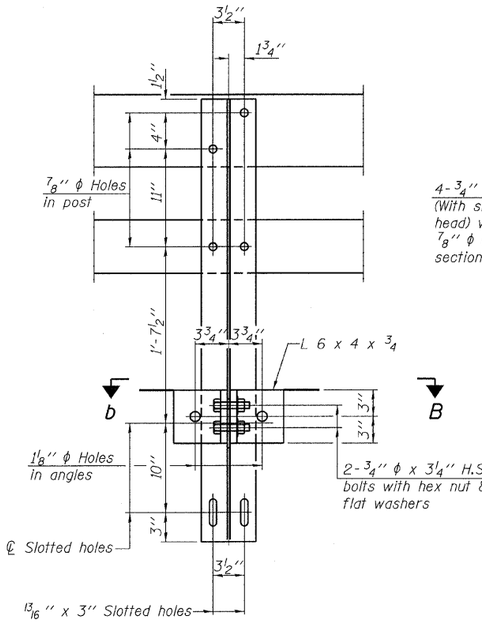
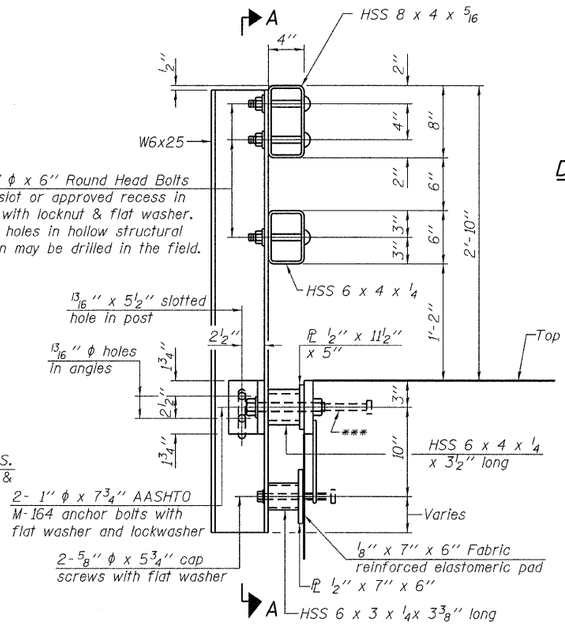
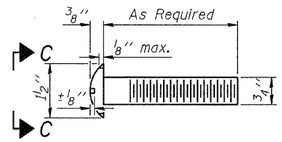


SECTION A-A

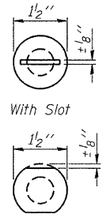


SECTION AT RAIL POST

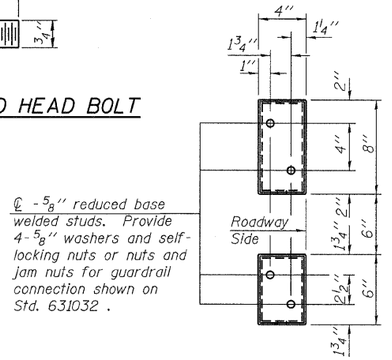
Reinforcement bars in the top of the slab may be placed with a 1½" minimum clearance in the area of the rail post anchor devices. The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



