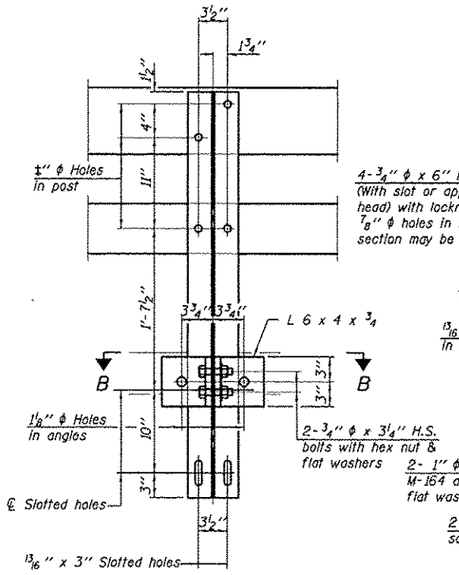
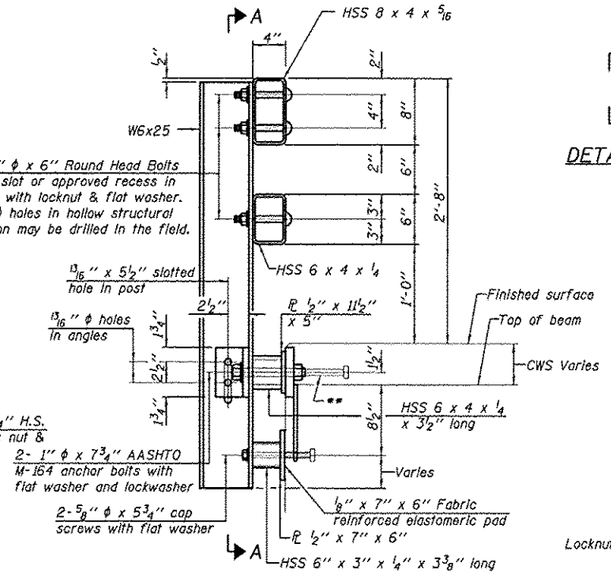
FAS ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
—	*	STEPHENSON	16	10

ILLINOIS PROJECT BROS-0177(044)

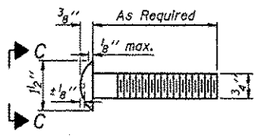
* 12-08122-00-BR
CONTRACT NO. 85590



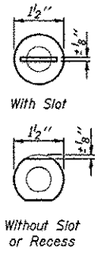
SECTION A-A



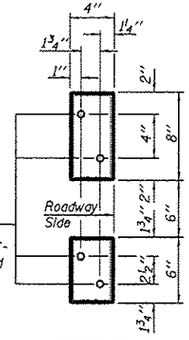
SECTION AT RAIL POST



DETAIL OF ¾" ϕ ROUND HEAD BOLT



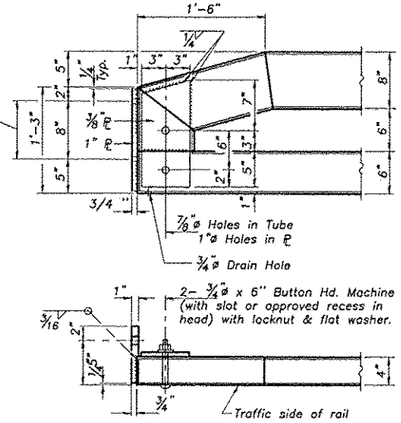
VIEW C-C

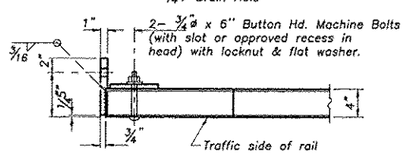


VIEW D-D

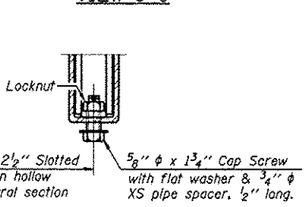
℄ -⅝" reduced base welded studs. Provide 4-⅝" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032 .

1 ø Holes for 1"ø x 4" Round Head Bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Std. 2340.

