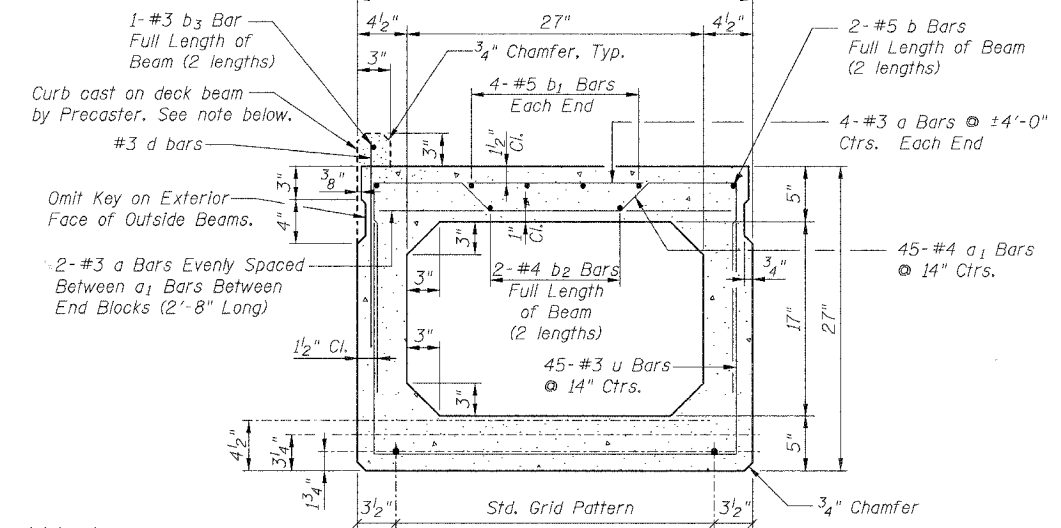
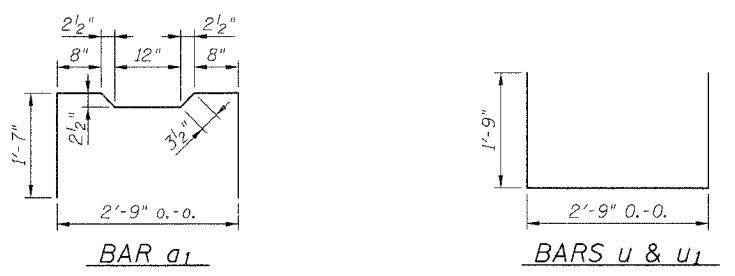
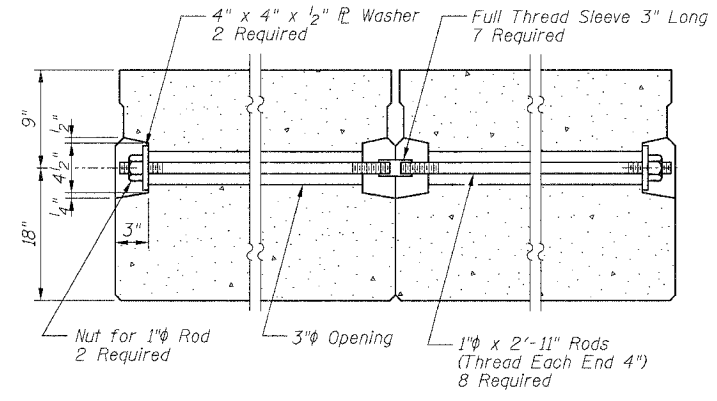
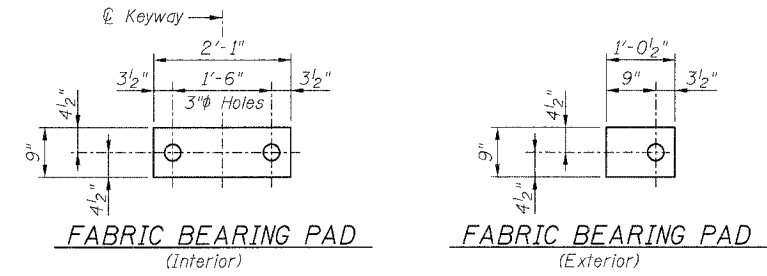
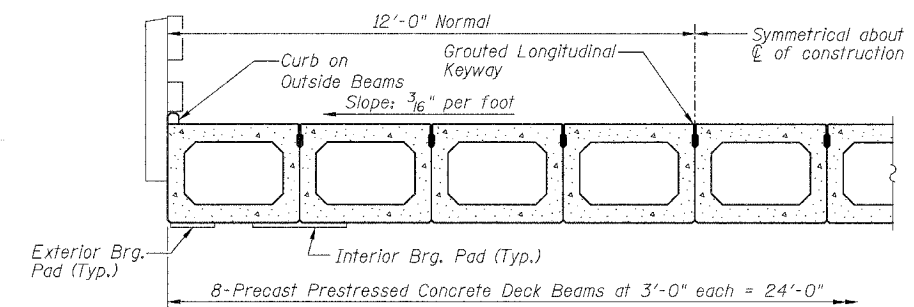
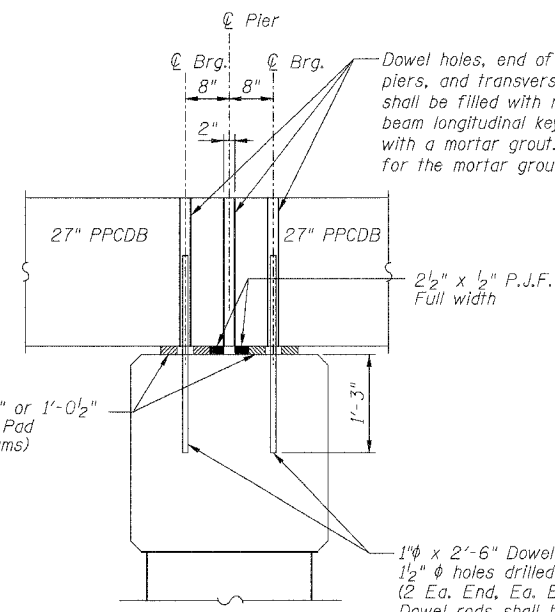
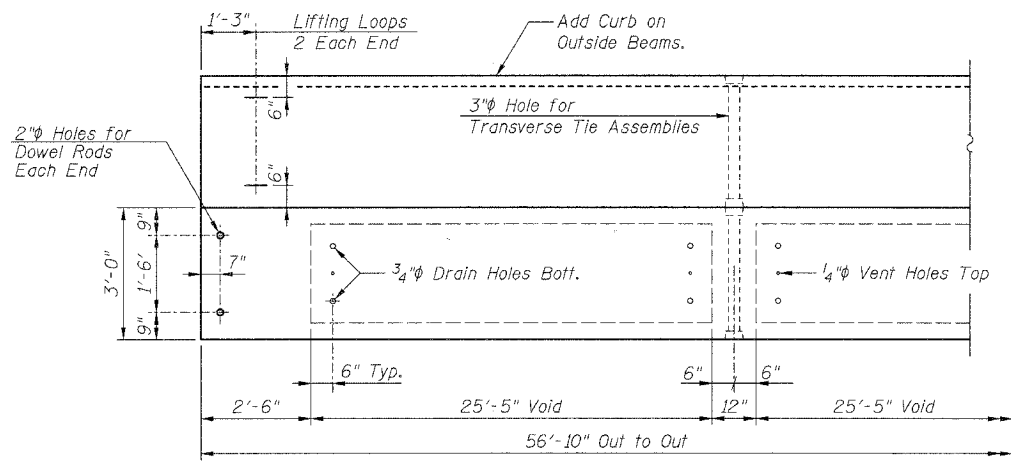


