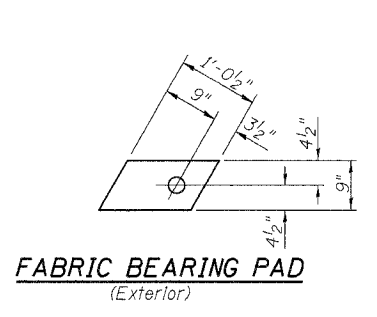
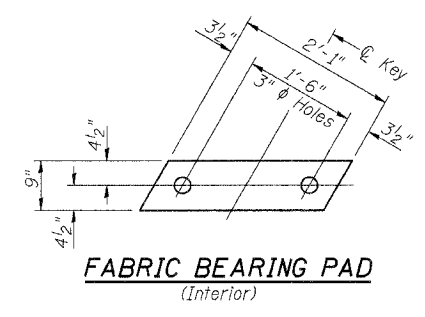
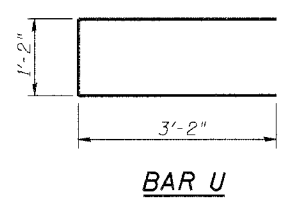


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 22	04-15109-00-BR	MARION	10	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 95430				

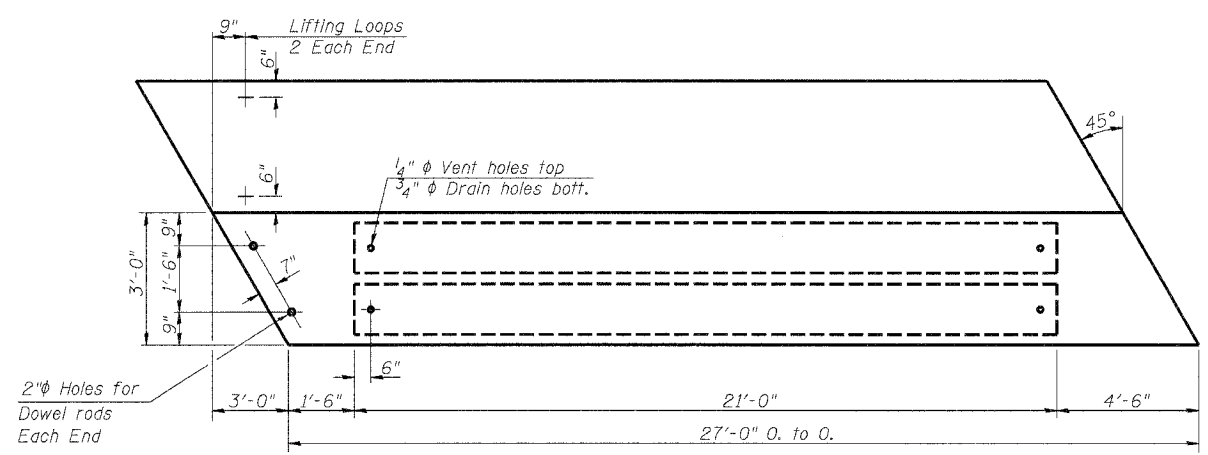


FABRIC BEARING PAD
(Interior)

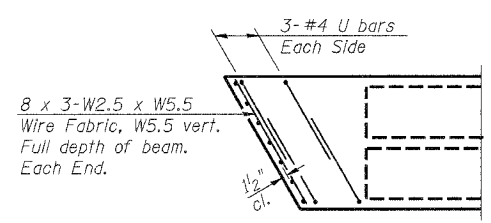
FABRIC BEARING PAD
(Exterior)



