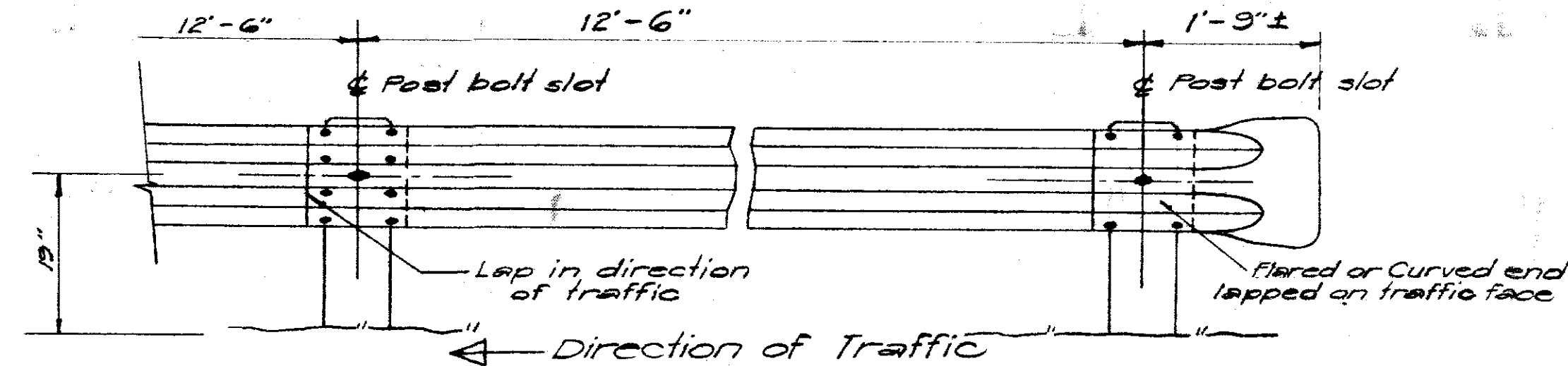
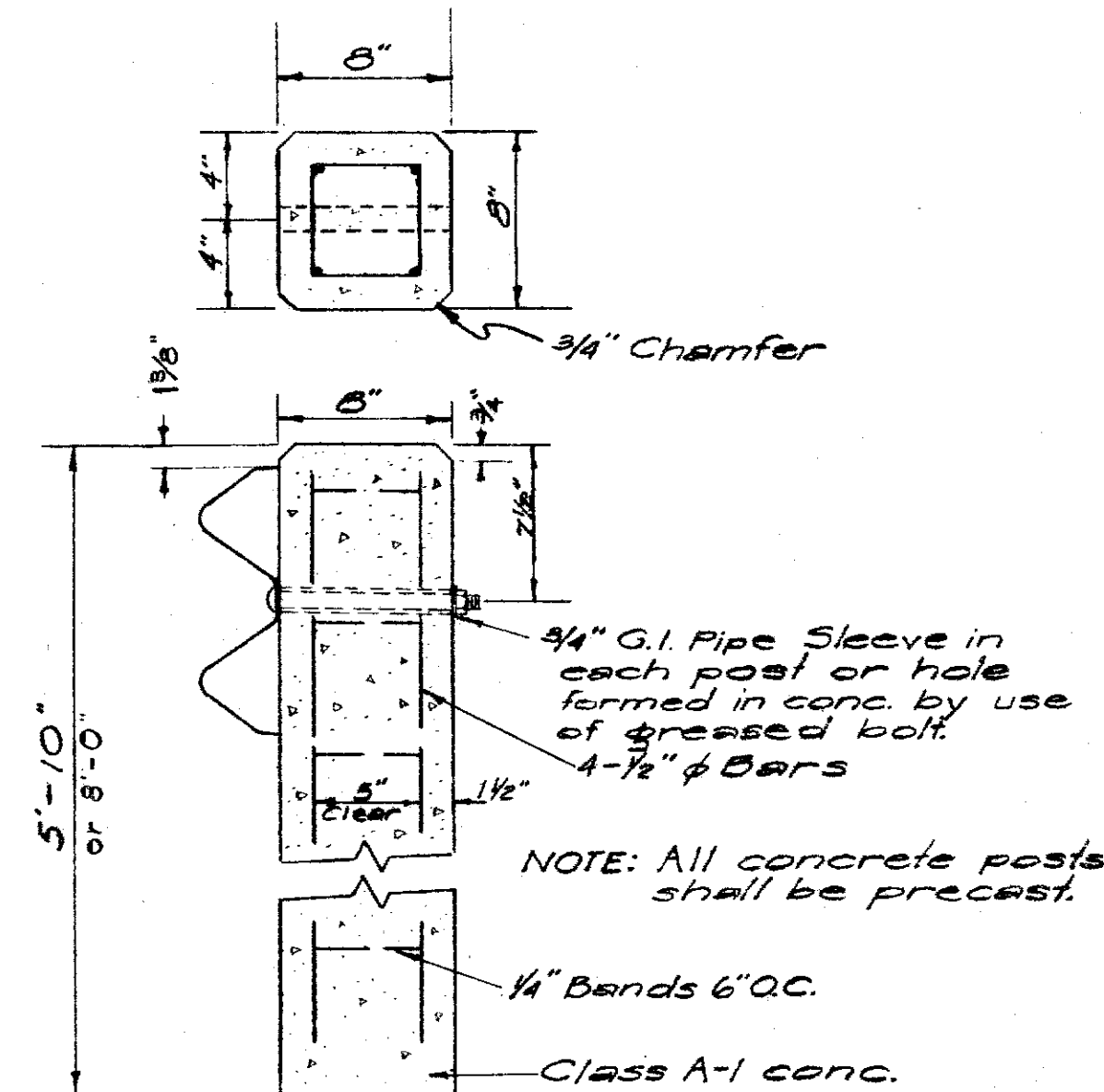




