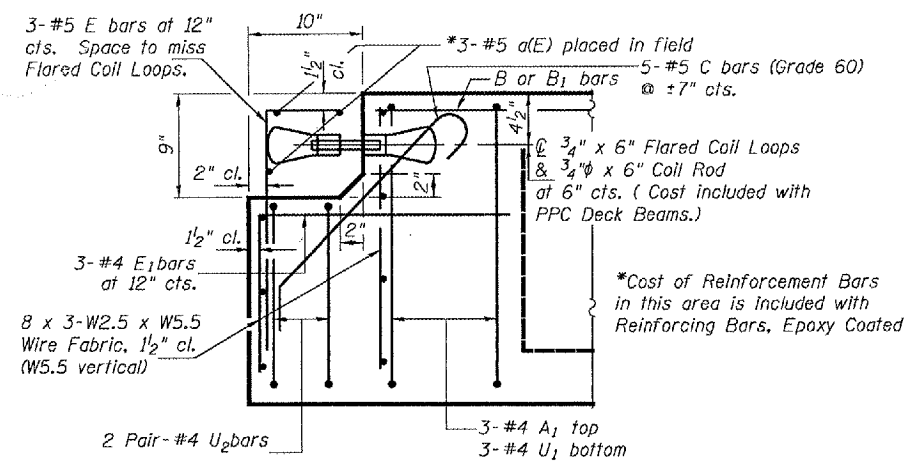
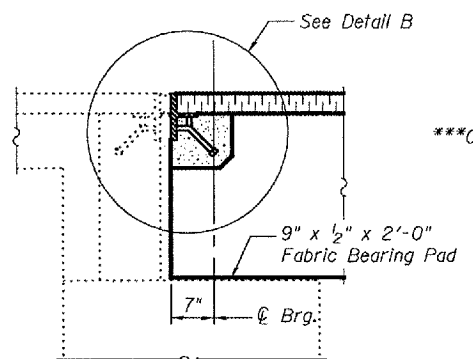


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

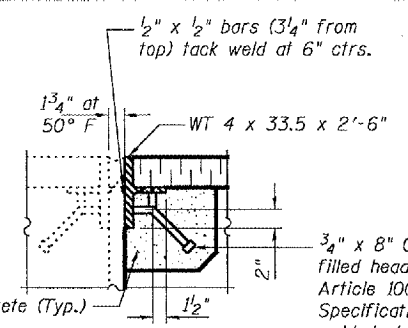
ROUTE NO.	SECTION	COUNTY	LETT.	SHEET
		Gallatin	76	3
SHEET NO. 3				
3 SHEETS				
Contract Number: 98920				



**END OF BEAM (EXP. END)**  
(Dimensions at Rt. L's)

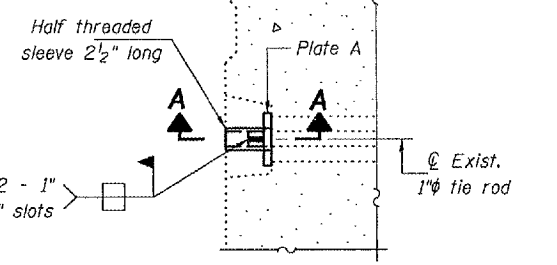


**TYPICAL SECTION AT ABUTMENT**  
(Dimensions at Rt. L's)

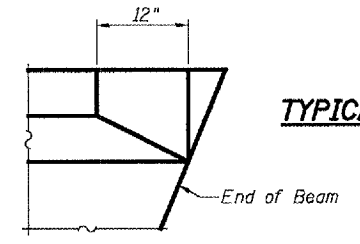


**DETAIL B**

Existing 2 1/2 inch P.J.S. to be removed and re-installed.  
\*\*\*Cost included with Concrete Superstructure.