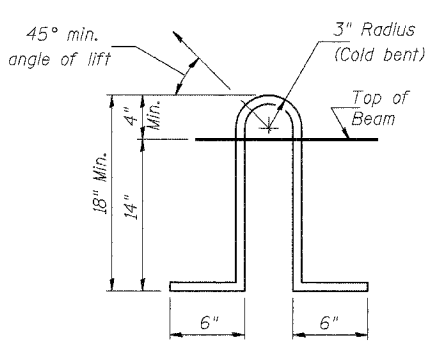
BAR U



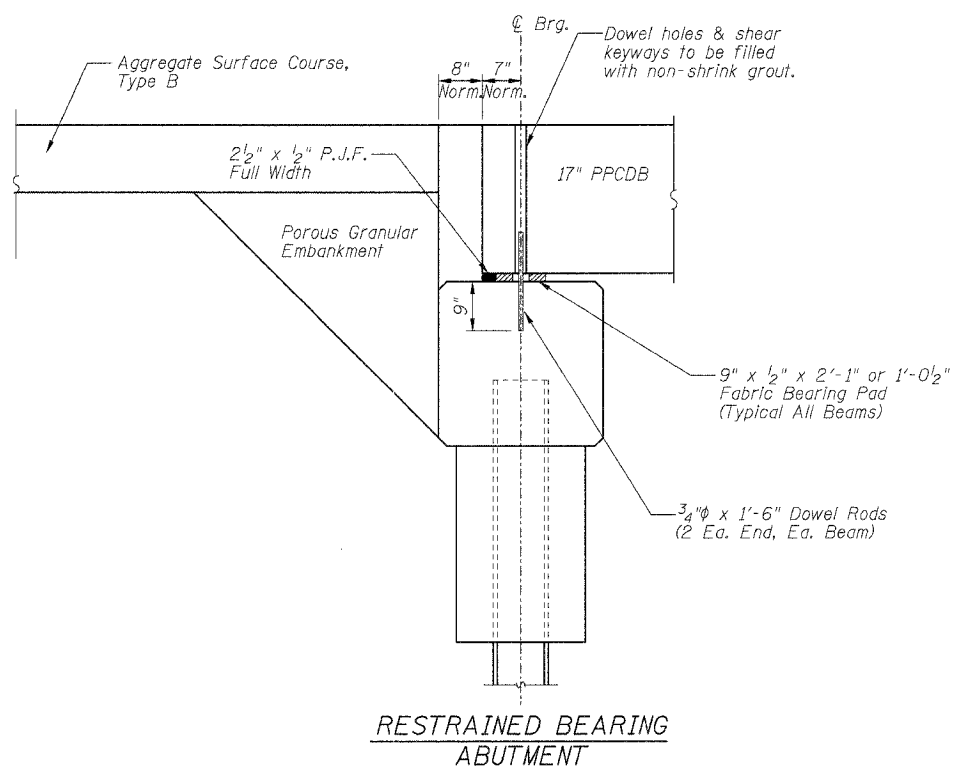
PLAN



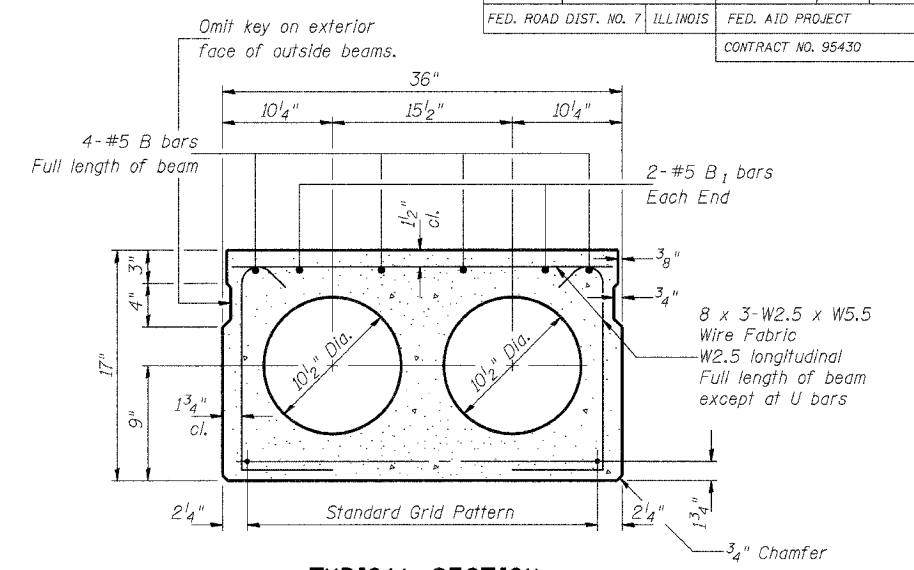
END PLAN



LIFTING LOOP DETAIL

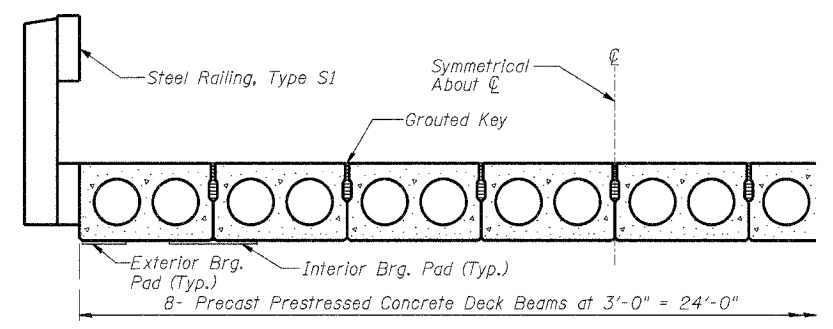


RESTRAINED BEARING ABUTMENT



TYPICAL SECTION

6-1/2" Strands, Each Strand Stressed to 28,900 Lbs.
6-Strands 1 3/4" up
Note: Place strands symmetrically about centerline of beam.



HALF CROSS SECTION

BILL OF MATERIAL FOR ONE BEAM

Bar	No.	Size	Length	Shape
B	4	#5	26'-8"	—
B ₁	4	#5	5'-6"	—
U	12	#4	7'-6"	□
Precast Prestressed Conc. Deck Bms.		Sq. Ft.	81	
Reinforcement Bars		Pound	190	
Total Weight Each Beam		Pound	13400	

SPAN 1 OR 3

**PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
PROPOSED BRIDGE CARRYING
TR 22 OVER LOST CREEK
SECTION 04-15109-00-BR
MARION COUNTY, ILLINOIS**

NOTES

Prestressing steel shall be uncoated high strength, stress-relieved 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 3 - 1/2" diameter - 270 ksi strands, as shown.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

The bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required, 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.

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

An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted. However, all strands shall be stressed to a maximum of 28,900 pounds per strand.

03/15/2005