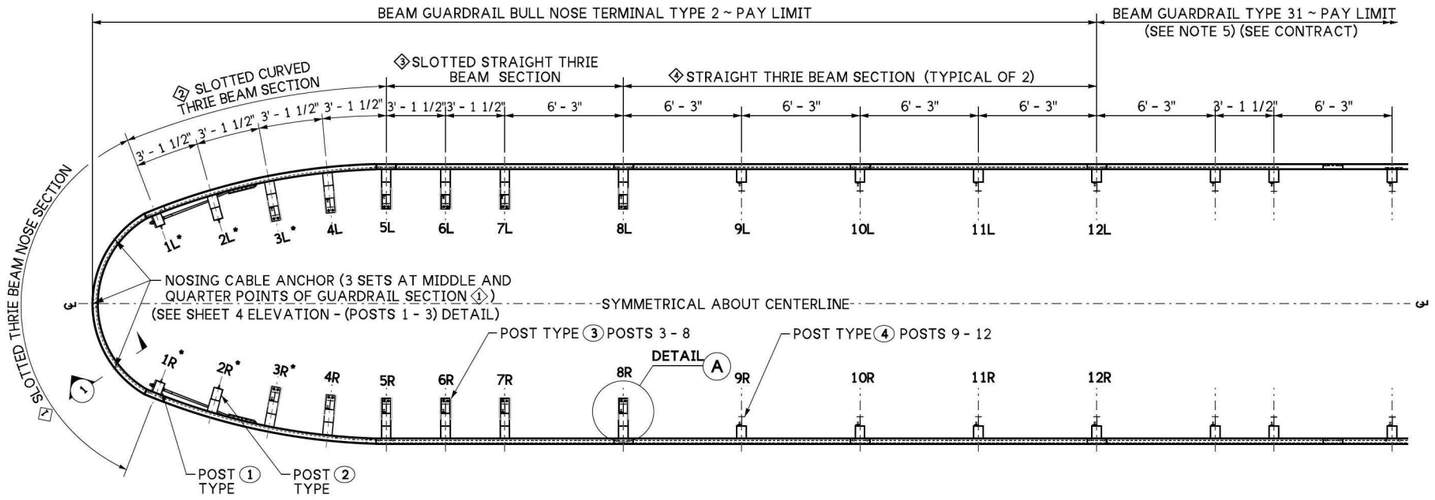
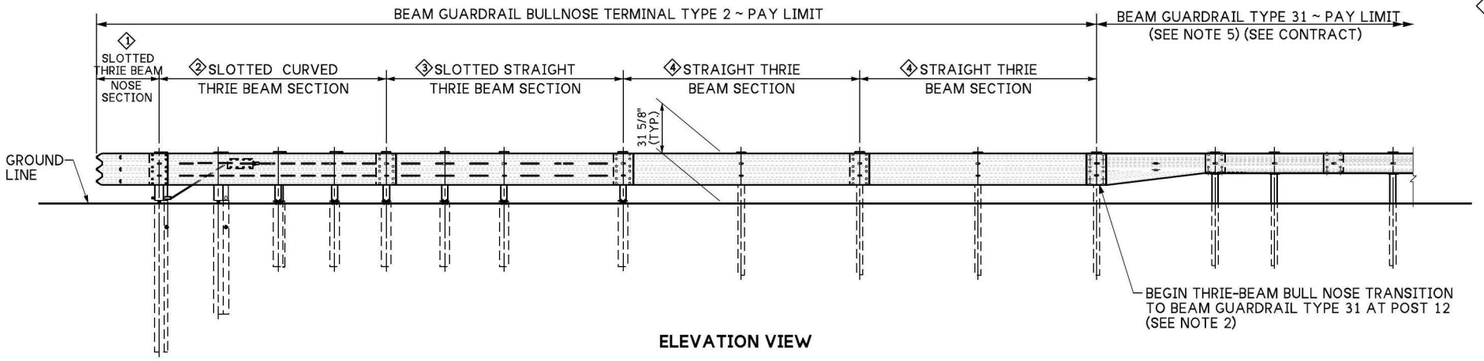
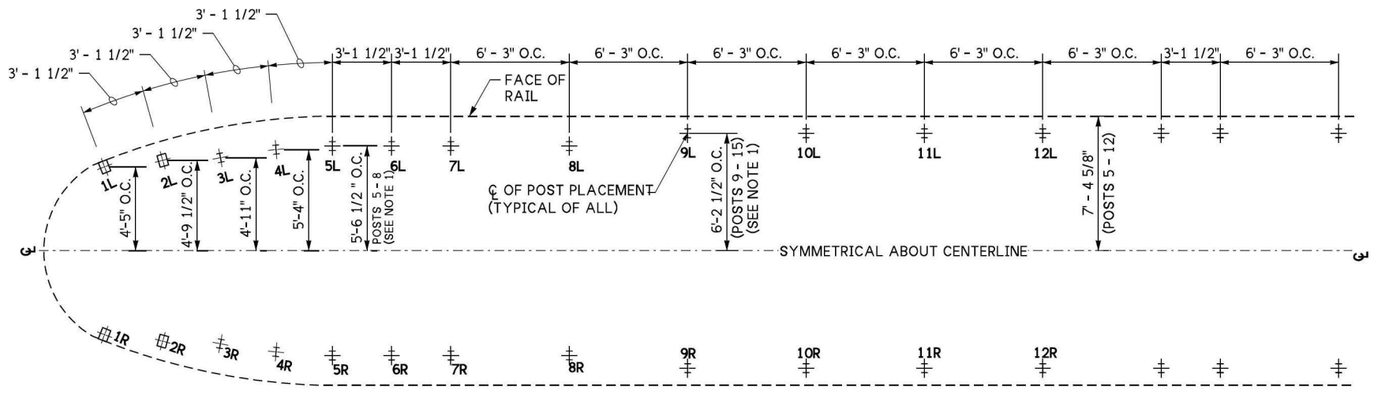


