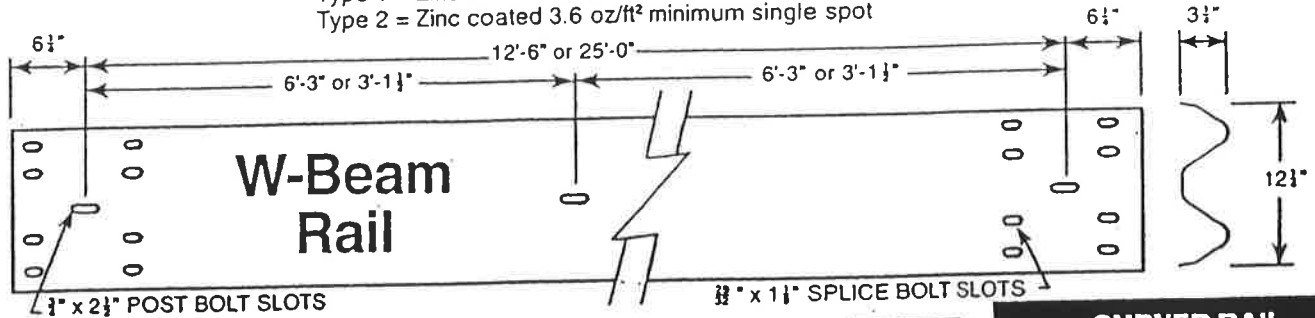


# Guardrail Products

Rail is supplied hot-dipped galvanized after fabrication in accordance with ASTM A-123.

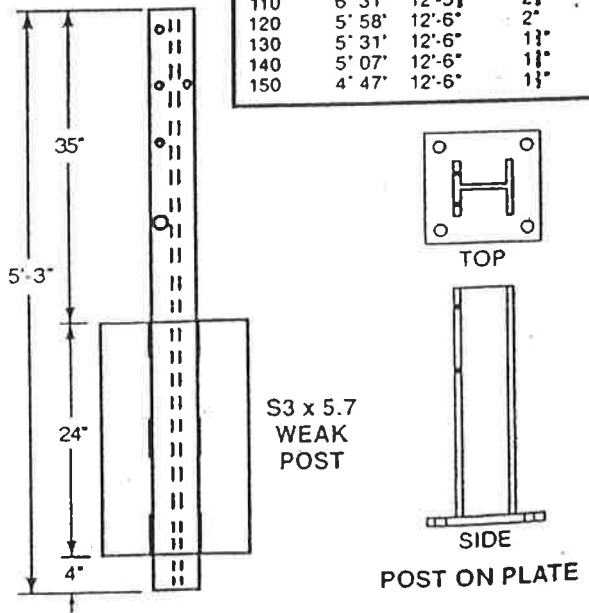
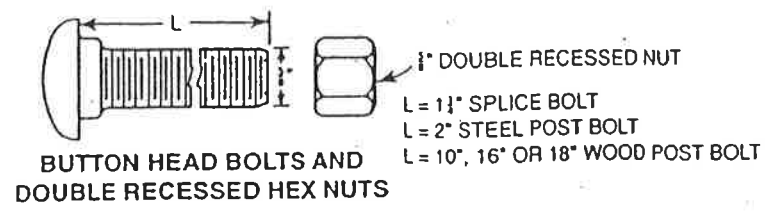
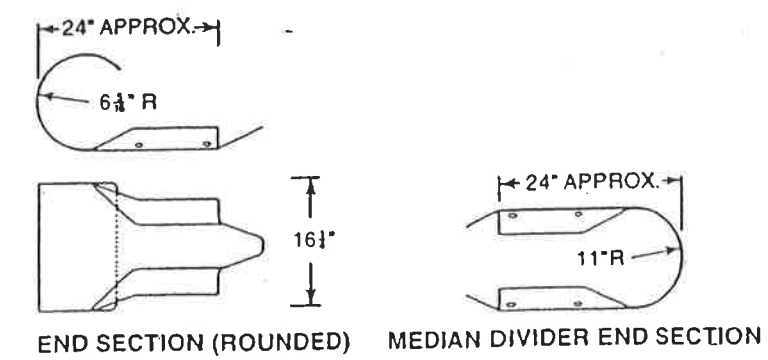
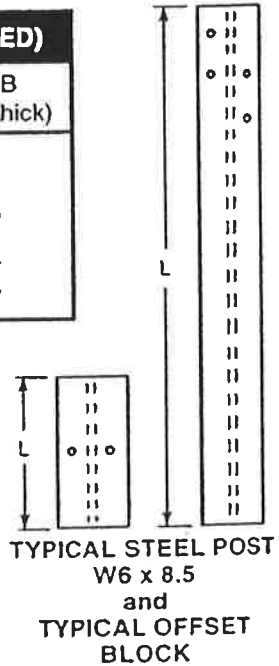
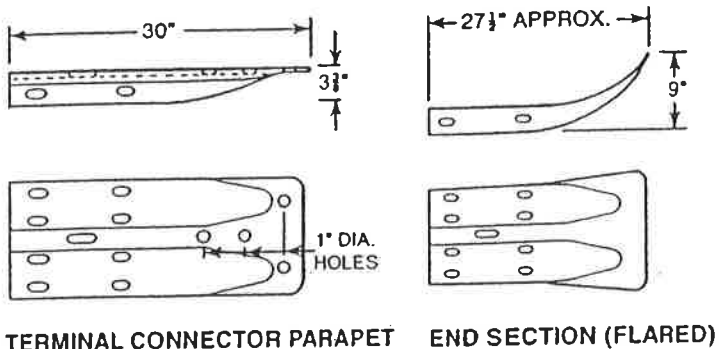
Type 1 = Zinc coated 1.8 oz/ft<sup>2</sup> minimum single spot

