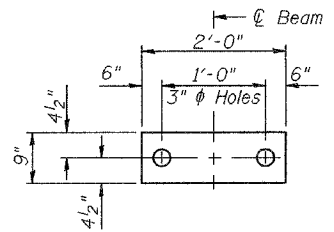


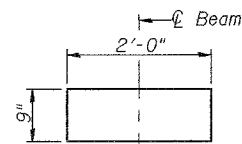
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DuPage	14	13
Contract Number: 62912				

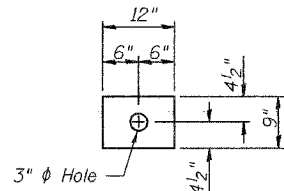
SHEET NO. 3  
4 SHEETS



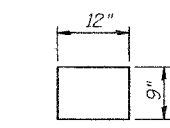
**FABRIC BEARING PAD**  
(Interior)  
**FIXED**



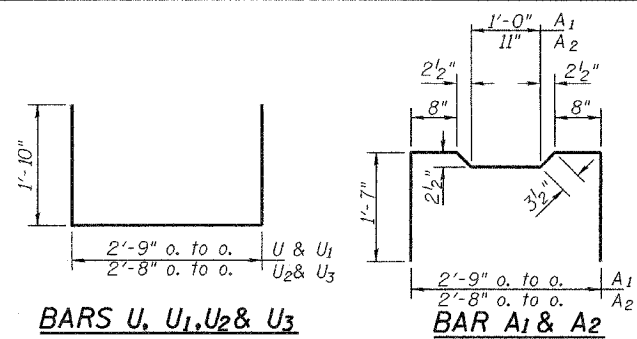
**FABRIC BEARING PAD**  
(Interior)  
**EXPANSION**



**FABRIC ADJUSTING SHIM**  
(Fixed)

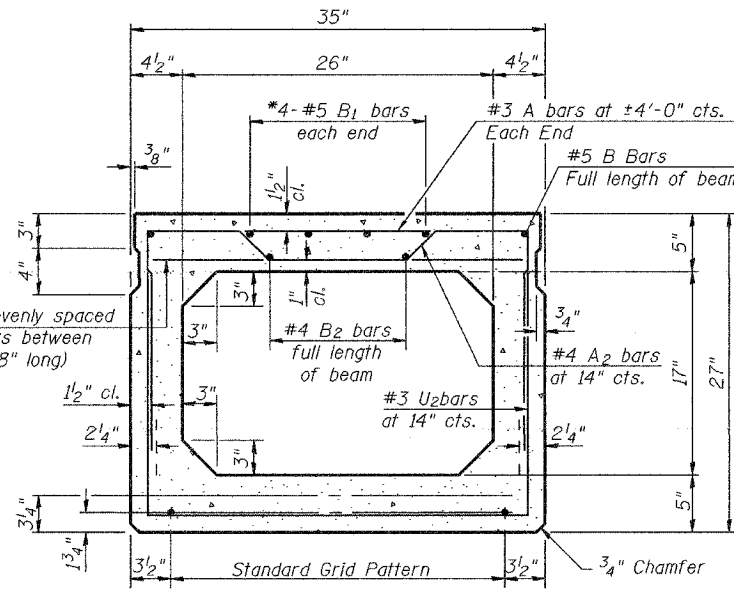


**FABRIC ADJUSTING SHIM**  
(Expansion)



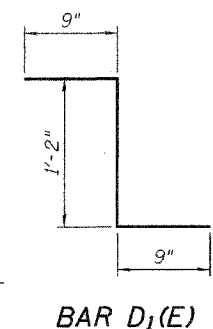
**BARS U, U<sub>1</sub>, U<sub>2</sub> & U<sub>3</sub>**

