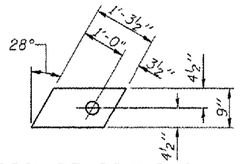
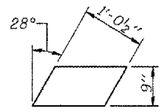
CONTRACT NO. 68456

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(45BR)I	PEORIA	82	47
STA.	TO STA.			
		FED. AID PROJECT		

SHEET NO. 5 OF 12 SHEETS

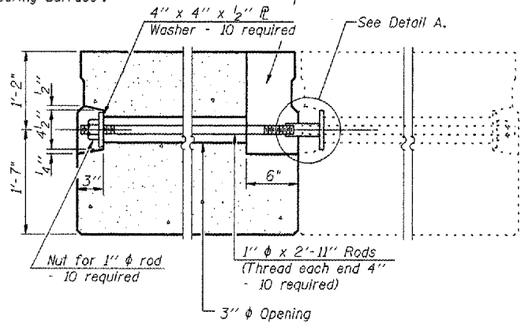


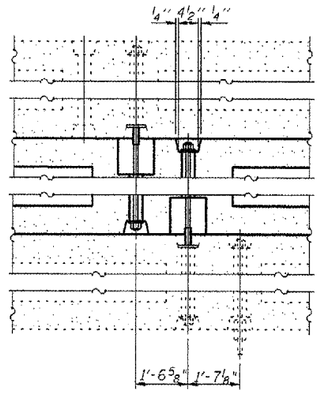
FABRIC BEARING PAD
(6 Required)
FIXED
(At Piers)



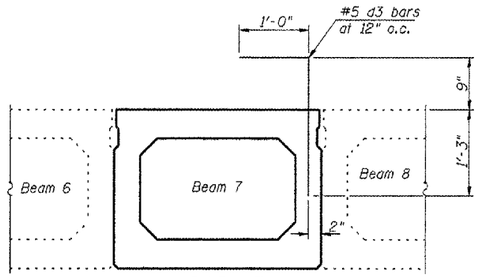
FABRIC BEARING PAD
(6 Required)
EXPANSION
(At Abutments)

6" x 6" x 1'-4½" Blockout to be filled with Class BD Concrete after Beams have been installed. Cost shall be included in the cost of "Concrete Wearing Surface".

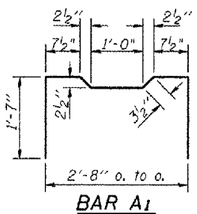




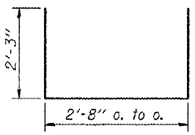
TYPICAL TRANSVERSE TIE ASSEMBLY



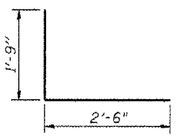
BAR d3
(Beam 7 only)



BAR A1



BARS U & U1



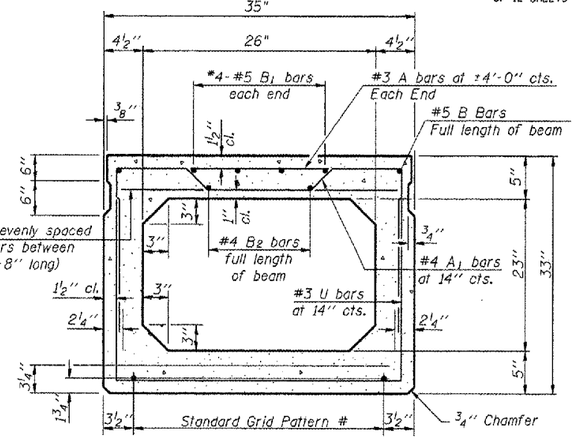
BAR D

TRANSVERSE 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 ½".
4. The minimum clearance from strand to void shall be ½".

