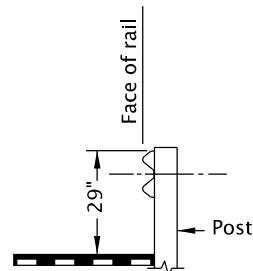


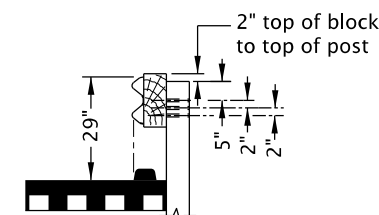
- NOTES:**
- When required by the plans, post bolts to extend beyond the tightened nuts within limits of $\frac{1}{4}$ " to $\frac{1}{2}$ ".
 - When steel posts are used see "APPURTENANCES" for modified bolt detail, Std. Dwg. RD415.
 - All post bolt threads to be set after assembly for wrench removal only.

FITTINGS

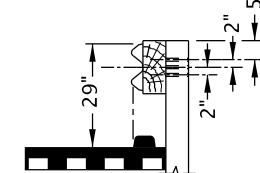
- NOTES:**
- Rail height measured from final paved surface at face of rail to top of rail (Typ. all types).
 - Final paved surfacing to extend to face of post.
 - Drainage curb alignment same as face of guardrail.



**TYPE 1
GUARDRAIL**
(Use restricted to
non-roadway applications)



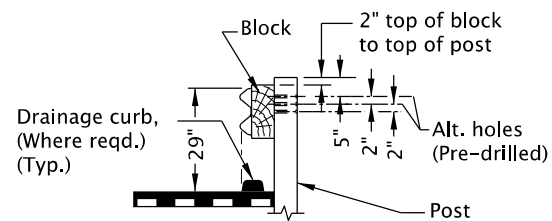
FUTURE ADJUSTMENT



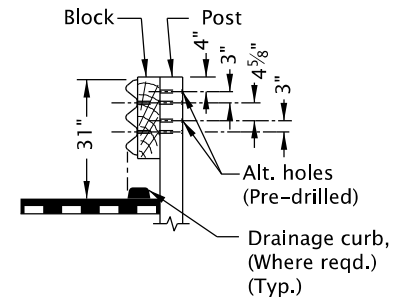
**ALTERNATE
INITIAL INSTALLATION
OR FUTURE ADJUSTMENT**

TYPES 2A & 3 GUARDRAIL

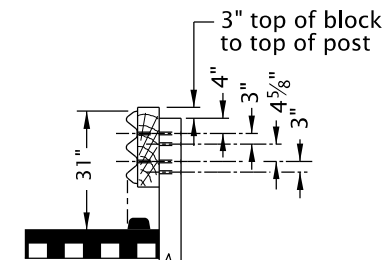
(See general note 2)
(For Type 3 use double thickness (2) rail elements)



INITIAL INSTALLATION

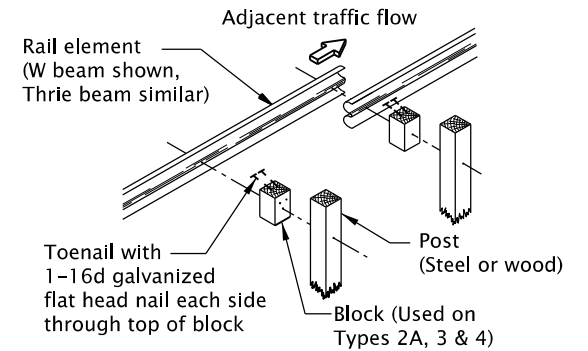


INITIAL INSTALLATION



RAIL AFTER OVERLAY
(Adjust as shown)

TYPE 4 GUARDRAIL



ASSEMBLY DETAILS (RELATION OF PARTS)