**BAR A<sub>1</sub> & A<sub>2</sub>**



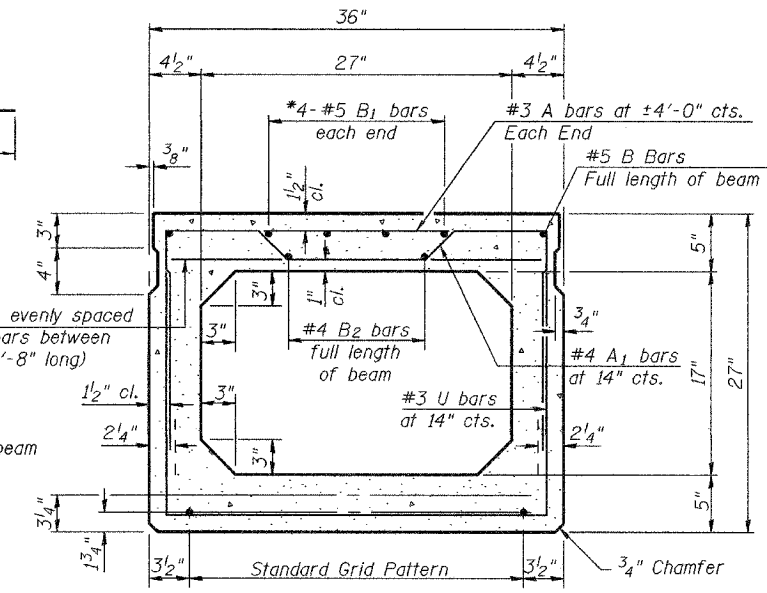
**TYPICAL 35" SECTION**

1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
8-Strands 1 3/4" up, 4-Strands 3/4" up  
(12 Required)



**BAR D<sub>1</sub>(E)**

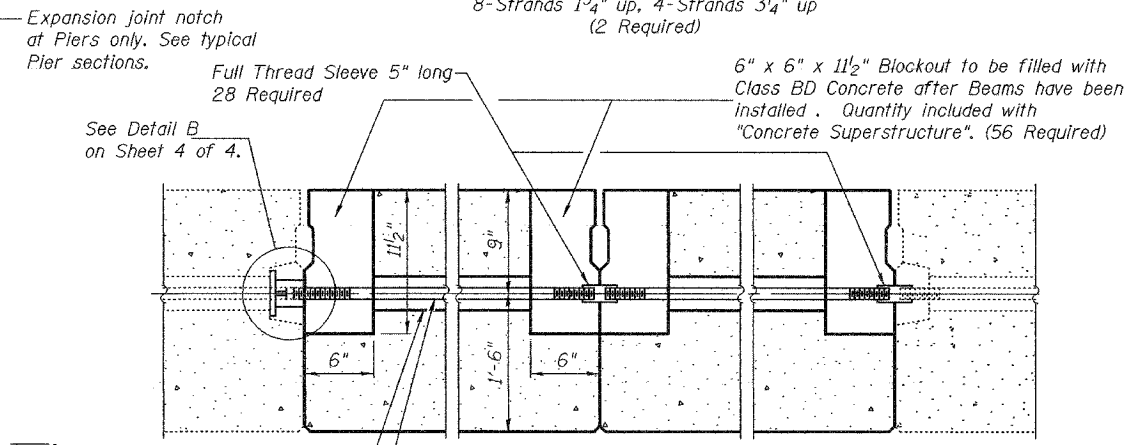
2-#3 A bars evenly spaced between A<sub>1</sub> bars between end blocks (2'-8" long)  
#0.2 x Length of beam



