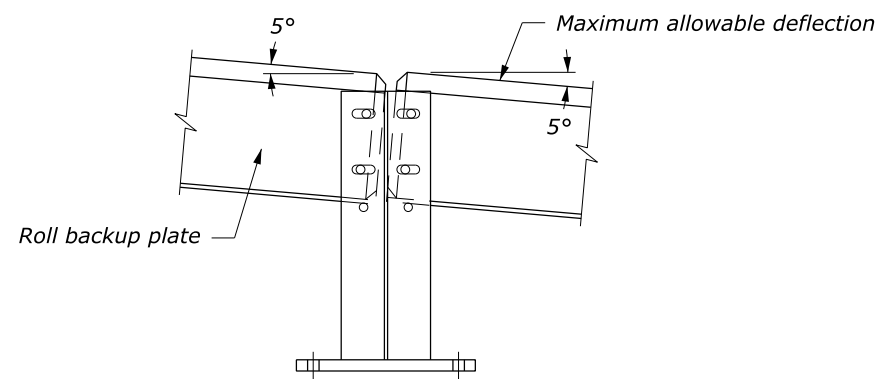
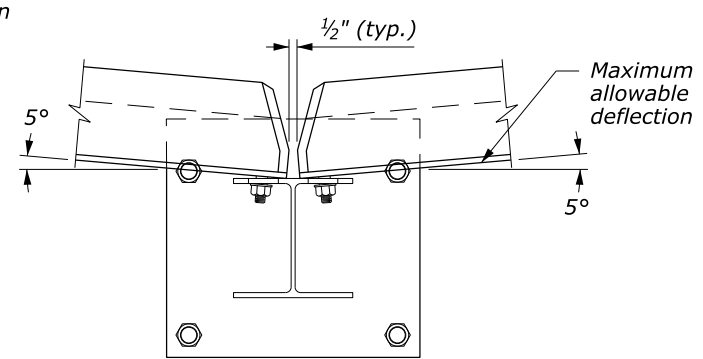


