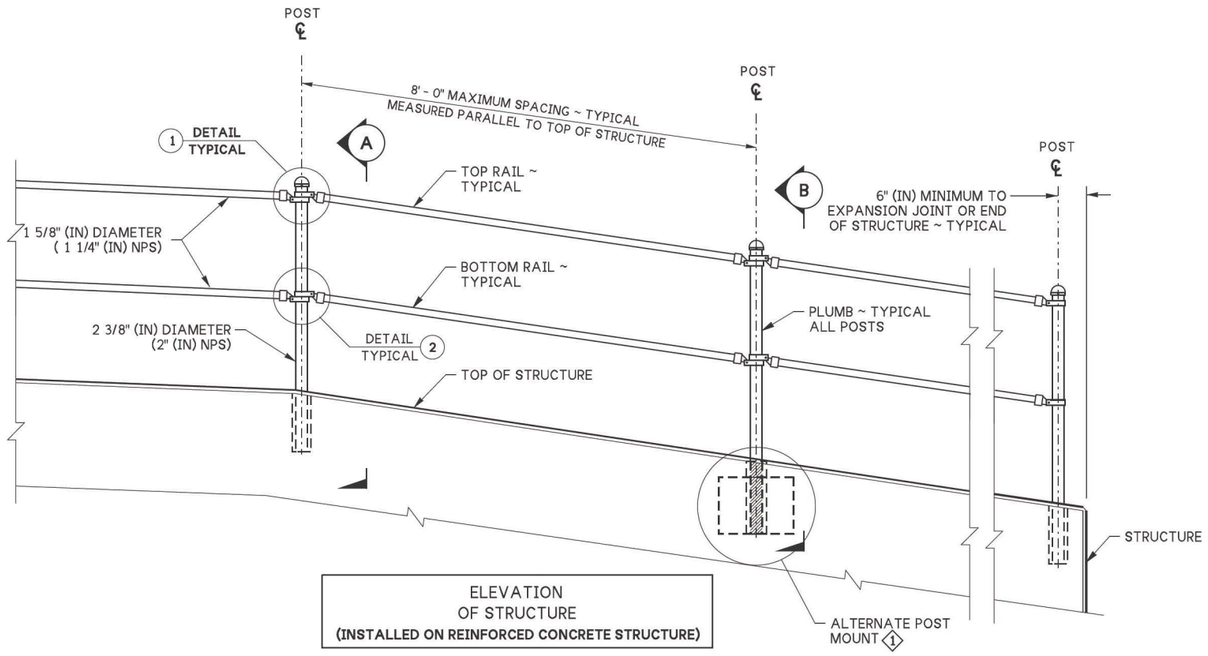
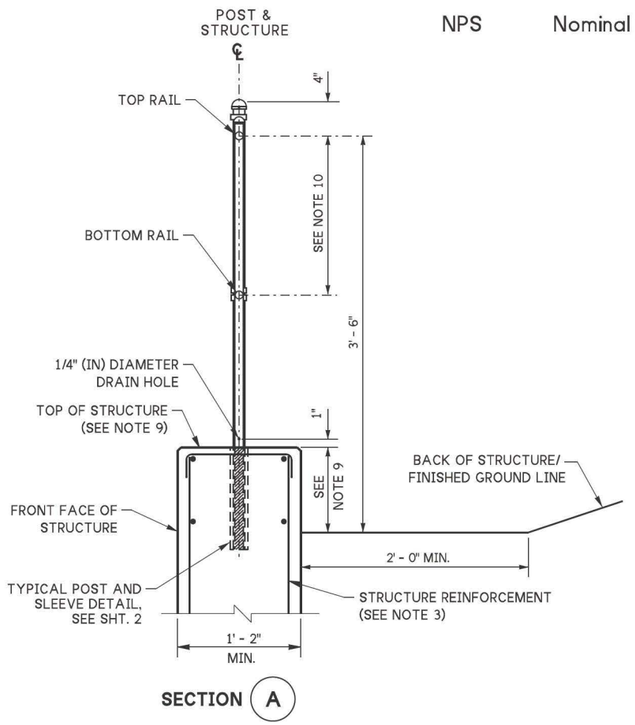


