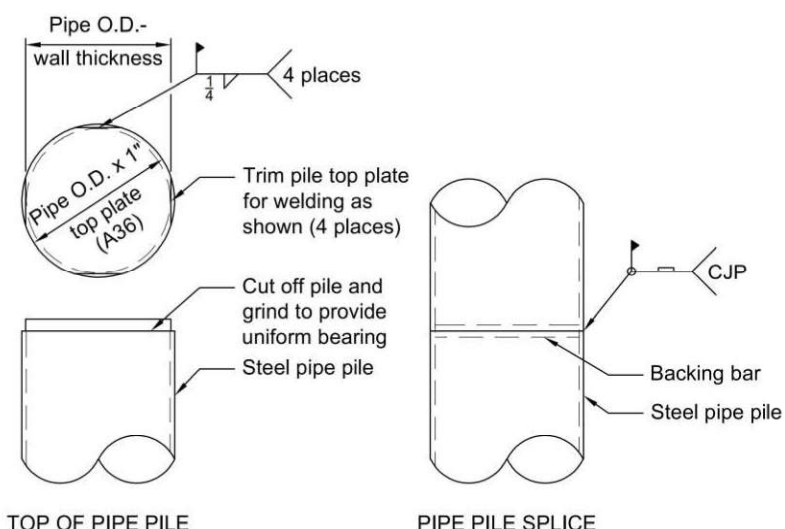
SHEET BR-03



6/10/2022 9:59 AM



PLAN  
1" = 10'



STEEL PIPE PILE DETAILS  
NO SCALE

**Foundation General Notes:**  
 All piling shall be PP 12.75 x 0.375 conforming to ASTM Specification A252, Grade 3 and driven open ended with inside-fitting cutting shoes to a nominal resistance of 475 kips per pile. Minimum pile tip elevation is 235.0 feet for Bents 1 & 2. The estimated pile tip elevation is 229.5 feet for both bents. Drive piling to the specified nominal resistance using driving criteria developed from the FHWA Gates Equation.  
 All bents are parallel with a bearing of N0°35'58.41\"W.

WARNING  
 If this bar does not measure 1\" then drawing is not to scale

REGISTERED PROFESSIONAL ENGINEER  
 17206PE  
 Digitally signed by Kevin M. Groom  
 Date: 2022.06.10 10:19:33-07'00'  
 OREGON  
 JULY 19, 1994  
 KEVIN M. GROOM  
 Expires: 6/30/2023



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MILL CREEK - FOLSOM ROAD  
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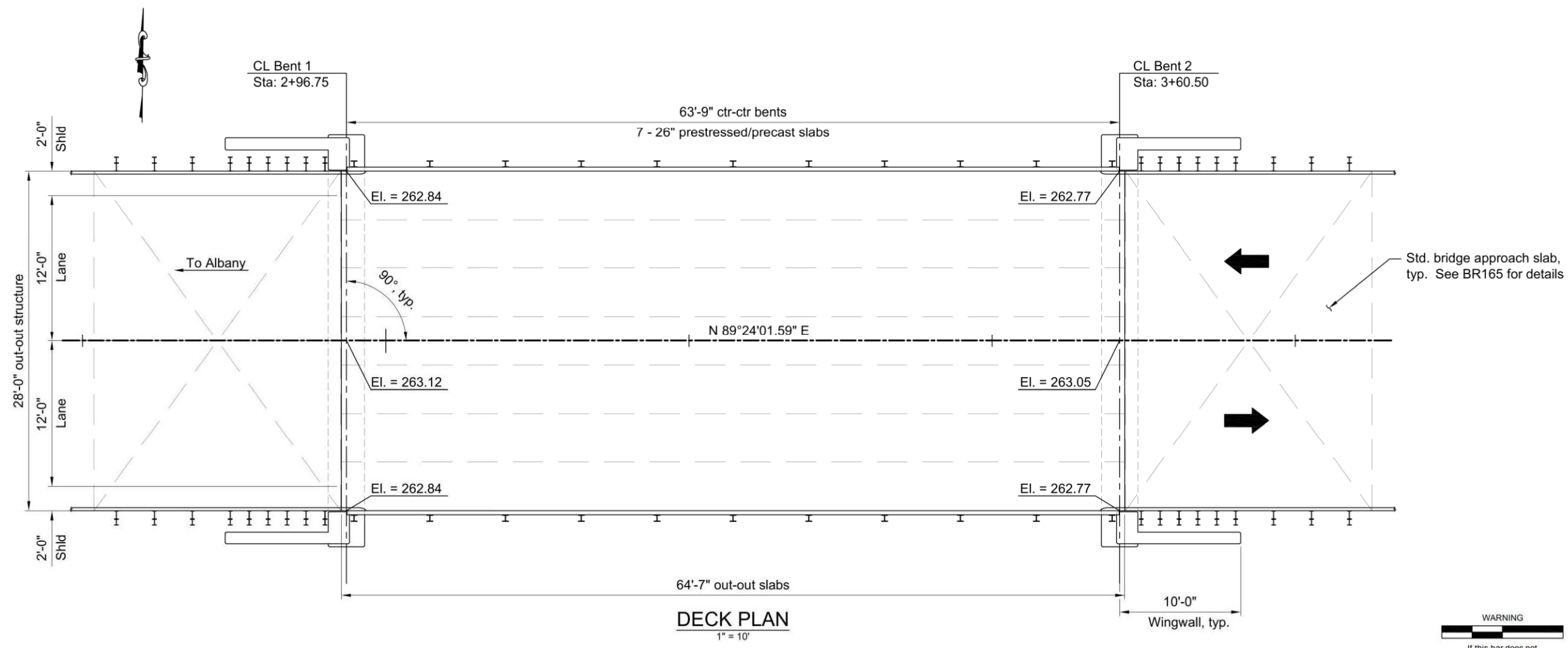
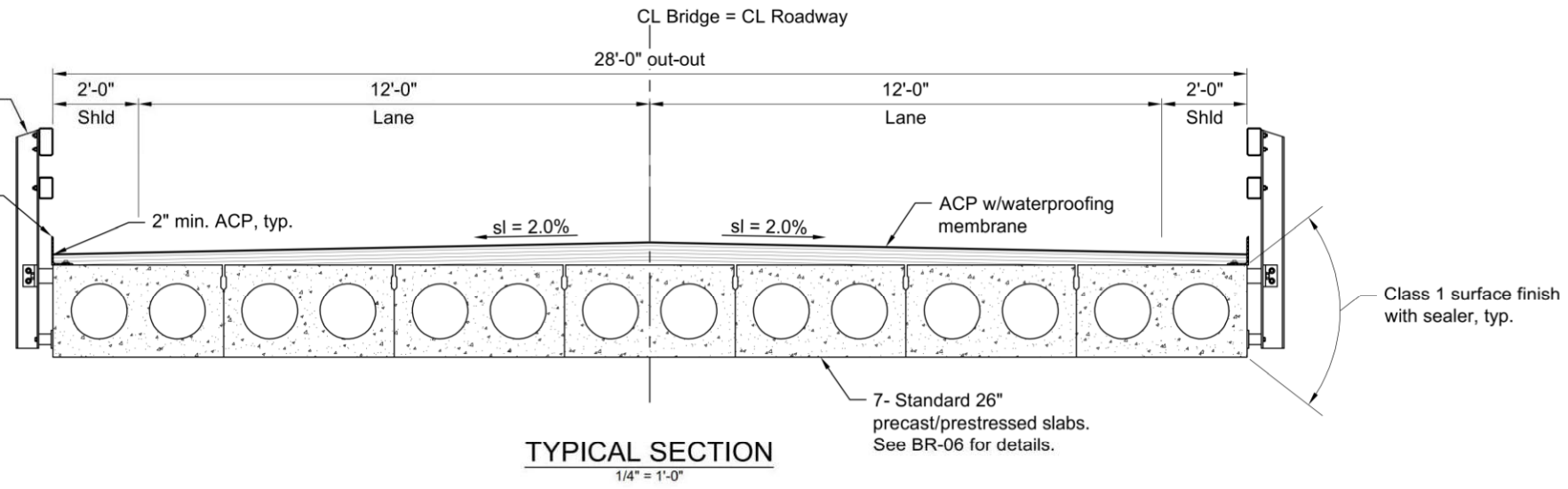
FOUNDATION PLAN AND DETAILS  
 SCALE: as shown  
 SHEET BR-04