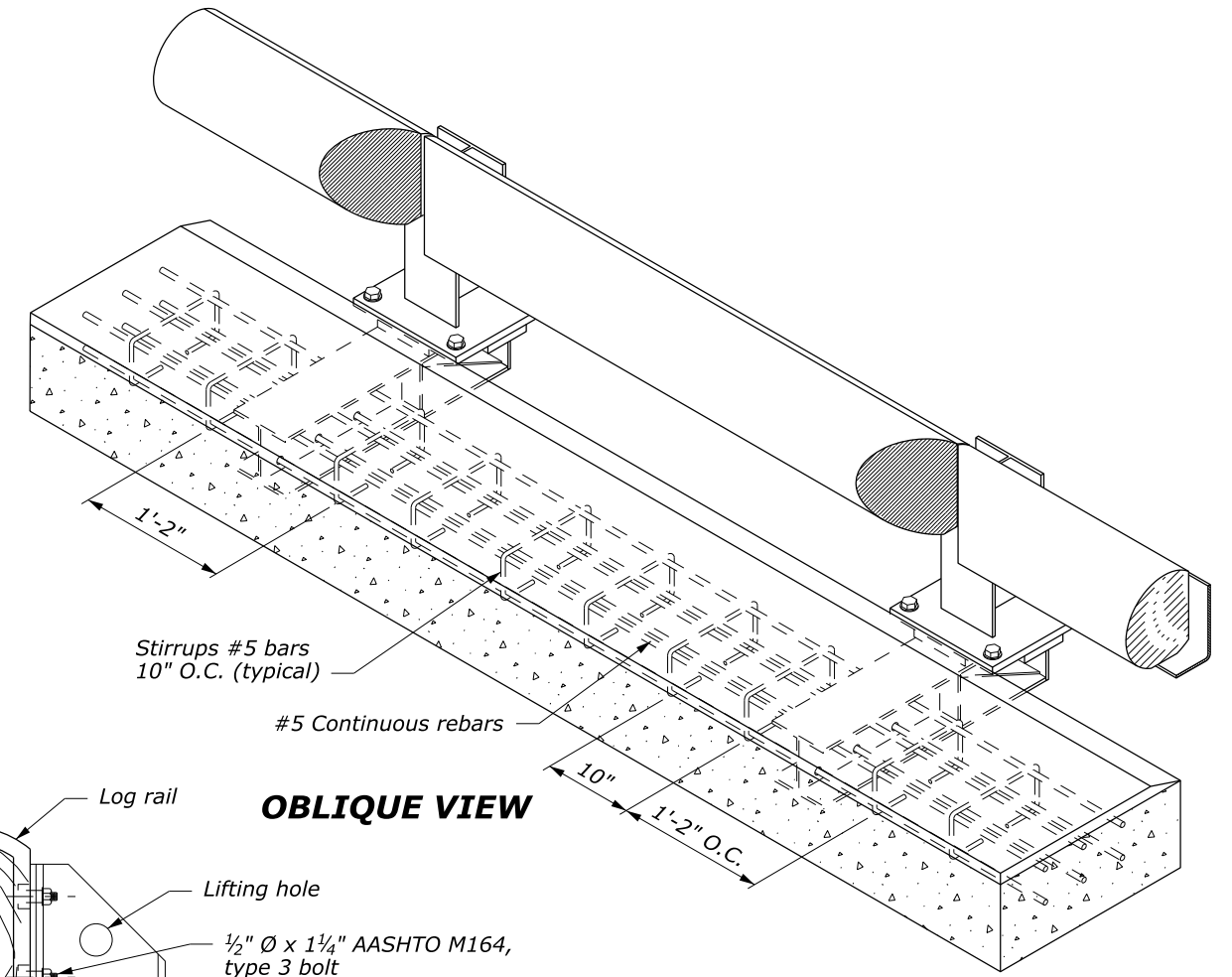
NOTE:
 1. Steel is ASTM A242 or A588, Grade 50.
 2. Concrete: minimum $f_c' = 3500$ psi.



