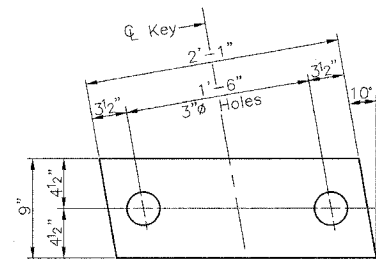
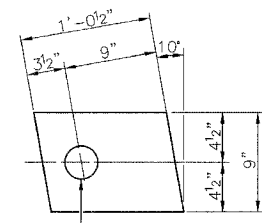


RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 140	*	SHELBY	10	5
PROJECT BROS-173(150)				
* 05-09119-00-BR				

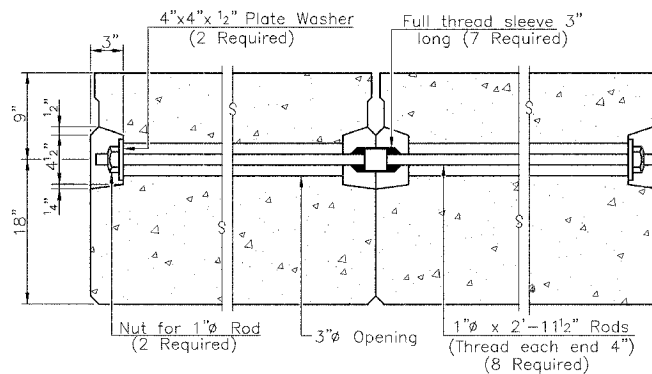


FABRIC BEARING PAD
Interior Wo
(12 Required)

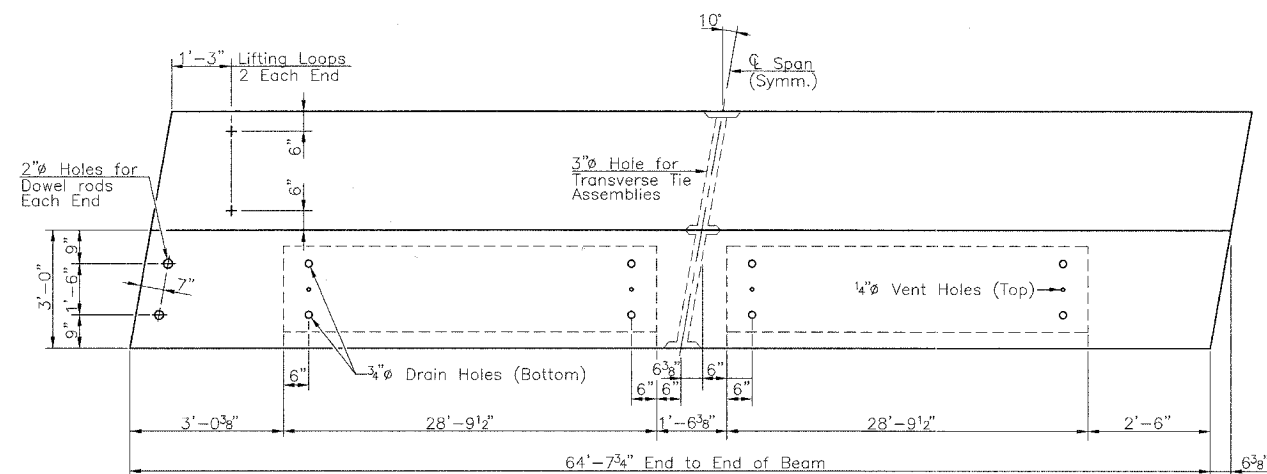


FABRIC BEARING PAD
Exterior W
(8 Required)

