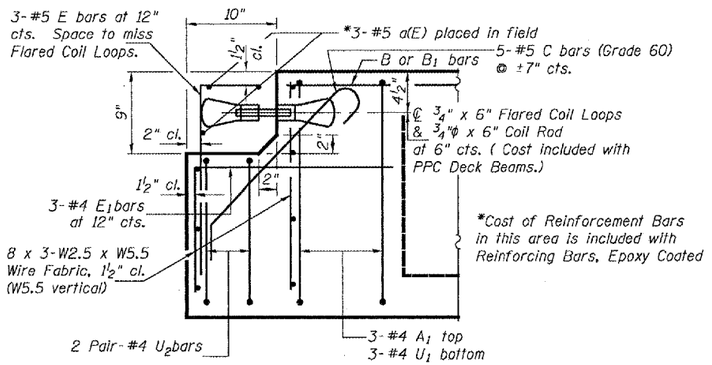
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Gallatin	7	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

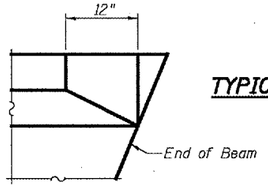
SHEET NO. 3
3 SHEETS

Contract Number: ---

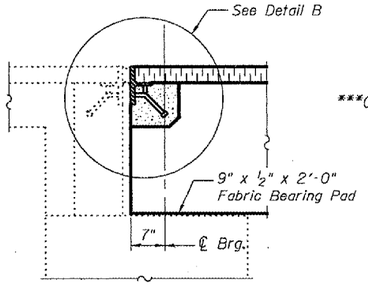


END OF BEAM (EXP. END)

(Dimensions at Rt. L's)



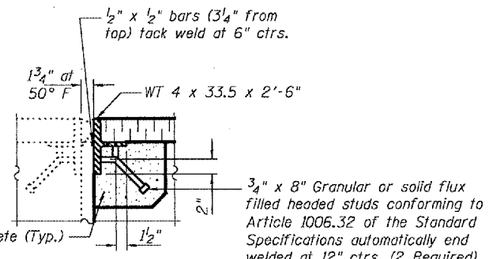
TYPICAL END OF CURB



TYPICAL SECTION AT ABUTMENT

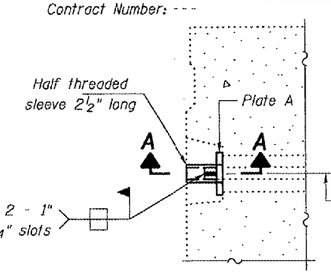
(Dimensions at Rt. L's)

**1" joint shall be filled with non-shrink grout. This dimension may vary plus or minus to accomodate tolerance in beam lengths.

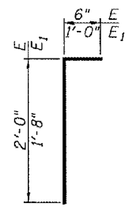


DETAIL B

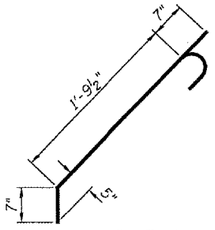
Existing 2½" P.J.S. to be removed and re-installed.
***Cost included with Concrete Superstructure.



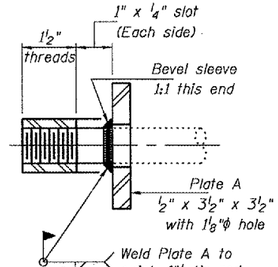
DETAIL A

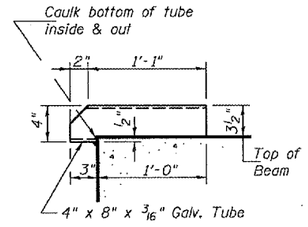


BAR E AND E1

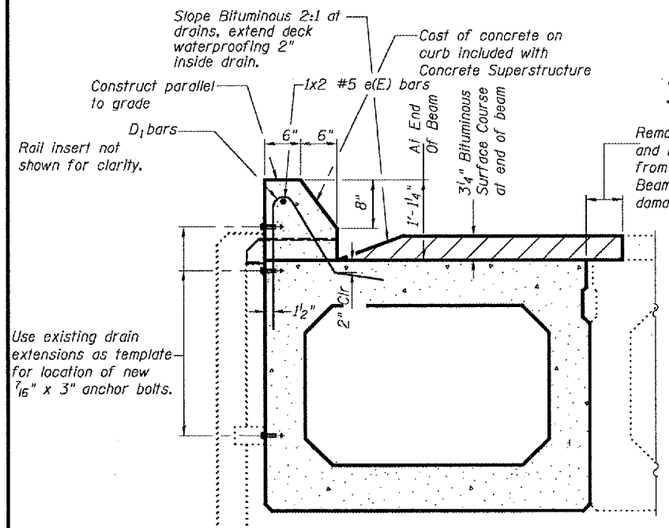


BAR C

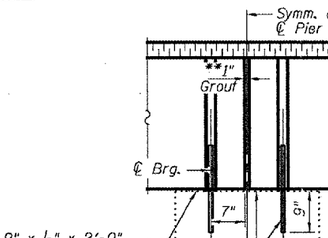




DRAIN DETAIL



TYPICAL SECTION THRU CURB



*****1" ϕ x 2'-6" dowel rods in 1½" ϕ holes drilled in cap (2 Each Beam)

TYPICAL SECTION AT PIER

(Dimensions at Rt. L's)