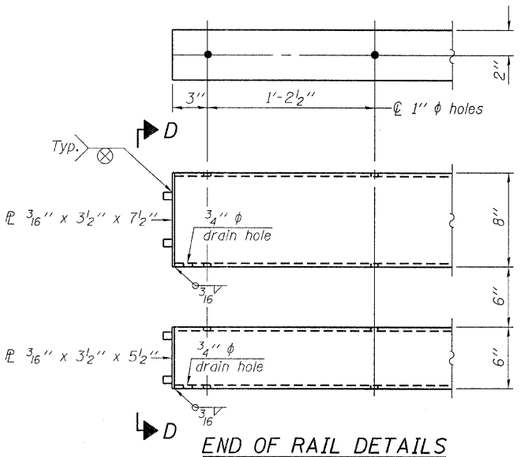
DETAIL OF ¾" ϕ ROUND HEAD BOLT



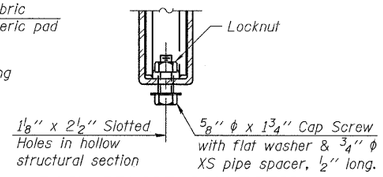
VIEW C-C



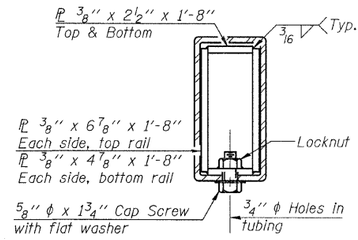
VIEW D-D



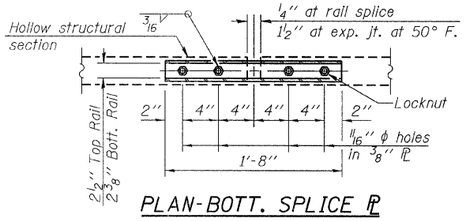
END OF RAIL DETAILS



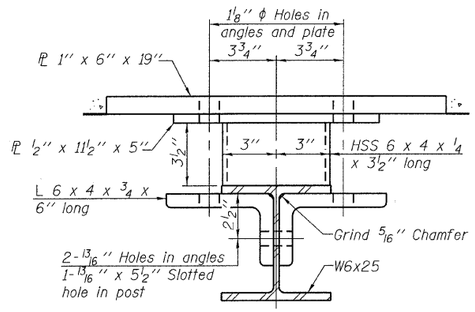
RAIL SPLICE CONNECTION AT EXPANSION JT.



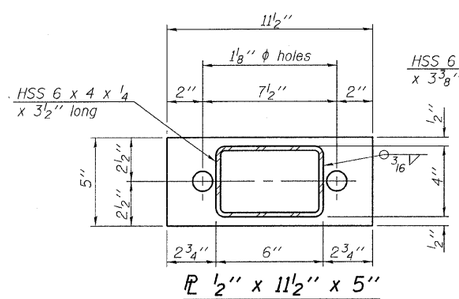
SECTION AT RAIL SPLICE



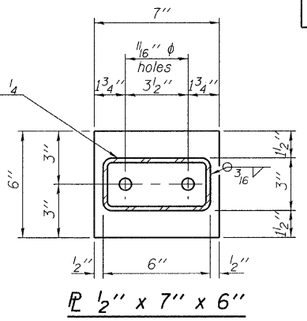
PLAN-BOTT. SPLICE ℄ TYPICAL



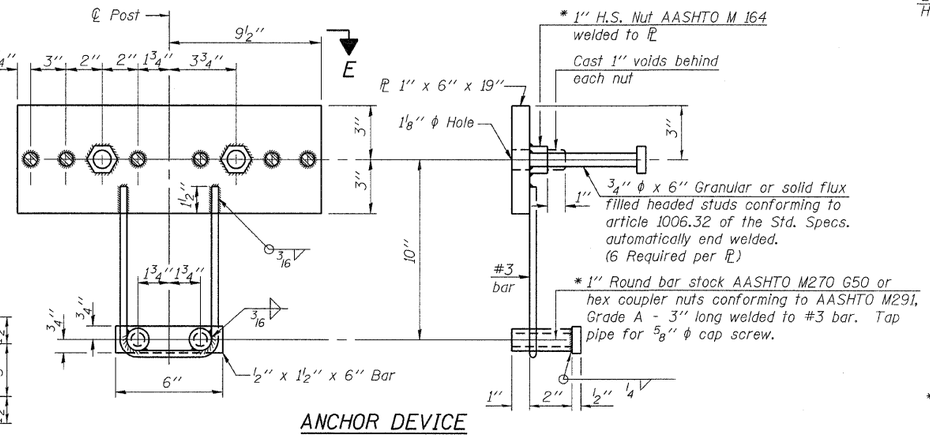
SECTION B-B



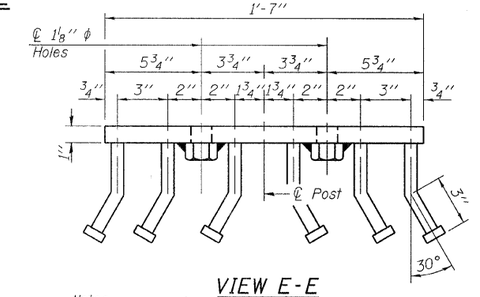
℄ ½" x 11½" x 5"



℄ ½" x 7" x 6"



ANCHOR DEVICE



VIEW E-E

Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

**** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.*

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	432

(6'-3" Maximum Post Spacing) (1¼" minimum to 3⅛" maximum HMA thickness)

**Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.*

FILE NAME = 100191-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3365 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.005959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/14/2012	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE SM
STRUCTURE NO. 053-3457
SHEET NO. 9 OF 12 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	08-00145-05-BR	LIVINGSTON	29	26
SOUTH 7TH STREET		CONTRACT NO. 87494		
	ILLINOIS	FED. AID PROJECT		