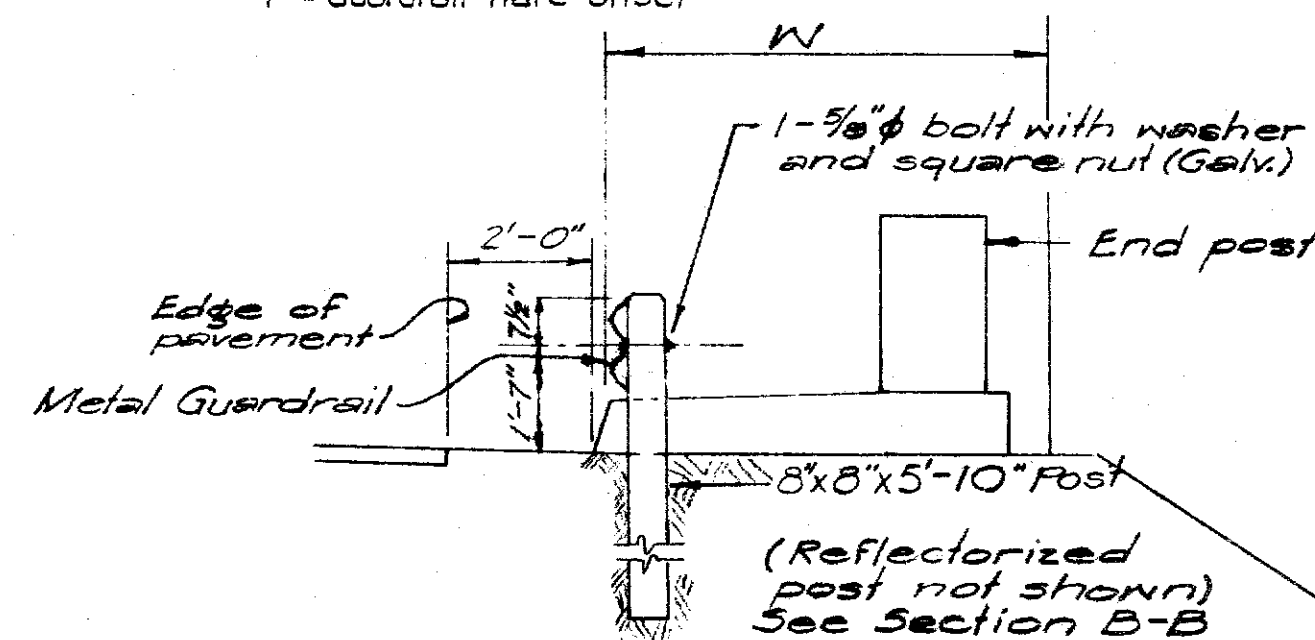
METAL GUARDRAIL
Scale: 3/4" = 1'-0"