* SEE ELEVATION - (POSTS 1 - 3) DETAIL, SHEET 4

PLAN VIEW



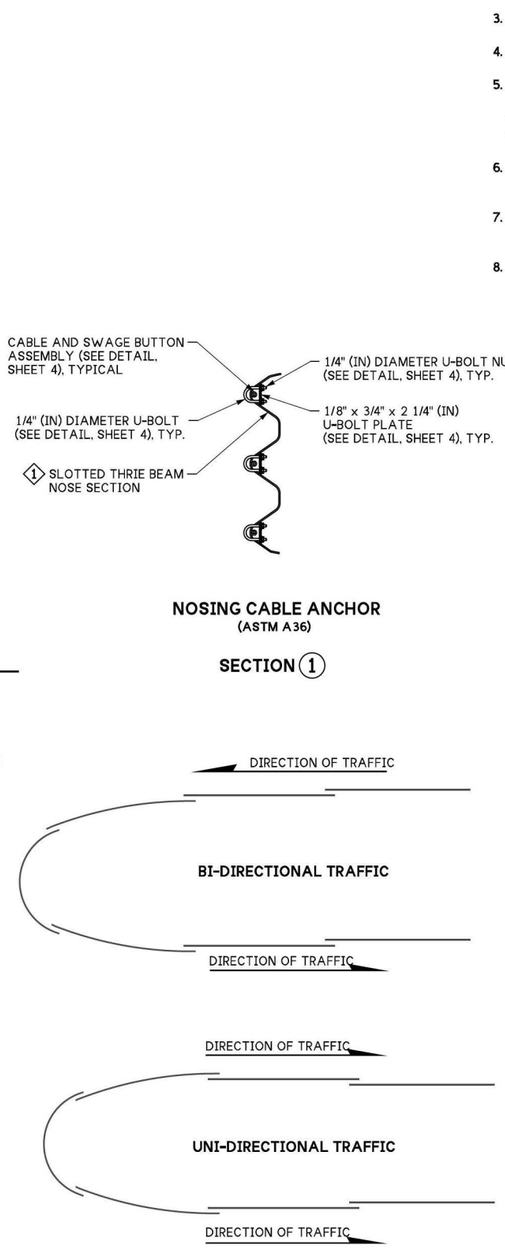
ELEVATION VIEW



POST SPACING LAYOUT
(SEE NOTE 1)

NOSING CABLE ANCHOR
(ASTM A36)

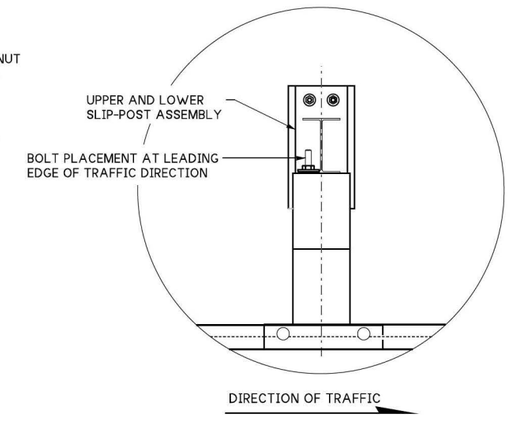
SECTION 1



RAIL LAPPING DETAIL

NOTES

1. See sheet 2 for Bull Nose Terminal Type 2 placement cases. Post spacing shown for placement case 1. When installing placement cases 2 and 3 adjust post offset and angle for posts after 5L & 5R for rail taper rate. Maintain post spacing parallel to rail elements.
2. See Thrie-Beam Bull Nose Transition to Beam Guardrail Type 31 detail (sheet 3) for transition to Type 31 Beam Guardrail.
3. For post details (#), see sheet 3.
4. For guardrail section details (#), see sheet 6.
5. For additional installation requirements, and details of typical components not shown see Standard Plans:
   - C-20.10 Beam Guardrail Type 31, and
   - C-1b Beam Guardrail Posts and Blocks
6. Vertical bolts attaching the upper and lower UBSP assemblys for posts 3 - 8 shall be torqued to 60 - 75 ft/lbs.
7. Eight (8x) 5/8' x 1 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.
8. See **Standard Plan C-1d** for **THRIE BEAM GUARDRAIL REDUCER SECTION TYPE C**.