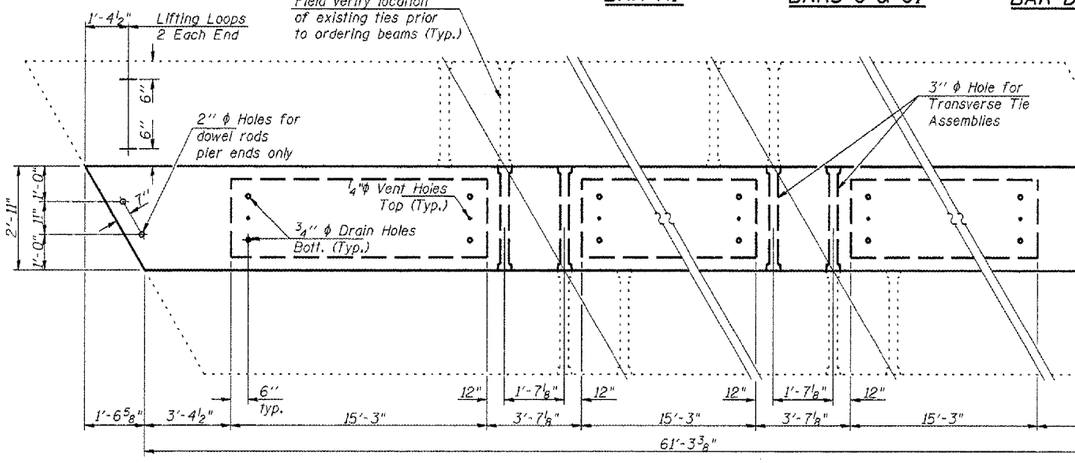
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.

*0.2 x Length of beam



TYPICAL SECTION

13 - ½" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
9 - Strands 1¾" up, 4 - Strands 3¼" up



PLAN
(Span 1, Beams 3 & 8)
(Span 3, Beam 7)

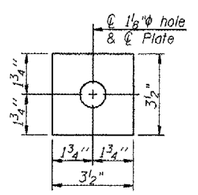
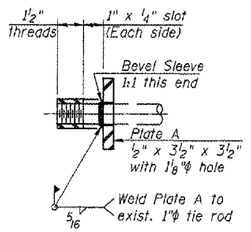
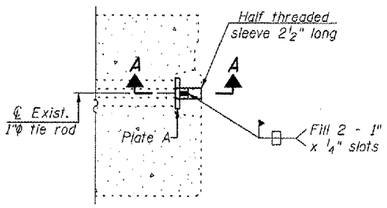


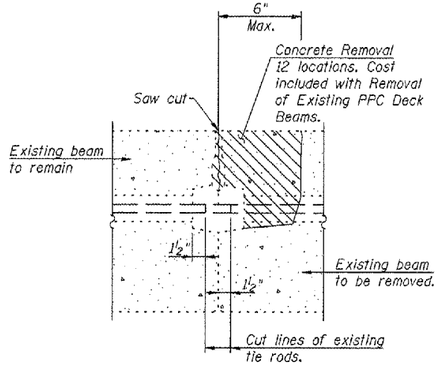
PLATE A
(10 Required)



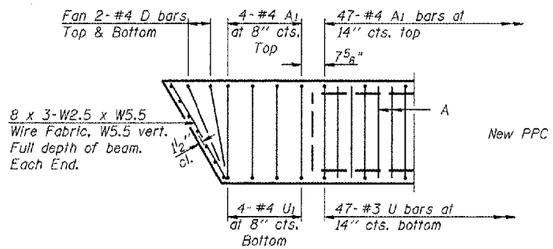
SECTION A-A



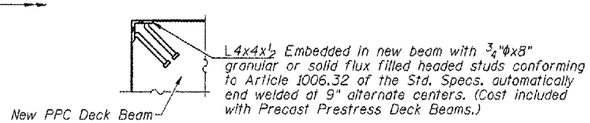
DETAIL A



BEAM REMOVAL DETAIL AT TRANSVERSE TIES



END PLAN



SECTION THRU END OF BEAM AT ABUTMENT
(Beam 3 only)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - ½" ϕ-270 ksi strands, as shown.

The 1" ϕ 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 ⅛" fabric adjusting shims of the dimensions shown 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, according to Articles 1020.05(b)(12) of the Standard Specifications. shall be used in the concrete for precast prestressed concrete deck beams.

Required Release Strength, f'ci, shall be 4000 p.s.i.

Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

For lifting loop detail see Sheet 6 of 12.

BILL OF MATERIAL - SPAN 1 (BEAMS 3 & 8) & SPAN 3 (BEAM 7)

Precast Prestressed Conc. Deck Bms. (33" Depth)	Sq. Ft.	537

BEAM DETAILS - SPAN 1 (BEAMS 3 & 8) & SPAN 3 (BEAM 7)
U.S. RTE. 24 / IL RTE. 9
OVER LAMARSH CREEK
F.A.P. RTE. 317 - SECTION (45BR)I
PEORIA COUNTY
STA. 337+87.67
S.N. 072-0010

PLOT DATE = #DATE#
FILE NAME = #FILE1#