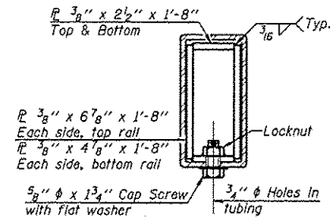




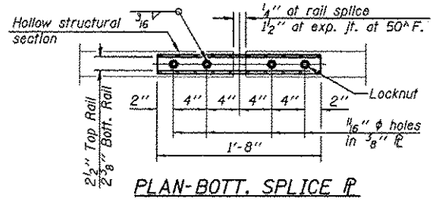
END OF RAIL DETAILS



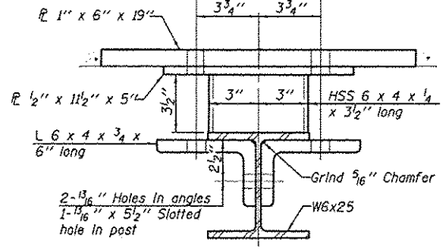
RAIL SPLICE CONNECTION AT EXPANSION JT.



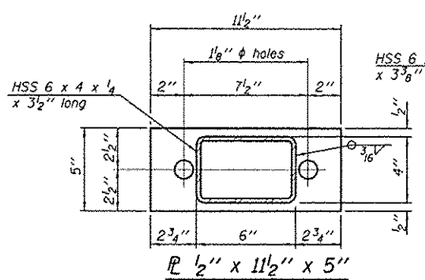
SECTION AT RAIL SPLICE

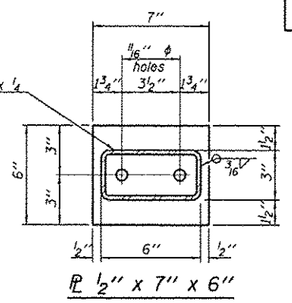


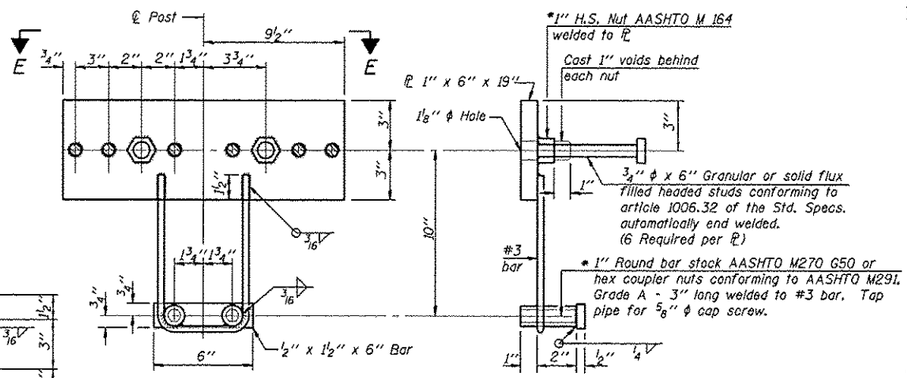
PLAN-BOTT. SPLICE PL TYPICAL



SECTION B-B

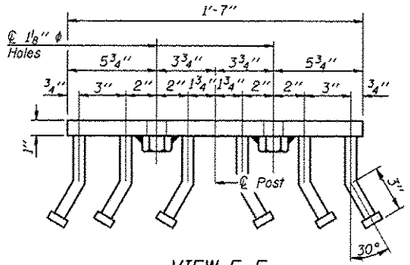






ANCHOR DEVICE

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



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.
Steel rail elements 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	146

S.N. 089-3287
TYPE SM RAIL DETAILS
SECTION 12-08122-00-BR
STEPHENSON COUNTY

R-34CWS 7-1-10 (6'-3" Maximum Post Spacing) (5" minimum to 7⅛" maximum CWS thickness)

SCALE: 1"ø

REVISIONS

REVISION	DATE

DESIGNED BY: DAB
DRAWN BY: BDS
CHECKED BY: SM-Rail
QUANTITIES BY: -
CHECKED BY: -

wendler
GROUNDBREAKING SOLUTIONS
engineers · surveyors · scientists
www.wendlergs.com ph: 815.288.2261
Illinois Professional Design Firm No. 184-000949

TYPE SM RAIL DETAILS OF WEST DAMEIER ROAD BRIDGE FOR STEPHENSON COUNTY

SHEET TITLE: RAIL

JOB NUMBER: 2120191

DATE: 4/01/2013

SHEET NO.: 10 of 16