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6/10/2022 9:59 AM

2-tube side mount bridge rail, typ. See BR226 for details

Drainage curb, typ. See Sht BR-06 for details



WARNING  
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JULY 19, 1994  
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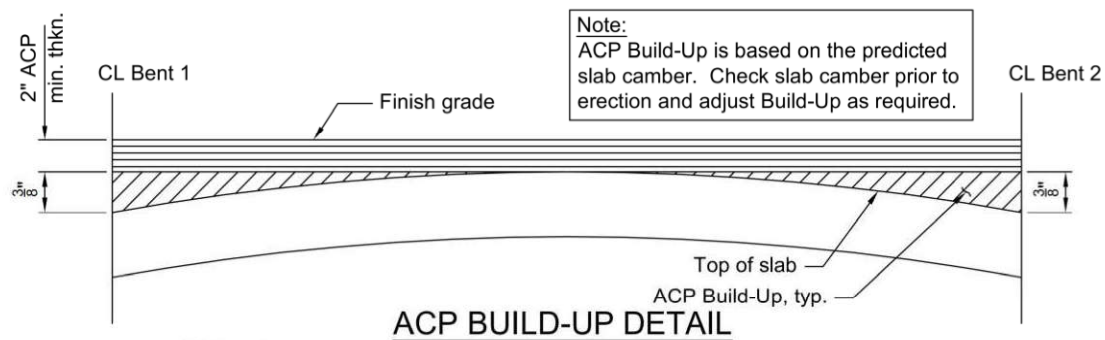
MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT  
LINN COUNTY  
2022

TYPICAL SECTION AND DECK PLAN  
SCALE: as shown  
SHEET BR-05

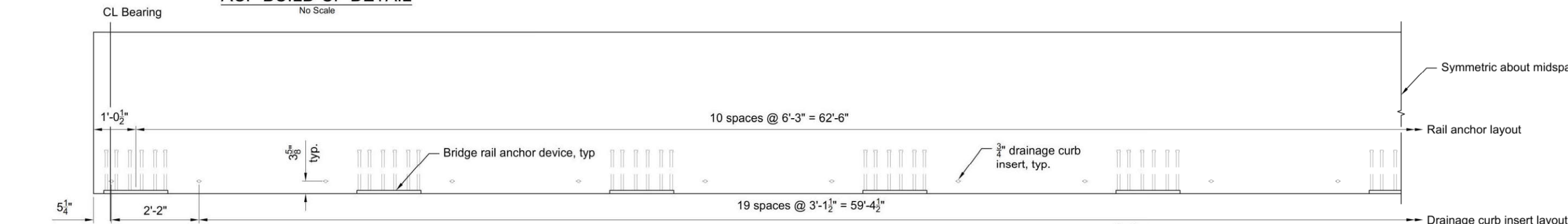


26 - INCH STANDARD PRECAST PRESTRESSED SLAB SCHEDULE																					
No. of slabs required	Span No.	Horizontal length o-o at slab CL (after shortening)	Span ctr.-ctr. bearing along slab CL	Width, inches	Skew Angle, Deg.		Initial tension per strand, kips	Total strands	No. debonded strands	Distance "Yc" to strand c.g. at midspan, inches	Distance "Yu" to strand c.g. at midspan subtracting top 4 strands, inches	Concrete Class, psi	A = 3/4" or 1"	Minimum concrete strength at transfer of prestress, psi	Estimated initial strand stress loss, ksi	Estimated midspan deflection, inches					
					Back	Ahead										Upward at transfer of prestress	Upward 3 months after transfer of prestress (No SIDL)	Upward 5 years after transfer of prestress (No SIDL)	Instantaneous downward due to SIDL	Downward due to SIDL 5 years after loading	Estimated shortening 2 weeks after transfer of prestress, inches
7	1	64'-7"	63'-9"	48.0	0	0	31.0	38	4	5.36	3.29	5,500	A = 3/4" or 1"	4,200	10.3	1.00	1.65	2.05	0.31	0.94	0.38

