93448

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	19
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

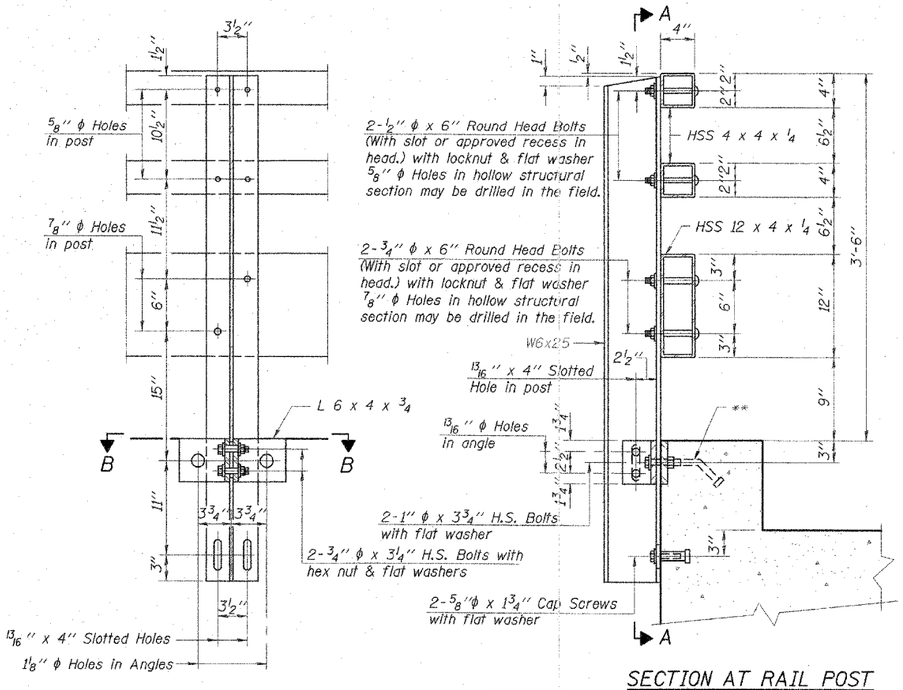
SHEET 5 OF 6

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

For multi-span bridges, sufficient $\frac{1}{4}$" x 6" x 1'-3$\frac{1}{2}$" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type TP-1.

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

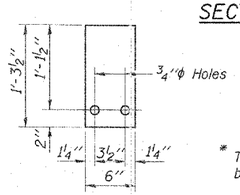
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



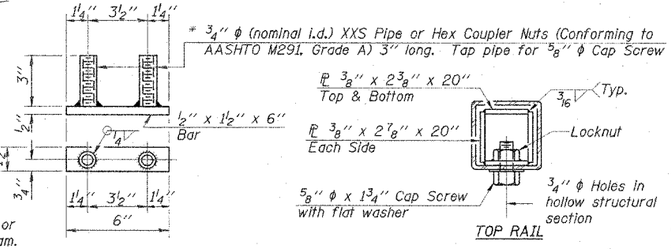
SECTION A-A

SECTION AT RAIL POST

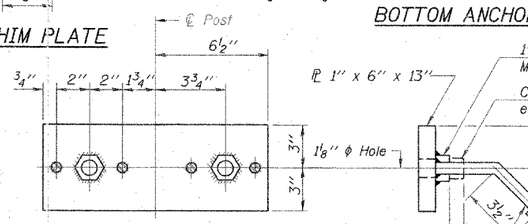
SECTION B-B



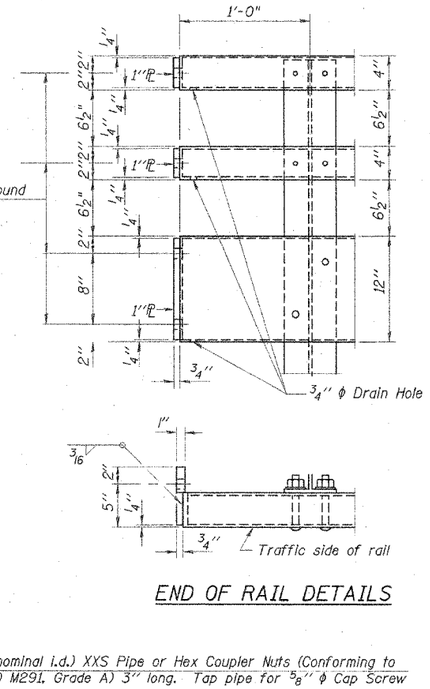
¼" SHIM PLATE



BOTTOM ANCHOR DEVICE

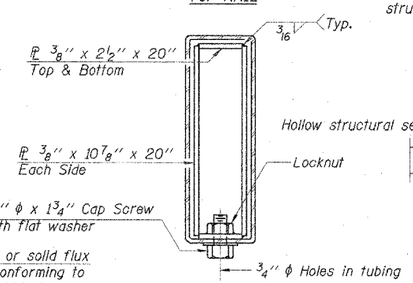


TOP ANCHOR DEVICE

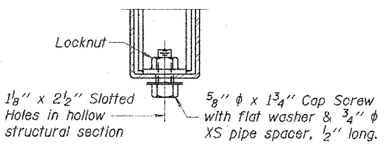


1⅛" ϕ Holes for 1" ϕ x 4" Round Head Bolts 2 flat washers & locknuts for guard rail connection.

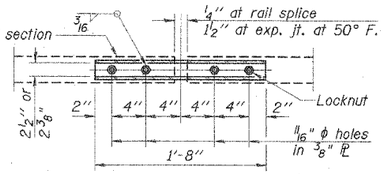
END OF RAIL DETAILS



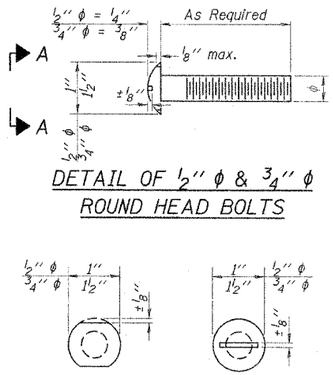
SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE PL TYPICAL



DETAIL OF ½" ϕ & ¾" ϕ ROUND HEAD BOLTS

VIEW A-A

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type TP-1 (Special)	Foot	40

REVISIONS NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE TP-1 (SPECIAL)
F.A. ROUTE 556 (EAST MAIN STREET)
EAST MAIN STREET OVER
BLACK BRANCH
SECTION 04-00119-03-BR STA. 1015+58.04
STR. NO. 084-8010 - SANGAMON COUNTY

SCALE: NONE DRAWN BY: GLD
DATE: 10/23/07 CHECKED BY: WK

L:\Sangamon\c\040290\Draw\sheets\STEEL RAILING TP-1.dgn
11/7/2007