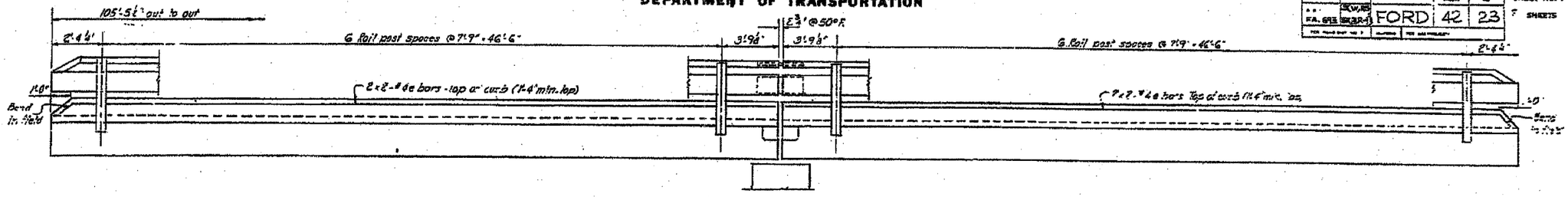
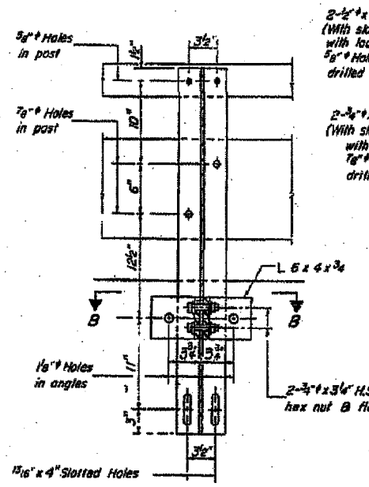
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				SHEET NO. 4
				OF SHEETS
FA. 615 (SBR-1)		FORD	42	23

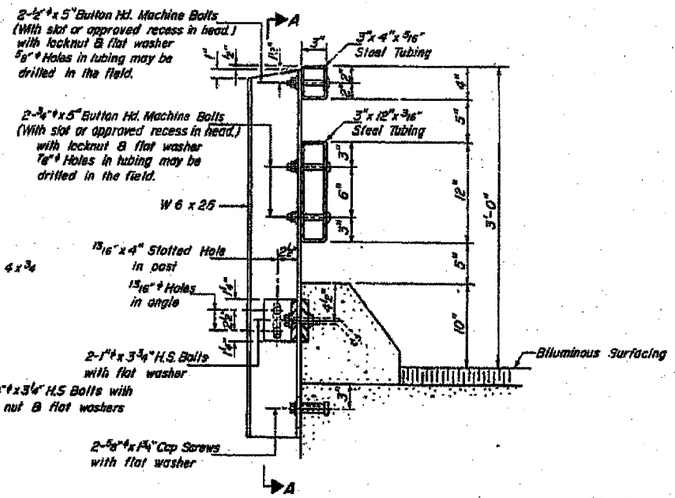


RAILING ELEVATION

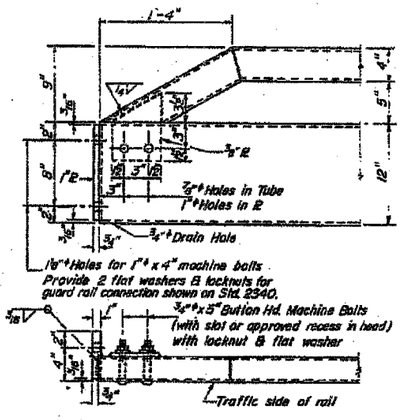
(Showing outside face)



SECTION A-A



SECTION AT RAIL POST



END OF RAIL DETAILS

NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO. M-183 except posts and angles shall conform to AASHTO. M-270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO. M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO. M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO. M-111 and A.S.T.M. A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE T.

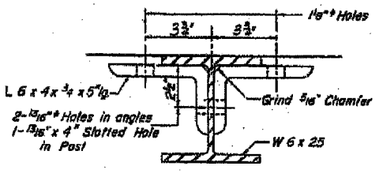
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ⅛" fabric bearing pad between the post and concrete.

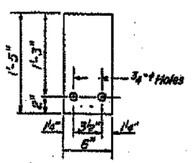
The ¾" ϕ high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 502.04(g)(3) of the Standard Specifications. The 1" ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ½ turn.

For multi-span bridges, sufficient ¼" x 6" x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.

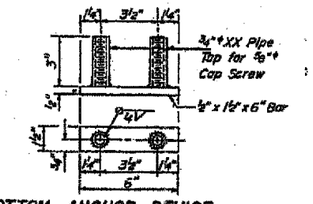
The ⅝" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.



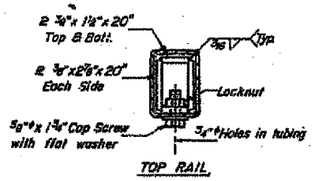
SECTION B-B



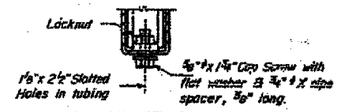
¼" SHIM PLATE



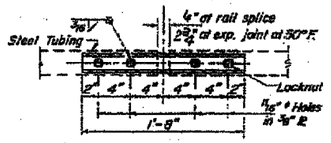
BOTTOM ANCHOR DEVICE



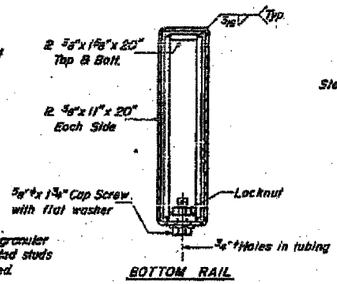
TOP RAIL



RAIL SPLICE CONNECTION AT EXPANSION JT. AT PIER

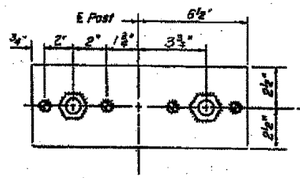


PLAN - BOTT. SPLICE ℓ TYPICAL

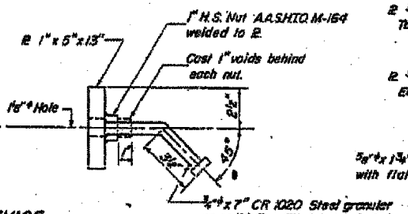


BOTTOM RAIL

SECTIONS AT RAIL SPLICE



TOP ANCHOR DEVICE



CURB & RAIL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	16	#4	27'-0"	
Reinforcement Bars		Lbs.	290	
Class X Concrete		Cu. Yds.	6.9	
Steel Railing, Type T		Lin. Ft.	216	

TYPE T
STEEL RAILING
F.A.P. 615 SEC. 19BR
FORD COUNTY
STA. 89+65.00

DESIGNED	Patrick M Petros
CHECKED	C.A. Holzman
DRAWN	Simon Nemeth
CHECKED	C.A.H.
EXAMINED	
PASSED	
APPROVED	

R-24 12-30-77 (9'-0" Maximum Post Spacing)