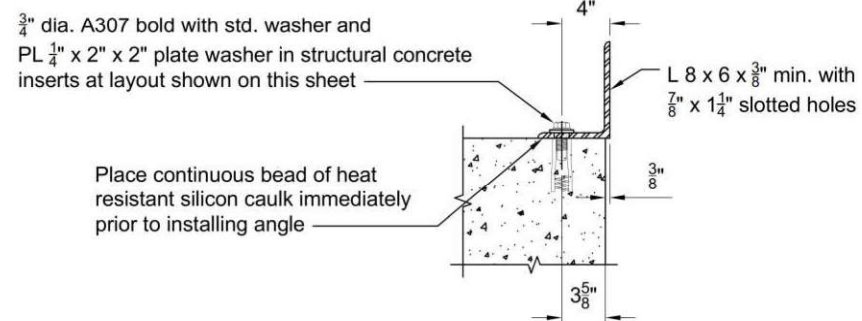
The superimposed dead load (SIDL) is 63.7 psf, which includes the initial wearing surface and bridge rails. The slabs are designed for an allowance for 2" of future wearing surface.



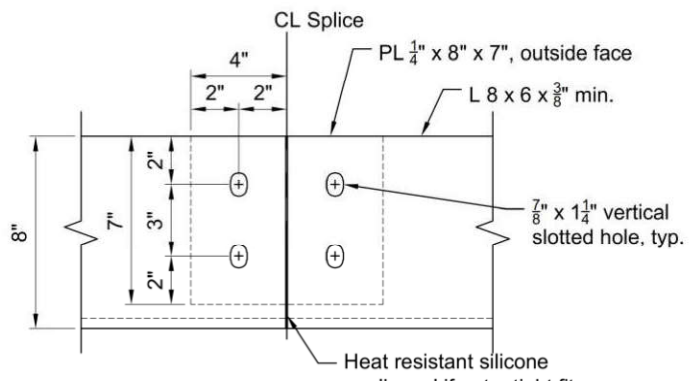
ACP BUILD-UP DETAIL  
No Scale



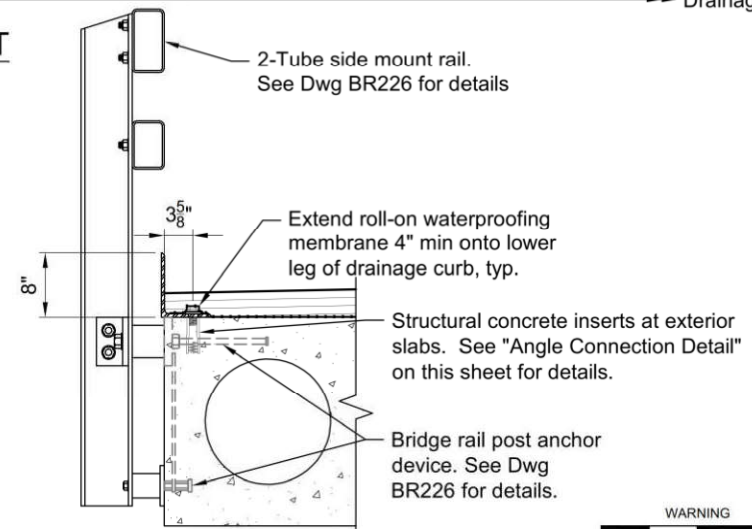
EXTERIOR SLAB - RAIL ANCHOR AND INSERT LAYOUT  
3/8" = 1'-0"



ANGLE CONNECTION DETAIL  
3/4" = 1'-0"



ANGLE SPlice DETAIL  
1-1/2" = 1'-0"



RAIL & DRAINAGE CURB DETAIL  
1/2" = 1'-0"