DETAIL OF CONC POST
Scale: 1/2" = 1'-0"
GUARDRAIL OFFSET

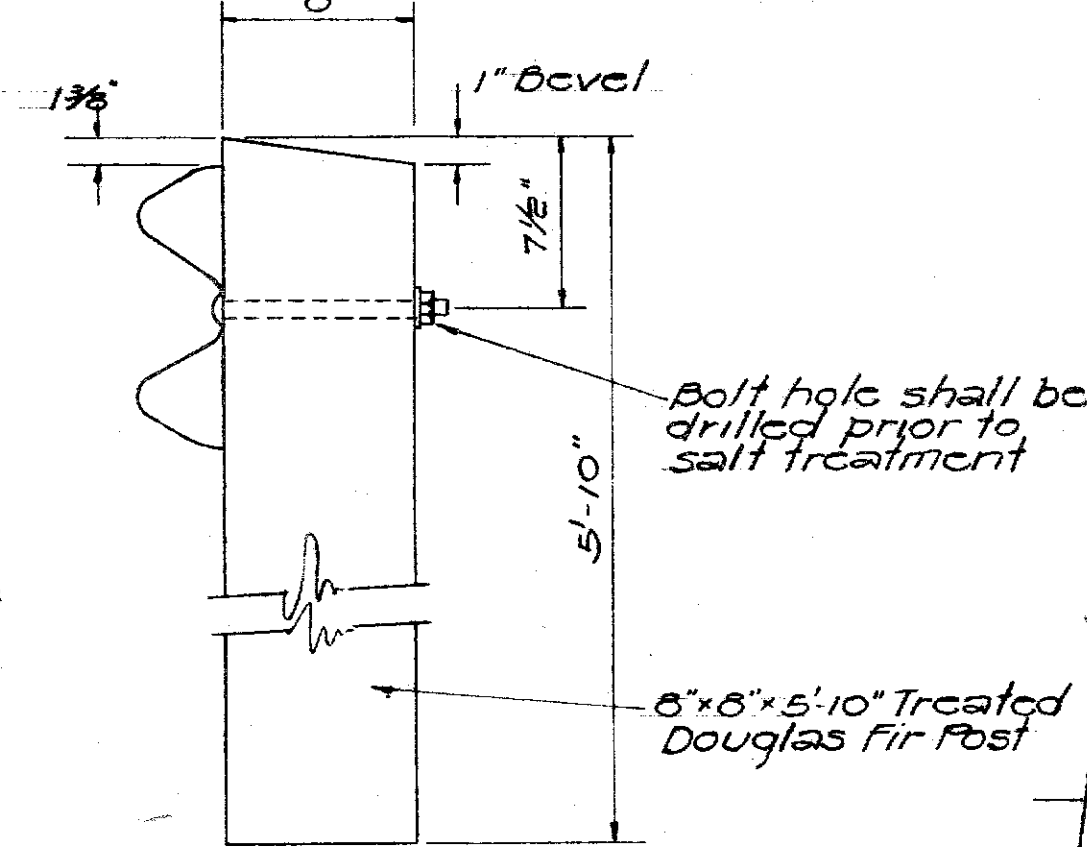
X	N=3	N=4	N=5	N=6	N=7	N=8
12.5	0.19	0.16	0.14	0.12	0.09	0.08
25.0	0.78	0.64	0.55	0.49	0.35	0.32
37.5	1.69	1.44	1.25	1.10	0.78	0.72
50.0	3.00	2.56	2.22	1.92	1.33	1.28
62.5		4.00	3.47	3.03	2.16	2.00
75.0			5.00	4.41	3.11	2.88
87.5				6.00	4.23	3.92
100.0					5.83	5.12
112.5					7.00	6.48
125.0						8.00

N = Guardrail flare
X = Distance from post at bridge to offset points
Y = Guardrail flare offset

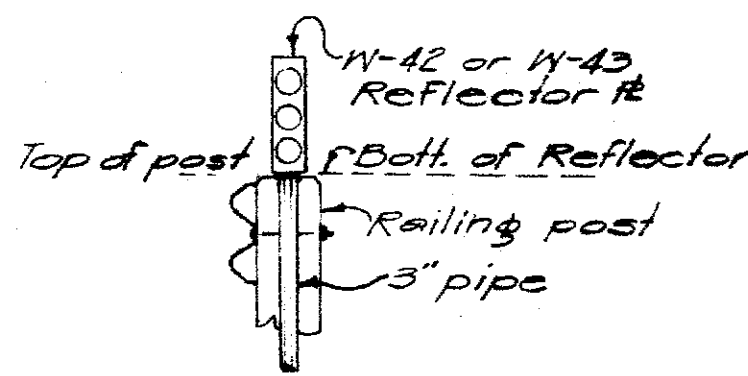


SECTION A-A
Scale: 3/8" = 1'-0"