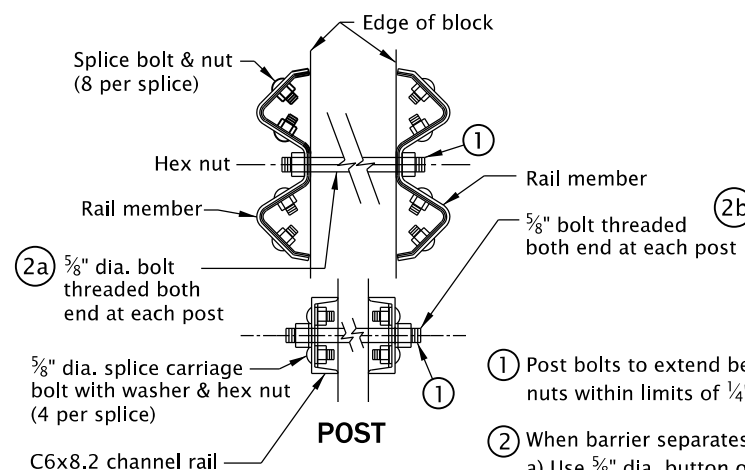
TABLE OF POST SPACING

TYPE	1	2A	3	4
SPACING	12'-6"	6'-3"	3'-1 1/2"	6'-3"

NORMAL RAIL ELEMENT DATA

Type	Rail	Effective Lengths	Thkn. *
1, 2A, 3	W beam	6.25', 12.5', 25'	0.105" & 0.135"
4	Thrie beam	6.25', 12.5', 25'	0.105" & 0.135"

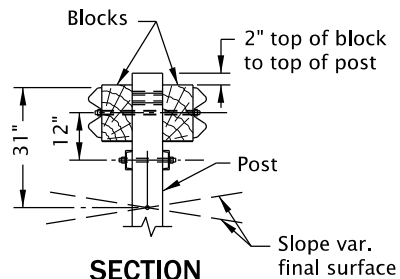
* Base metal thkn. nom. (Before galv.)



NOTE:
Median barrier post spacing 6'-3".
See end construction for variations.

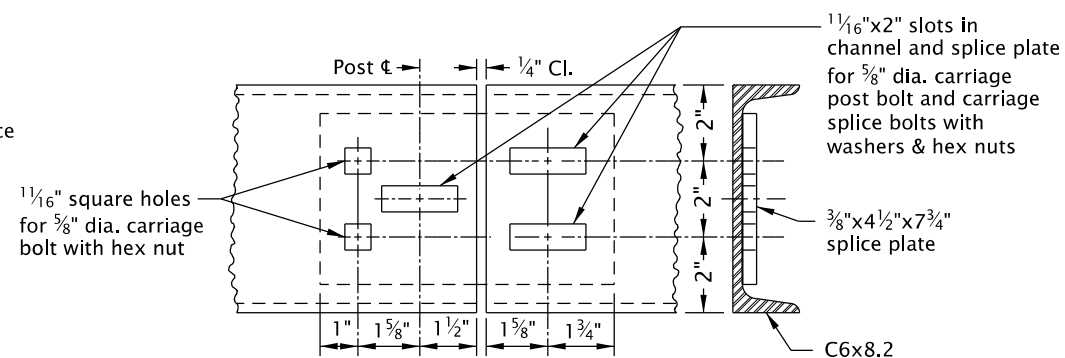
- Post bolts to extend beyond the tightened nuts within limits of $\frac{1}{4}$ " to $\frac{1}{2}$ ".
- When barrier separates to double post mounting:
 - Use $\frac{5}{8}$ " dia. button or alternate bolt with washer and hex nut.
 - Use $\frac{5}{8}$ " dia. carriage bolt with washer and nut.