DETAIL A
POSTS 3 - 8

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Aug 10, 2026

BEAM GUARDRAIL BULL NOSE TERMINAL TYPE 2

STANDARD PLAN C-20.55-01

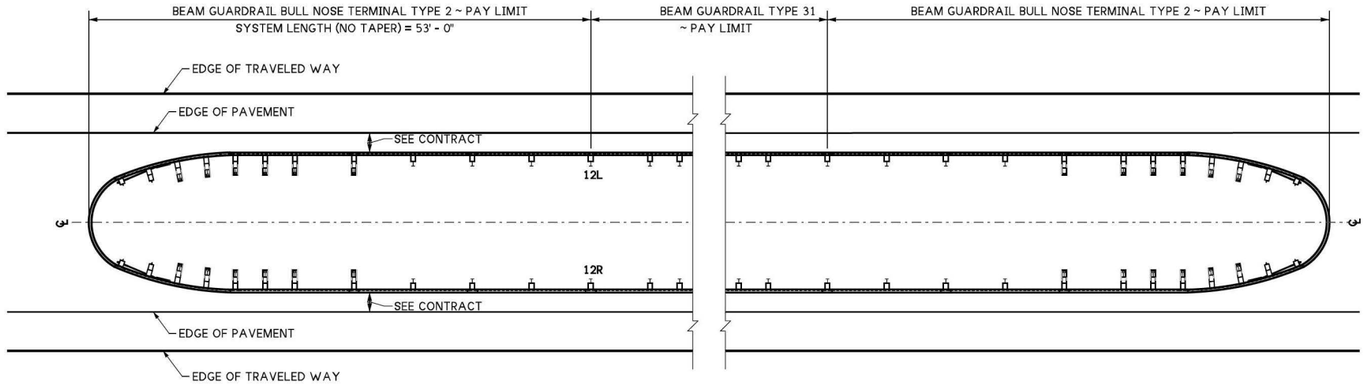
SHEET 1 OF 6 SHEETS

APPROVED FOR PUBLICATION

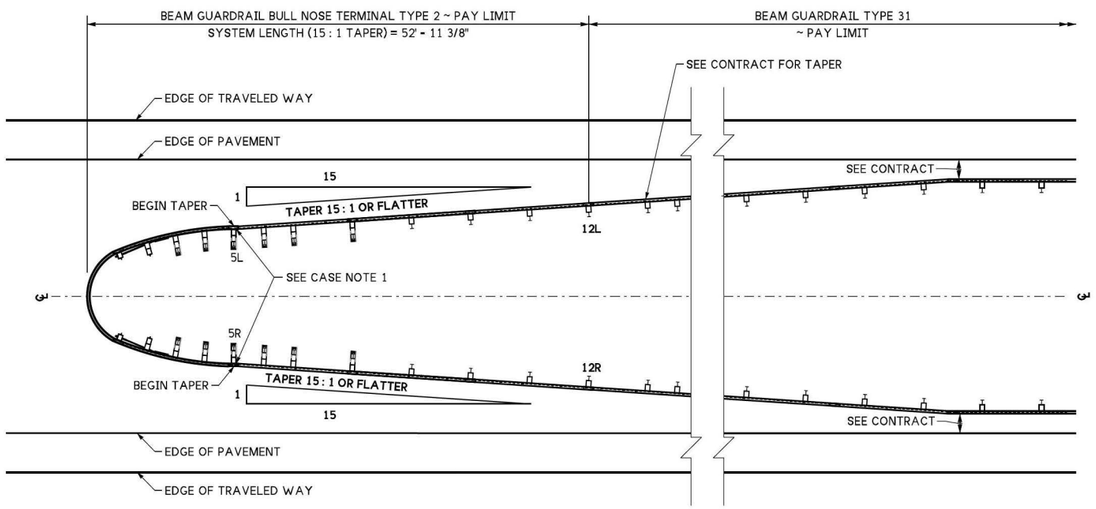
Mark A Dennis — Aug 10, 2026

STATE DESIGN ENGINEER

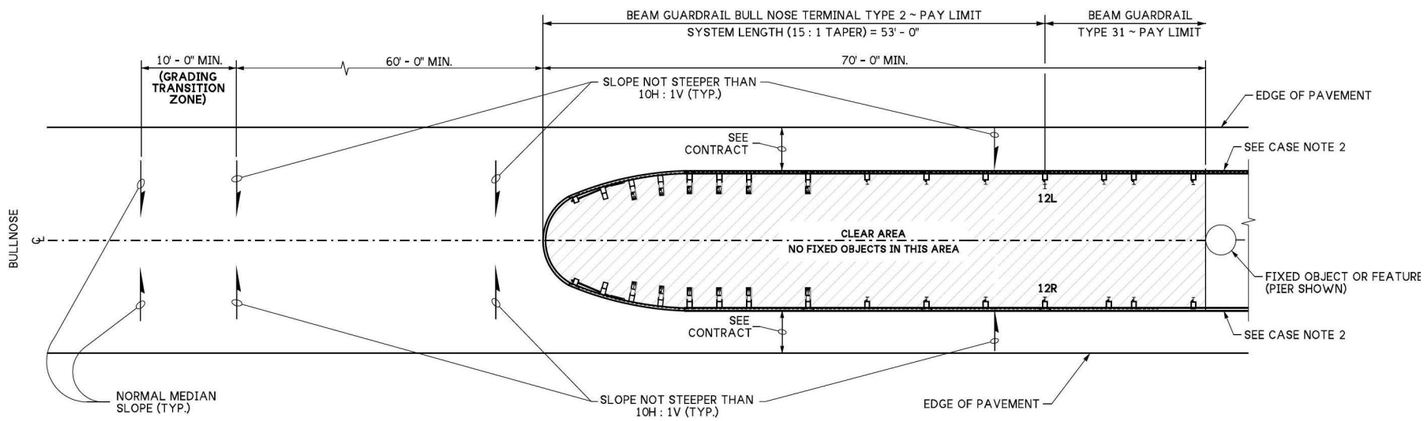
Washington State Department of Transportation



PLACEMENT CASE 1



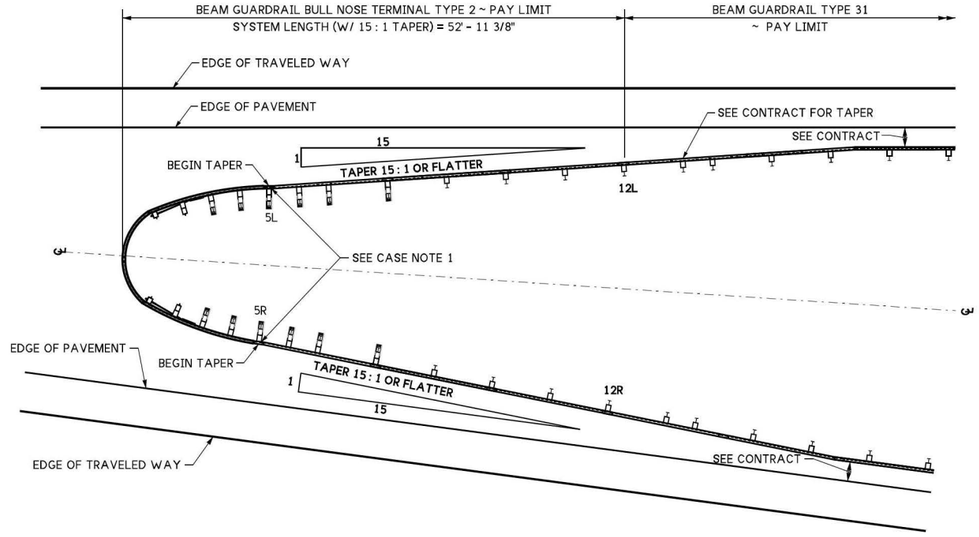
PILACEMENT CASE 2



BULL NOSE GUARDRAIL GRADING PLAN
(PLACEMENT CASE 1 SHOWN - SEE CASE NOTE 3)

CASE NOTES:

1. Begin rail taper at or after post no. 5L & 5R. Taper remaining bull nose terminal type 2 rail elements at same rate.
2. Provide for a minimum of 5 feet deflection distance from face of guardrail to fixed object.
3. Grading, dimensions and slopes apply to all cases.