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	96-10120-01-BR	CLAY	13	10
FED. ROAD DIST. NO. 7	ILLINOIS	FEDERAL AID PROJECT		
CONTRACT NO. 95514				

Note:
Cast curb on outside beams of Span 2 only. Cost included in cost of PPCDB's.



Note: Place Strands Symmetrically about C of Beam.
15 - 1/2" Strands Each Strand Stressed to 28,900 Lbs.
6 - Strands 1 3/4" up, 7 - Strands 3/4" up, 2 - Strands 4 1/2" up



See Sheet 11 for the details showing the spacing and mounting of posts and rails to the PPCDB.

BILL OF MATERIAL FOR ONE BEAM

Bar	No.	Size	Length	Shape	
a	96	#3	2'-8"	—	
a ₁	53	#4	6'-1"	—	
b	4	#5	29'-9"	—	
b ₁	8	#5	11'-6"	—	
b ₂	4	#4	29'-9"	—	
b ₃	2	#3	29'-9"	—	
d	53	#3	1'-3"	—	
u	45	#3	6'-3"	—	
u ₁	8	#4	6'-3"	—	
Precast Prestressed Concrete Deck Beams				Sq. Ft.	171
Reinforcement Bars				Pound	750
Total Weight Ea. Beam				Pound	34210
* Reinforcement Bars				Pound	800
* Total Weight Ea. Beam				Pound	34720
* Curb units					

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" - 270 ksi strands, as shown.
The 1" 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 ASTM A 706 (IL MOD), Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" 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 4,000 p.s.i.
An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted. However, the initial prestressing force applied to each strand shall be the same as for the stress relieved strands (28,900 lbs.)