WARNING  
If this bar does not measure 1" then drawing is not to scale

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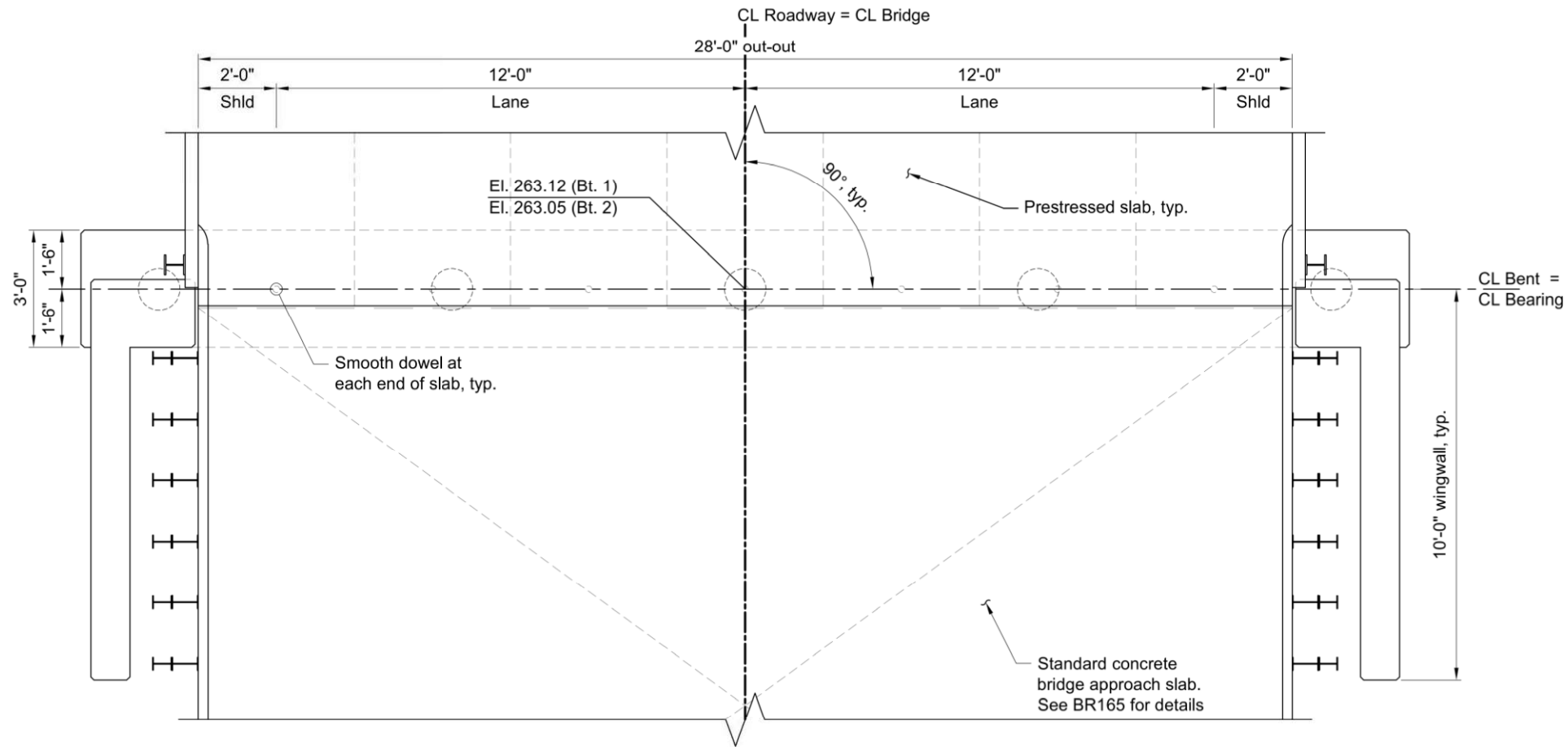
**ROADMASTER**  
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COUNTY ENGINEER  
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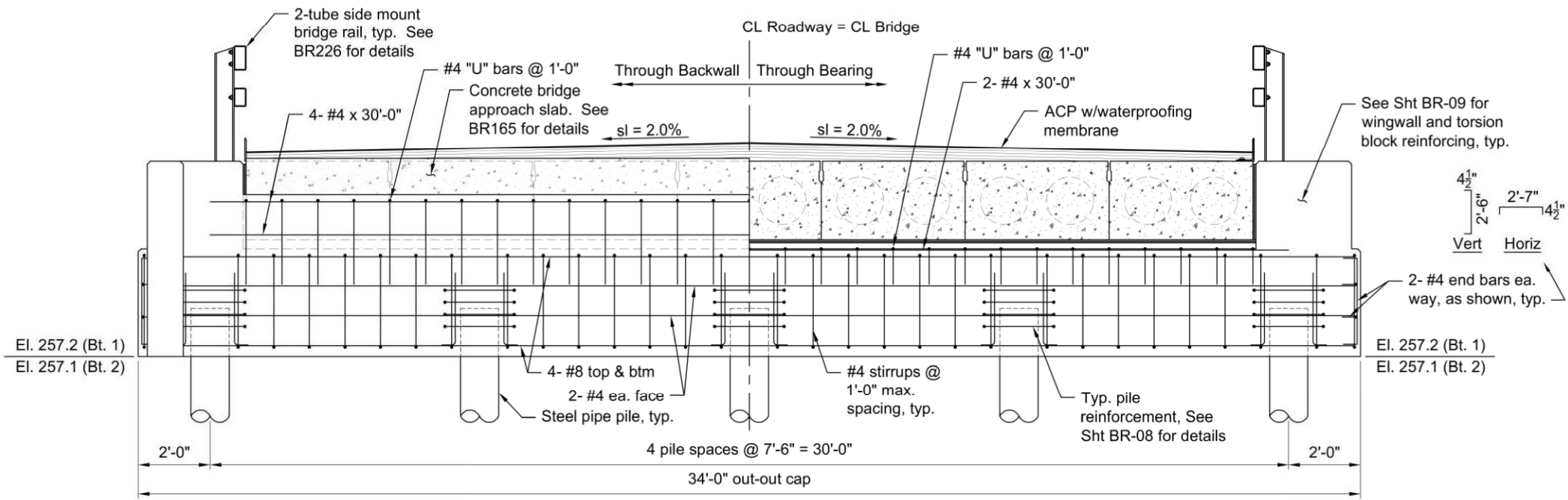
SLAB AND DRAINAGE CURB DETAILS  
SCALE: as shown  
SHEET BR-06

6/10/2022 10:00 AM



BENT 1 - PLAN (BENT 2 SIMILAR)

1/4" = 1'-0"



BENT 1 - ELEVATION (BENT 2 SIMILAR)

1/4" = 1'-0"

WARNING  
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**COUNTY ENGINEER**  
DAINEAL MALONE, P.E.