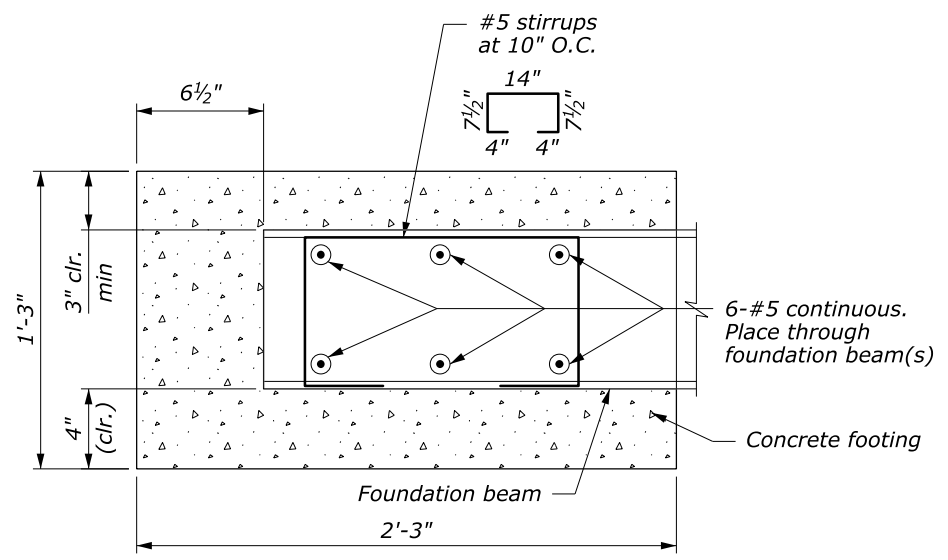
**ENDS OF RAILS AT POST:
 MAXIMUM VERTICAL
 DEFLECTION ALLOWABLE
 ELEVATION**



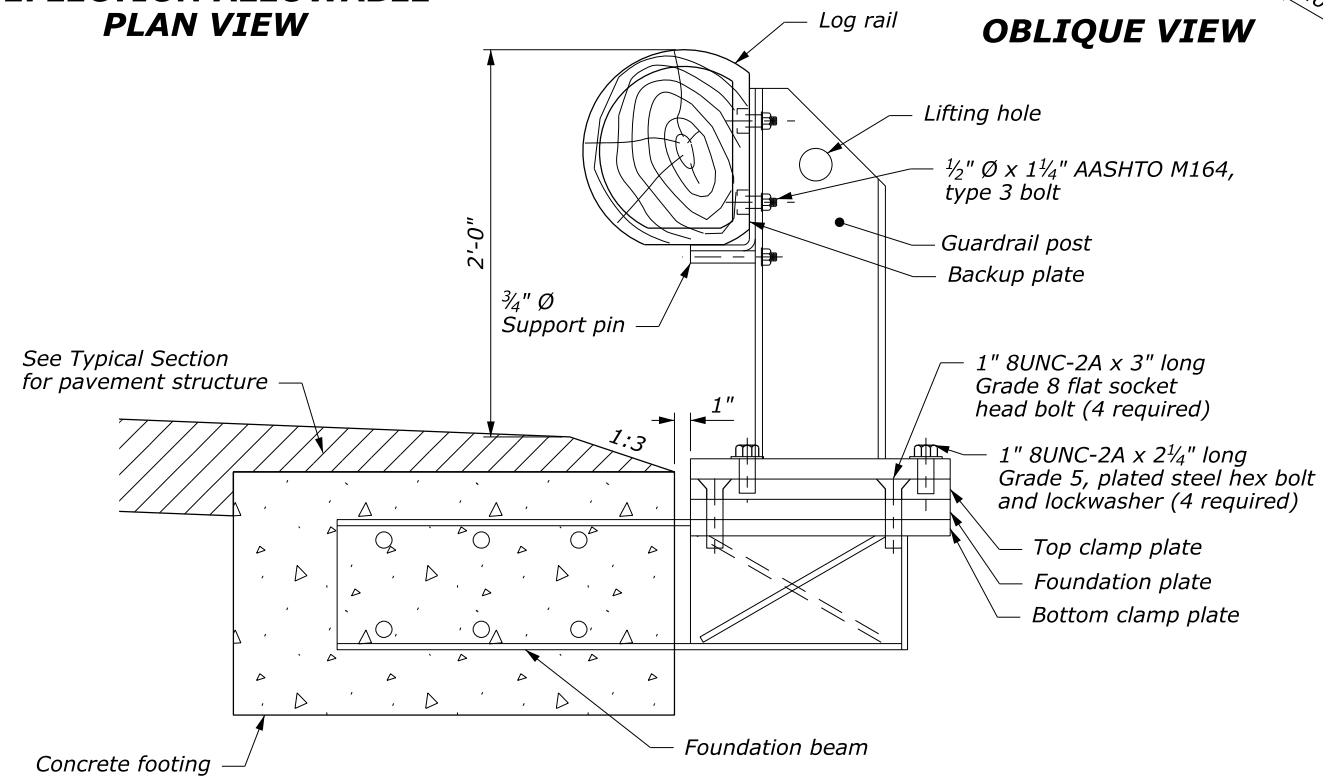
**MAXIMUM HORIZONTAL
 DEFLECTION ALLOWABLE
 PLAN VIEW**