KEY NOTE

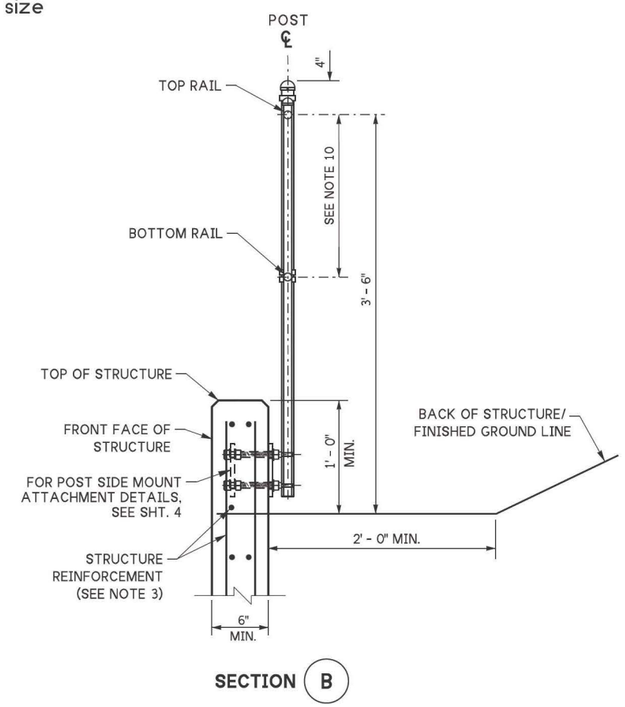
1 The same post mounting detail shall be used for each structure and shall not be interchanged within one structure.

LEGEND

NPS Nominal pipe size



SECTION A



SECTION B

NOTES

1. This chain link pipe rail fence meets the requirements for worker fall protection in accordance with **WAC 296-880** and shall not be used for pedestrian applications. Chain link fabric shall not be attached to this chain link pipe rail fence.

2. This structure has been designed in accordance with the requirements of **AASHTO LRFD Bridge Design Specifications 9th Edition 2020**, and loading in accordance with **WAC 296-880**.

3. Supporting structure shall account for the attachments shown here and be designed for fall protection loading in accordance with **WAC 296-880** or as specified in the contract.

4. Unless otherwise shown in the plans, concrete cover measured from the face of the concrete to the face of any reinforcing steel shall be 2" (in) min. clearance.

5. Post and Rail elements shall conform to **Standard Specifications Section 9-16.1(1)A**, and shall be schedule 40 (minimum yield strength of 50 KSI). Fittings and hardware shall conform to **Standard Specifications Section 9-16.1(1)D**. Fittings shall be pressed steel. Carriage bolts and associated nuts and washers shall conform to **Standard Specification Section 9-06.5(1)**. Anchor bolts and associated nuts and washers shall conform to **Section 9-06.5(4)**. All plates shall conform to **ASTM A36**.

6. All steel parts shall be hot dip galvanized in accordance with **AASHTO M111**, **M232** or **ASTM F2329** after fabrication, unless noted otherwise.

7. All tubes, pipes, and hardware shall be shop painted or powder coated after galvanizing in accordance with **Standard Specification Section 6-07.3(11)**. The color of the finish coat, when dry, shall match the color SAE AMS Standard color No. 20045 or as specified in the contract. After installation, any surfaces with paint or powder coating damage shall be repaired in accordance with **Standard Specification Section 6-07.3(10)P** or **Section 6-07.3(11)B6**, respectively.

8. The chain link pipe rail fence shall be placed outside the roadway design clear zone, or shielded by a traffic barrier. The chain Link pipe rail fence shall be placed outside the deflection distance of all traffic barrier types except for the long span guardrail system, (See **Standard Plan C-20.40** for placement conditions.). For traffic barrier having no deflection distance, the fence shall be placed a minimum horizontal distance of 3' - 6' as measured from the top front face of the barrier.

9. The top of wall in Section A on Sheet 1 shall be located as follows:
   1) Flush with the finished grade when placed within the deflection distance of the long span guardrail system (**Standard Plan C-20.40**),
   2) Two inches maximum above finished grade when placed behind a box culvert guardrail steel post system (**Standard Plan C-20.41** or **C-20.43**),
   3) Six inches minimum above finished grade for all other applications.

10. The bottom rail shall be located at mid height between the top rail and the top of structure.

MICHAEL A. ROSA
STATE OF WASHINGTON
43707
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