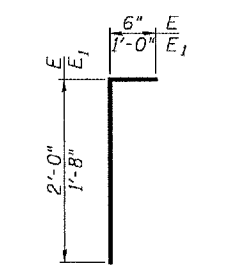


**DETAIL A**

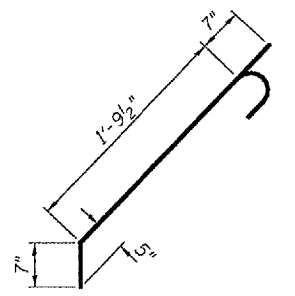


**TYPICAL END OF CURB**

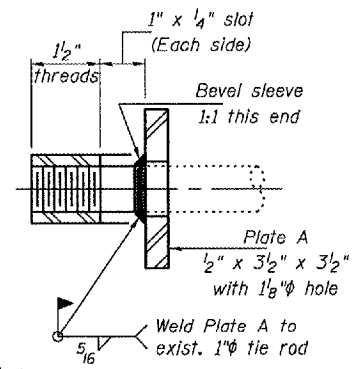
\*\*\*1 inch joint shall be filled with non-shrink grout. This dimension may vary plus or minus to accommodate tolerance in beam lengths.



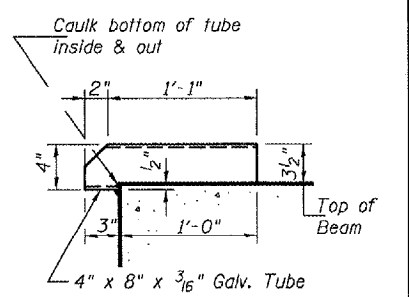
**BAR E AND E1**



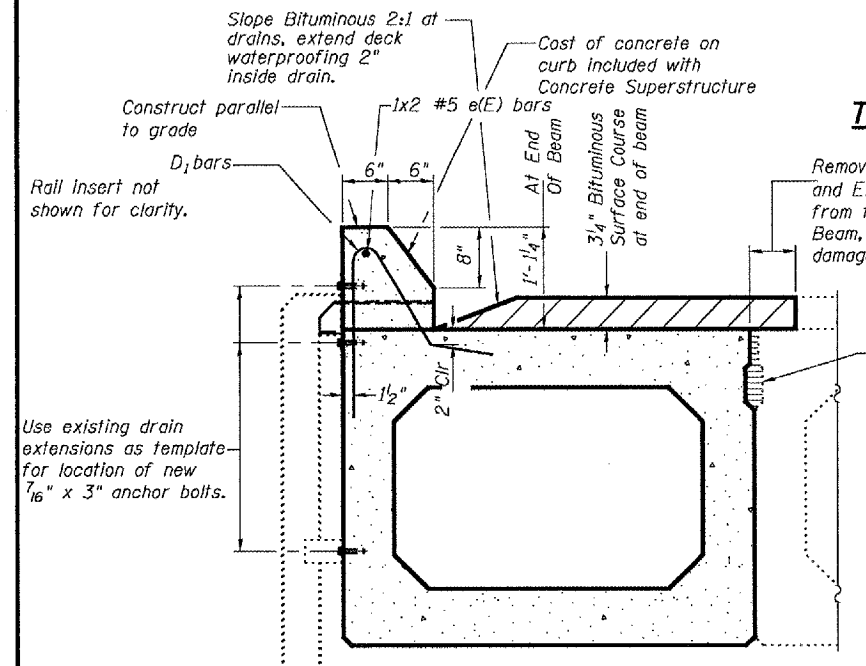
**BAR C**



**SECTION A-A**  
(4 Required)



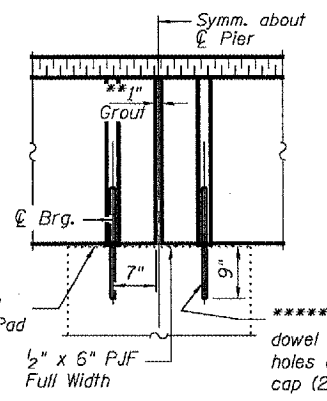
**DRAIN DETAIL**



**TYPICAL SECTION THRU CURB**

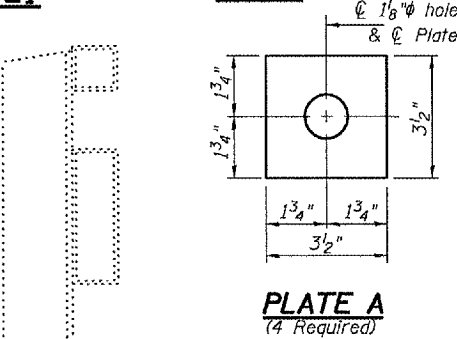
Use existing drain extensions as template for location of new 7/16 inch x 3 inch anchor bolts.