METAL MEDIAN BARRIER

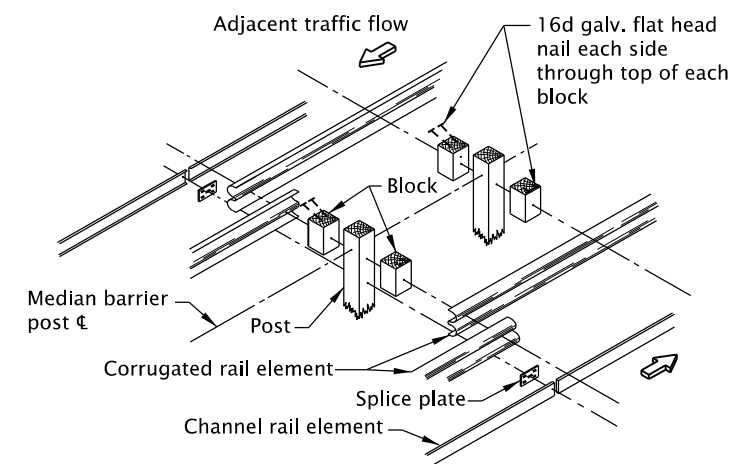


SECTION
(See "Guardrail" details
and general note 2)

NOTE:
Clearance to be $1\frac{1}{16}$ " at rail splice for bridge expansion joints.

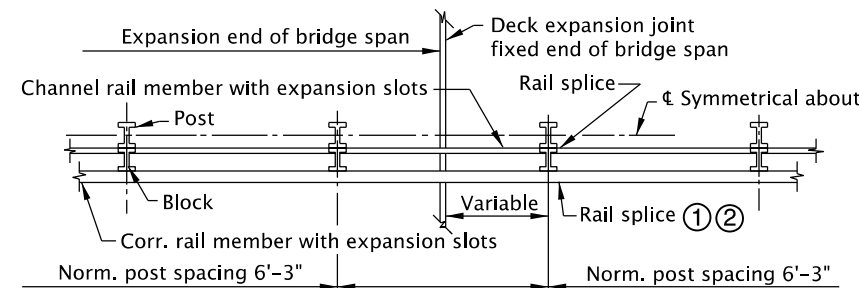


CHANNEL RAIL AND SPLICE PLATE (METAL MEDIAN BARRIER)



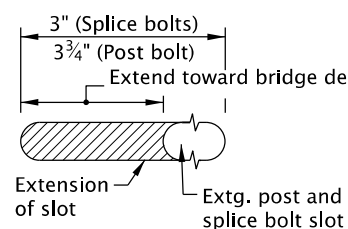
ASSEMBLY DETAILS (RELATION OF PARTS)

NOTE:
THIS DRAWING IS RETAINED FOR MAINTENANCE PURPOSES.
DO NOT USE FOR NEW CONSTRUCTION.

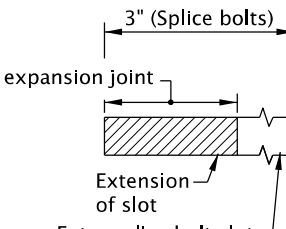


PLAN

- NOTES:**
- Place 2 - $\frac{1}{32}$ " polytetrafluoroethylene (TFE) sheets between corrugated rail members. The sheets shall be $12\frac{1}{2}$ " x 1'-7".
 - Adjust nuts to provide a sliding fit and set threads to prevent loosening.



CORRUGATED RAIL



CHANNEL RAIL AND SPLICE PLATE

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- See appropriate guardrail standard drawing(s) for details not shown.
- Use "Alternate Initial Installation", at bridge ends (See Std. Dwg. RD440), adjacent to P.C.C. pvmt. for temporary guardrail, to match existing guardrail, for Type 1 rail or as directed.
- See Std. Dwg. RD701 for drainage curbs, where required.
- Lap guardrail in direction of adjacent traffic.

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 GUARDRAIL AND METAL MEDIAN BARRIER (29" RAIL HEIGHT)

2024

DATE	REVISION	DESCRIPTION

CALC. BOOK NO. - - -	N/A - - -	SDR DATE- 13-JAN-2020 -	RD400
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METAL MEDIAN BARRIER/SHOULDER GUARDRAIL INSTALLATION AT BRIDGE DECK EXPANSION JOINT

Effective Date: June 1, 2026 – November 30, 2026