PLACEMENT CASE 3

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Aug 10, 2026

BEAM GUARDRAIL
BULL NOSE TERMINAL TYPE 2

STANDARD PLAN C-20.55-01

SHEET 2 OF 6 SHEETS

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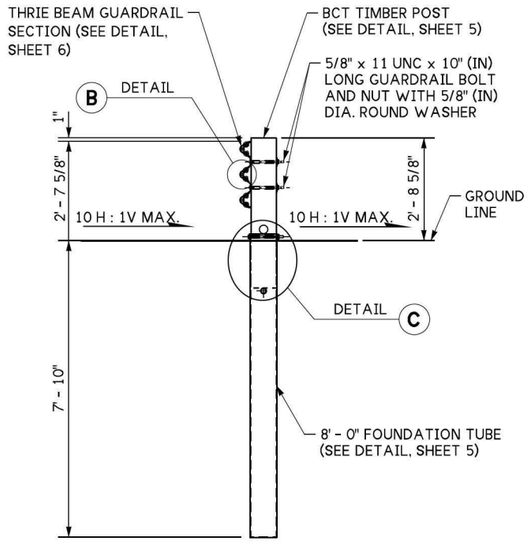
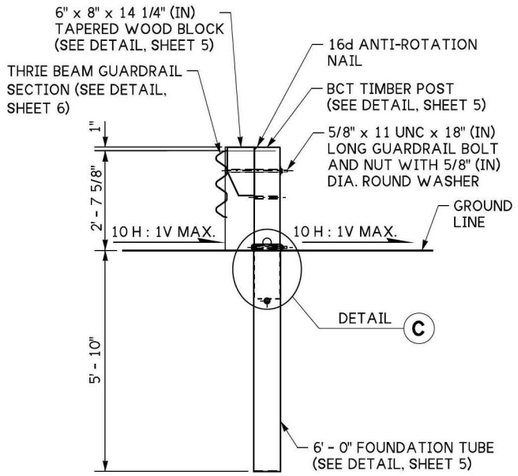
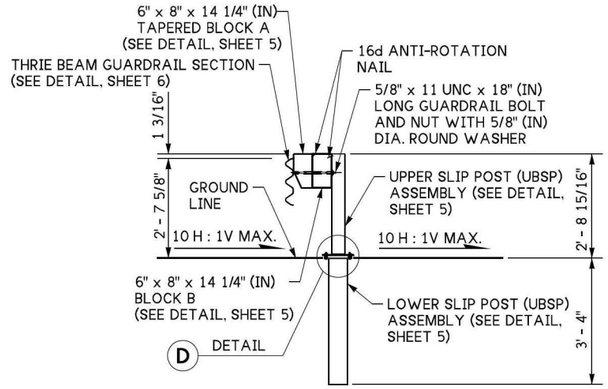


1 POST DETAIL
(POST # 1L & 1R)



2 POST DETAIL
(POST # 2L & 2R)



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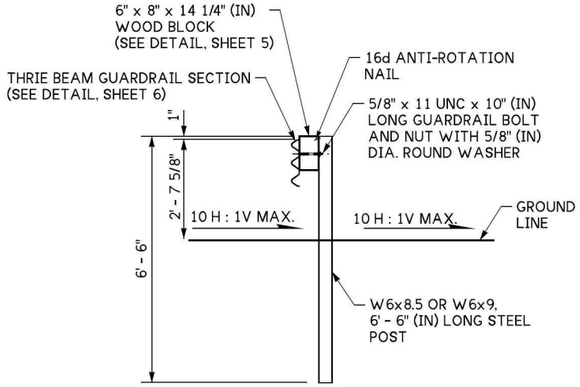
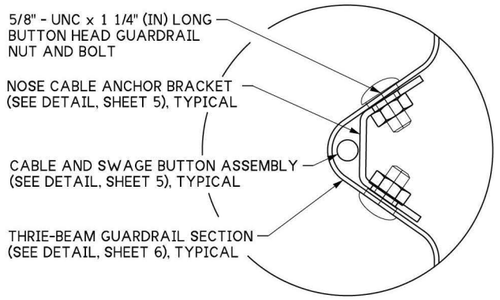
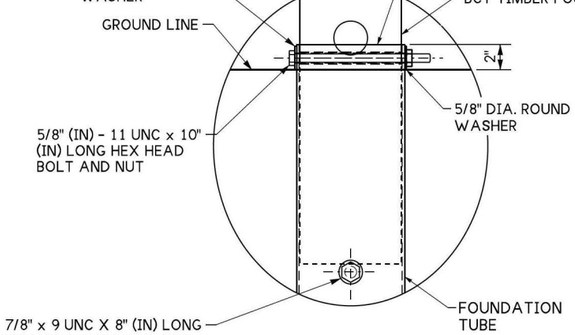
(POST # 3-8 L&R)



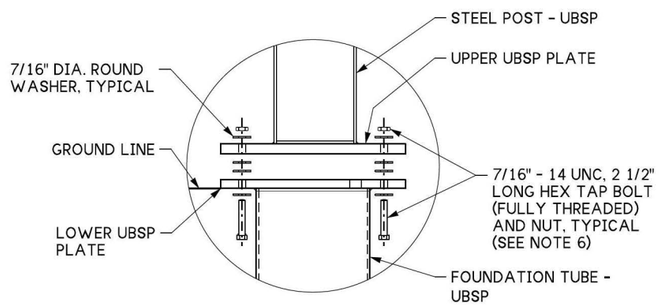
4 POST DETAIL
(POST # 9-12 L&R)