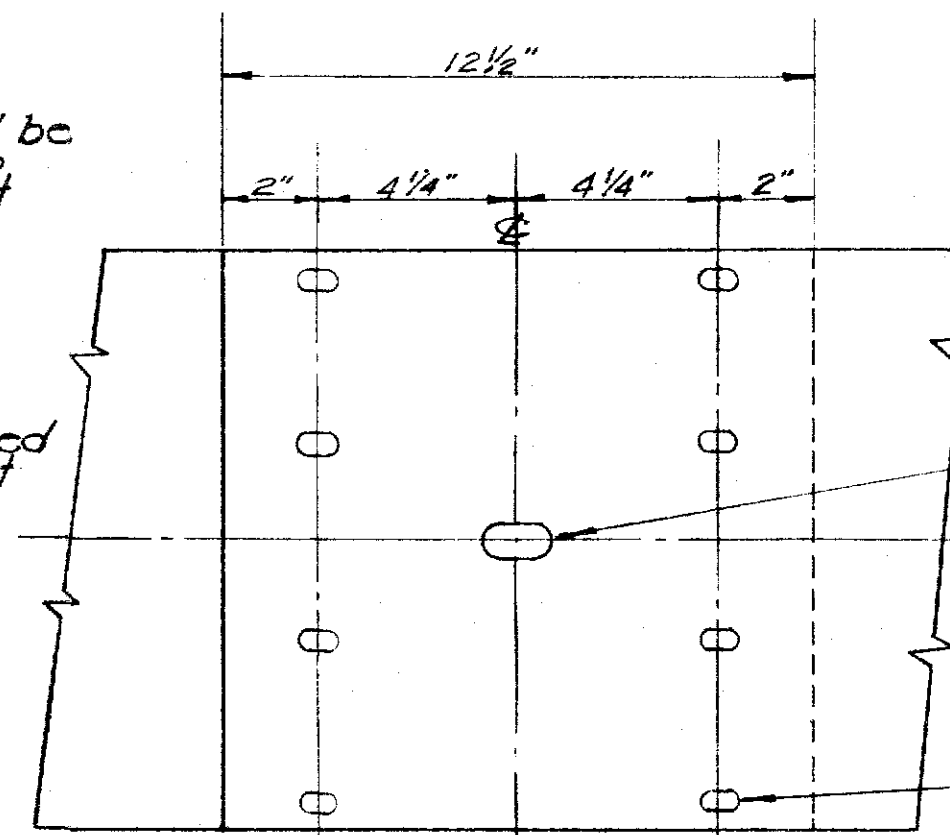
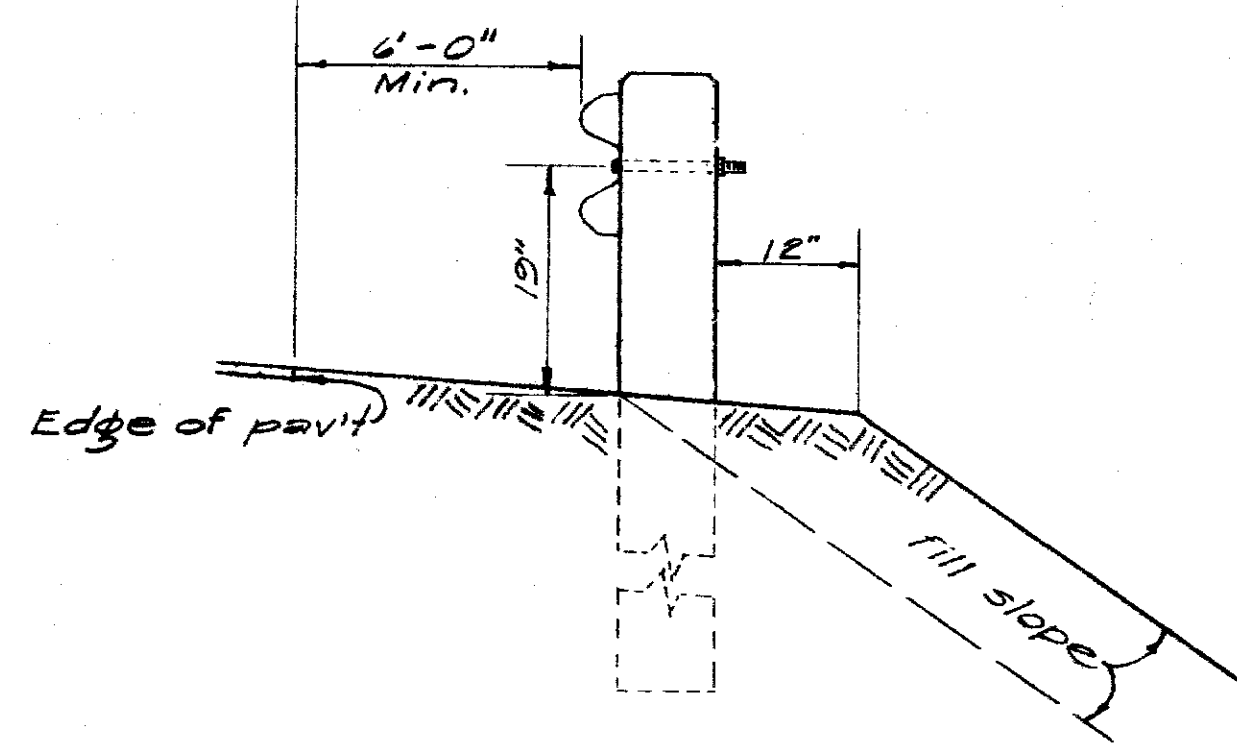
NOTE:
1. Timber post shall be surfaced on four sides (S4S) and chamfered.
2. Paint color for timber post shall be as specified.



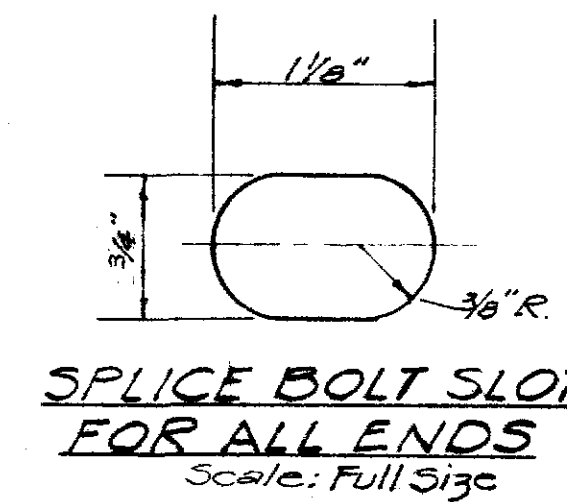
DETAIL OF TIMBER POST
Scale: 1/2" = 1'-0"



