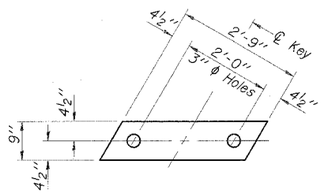
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 697	17BR	FORD	40	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

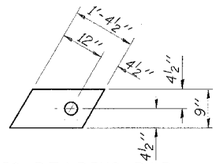
DWG. NO. 4 OF 15

CONTRACT NO. 66604

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

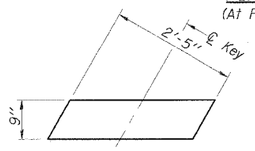


FABRIC BEARING PAD
Interior

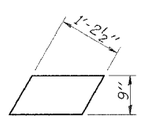


FABRIC BEARING PAD
Exterior

FIXED
(At Piers)

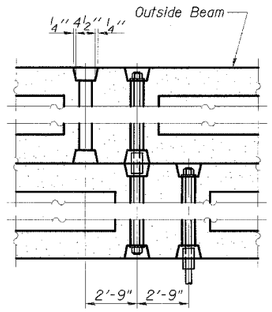


FABRIC BEARING PAD
Interior

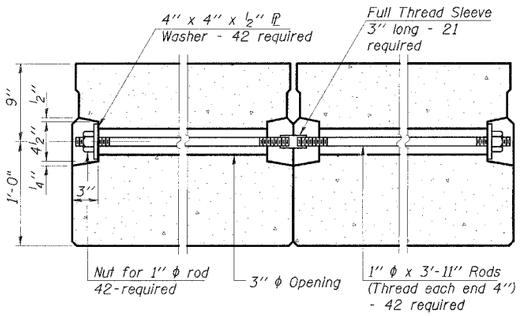


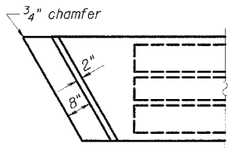
FABRIC BEARING PAD
Exterior

EXPANSION
(At Abutments)

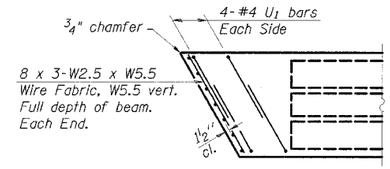


TYPICAL TRANSVERSE TIE ASSEMBLY



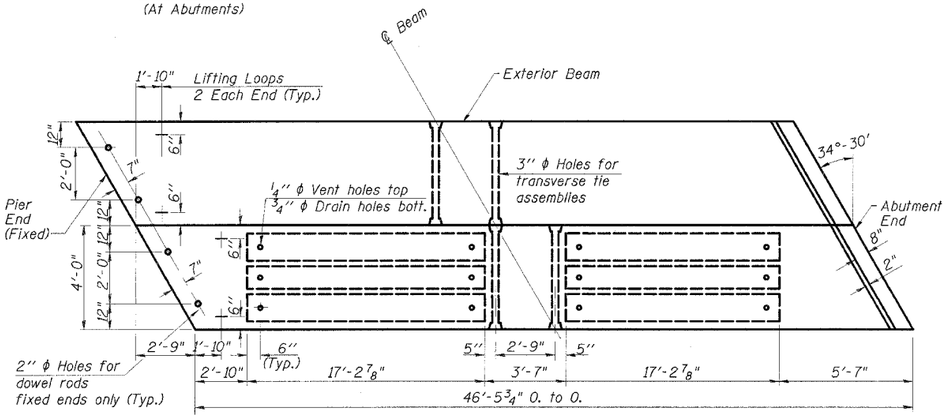


AT EXPANSION END
(See End of Beam detail on Dwg. 5 of 15 for reinforcement)

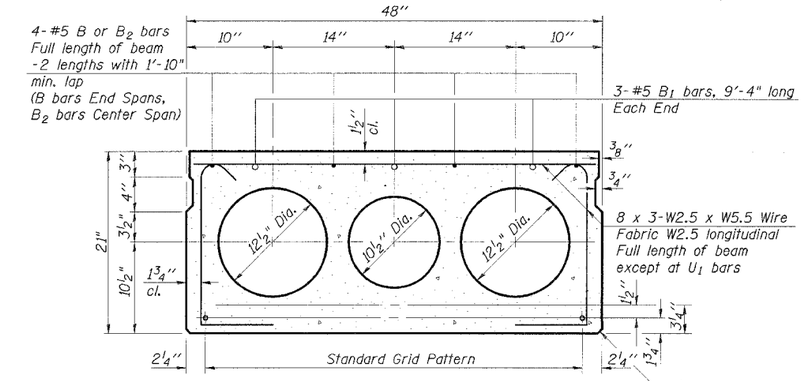


AT FIXED END

END PLANS

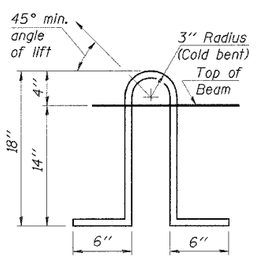


PLAN



TYPICAL SECTION-INTERIOR BEAMS
17-½" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
8-Strands 1¾" up, 7-Strands 3¼" up,
2-Strands 6" up

Notes:
1. Place strands symmetrically about ℄ of beam.
2. See Dwg. 5 of 15 for fascia beam details.



LIFTING LOOP DETAIL

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 3 - 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.

Non prestressing steel shall conform to AASHTO M-31 or M322 Grade 60.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

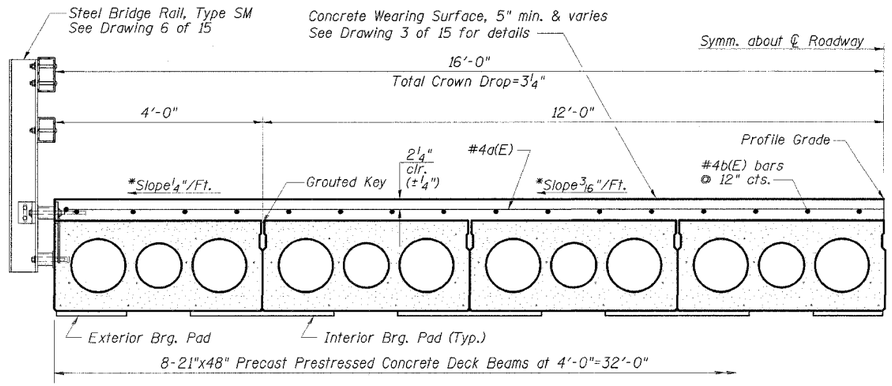
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

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 Drawing 2 of 15 for location of rail anchors and additional notes.

Bridge rail inserts shall be cast in precast beams, and the cost shall be included with Precast Prestressed Concrete Deck Beams.



*Cross slopes shown are applicable to Concrete Wearing Surface.

HALF CROSS SECTION

ESCA CONSULTANTS, INC.		
DESIGNED BY:	ELH	5/05
DRAWN BY:	CJG	5/05
CHECKED BY:	ELH	10/05
APPROVED BY:	RDP	10/05

SUPERSTRUCTURE DETAILS
IL 9 OVER BIG FOUR DITCH
FAP ROUTE 697-SECTION 17BR
FORD COUNTY
STATION 923+87.00
STRUCTURE NO. 027-0068