DETAIL B

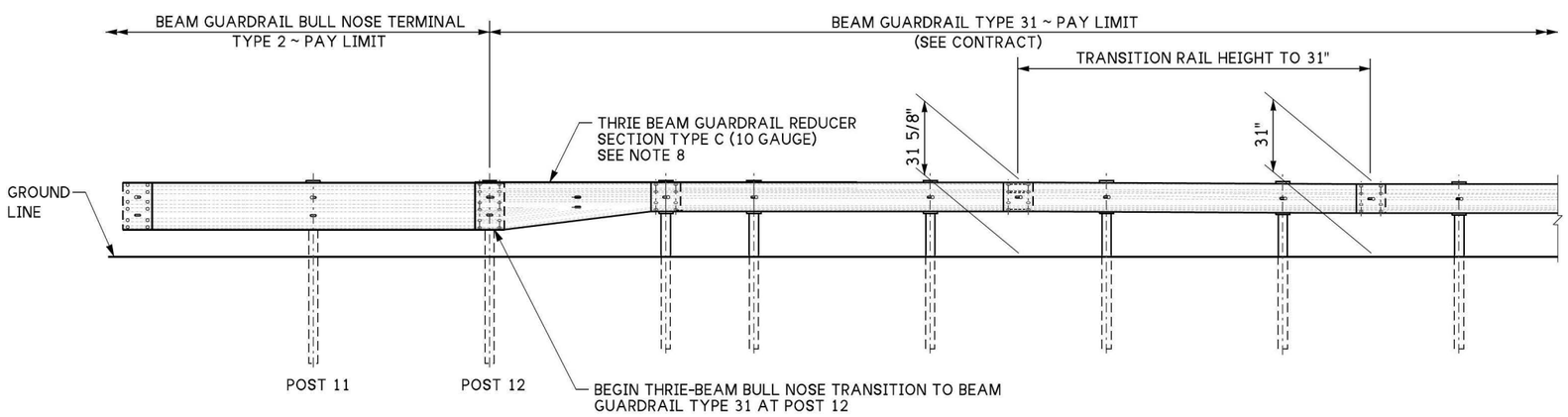


DETAIL C



EXPLODED VIEW

DETAIL D



THRIE-BEAM BULL NOSE TRANSITION TO BEAM GUARDRAIL TYPE 31

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Aug 10, 2026

BEAM GUARDRAIL BULL NOSE TERMINAL TYPE 2

STANDARD PLAN C-20.55-01

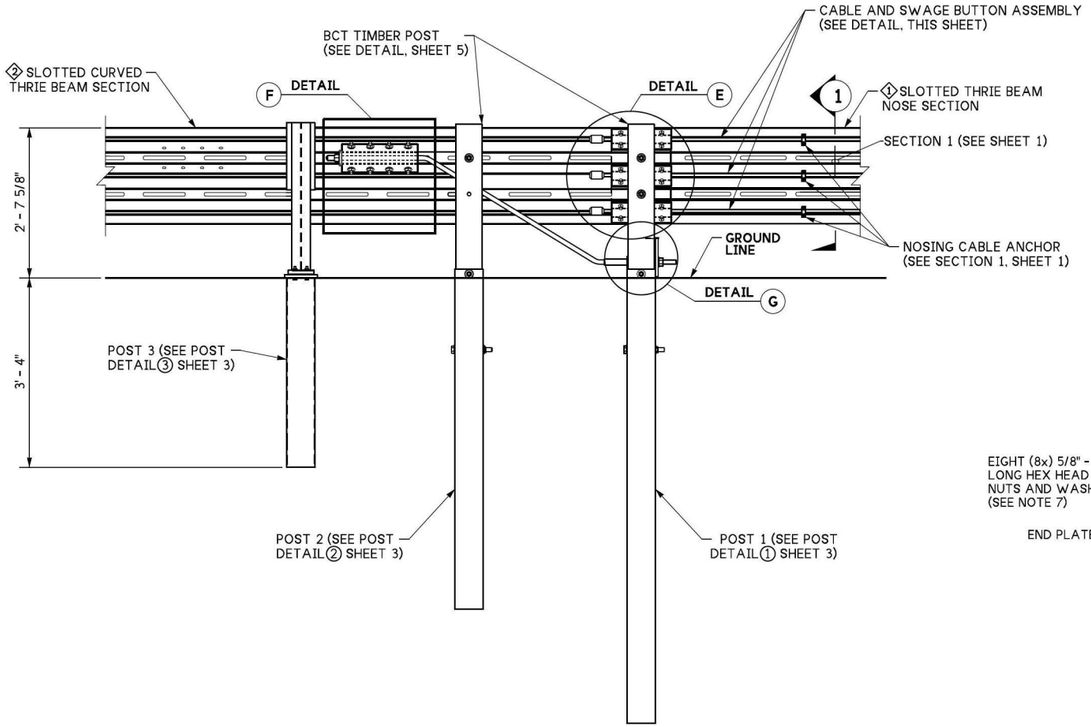
SHEET 3 OF 6 SHEETS

APPROVED FOR PUBLICATION

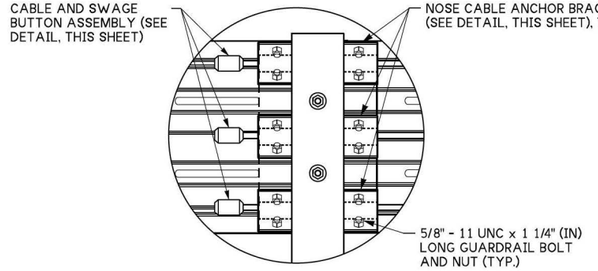
Mark A Dawes — Aug 10, 2026

STATE DESIGN ENGINEER

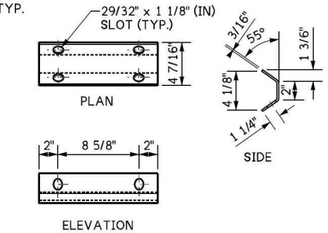
Washington State Department of Transportation



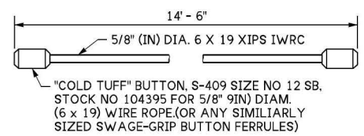
ELEVATION - (POSTS 1 - 3) DETAIL



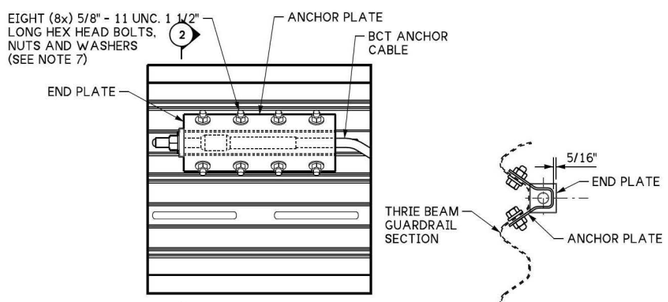
DETAIL E



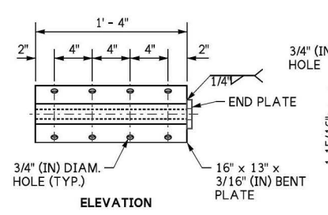
NOSE CABLE ANCHOR BRACKET
(ASTM A36)