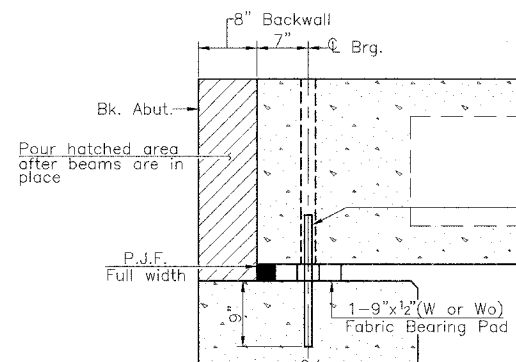
FIXED



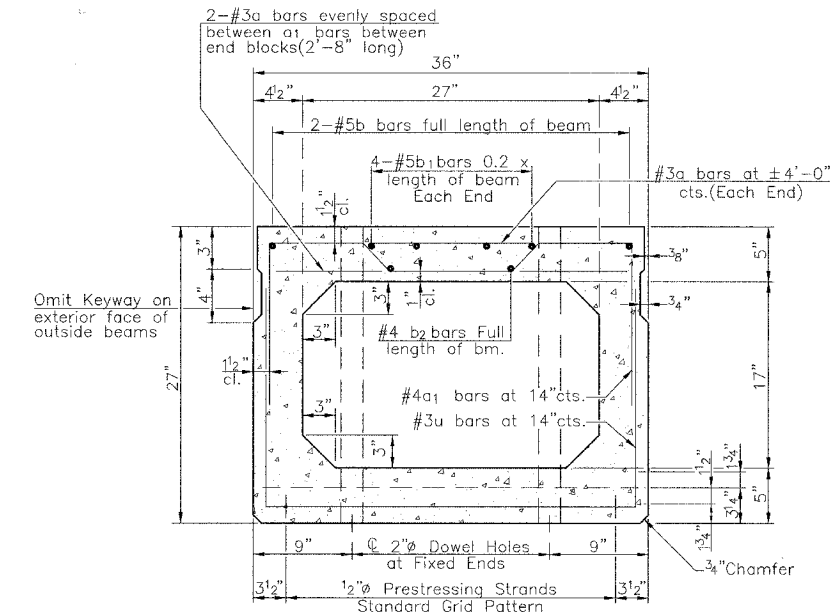
TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN
(8 Beams Required)

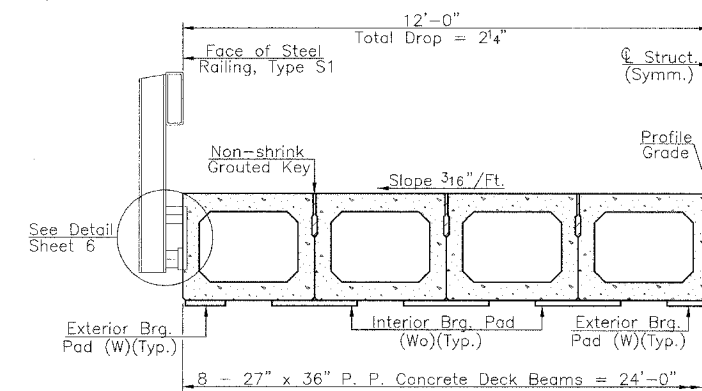


SECTION THRU ABUTMENT
(At Right Angles)

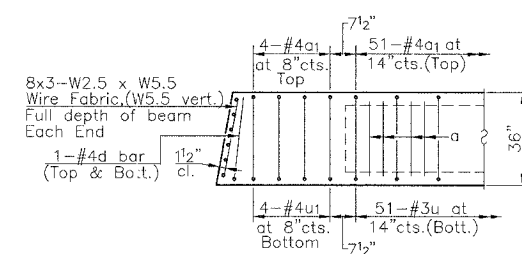


TYPICAL SECTION

17-1/2" Strands, Each Strand Stressed to 30,900 Lbs.
9-Strands 1 3/4" up, 4 Strands 3 1/4" up
2 Strands 7 1/2" up, 2 Strands 10 1/2" up



HALF CROSS SECTION



END PLAN

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" diameter 270 ksi strands, as shown.
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 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 beams and the bottom edge of the key.
Required Release Strength, f'ci, shall be 5000 p.s.i.
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.
Rail post anchor devices shall be cast into exterior face of outside beams as shown on Sheet No. 6.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
Precast Prestressed Concrete Deck Beams (27" Depth)			Sq. Ft.	1552

SUPERSTRUCTURE
T.R. 140 OVER MITCHELL CREEK
SECTION 05-09119-00-BR
SHELBY COUNTY

FILE NAME: SC19_BM (REV. 3/25/07)