Aug 4, 2026

BRIDGE RAILING TYPE
CHAIN LINK PIPE RAIL

STANDARD PLAN L-5.10-03

APPROVED FOR PUBLICATION

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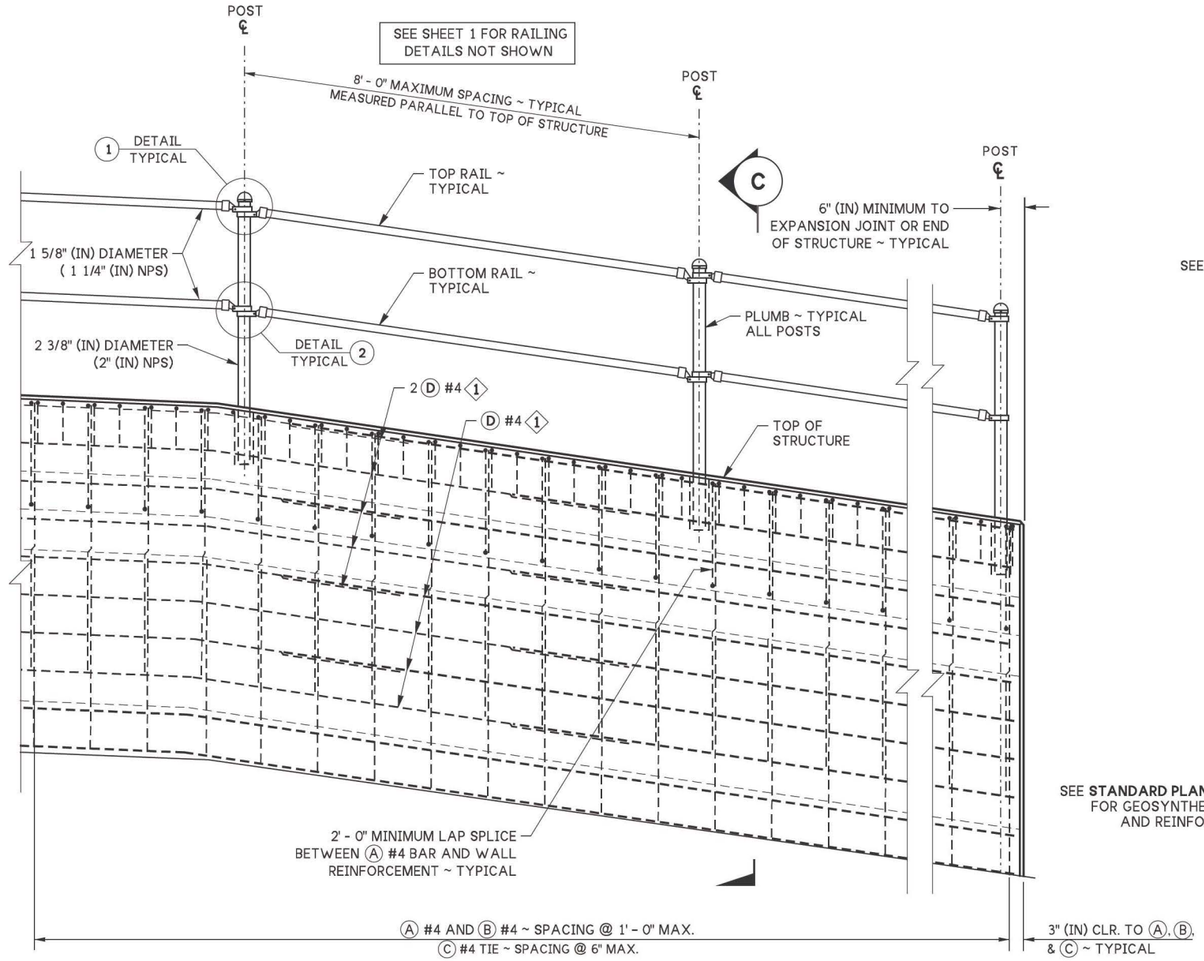
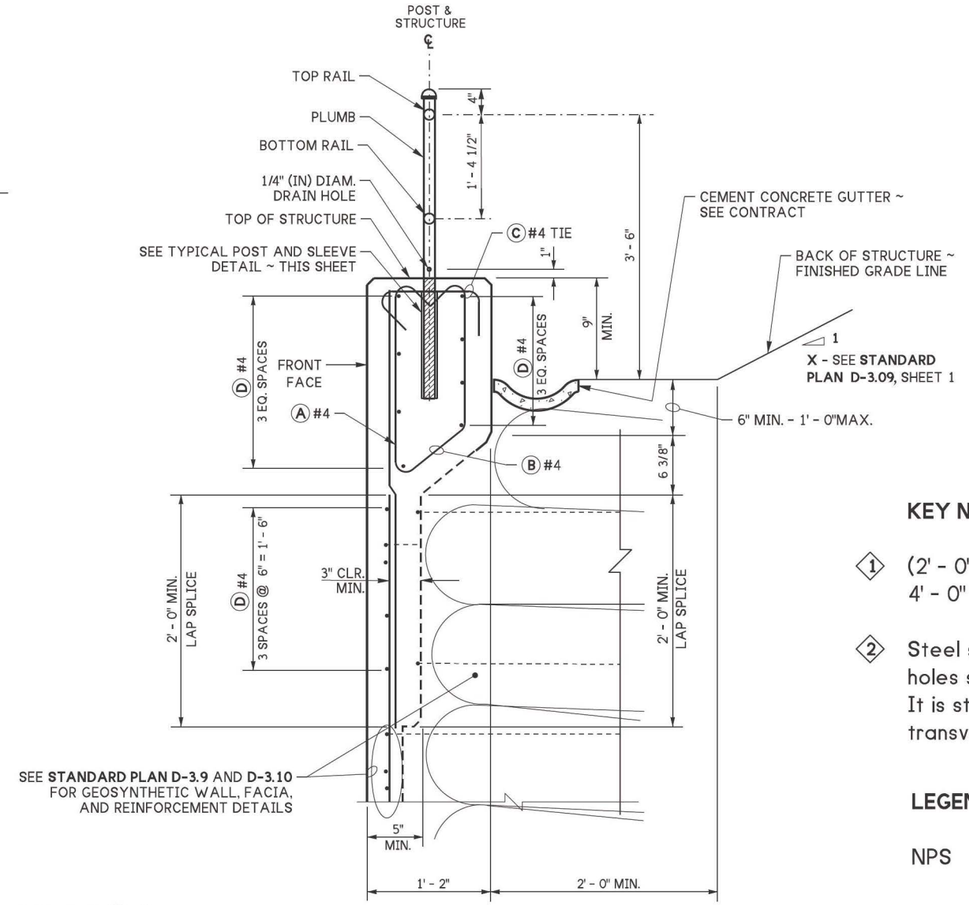
STATE DESIGN ENGINEER