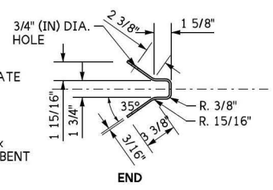
CABLE AND SWAGE BUTTON ASSEMBLY

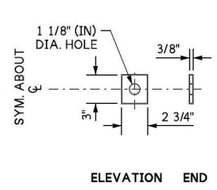


DETAIL F

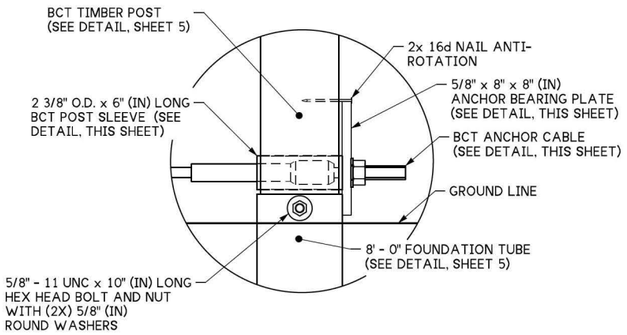


ANCHOR PLATE

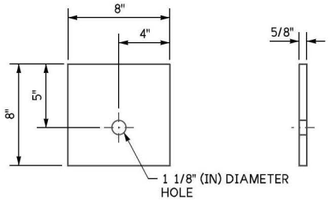




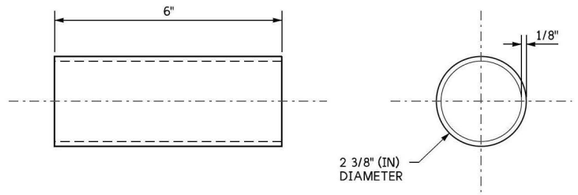
END PLATE



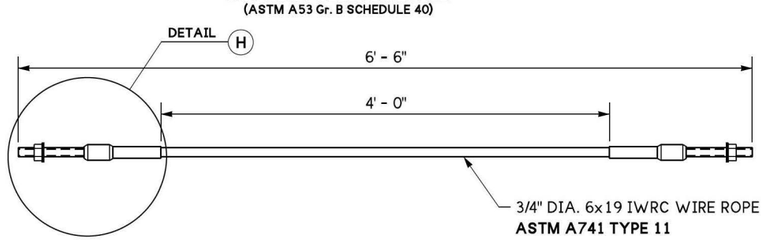
DETAIL G



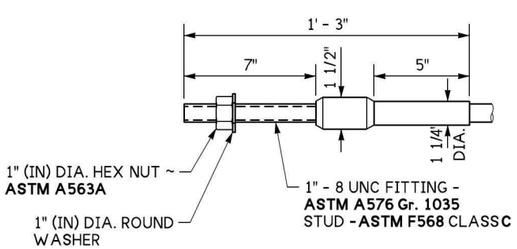
ANCHOR BEARING PLATE DETAIL
(ASTM A36)



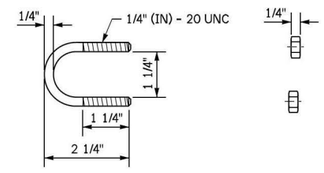
BCT POST SLEEVE DETAIL
(ASTM A53 Gr. B SCHEDULE 40)



BCT ANCHOR CABLE DETAIL



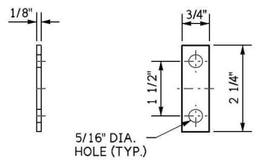
DETAIL H



U-BOLT
U-BOLT - ASTM A307 GR. A

U-BOLT NUT
(ASTM A36)

U-BOLT DETAIL



U-BOLT PLATE DETAIL
(ASTM A36)

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Aug 10, 2026

BEAM GUARDRAIL
BULL NOSE TERMINAL TYPE 2

STANDARD PLAN C-20.55-01

SHEET 4 OF 6 SHEETS

APPROVED FOR PUBLICATION

Mark A Dawes — Aug 10, 2026

STATE DESIGN ENGINEER

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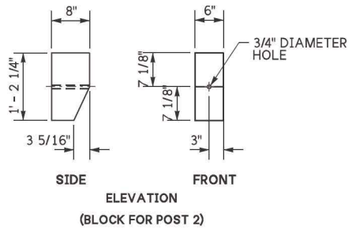
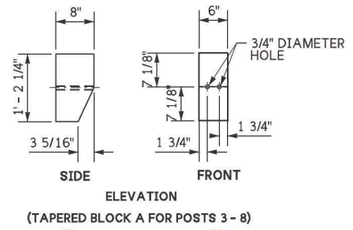


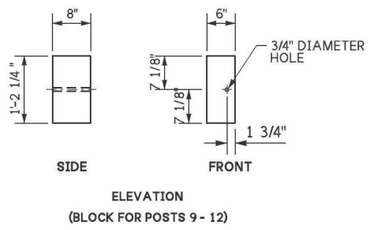
ELEVATION

(BLOCK FOR POST 2)



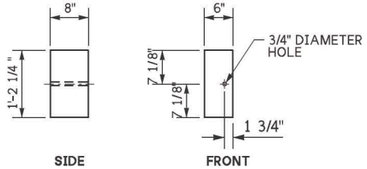
ELEVATION

(TAPERED BLOCK A FOR POSTS 3 - 8)



ELEVATION

(BLOCK FOR POSTS 9 - 12)

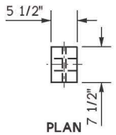


ELEVATION

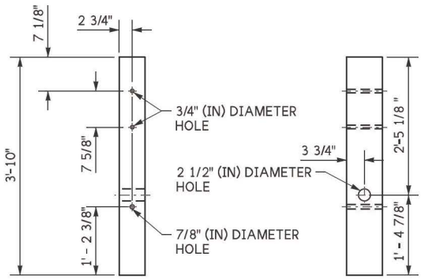
(BLOCK B FOR POSTS 3 - 8)