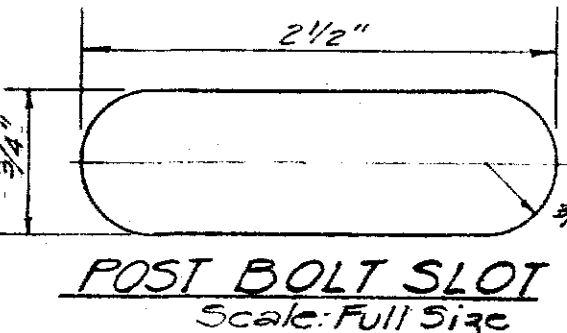
SECTION B-B
Scale: 1/2" = 1'-0"



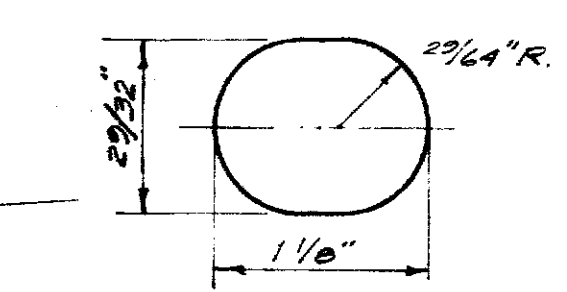
RAIL SPLICE
Scale: 3" = 1'-0"



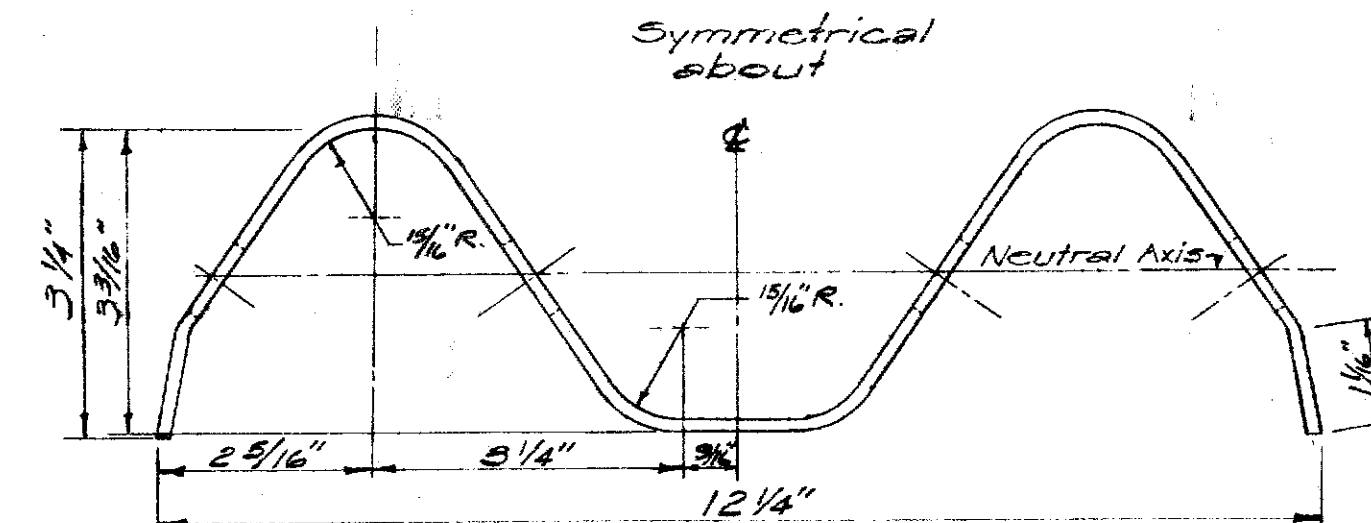
SPLICE BOLT SLOT FOR ALL ENDS
Scale: Full Size



