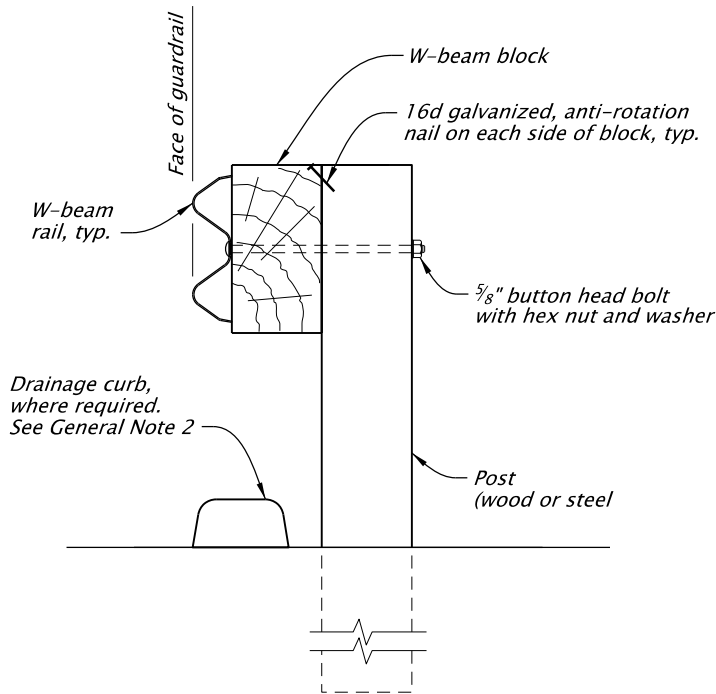
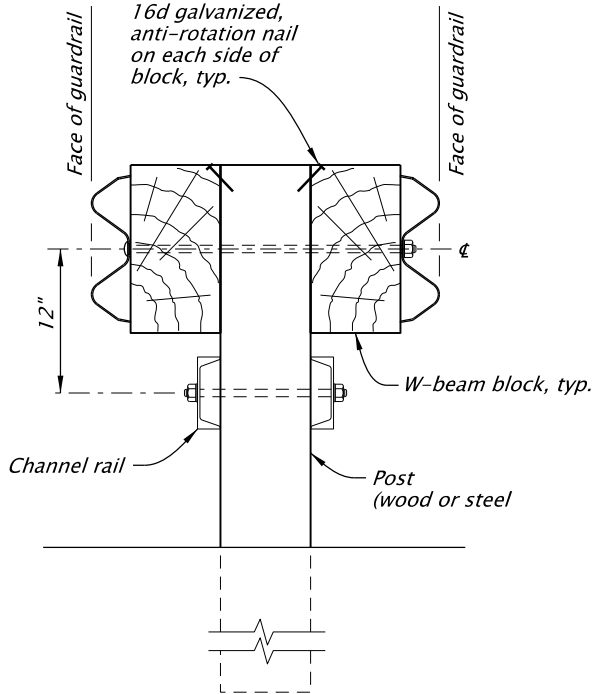
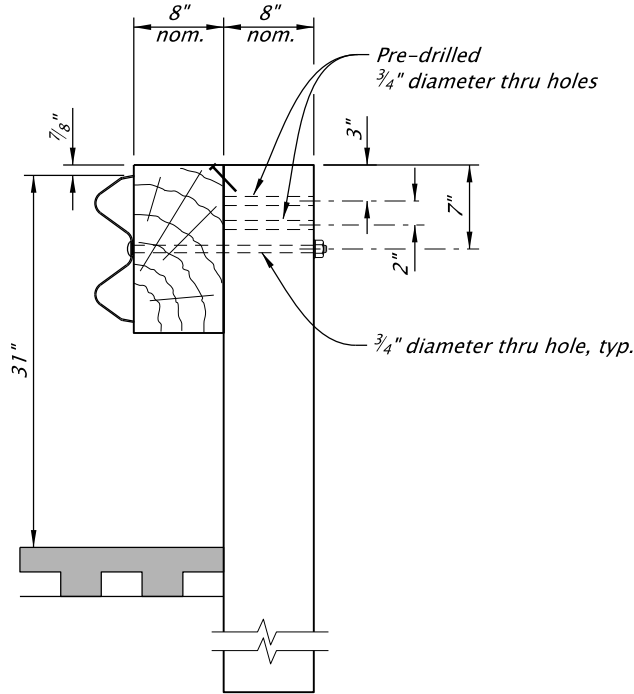