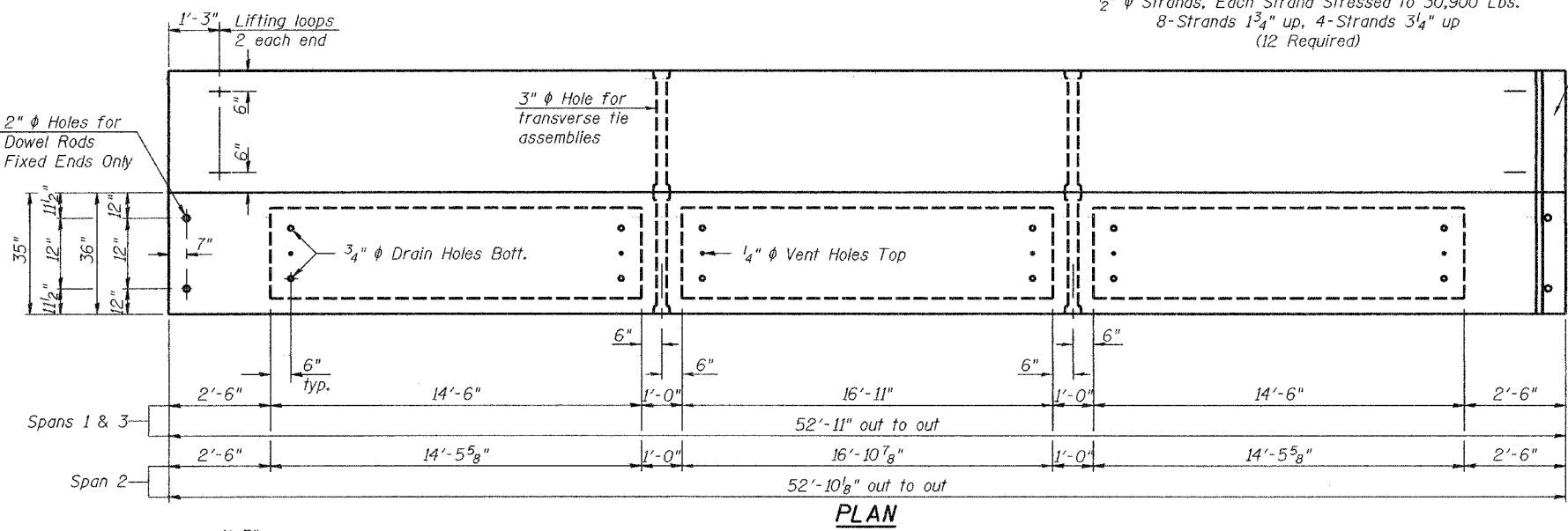
**TYPICAL 36" SECTION**

1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
8-Strands 1 3/4" up, 4-Strands 3/4" up  
(2 Required)

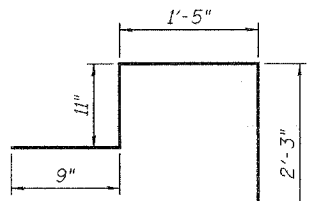
Note:  
Place strands symmetrically about  $\phi$  of beam.



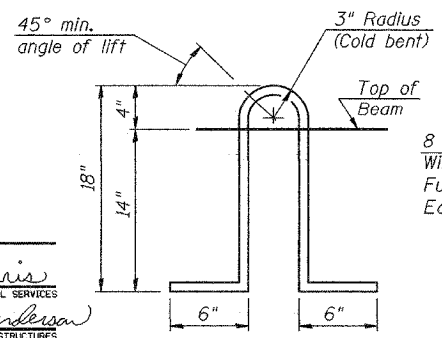
**TYPICAL TRANSVERSE TIE ASSEMBLY**



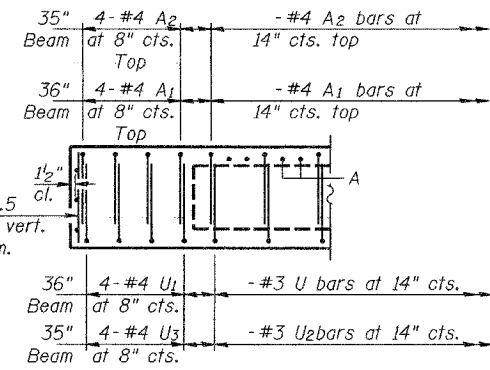
**PLAN**



**BAR D<sub>6</sub>(E)**



**LIFTING LOOP DETAIL**



**END ELEVATION  
FIXED END**

**BAR D<sub>4</sub>(E)**

**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. 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 1/8" 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, 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 4000 p.s.i.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	42	#5	2'-11"	—
a <sub>1</sub> (E)	9	#5	5'-11"	—
Precast Prestressed Conc. Deck Bms.		Sq. Ft.	2169	
Reinforcing Bars, Epoxy Coated		Pound	180	

**BEAM DETAILS**  
**F.A.U. RT. 9877**  
**OVER SALT CREEK**  
**DUPAGE COUNTY**  
**SN 022-0084**

DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.

May 3, 2005  
EXAMINED John A. Morris  
ENGINEER OF STRUCTURAL SERVICES  
PASSED Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES

PD-5-S 10-22-04