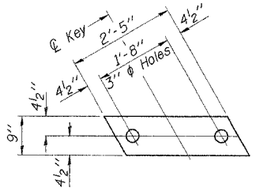
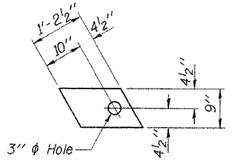
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 205	03-01123-00-BR	SHELBY	13	5
ROAD DIST.	ILLINOIS	ASH GROVE		

CONTRACT NO. 91335

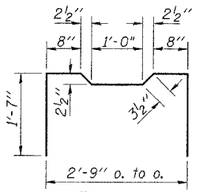


FABRIC BEARING PAD
(Interior)
(12 Req'd)

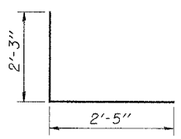


FABRIC BEARING PAD
(Exterior)
(8 Req'd)

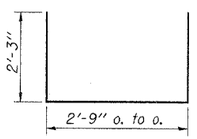
FIXED



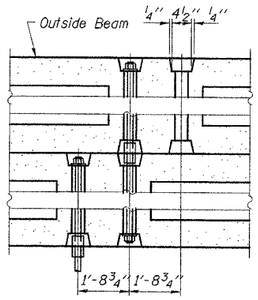
BAR A1

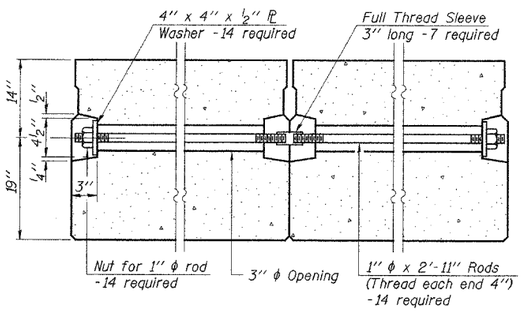


BAR D



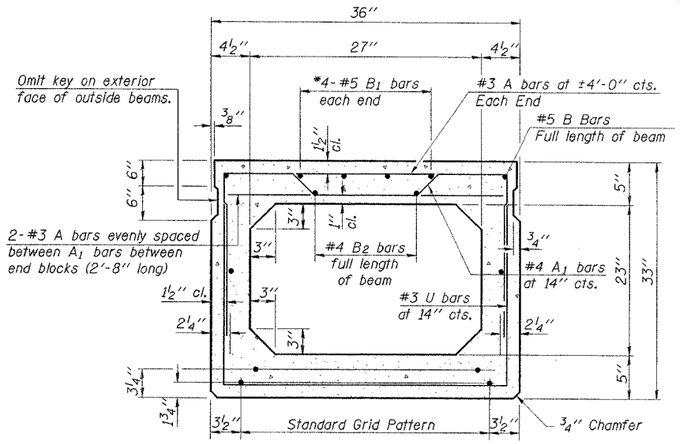
BARS U & U1





TYPICAL TRANSVERSE TIE ASSEMBLY

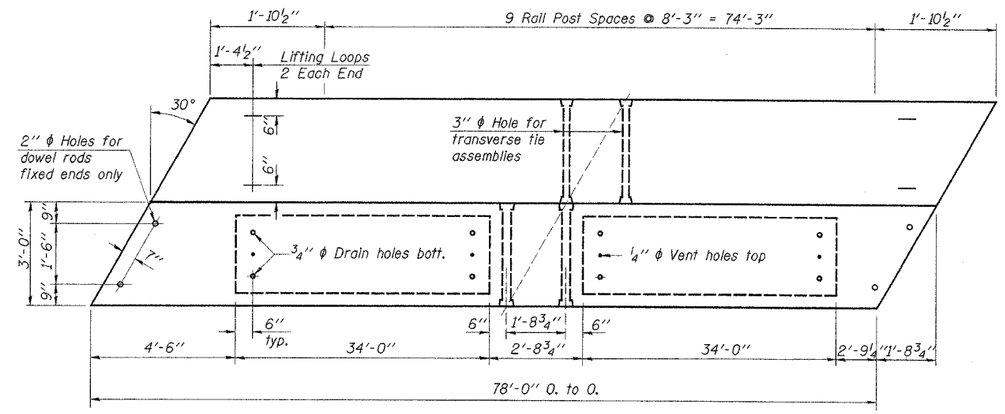
*0.2 x Length of beam (15'-9")



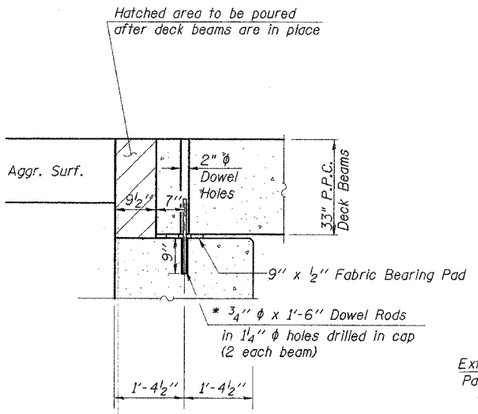
TYPICAL SECTION

18-½" ϕ Strands Each Strand Stressed to 30,900 Lbs.
10-Strands 1¾" up, 6-Strands 3¼" up, 2-Strands 15" up.

Note:
Place strands symmetrically about ℄ of beam.

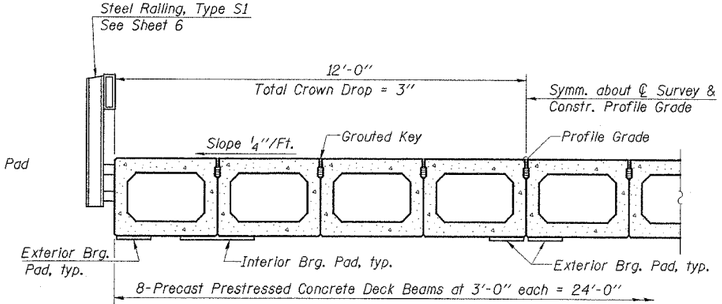


PLAN

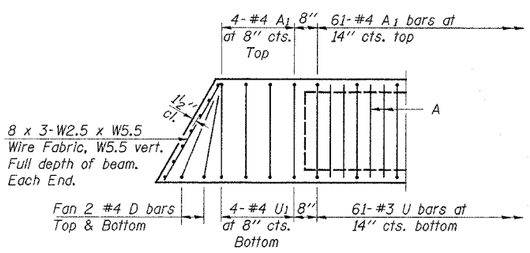


SEC. THRU ABUT.

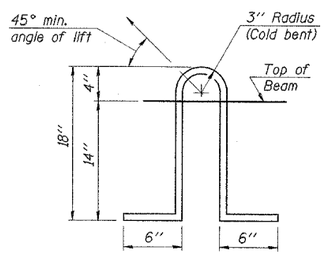
*Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting the shear keys.



HALF CROSS SECTION



END PLAN



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, M-42 or M-53 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. (40 Req'd)
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.
See Special Provisions for review and distribution of shop drawings.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1872

Estimated Total Weight (One Beam) = 54,800 Pounds

DESIGNED	F.J.S.
CHECKED	S.F.M.
DRAWN	K.T.R. & S.A.P.
CHECKED	F.J.S.

PD-5-L 9-1-03

SUPERSTRUCTURE

SECTION 03-01123-00-BR
ASH GROVE ROAD DISTRICT
SHELBY COUNTY
STATION 15+00

4440 ASH GROVE
SPRINGFIELD, IL. 62711
(217) 793-6600
oasinc@tamvid.com

OZYURT AND STONE, INC.
CONSULTING ENGINEERS

JOB NO.: 0322
FILE: 0322SUPER.DGN
DATE: 07/12/05