OBLIQUE VIEW



**FOOTING DETAIL
 TYPICAL SECTION**

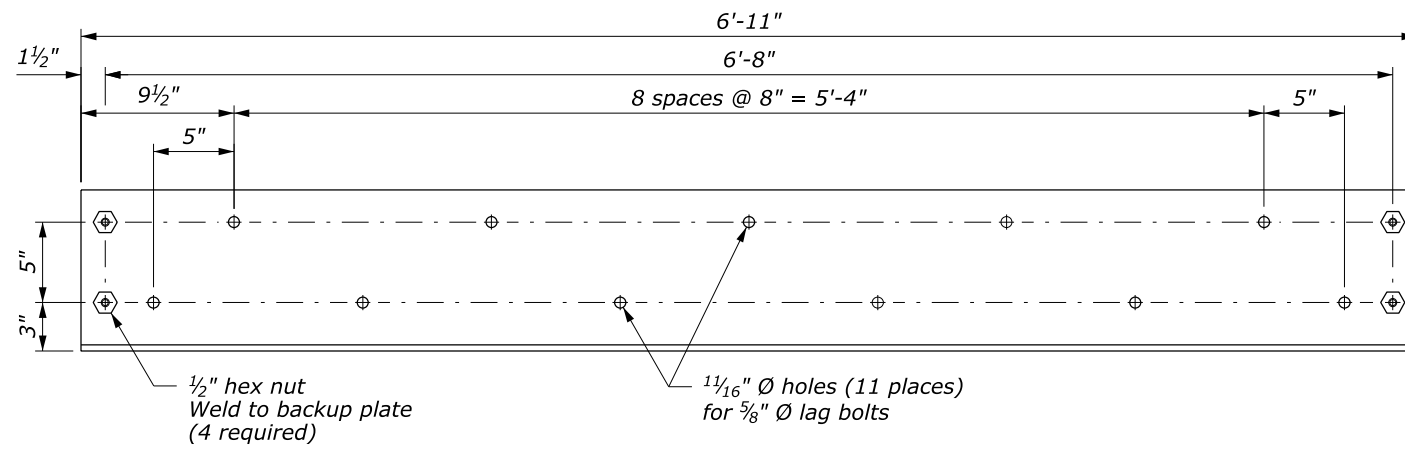


TYPICAL SECTION

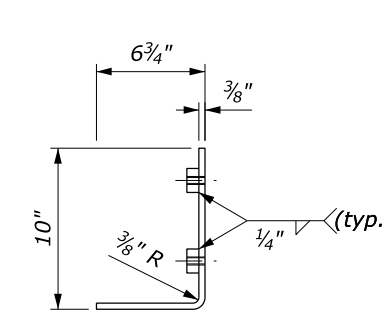
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION WESTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL REMOVABLE STEEL-BACKED LOG RAIL Sheet 1 of 3	
DETAIL APPROVED FOR USE 3/2009 REVISED:	DETAIL W617-83

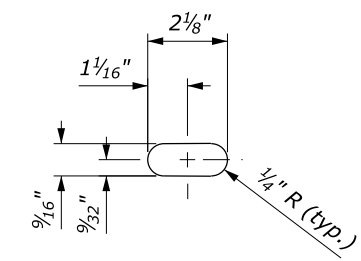
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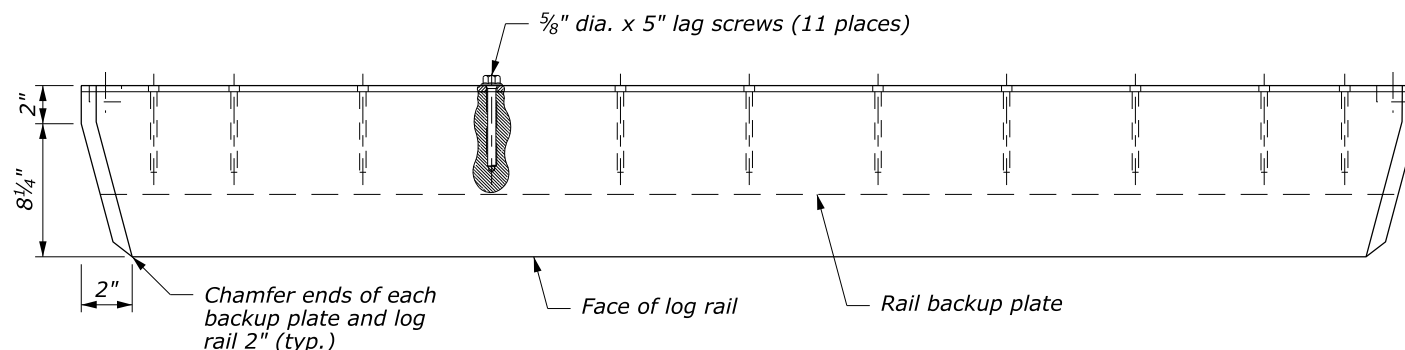
**RAIL BACKUP PLATE
ELEVATION VIEW**