DATE:	REVISION:	BY:	BRIDGE NO:	DATE:
			0651-0065	6/7/2022
			PROJECT NO: CB1801	
			TRS: T. 11 S., R. 02 W., SECTION 5, W.M.	
			DESIGNED BY: K. Groom	CHECKED BY: A. Potts
			DRAFTED BY: K. Groom	REVIEWED BY: D. Malone

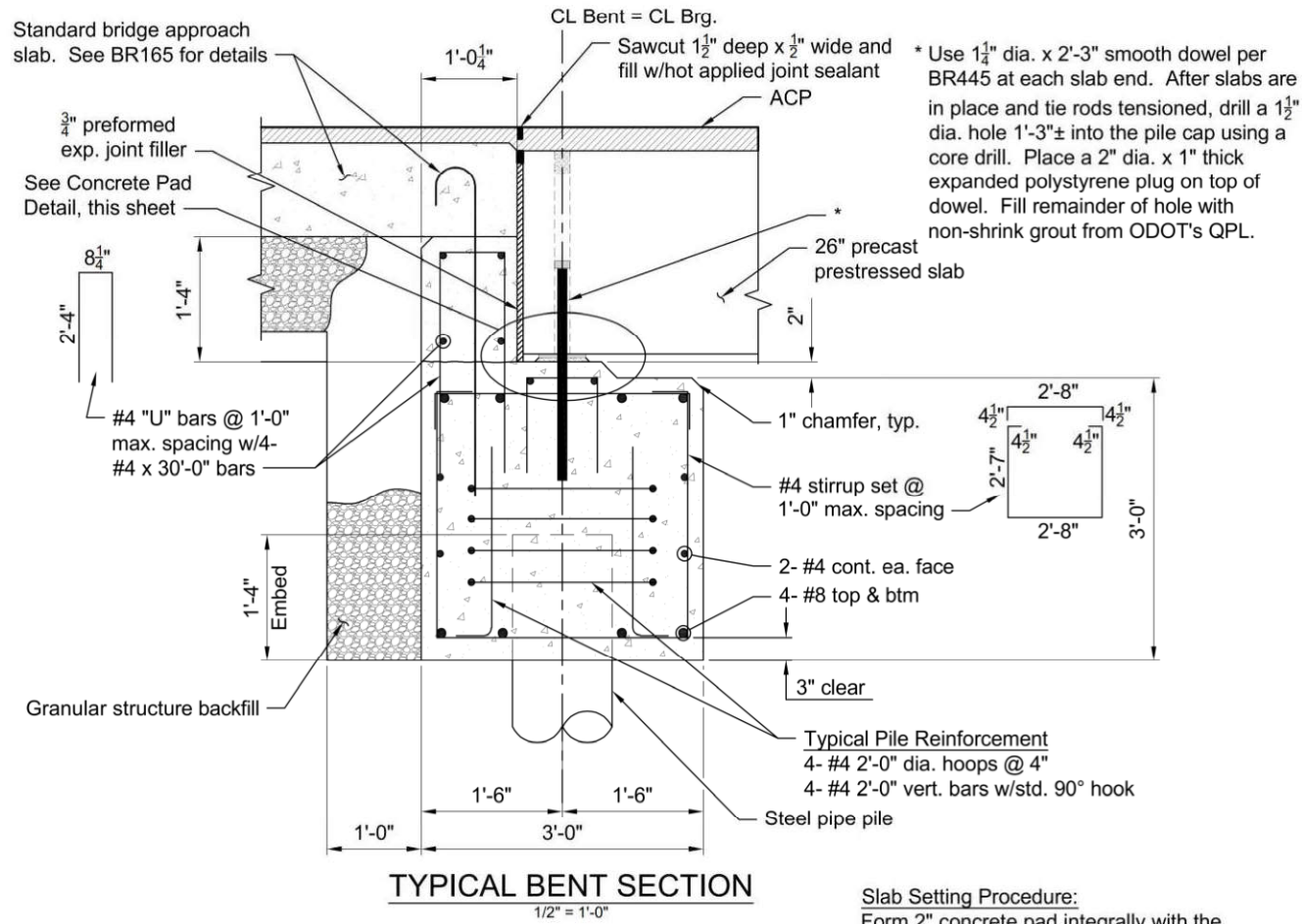
MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT

LINN COUNTY  
2022

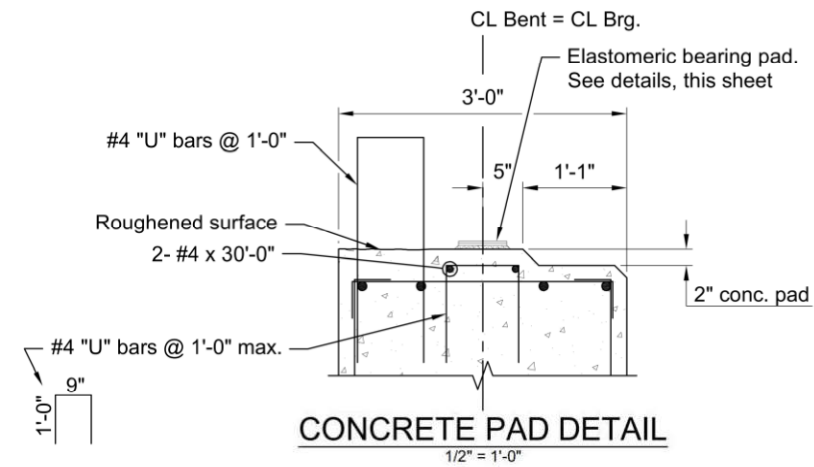
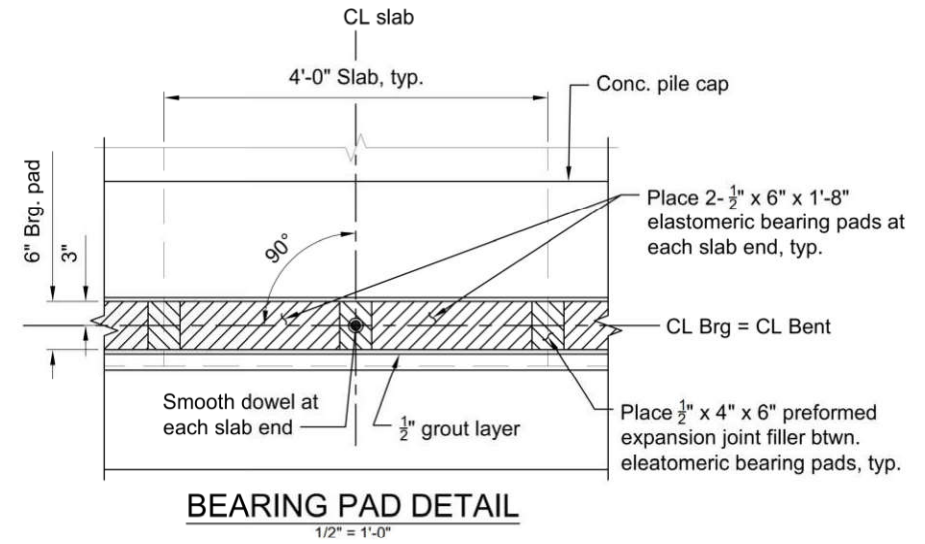
BENT 1 PLAN AND ELEVATION