WOOD BLOCK DETAILS

(SEE STD. SPECIFICATION, SECTION 9-16.3(2))

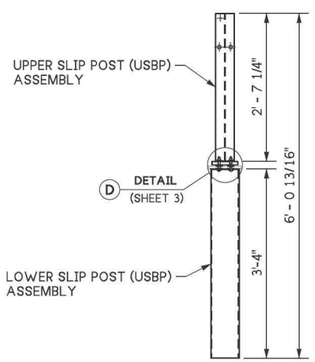


PLAN



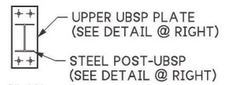
BCT TIMBER POST DETAIL - POSTS 1 - 2

(SEE STD. SPECIFICATION SECTION 9-16.3(2))

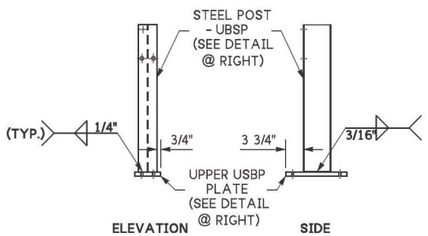


UNIVERSAL BREAKAWAY STEEL POST (UBSP) ASSEMBLY - POSTS 3 - 8

(VERTICAL BOLTS - SHALL BE TORQUED TO 60-75 FT/LBS)

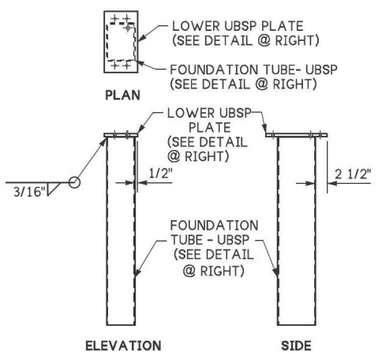


PLAN



ELEVATION SIDE

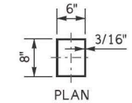
UPPER SLIP POST (UBSP)ASSEMBLY POSTS 3 - 8



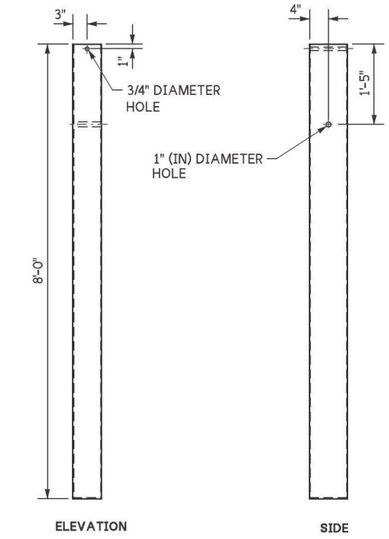
PLAN

ELEVATION SIDE

LOWER SLIP POST (UBSP) ASSEMBLY - POSTS 3 - 8



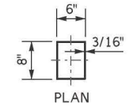
PLAN



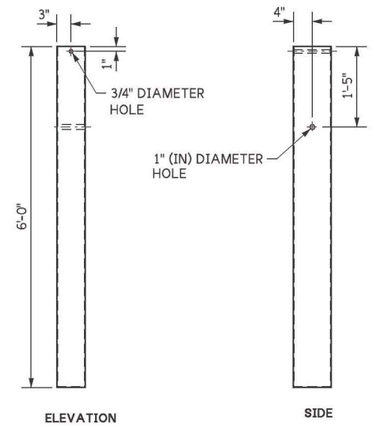
ELEVATION SIDE

8' - 0" FOUNDATION TUBE - POST 1

(TS3/16" x 6" x 96" LONG ~ ASTM A500 Gr. B)



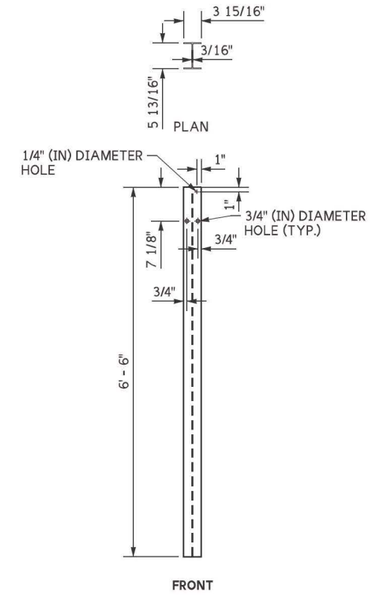
PLAN



ELEVATION SIDE

6' - 0' FOUNDATION TUBE - POST 2

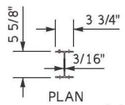
(TS3/16" x 6" x 72" LONG ~ ASTM A500 Gr. B)



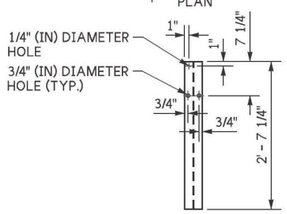
FRONT

STEEL POST DETAIL - POSTS 9 - 12

(W6x8.5 or W6x9)
(ASTM A992)



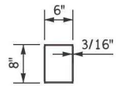
PLAN



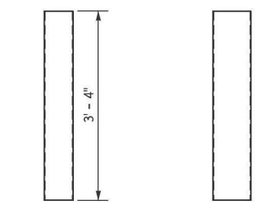
ELEVATION

STEEL POST - UBSP

(W6x8.5 OR W6x9)
(ASTM 992)



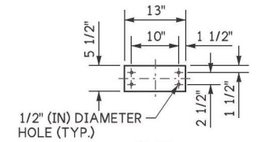
PLAN



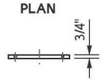
ELEVATION SIDE

FOUNDATION TUBE - UBSP

(ASTM A500 Gr. B)



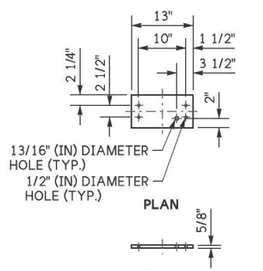
PLAN



ELEVATION

UPPER UBSP PLATE

(ASTM A36)