Washington State Department of Transportation



TYPICAL ELEVATION
(INSTALLED ON CAST-IN-PLACE PERMANENT GEOSYNTHETIC WALL FACIA AND FACING. SEE **STANDARD PLAN D-3.10** FOR FACIA DETAILS AND REINFORCEMENT)



SECTION Ⓒ

KEY NOTES

◇1 (2' - 0" min. splice when required) Stagger splice 4' - 0" horizontal between adjacent rebar.

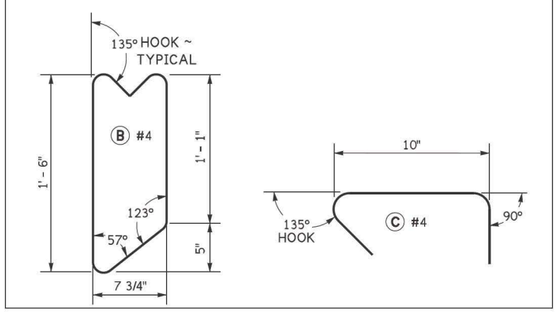
◇2 Steel sleeve may be omitted if hole is cored. Cored holes shall be 3" (in) diameter and walls roughened. It is structurally acceptable to core through top transverse ties.

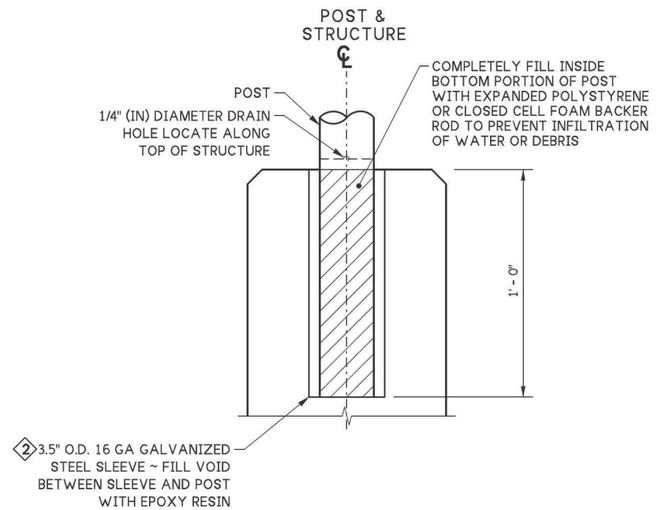
LEGEND

NPS Nominal pipe size

REINFORCING STEEL BENDING DIAGRAM

SEE **STANDARD SPECIFICATION 9-07.12(2)** FOR BENDING DIAGRAM





TYPICAL POST AND SLEEVE DETAIL
(STRUCTURE REINFORCEMENT NOT SHOWN)

MICHAEL A. ROSA
STATE OF WASHINGTON
43707
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