TYPES 2A AND 3
For Type 3 use double thickness (2) rail elements



**METAL MEDIAN BARRIER
DOUBLE SIDED WITH CHANNEL RAIL**
See General Note 3



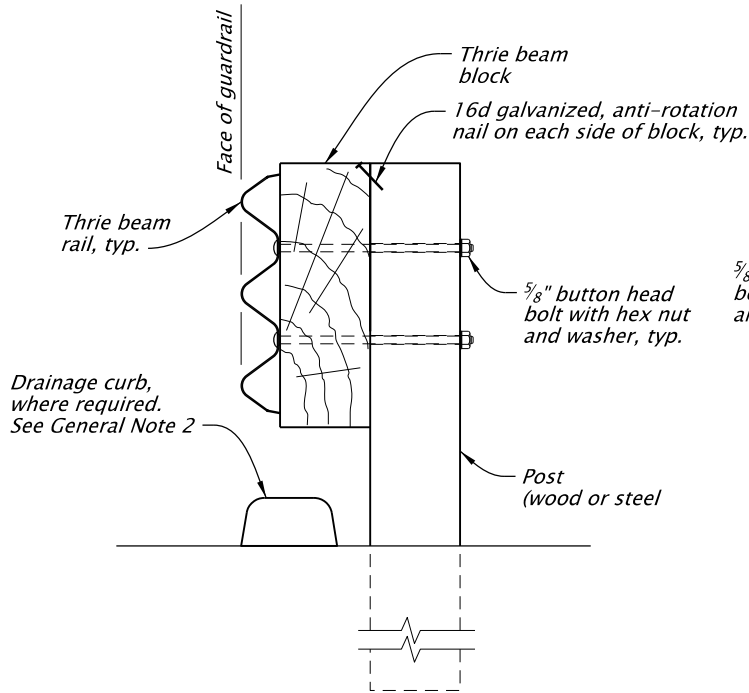
TYPICAL INSTALLATION

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. See appropriate guardrail standard drawing(s) for details not shown.
2. When required by the plans, drainage curb alignment same as face of guardrail.
3. Orient post bolts with the button head located on the side nearest the traffic lane. The bolt's threaded portion is not permitted to extend beyond limits of 1/4 inch to 1/2 inch from the face of the tightened nut; trim the treated portion as needed.
4. Lap guardrail in direction of adjacent traffic.
5. Final paved surfacing to extend to face of post. Rail height measured from final paved surface at face of rail, typical all types. 1-inch ± tolerance.
6. Wood block shall be toenailed to the post with two 16d galvanized nails in top of block to prevent block rotation.
7. Wood blocks shown. Blocks of an approved alternate material may be used, see ODOT's QPL.
8. Existing posts shall not be raised. Replace posts as necessary to achieve required guardrail height.

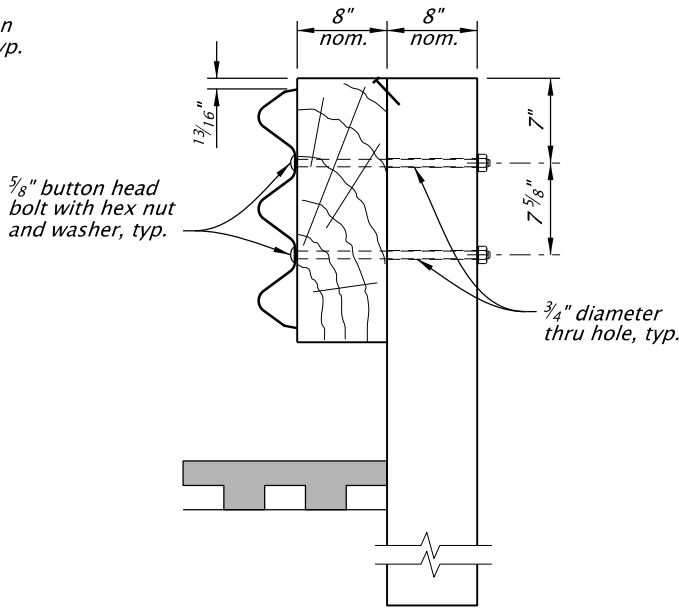
W-BEAM GUARDRAIL

W-BEAM GUARDRAIL ASSEMBLY



TYPE 4 AND TRANSITION

THRIE BEAM GUARDRAIL



INITIAL INSTALLATION

NORMAL RAIL ELEMENT DATA			
TYPE	RAIL	EFFECTIVE LENGTHS	GAUGE
2A	W-beam	6.25', 12.5', 25'	10 and 12
3	W-beam	6.25', 12.5', 25'	10 and 12
4	Thrie beam	6.25', 12.5', 25'	10 and 12
TRANSITION	Thrie beam	6.25'	10 and 12

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
MIDWEST GUARDRAIL SYSTEM TYPES			
2024			
DATE	REVISION	DESCRIPTION	
07-2021	REVISED DETAILS AND NOTES		
07-2025	REVISED DETAILS AND NOTES, UPDATED CAD STANDARDS		
CALC. BOOK NO.	N/A	SDR DATE	11-JUL-2025
			RD402