ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	111BR-1	GALLATIN	73	67
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
7 SHEETS

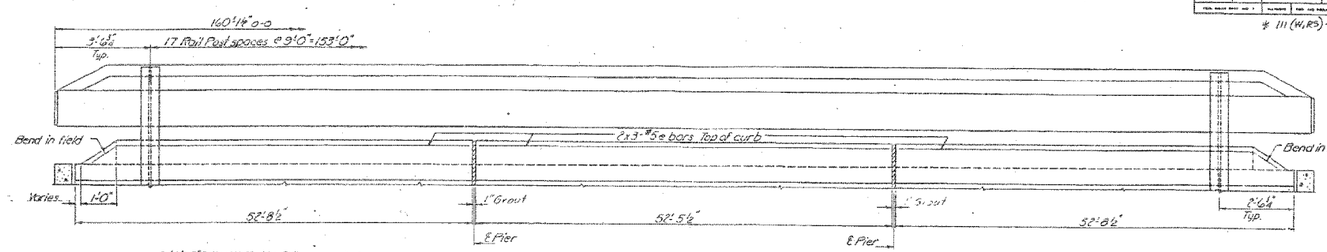
Contract #78034

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

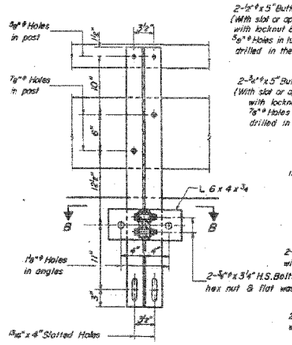
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 782	1R	GALLATIN	115	48

SHEET NO. 4
8 SHEETS

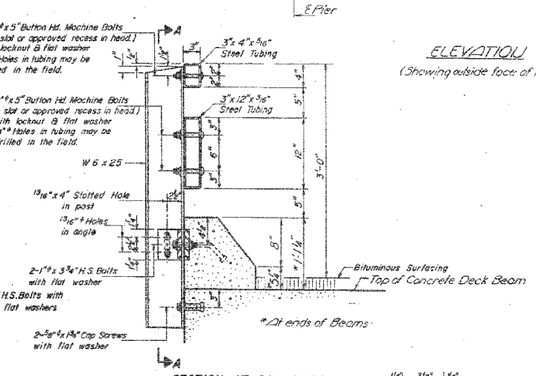
111(W,RS)-1, 1118-1



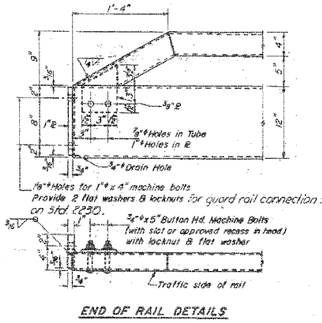
ELEVATION
(Showing outside face of railing)



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 designation M183, except posts shall conform to AASHTO M188

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 designation M 164.

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

All posts, railing, rail spaces, anchor services and angles shall be galvanized after shop fabrication in accordance with AASHTO designation M111 & ASTM A-385. Galvanized rail shall not be painted.

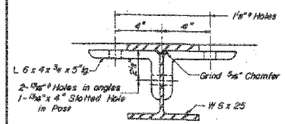
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE T.

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

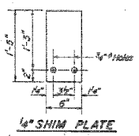
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ⅛" fabric bearing pad between the post and concrete.

The ¾" ø high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 505.04(g)(3) of the Standard Specifications. The 1" ø high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ⅓ turn.

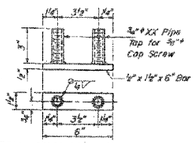
For multi-span bridges, sufficient ⅛" x 5" x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.



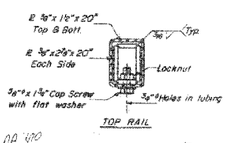
SECTION B-B



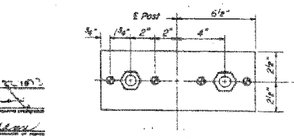
⅛" SHIM PLATE



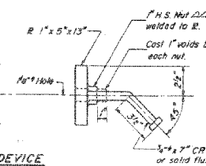
BOTTOM ANCHOR DEVICE

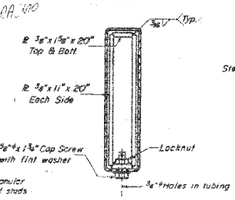


TOP RAIL

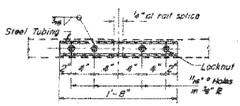


TOP ANCHOR DEVICE





SECTIONS AT RAIL SPLICE



PLAN-BOTT SPLICE 2 TYPICAL

CURB & RAIL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	36	#5	18'-8"	
Reinforcement Bars			Lbs.	690
Steel Railing, Type T			Lin. Ft.	320

TYPE T
STEEL RAILING
F.A. RT. 782 SEC. 111B-1
GALLATIN COUNTY
STA. 355+95.00

DESIGNED	J. M. Patel
CHECKED	J.D.
DRAWN	
CHECKED	

EXAMINED
PASSED
APPROVED

R-24 12-10-71 (9'-0" Maximum Post Spacing)

EXISTING STRUCTURE PLANS
F.A. RTE. 782 SECTION 111BR-1
GALLATIN COUNTY
STATION 355+95.00
STRUCTURE NO. 030-0018

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

PROJECT NO. 07056-4
SCALE
DATE / /
DRAWN BY
CHECKED BY

PLOT DATE = 04/17/2008
FILE NAME = c:\bxs-structure\bxs-structure4.dgn
PLOT SCALE = 1.0000 '/ IN.
USER NAME = CFC.