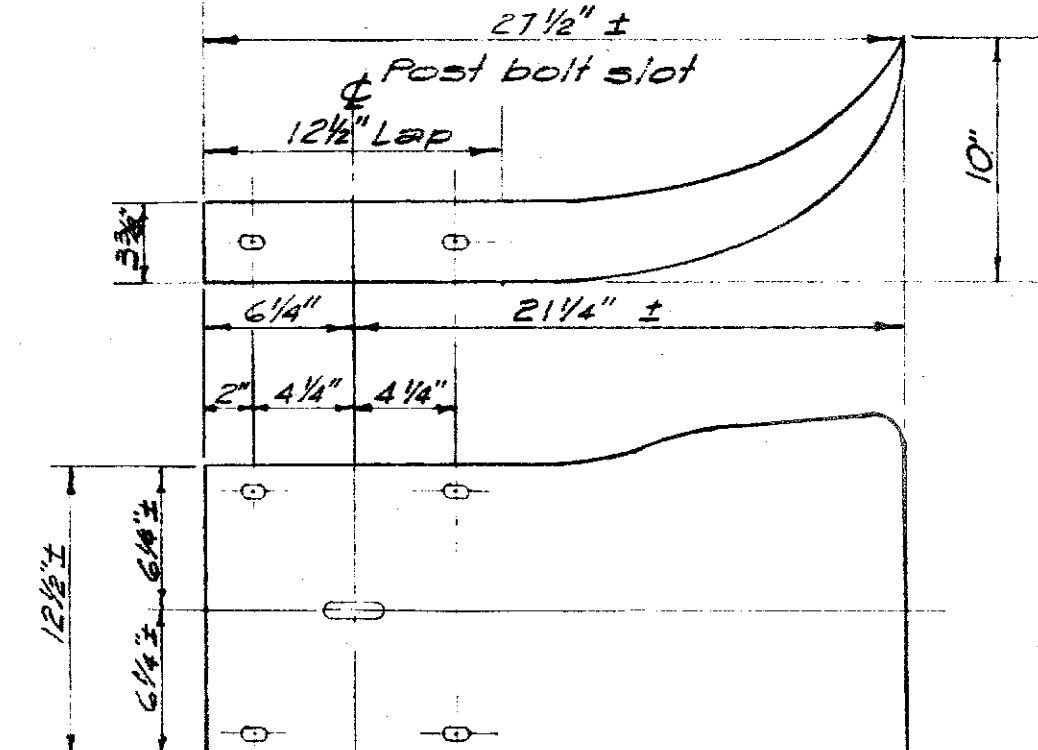
POST BOLT SLOT
Scale: Full Size



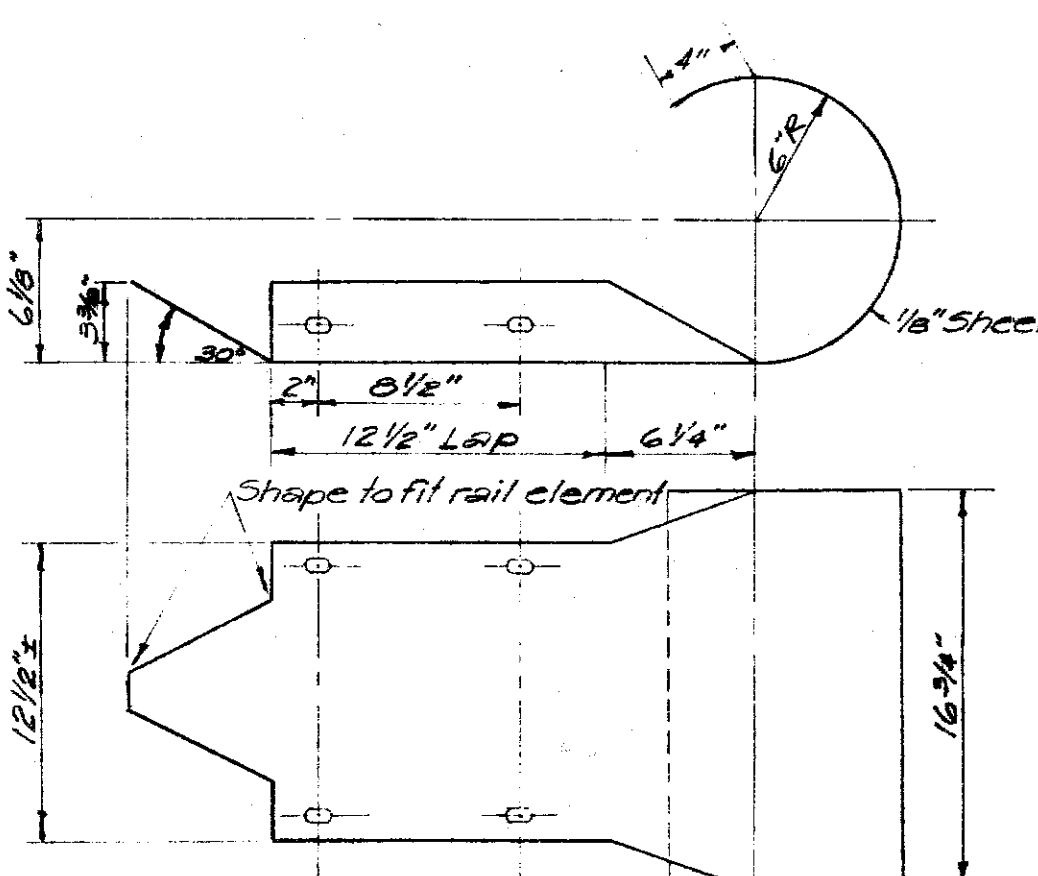
SPLICE BOLT SLOT
Scale: Full Size



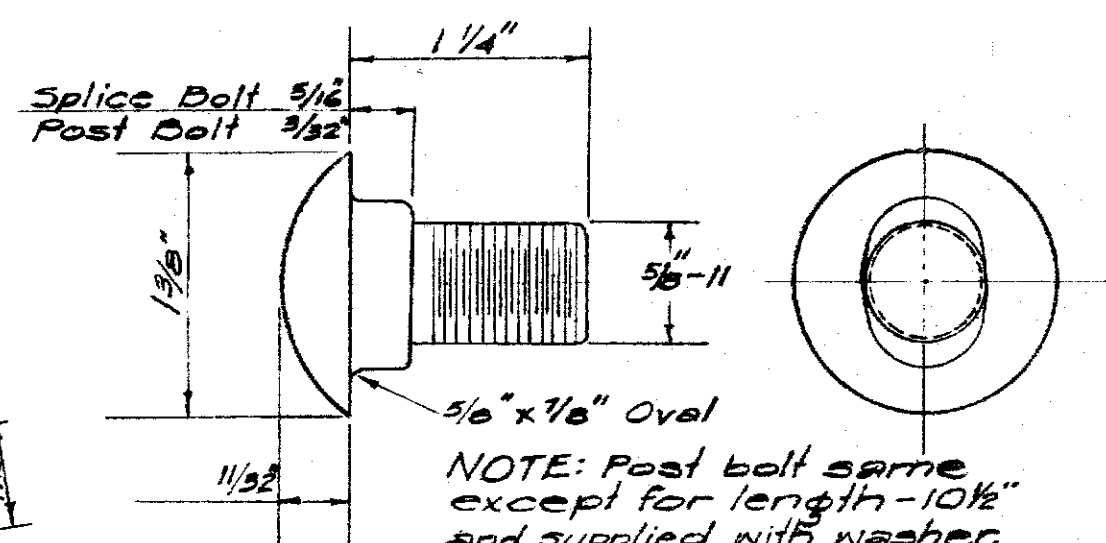