PLAN

ELEVATION

LOWER UBSP PLATE

(ASTM A36)

Aug 10, 2026

BEAM GUARDRAIL
BULL NOSE TERMINAL TYPE 2

STANDARD PLAN C-20.55-01

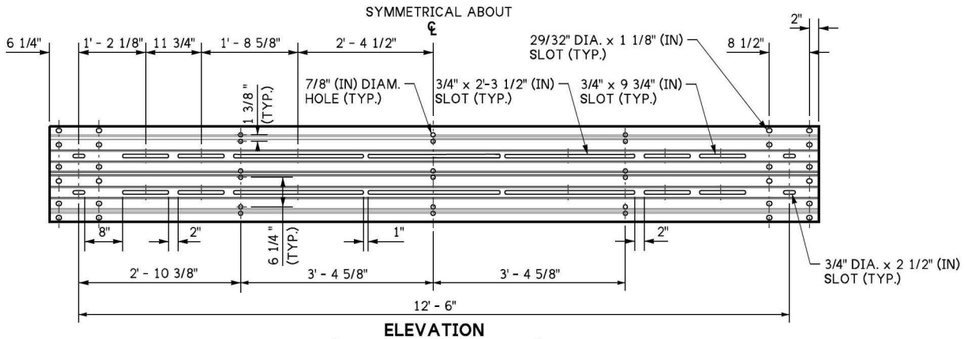
SHEET 5 OF 6 SHEETS

APPROVED FOR PUBLICATION

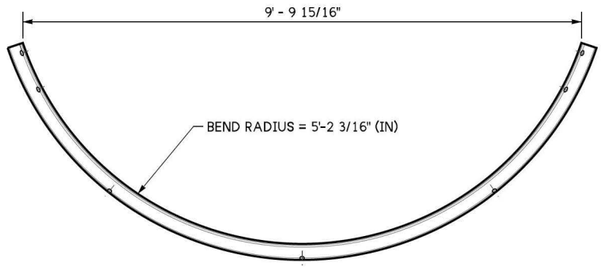
Mark A Davies Aug 10, 2026

STATE DESIGN ENGINEER

Washington State Department of Transportation

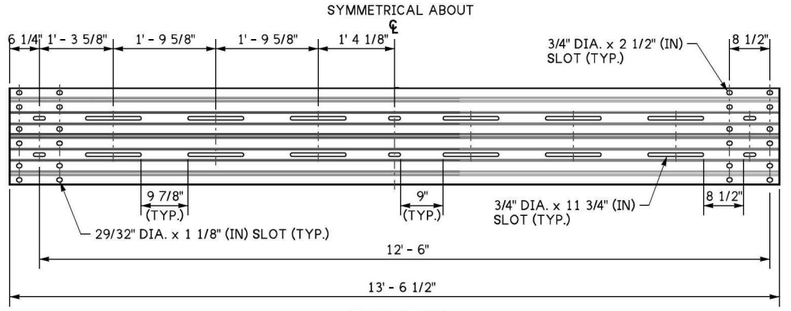


ELEVATION
(NON-BENT GUARDRAIL SECTION)



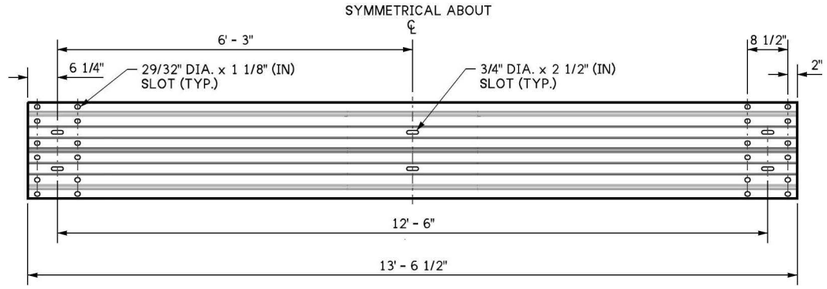
PLAN VIEW
(BENT GUARDRAIL SECTION)

1 SLOTTED THRIE BEAM NOSE SECTION (12 GAUGE)



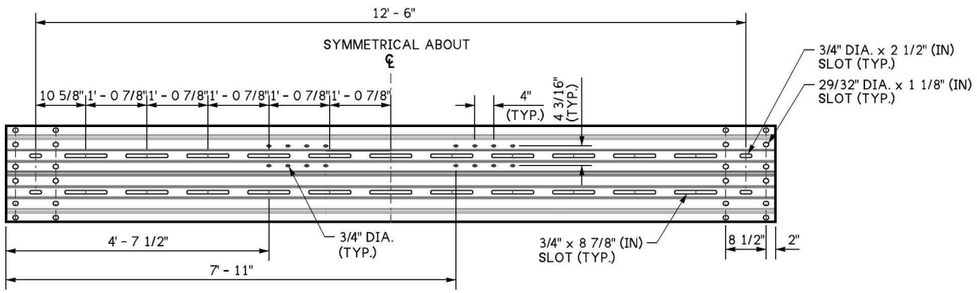
ELEVATION

3 SLOTTED STRAIGHT THRIE BEAM SECTION (12 GAUGE)

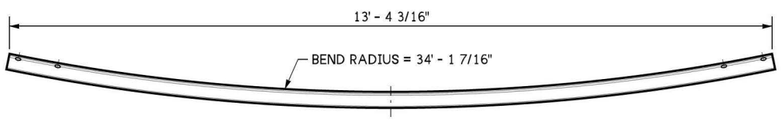


ELEVATION

4 STRAIGHT THRIE BEAM SECTION (12 GAUGE)



ELEVATION
(NON-BENT GUARDRAIL SECTION)



PLAN VIEW
(BENT GUARDRAIL SECTION)

2 SLOTTED CURVED THRIE BEAM SECTION (12 GAUGE)

Aug 10, 2026

BEAM GUARDRAIL
BULL NOSE TERMINAL TYPE 2

STANDARD PLAN C-20.55-01

SHEET 6 OF 6 SHEETS

APPROVED FOR PUBLICATION

Mark A Gaines — Aug 10, 2026

STATE DESIGN ENGINEER

Washington State Department of Transportation