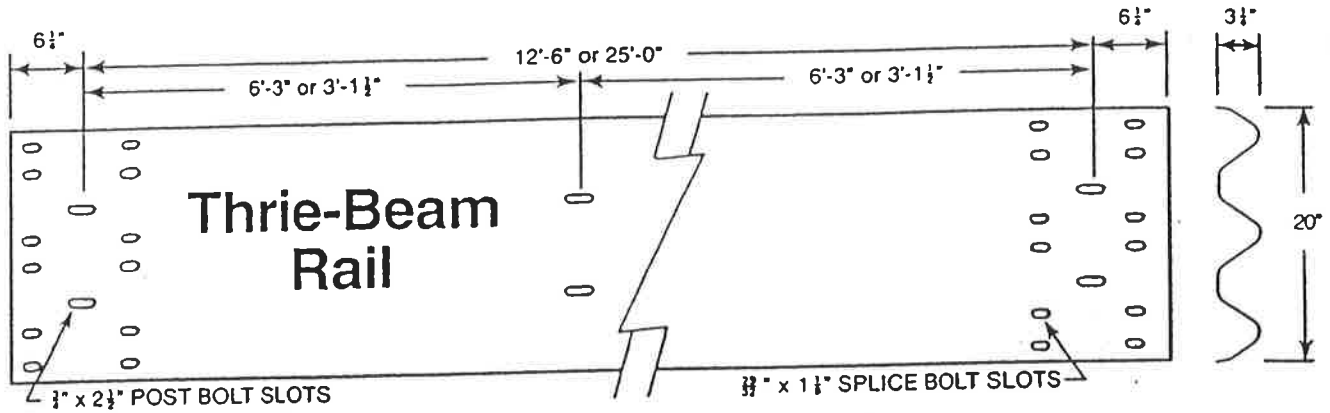
Type 2 = Zinc coated 3.6 oz/ft<sup>2</sup> minimum single spot



DIMENSIONS AND MECHANICAL PROPERTIES (UNCOATED)		
Item	Class A (.105 in. thick)	Class B (.135 in. thick)
Beam width, in., minimum	12	12
Beam depth, in., minimum	3	3
Cross-sectional area, sq. in.	2.01	2.58
Moment of inertia, in. <sup>4</sup>	2.34	3.01
Section modulus, in. <sup>3</sup>	1.39	1.77
Weight/ft., lb. (approximate)	6.82	8.77