RAIL ELEMENT SECTION
Scale: Half Size



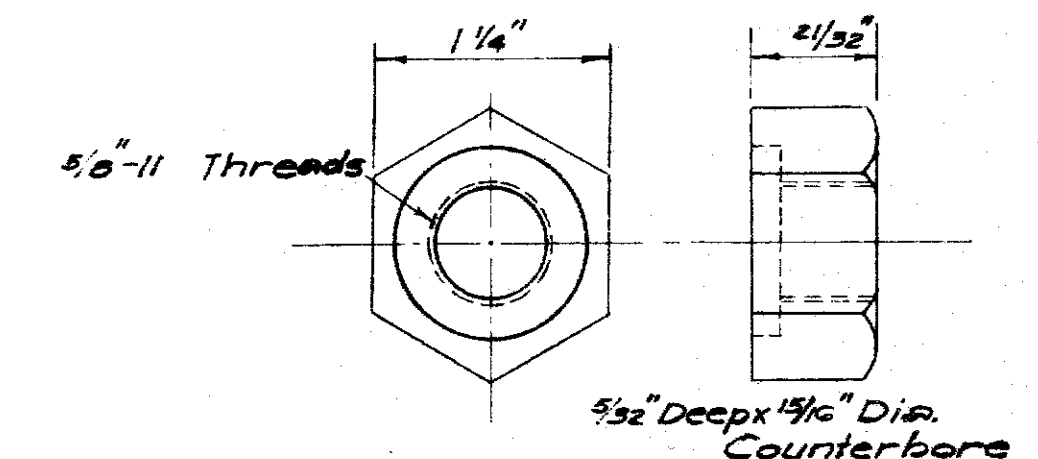
FLARED END
Scale: 1 1/2" = 1'-0"



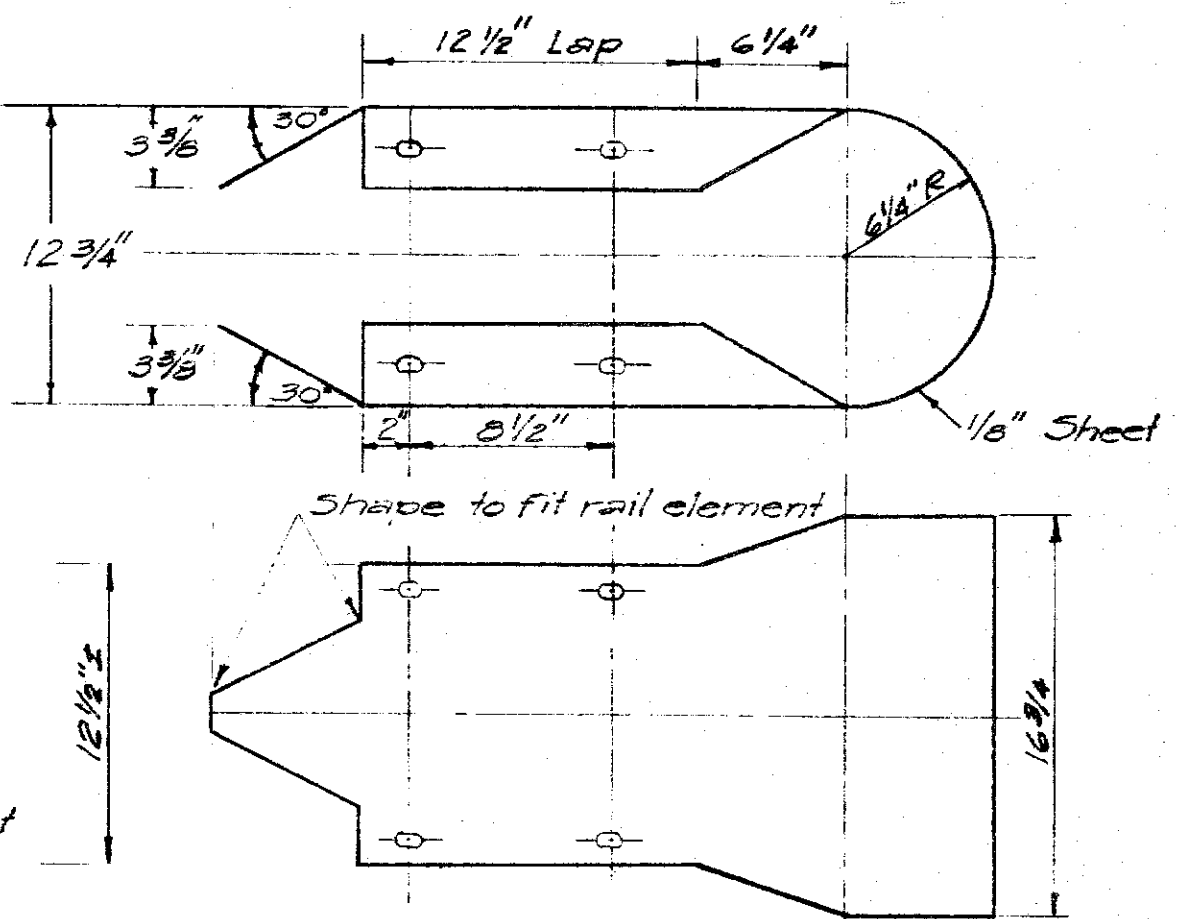
CURVED END
Scale: 1 1/2" = 1'-0"