*****Existing Dowel Rods shall be cut off and ground flush with the top of the existing concrete. Cost to be included in the cost of Removal of Existing P.P.C. Deck Beams. New Dowel Rods shall be grouted after beams are in place and allowed to cure a Minimum of 24 hours prior to grouting shear keys.

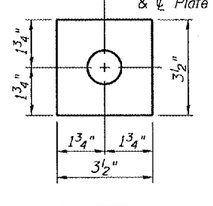
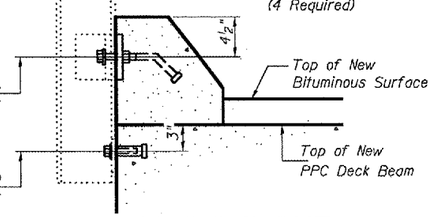


PLATE A

(4 Required)



SECTION AT RAIL POST

SECTION A-A

(4 Required)

NOTES

All steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM 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 according to AASHTO M 232.

All anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II 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 according to Article 505.04(f)(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 ⅛ turn. The ⅝"ϕ cap screws in bottom of posts shall be tightened to a snug fit only.

Cost of the anchorage devices is included with the cost of Precast Prestressed Concrete Deck Beams (27" Depth).

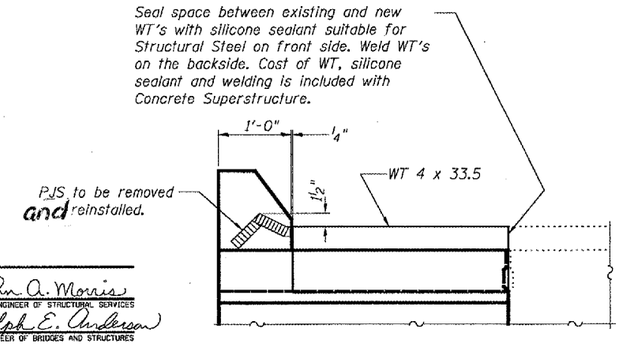
PRE-FINAL

DATE: 02/23/2005

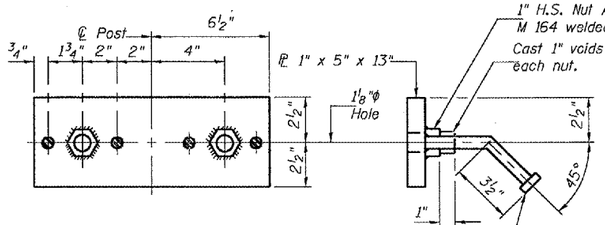
DESIGNED	V.H.V.
CHECKED	S.J.B.
DRAWN	Drew Christopher
CHECKED	V.H.V. S.J.B.

EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Seal space between existing and new WT's with silicone sealant suitable for Structural Steel on front side. Weld WT's on the backside. Cost of WT, silicone sealant and welding is included with Concrete Superstructure.

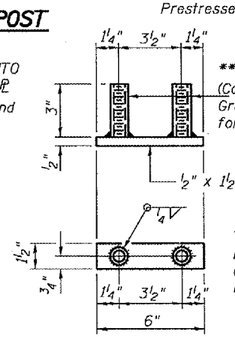


END OF SEAL TREATMENT



¾"ϕ x 7" Granular or solid flux filled headed studs conforming to Article 1006.32 of the Standard Specification automatically end welded. 4 required per plate.

TOP ANCHOR DEVICE



**** ¾"ϕ XX Pipe or Hex Nuts (Conforming to ASTM: A 563, Grade A) 3" Long. Tap pipe for ⅝"ϕ Cap Screw

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

BOTTOM ANCHOR DEVICE

The removal and re-erecting of the existing railing shall be according to Section 509 and 533 of the Standard Specifications. The cost of removing and re-erecting the existing railing and post with all applicable new hardware shall be included in the cost of Removing and Re-erecting Existing Railing. The work shall be paid for at the contract unit price per foot for Removing and Re-erecting Existing Railing.

BEAM DETAILS
F.A. RT. 782
GALLATIN COUNTY
SN 030-0018