SCALE: as shown SHEET BR-07





**Slab Setting Procedure:**  
 Form 2" concrete pad integrally with the pile cap. Place 1/2"± grout layer immediately before placing slabs. Place elastomeric bearing pads, preformed expansion joint filler and prestressed slabs before the grout is fully set to insure uniform bearing across full width of slab. 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.



WARNING

If this bar does not measure 1" then drawing is not to scale

REGISTERED PROFESSIONAL ENGINEER 17206PE

Digitally signed by Kevin M. Groom Date: 2022.06.10 10:21:53-07'00'

OREGON JULY 19, 1994 KEVIN M. GROOM

Expires: 6/30/2023



**LINN COUNTY ROAD DEPARTMENT**  
 3010 FERRY STREET SW  
 ALBANY, OREGON 97322  
 PHONE: (541) 967-3919  
 FAX: (541) 924-0202  
 E-MAIL: Roads@co.linn.or.us

**COUNTY COMMISSION**  
 ROGER NYQUIST  
 CHAIRMAN  
 WILLIAM TUCKER  
 SHERRIE SPRENGER

**ROADMASTER**  
 WAYNE E. MINK, P.E.  
**COUNTY ENGINEER**  
 DAINEAL MALONE, P.E.

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MILL CREEK - FOLSOM ROAD  
 BRIDGE REPLACEMENT

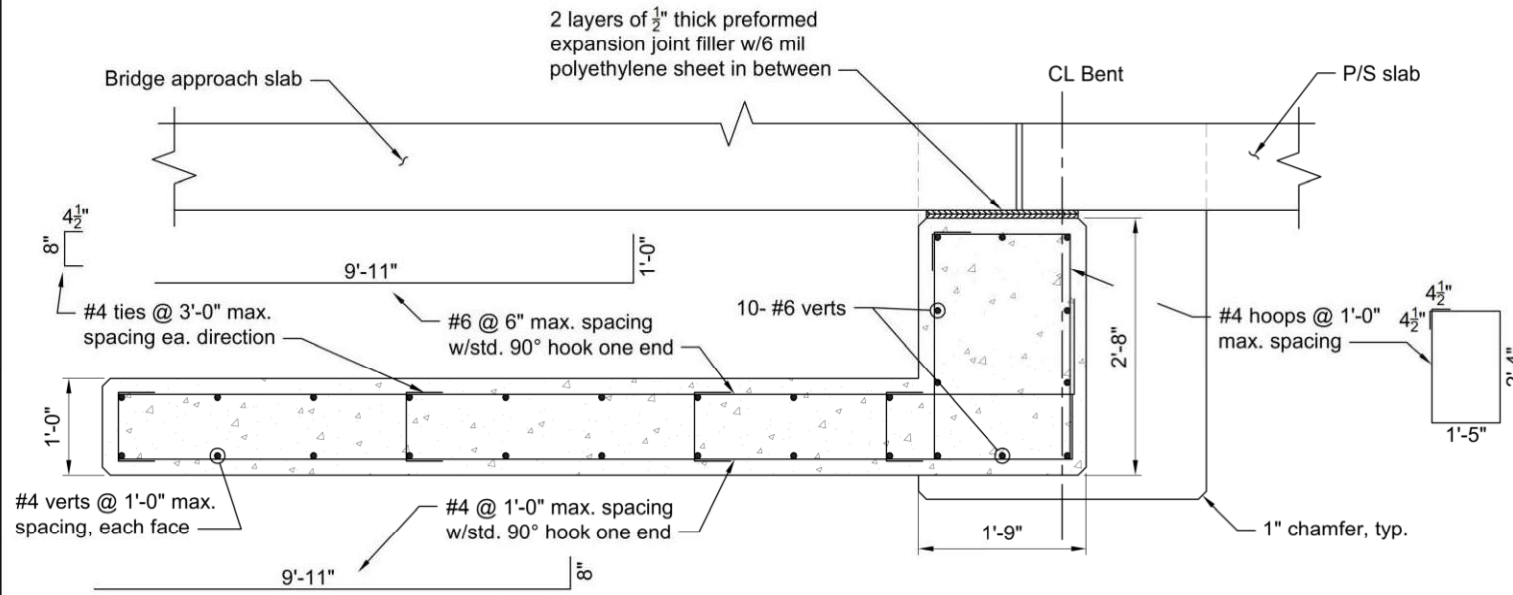
LINN COUNTY  
 2022

BENT DETAILS

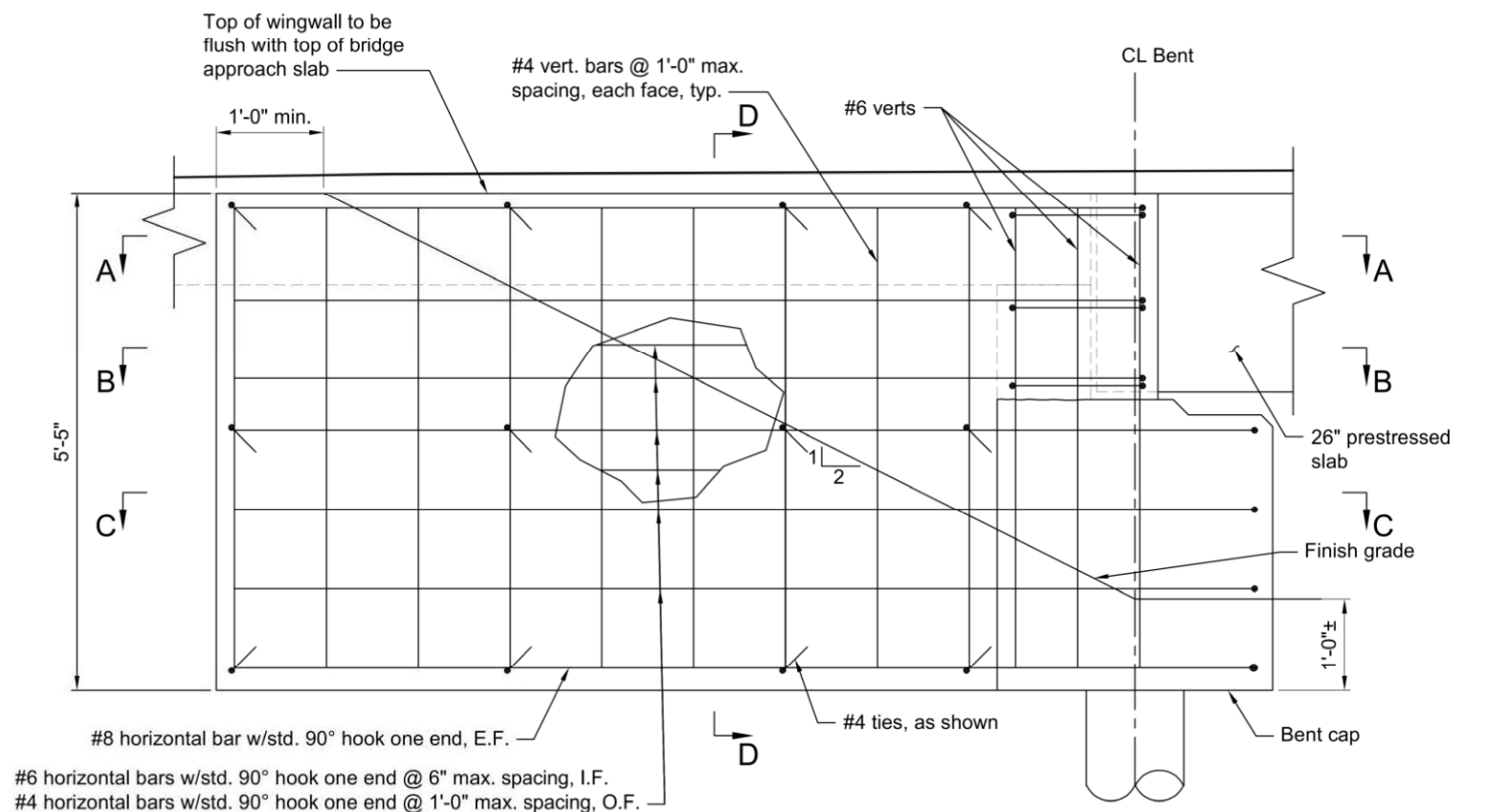
SCALE: as shown SHEET BR-08

6/10/2022 10:00 AM

K:\Projects - Current\BR 0651-0065 Folsom Road Mill Creek Bridge\KMGACAD\Folsom Road - Mill Creek Bridge Design 2022.dwg

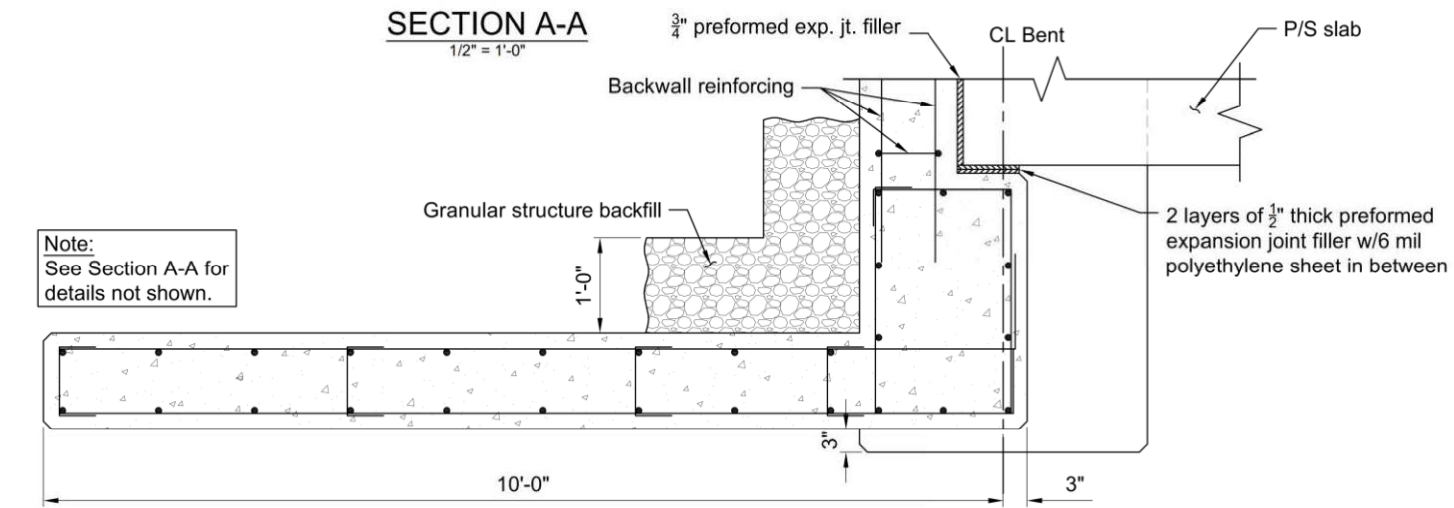


SECTION A-A  
1/2" = 1'-0"