SPLICE BOLT POST BOLT
Scale: Full Size

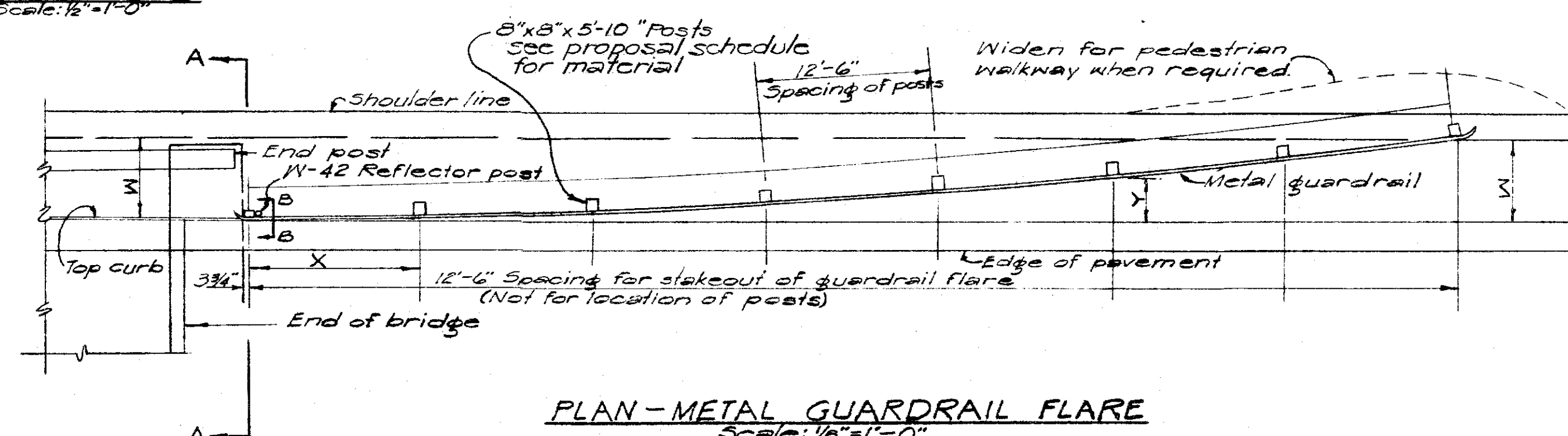


HEXAGON NUT
Scale: Full Size



MEDIAN END
Scale: 1 1/2" = 1'-0"

NOTE: See Regulatory & Warning Signs Sheet for details of N-42, N-43, and railing posts.



PLAN - METAL GUARDRAIL FLARE
Scale: 1/8" = 1'-0"

PROPERTY OF DIVISION OF ENGINEERING

JOB NO. 12-63

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
COMMUNITY PLANNING INCORPORATED CIVIL ENGINEERS - SURVEYORS - CONSULTANT PLANNERS			
DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU DIVISION OF ENGINEERING IMPROVEMENT DISTRICT NO. 162 KAHALU CUTOFF ROAD KANEHOE, HEEA, AHUIMANU & KAHALU, KOOLAUPOKO, OAHU			
GUARDRAIL DETAILS			
ENGINEER	DATE/FINAL REPORT	6-27-62	
DRAFTSMAN	DATE	8-1-62	
SCALE	CHECKED BY	TRACER	
APPROVED:	APPROVED:	9/28/62	
CHIEF ENGINEER	CHIEF ENGINEER	CHIEF ENGINEER	
FILE	PROFILE	C.B.	
CK. SEC.	F.B.	S.B.	
IN. BY:	F. BY:	S. BY:	
APPROVED: <i>[Signature]</i>			