CURVED RAIL			
FUNCTIONS OF 12-ft., 6-in. ARC FOR DIFFERENT RADII			
Radial	Angle	Chord	Height (Rise)
5	143° 14'	9'-5 1/2"	3'-5"
10	71° 37'	11'-8 1/2"	1'-10 1/2"
15	47° 45'	12'-1 1/2"	1'-3 1/2"
20	35° 49'	12'-3 1/2"	11 1/2"
25	28° 39'	12'-4 1/2"	9 1/2"
30	23° 52'	12'-4 1/2"	7 1/2"
35	20° 28'	12'-5 1/2"	6 1/2"
40	17° 53'	12'-5 1/2"	5 1/2"
45	15° 55'	12'-5 1/2"	5 1/2"
50	14° 19'	12'-5 1/2"	4 1/2"
55	13° 01'	12'-5 1/2"	4 1/2"
60	11° 56'	12'-5 1/2"	3 1/2"
65	11° 01'	12'-5 1/2"	3 1/2"
70	10° 14'	12'-5 1/2"	3 1/2"
75	9° 33'	12'-5 1/2"	3 1/2"
80	8° 57'	12'-5 1/2"	3"
85	8° 26'	12'-5 1/2"	2 1/2"
90	7° 58'	12'-5 1/2"	2 1/2"
95	7° 32'	12'-5 1/2"	2 1/2"
100	7° 10'	12'-5 1/2"	2 1/2"
110	6° 31'	12'-5 1/2"	2 1/2"
120	5° 58'	12'-6"	2"
130	5° 31'	12'-6"	1 1/2"
140	5° 07'	12'-6"	1 1/2"
150	4° 47'	12'-6"	1 1/2"



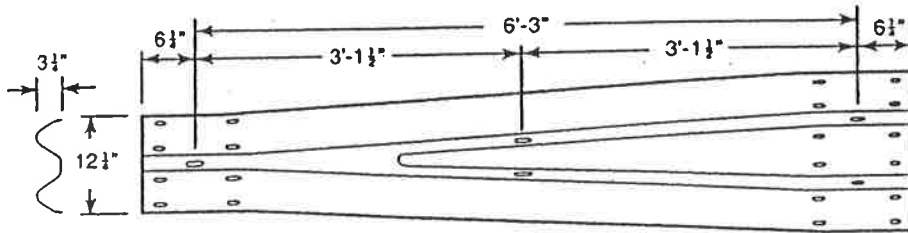


Item	Class A (.105 in. thick)	Class B (.135 in. thick)
Beam width, in., minimum	20	20
Beam depth, in., minimum	3	3
Cross-sectional area, sq. in.	3.12	4.01
Moment of inertia, in. <sup>4</sup>	3.76	4.83
Section modulus, in. <sup>3</sup>	2.22	2.87
Weight/ft., lb. (approximate)	10.5	13.5

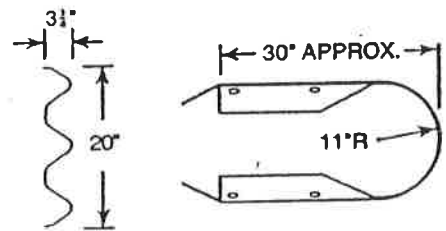
Rail is supplied hot-dipped galvanized after fabrication in accordance with ASTM A-123.

**Type**

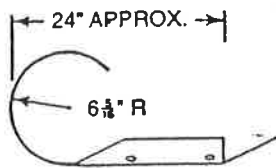
- Type 1 = Zinc coated 1.8 oz/ft<sup>2</sup> minimum single spot
- Type 2 = Zinc coated 3.6 oz/ft<sup>2</sup> minimum single spot



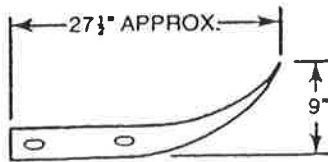
TRANSITION SECTION FROM THRIE-BEAM TO W-BEAM



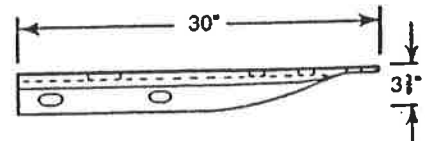
MEDIAN DIVIDER END



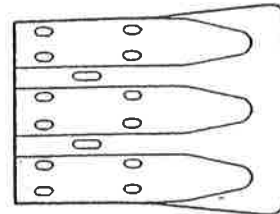
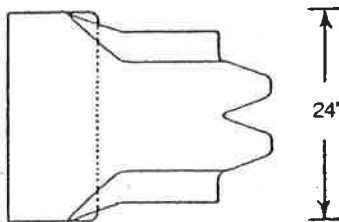
END SECTION (ROUNDED)



END SECTION (FLARED)



TERMINAL CONNECTOR PARAPET



1" DIA. HOLES