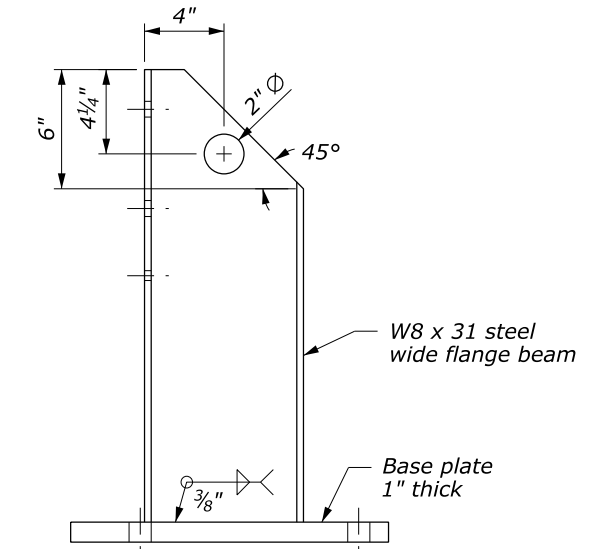
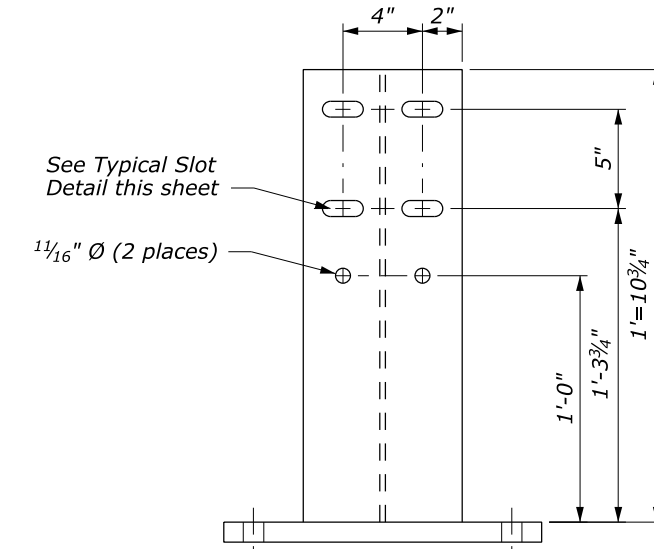
**RAIL BACKUP PLATE
SECTION VIEW**