Remove Bit. Overlay and Expansion Joints 6 inches from the Edge of the Exist. Beam, being careful not to damage the remaining joint.

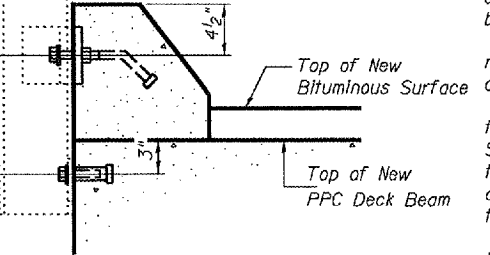


**TYPICAL SECTION AT PIER**  
(Dimensions at Rt. L's)

\*\*\*\*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.

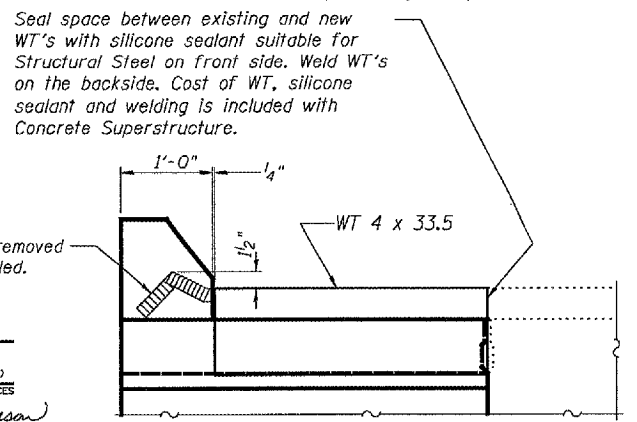


**PLATE A**  
(4 Required)

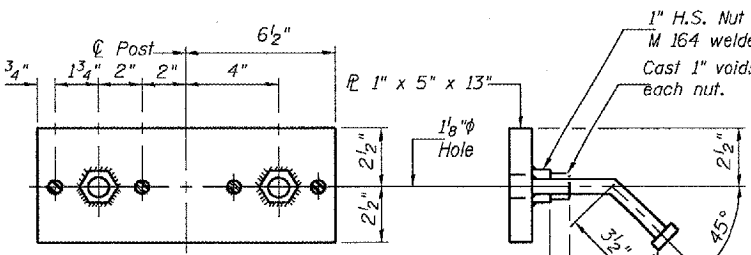


**SECTION AT RAIL POST**

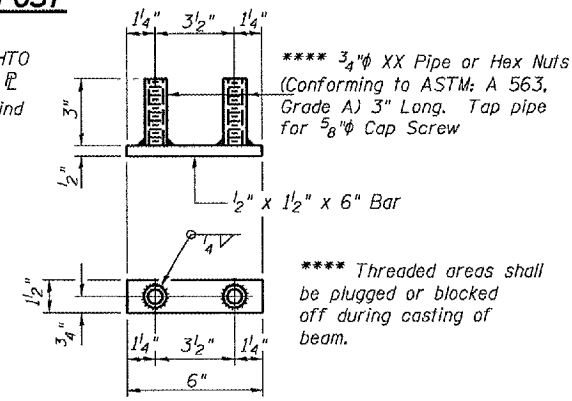
**NOTES**  
All steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.  
Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers 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 1/8 inch fabric bearing pad between the post and concrete.  
The 3/4 inch high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(3) of the Standard Specifications. The 1 inch high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8 inch 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 inch Depth).



**END OF SEAL TREATMENT**



**TOP ANCHOR DEVICE**



**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**

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

April 11, 2005  
EXAMINED John A. Morris  
ENGINEER OF STRUCTURAL SERVICES  
PASSED Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES