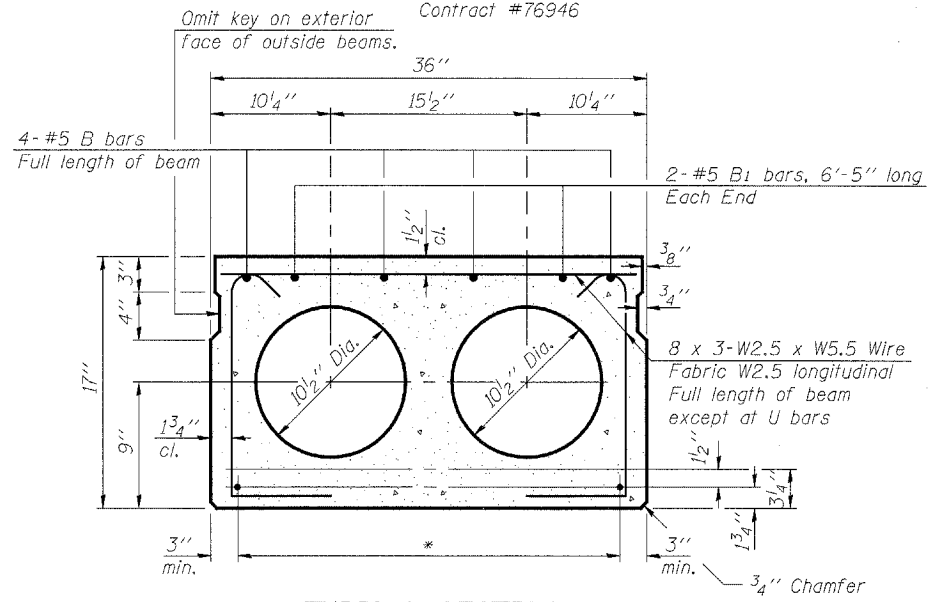
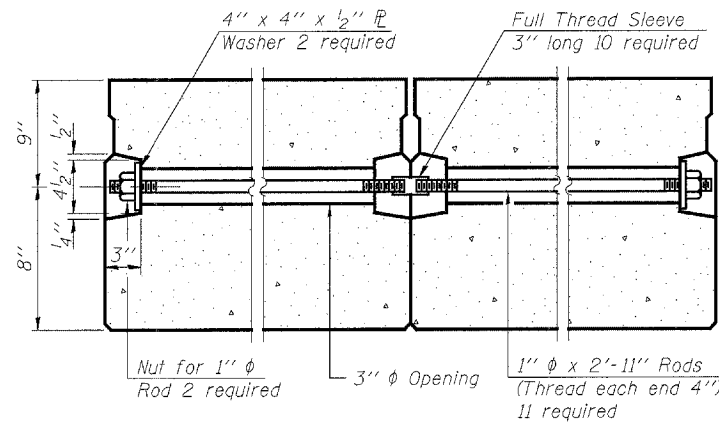
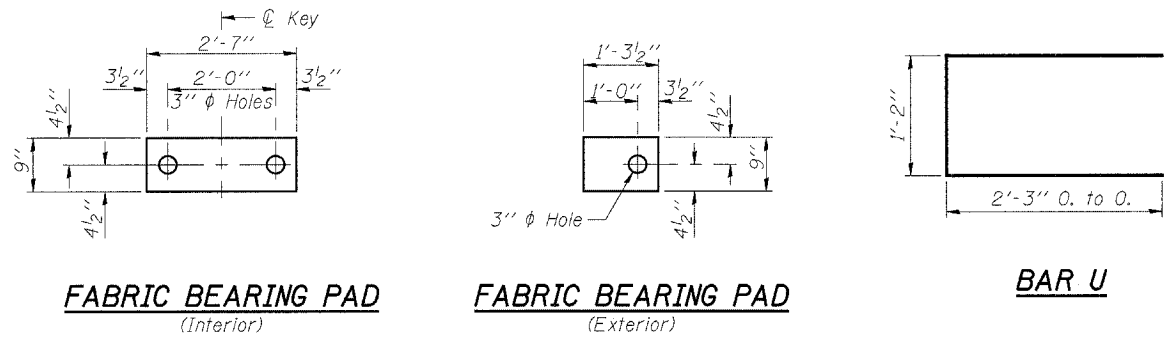


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

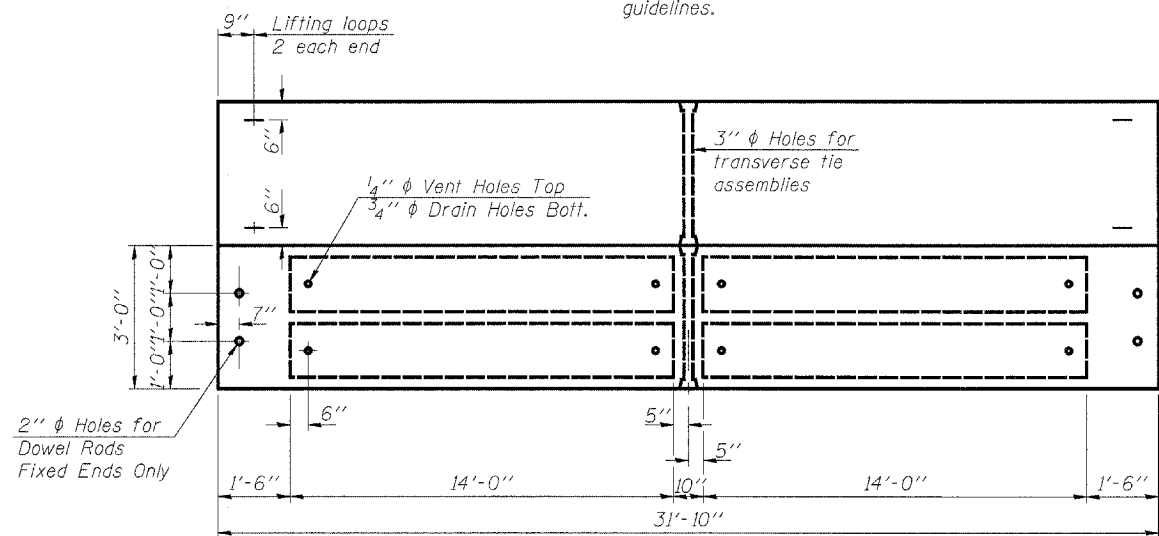
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 9 SHEETS
F.A.P. 817	8BR-2, 8BR-3	WASHINGTON	52	47	
FED. ROAD DIST. NO. 7	DATE	FED. AID PROJECT	Contract #76946		



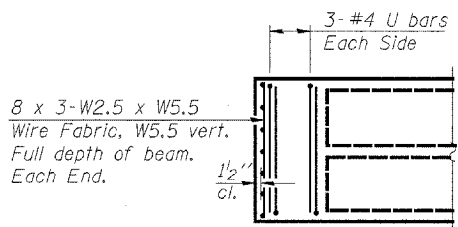
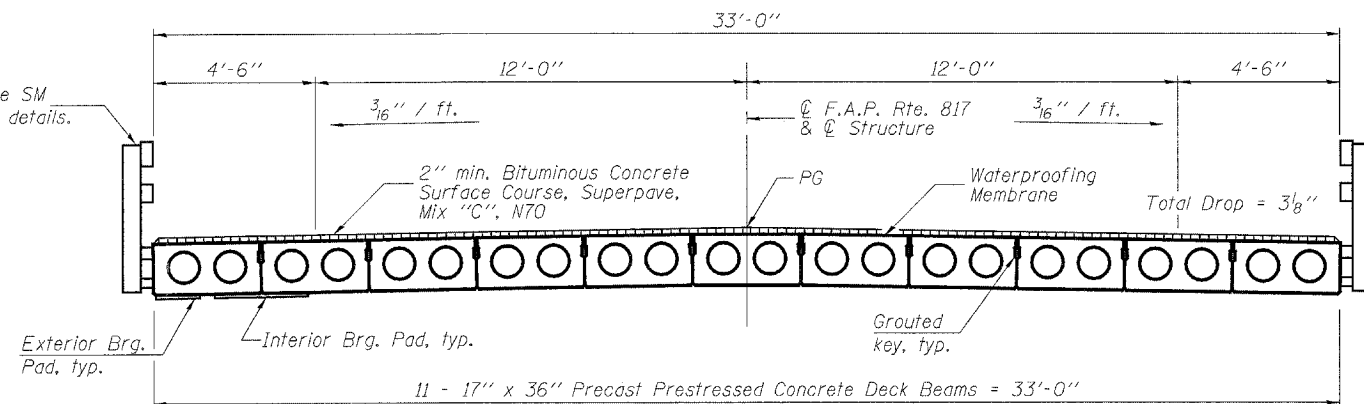
*Transverse Strand Placement Guidelines

1. Place strands symmetrically about centerline of beam.
2. The minimum distance from center to center of strands in all directions shall be 2".
3. The minimum clearance from strand to dowel hole shall be 1/2".
4. The minimum clearance from strand to void shall be 1/2".

Vertical placement of strands shall not be adjusted to satisfy the above guidelines.

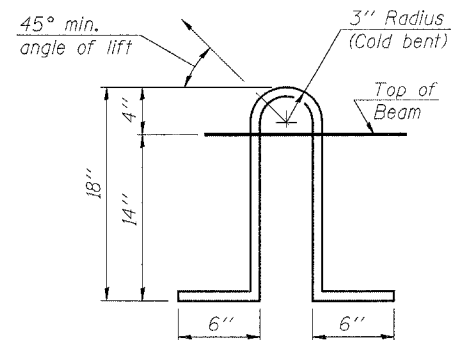


Steel Bridge Rail, Type SM
See sheet 4 of 9 for details.



END PLAN

PLAN



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2" phi - 270 ksi strands, as shown. The 1" phi rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. See sheet 3 of 9 for Wing Type Threaded Insert location and spacing. See sheet 4 of 9 for rail anchor device to be cast in precast beams. See sheet 6 of 9 for spacing of rail post. See sheet 6 of 9 for Shear Key Clamping Details at Stage Const. Jt.

BILL OF MATERIAL

Item	Unit	Total
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1051

SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 817 - SECTION 8BR-3
WASHINGTON COUNTY
STATION 36+12.71
STRUCTURE NO. 095-0011

DESIGNED	EML
CHECKED	NJM
DRAWN	EML
CHECKED	NJM

HORNER & SHIFRIN, INC.
ENGINEERS ■ ARCHITECTS ■ PLANNERS