Aug 4, 2026

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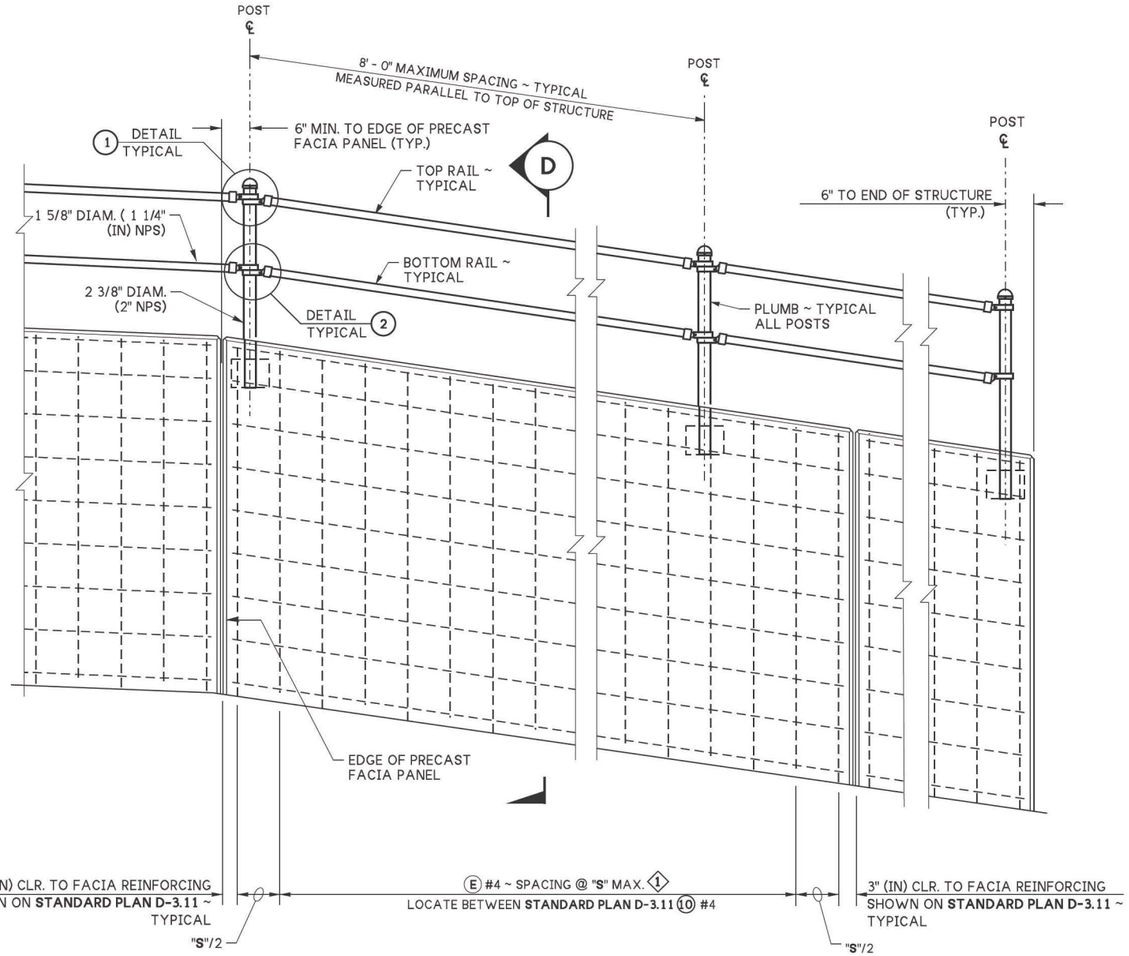
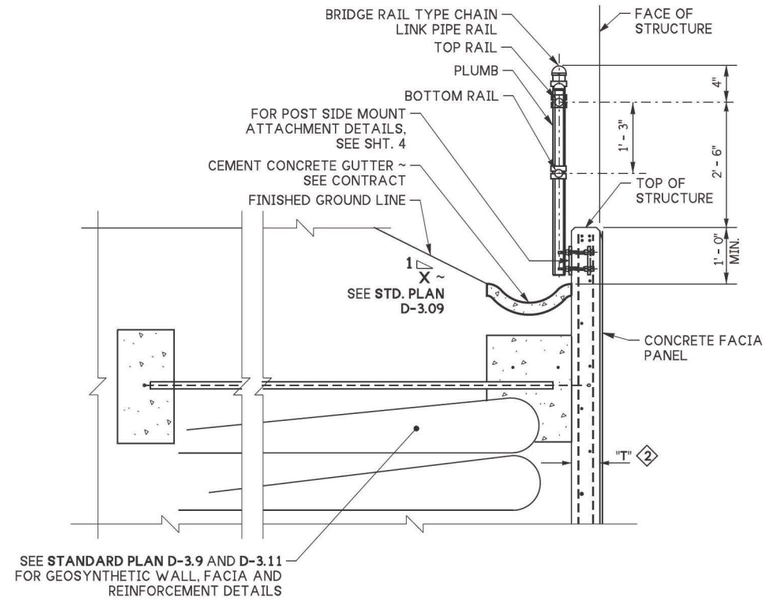


TYPICAL ELEVATION

INSTALLED ON PRECAST PERMANENT GEOSYNTHETIC WALL FACIA
SEE **STANDARD PLAN D-3.11** FOR FACIA DETAILS AND REINFORCEMENT



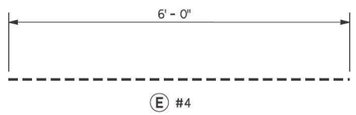
SECTION (D)

KEY NOTES

1. SEE **STANDARD PLAN D-3.11** FOR SPACING "S"
2. SEE **STANDARD PLAN D-3.11** FOR PANNEL THICKNESS "T"

REINFORCING STEEL BENDING DIAGRAM

SEE **STANDARD SPECIFICATION 9-07.12(2)** FOR BENDING DIAGRAM



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BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL

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Mark A Bains Aug 5, 2026

STATE DESIGN ENGINEER

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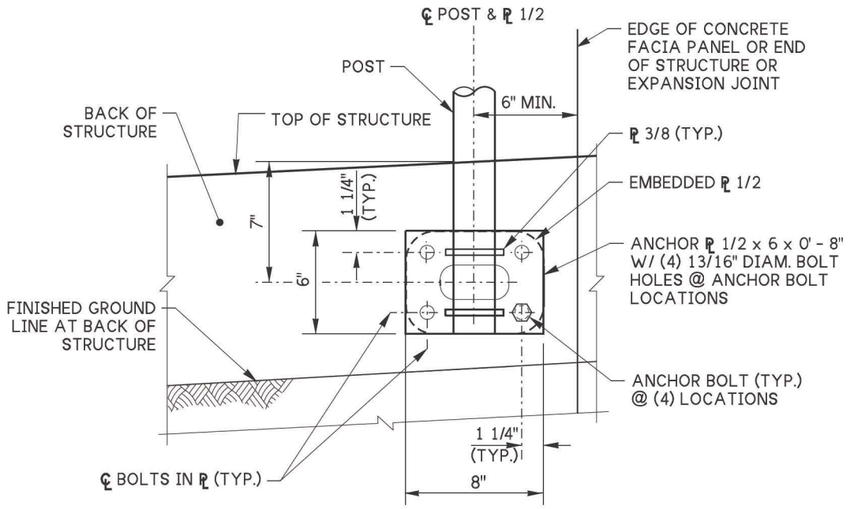
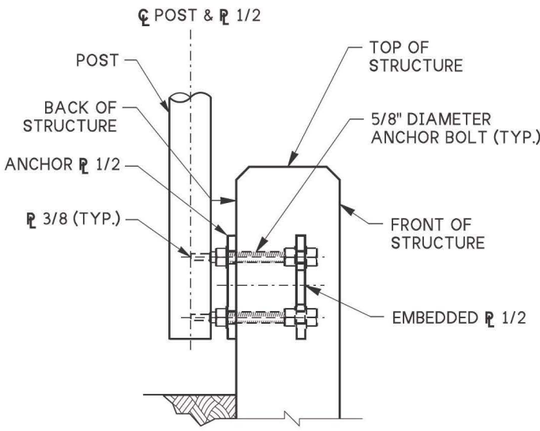
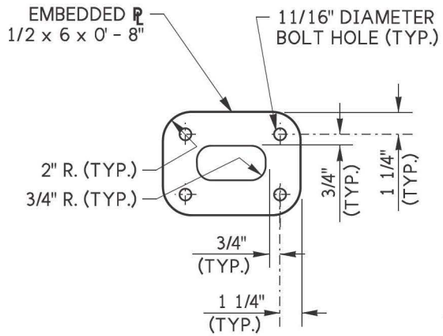


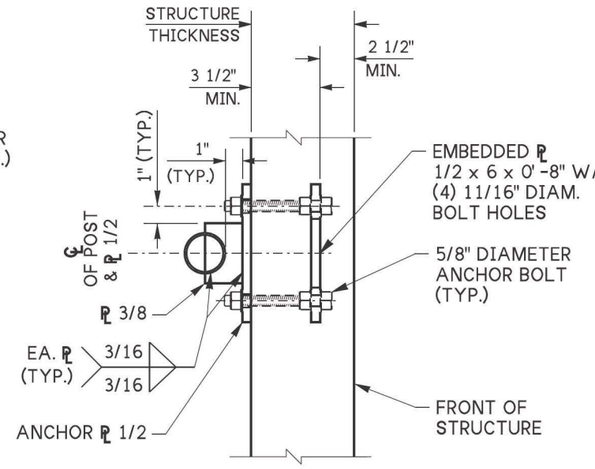
ELEVATION VIEW



SIDE VIEW



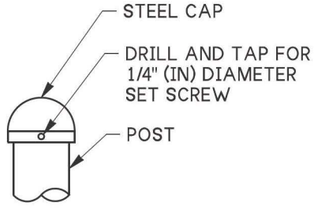
EMBEDDED PLATE DETAILS



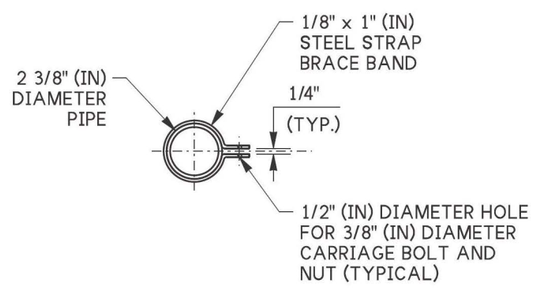
PLAN VIEW

POST SIDE MOUNT ATTACHMENT DETAILS

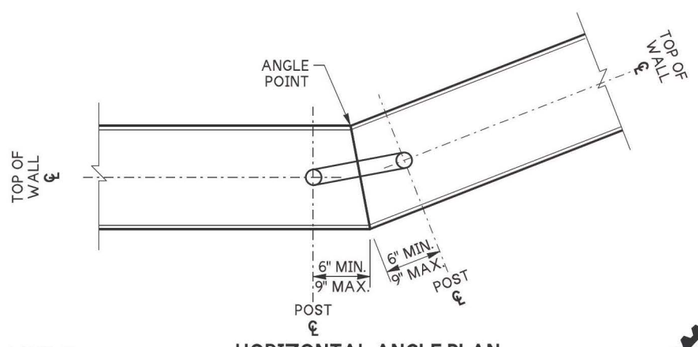
(STRUCTURE REINFORCEMENT NOT SHOWN)



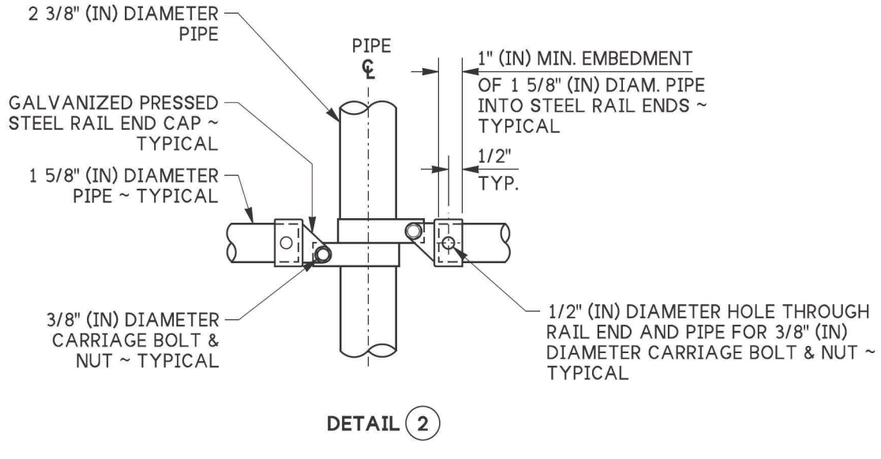
DETAIL (1)



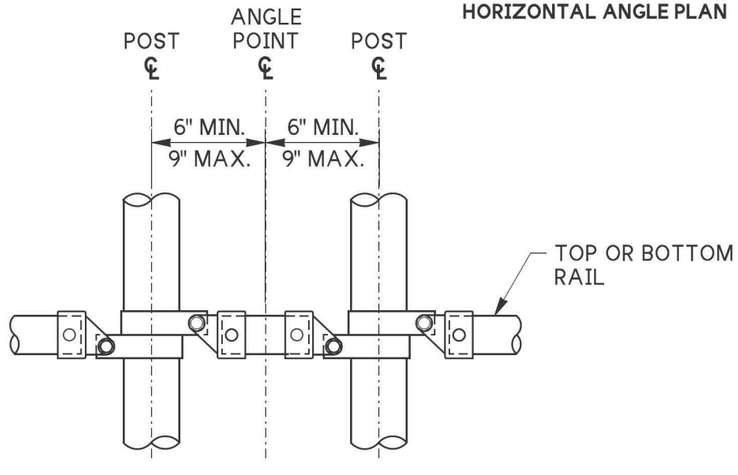
BRACE BAND DETAIL



HORIZONTAL ANGLE PLAN



DETAIL (2)



HORIZONTAL ANGLE ELEVATION

(FOR INFORMATION NOT SHOWN SEE DETAIL 2)

MICHAEL A. ROSA
STATE OF WASHINGTON
43707
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

Aug 4, 2026

BRIDGE RAILING TYPE
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SHEET 4 OF 5 SHEETS

APPROVED FOR PUBLICATION

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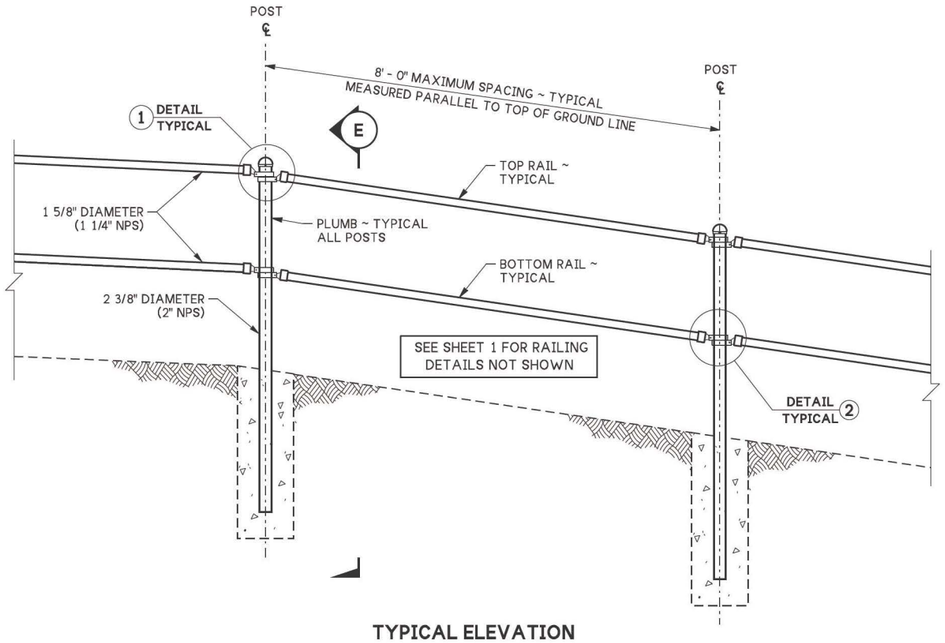
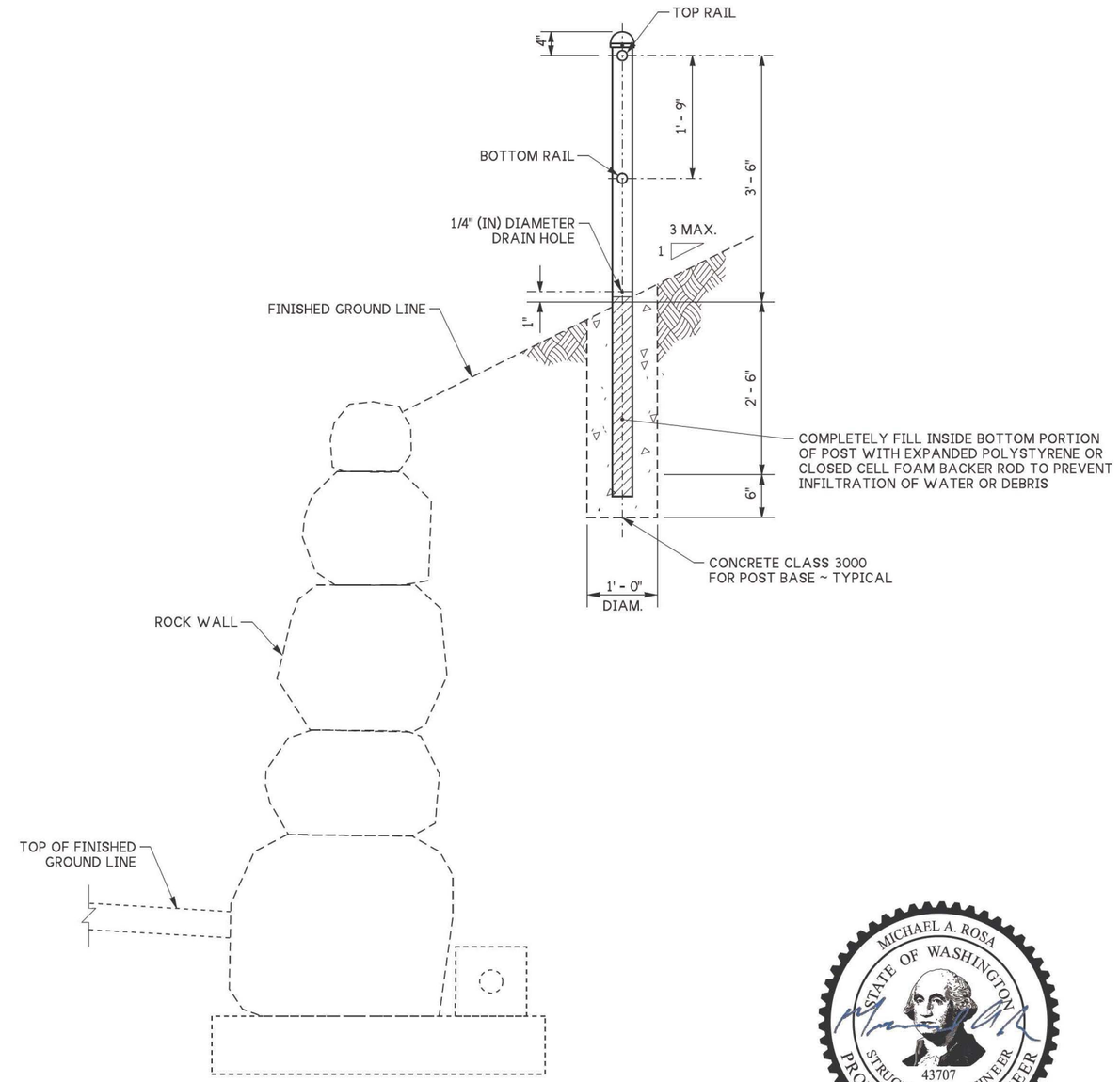
NOTE: These details are applicable to rock walls only.



TYPICAL ELEVATION
(INSTALLED IN GROUND BEHIND ROCK WALL)



SECTION E

Aug 4, 2026

BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL

STANDARD PLAN L-5.10-03

SHEET 5 OF 5 SHEETS

APPROVED FOR PUBLICATION

Mark A Dawes Aug 5, 2026

STATE DESIGN ENGINEER

Washington State Department of Transportation