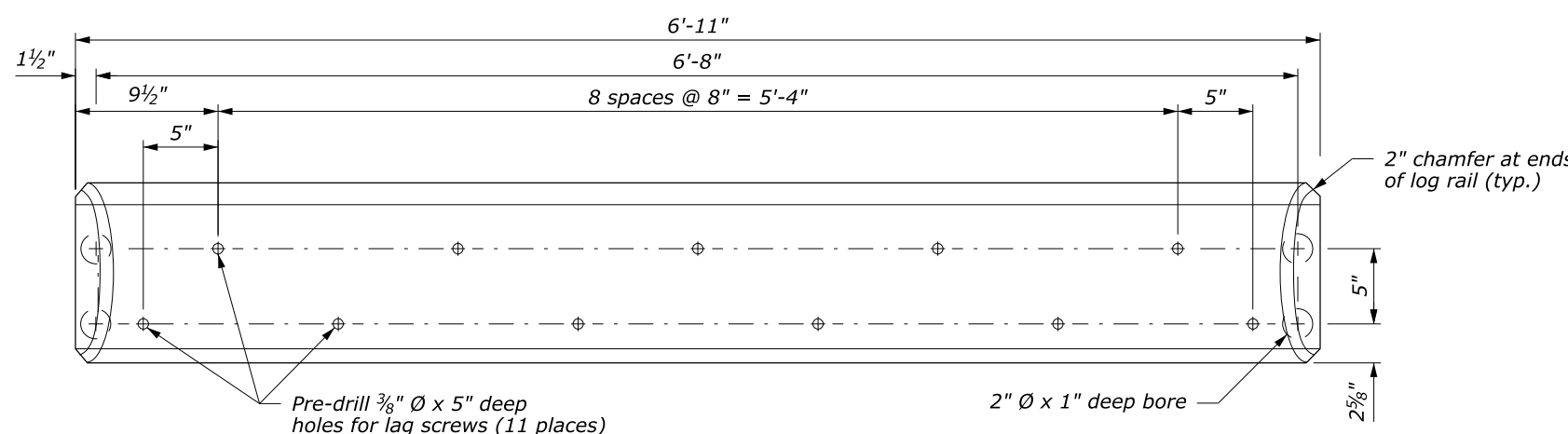
TYPICAL SLOT DETAIL



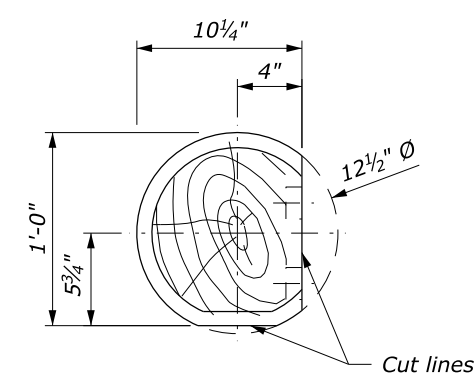
**LOG RAIL & RAIL BACKUP PLATE
PLAN VIEW**



GUARDRAIL POST



**LOG RAIL
ELEVATION VIEW**

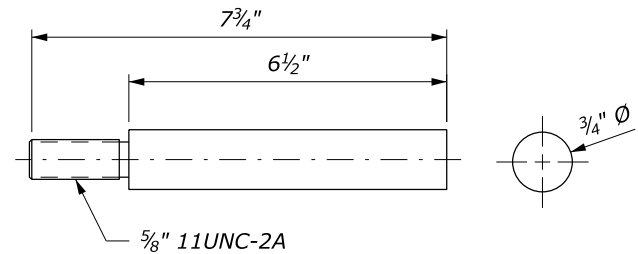


**LOG RAIL
SECTION VIEW**

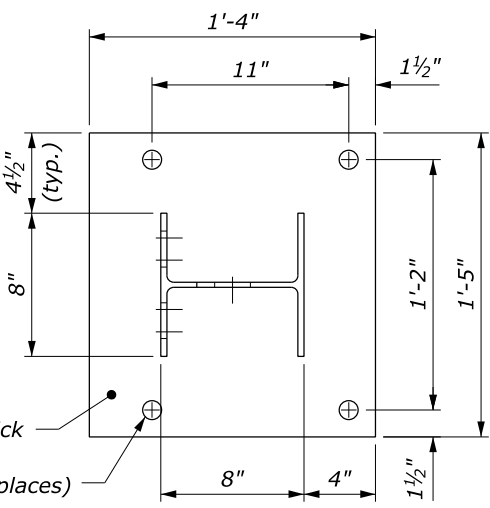
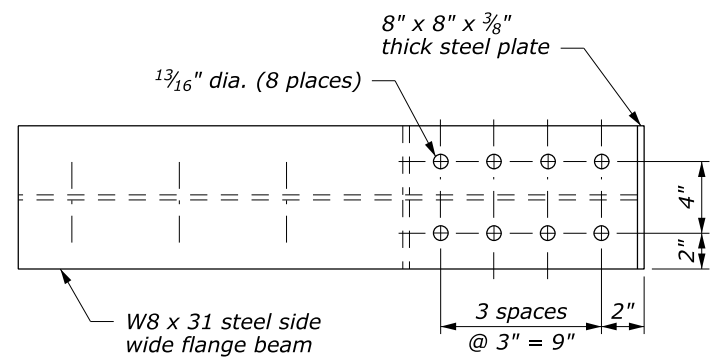
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION WESTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL REMOVABLE STEEL-BACKED LOG RAIL Sheet 2 of 3	
DETAIL APPROVED FOR USE 3/2009	DETAIL
REVISED:	W617-83

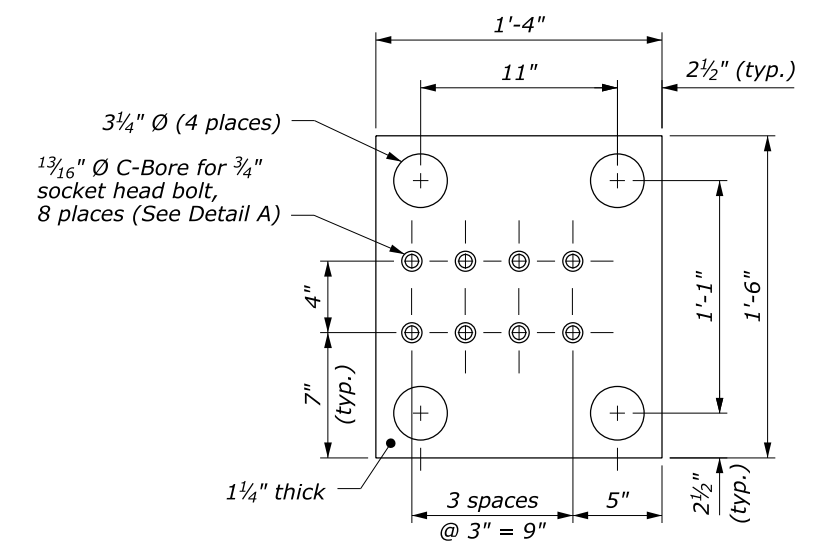
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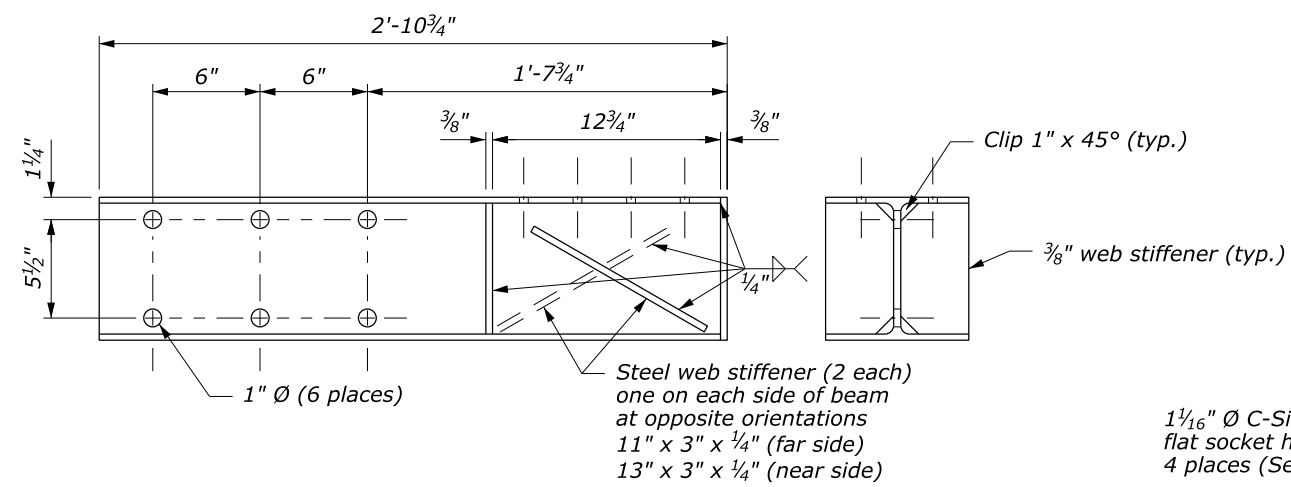
SUPPORT PIN



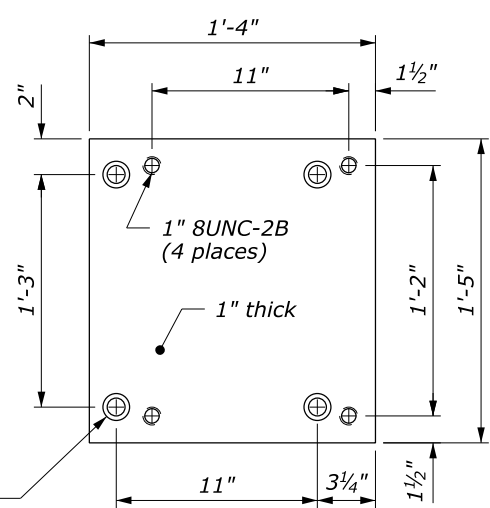
RAIL POST BASE PLATE



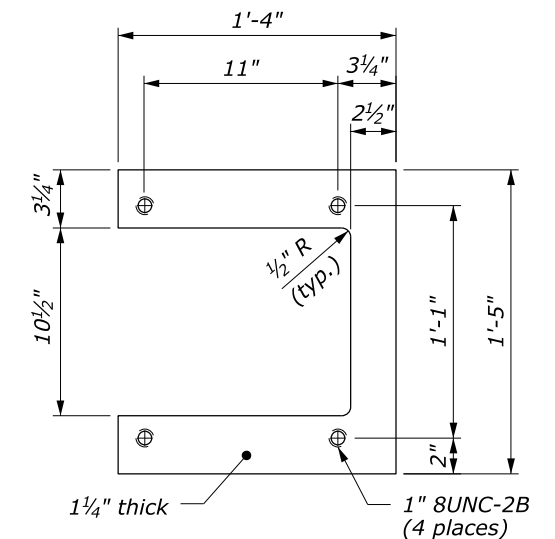
FOUNDATION PLATE



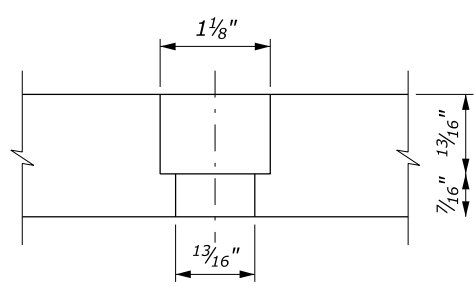
FOUNDATION BEAM



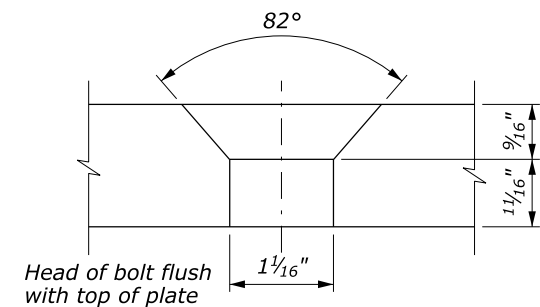
TOP CLAMP PLATE



BOTTOM CLAMP PLATE



DETAIL A



DETAIL B

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 WESTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL
**REMOVABLE
 STEEL-BACKED LOG RAIL**
 Sheet 3 of 3

DETAIL APPROVED FOR USE 3/2009
 REVISIONS:

DETAIL
 W617-83

NO SCALE

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