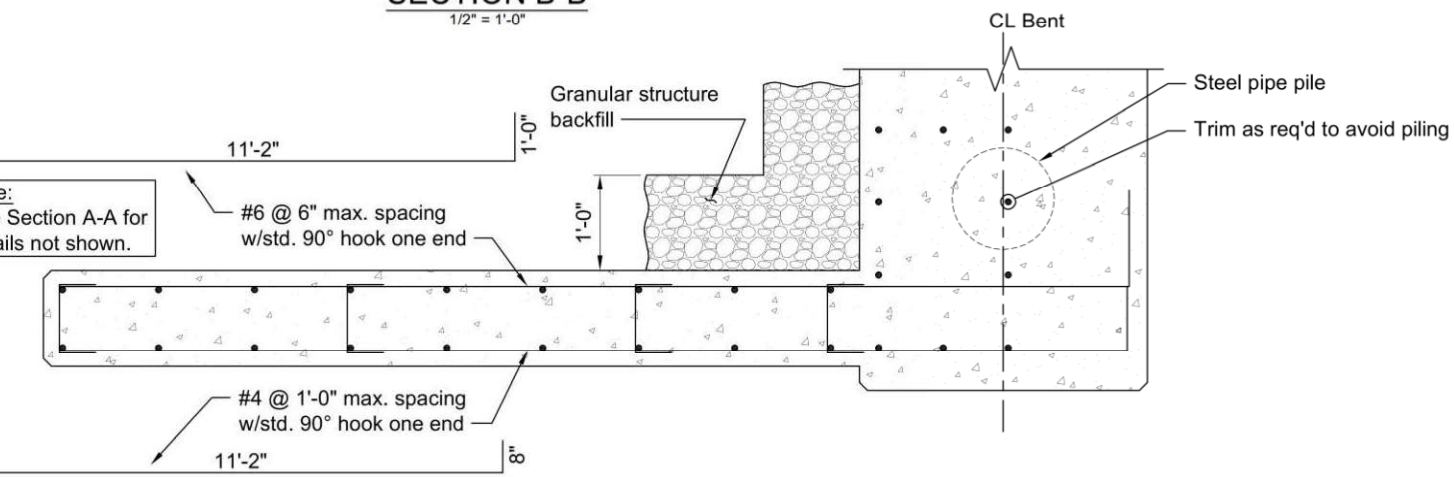


ELEVATION - BENT 1 WINGWALL (BENT 2 SIMILAR)  
1/2" = 1'-0"

Note:  
See Section A-A for details not shown.

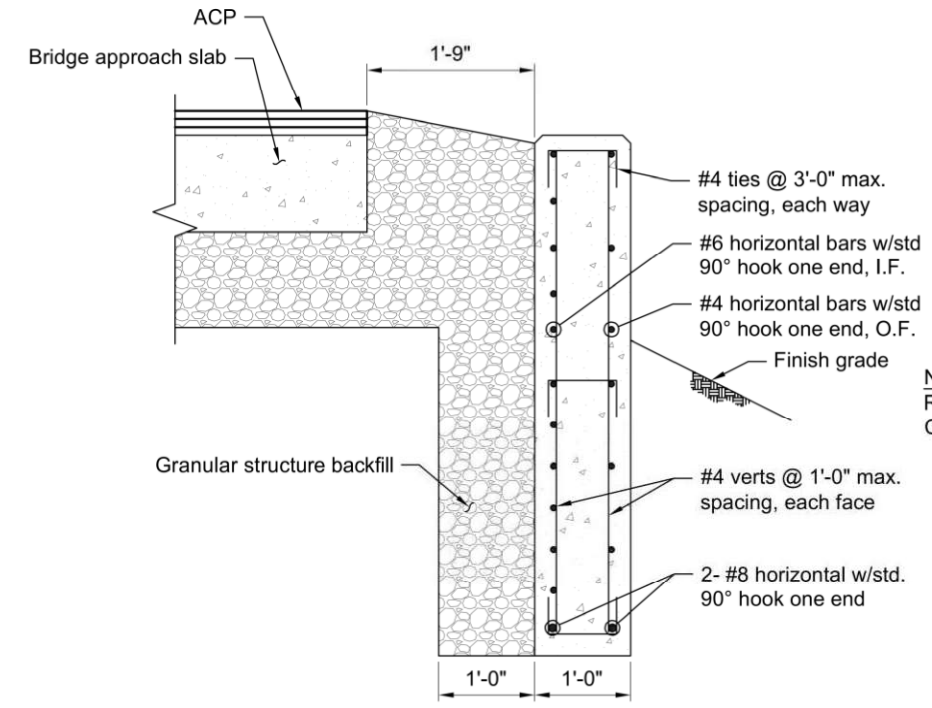


SECTION B-B  
1/2" = 1'-0"



SECTION C-C  
1/2" = 1'-0"

Note:  
See Section A-A for details not shown.



SECTION D-D  
1/2" = 1'-0"

Note:  
Refer to Sht BR-02 for Concrete Finish Diagram

WARNING  
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MILL CREEK - FOLSOM ROAD  
BRIDGE REPLACEMENT  
LINN COUNTY  
2022

WINGWALL DETAILS  
SCALE: as shown  
SHEET BR-09

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
Digitally signed by Kevin M. Groom  
Date: 2022.06.10 10:22:29-07'00'  
OREGON  
JULY 19, 1994  
KEVIN M. GROOM  
Expires: 6/30/2023