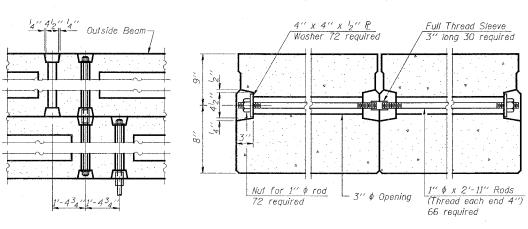


CHECKED NJM

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

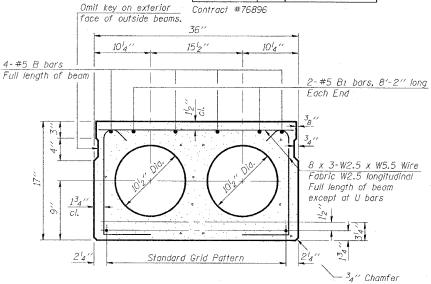


TYPICAL TRANSVERSE TIE ASSEMBLY

LIFTING LOOP DETAIL



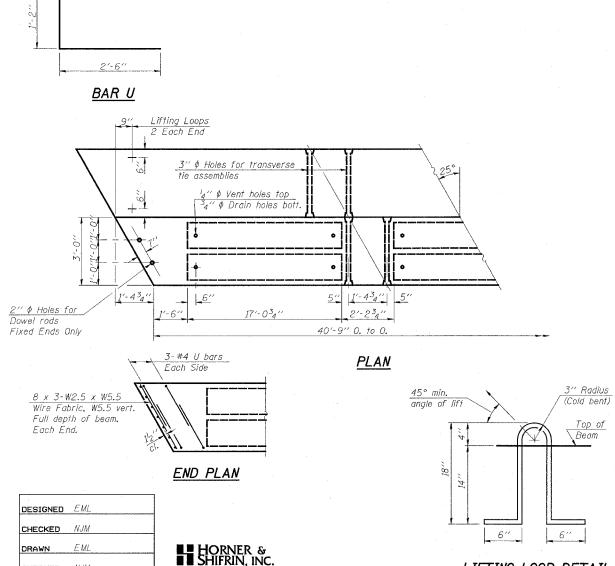
SHEET NO. 7 12 SHEETS



TYPICAL SECTION

 $^{\prime}_{2}$ " $^{\prime}$ Strands, Each Strand Stressed to 30,900 Lbs. 10-Strands $^{13}_{4}$ " up. 2-Strands $^{3}_{4}$ " up. 2-Strands 12 " up. 2-Strands 12 " up.

Place strands symmetrically about € of beam.



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - $\frac{1}{2}$ " ϕ -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.

The bearing seal surfaces shall be adjusted by shimming to assure firm and even bearing. Two 'g'' 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.

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 4,000 p.s.i.

See sheet 5 of 12 for spacing of rail post.

See sheet 4 of 12 for rail anchor device to be cast in precast beams.

See sheet 6 of 12 for Shear Key Clamping Details at Stage Const. Jf. See sheet 3 of 12 for Wing Type Threaded Insert location and spacing.

BILL OF MATERIAL

Item	Unit	Total
Precast Prestressed Concrete Deck Beams (17'' Depth)	Sq. Ft.	4034

SUPERSTRUCTURE DETAILS F.A.P. ROUTE 789 - SECTION 68-BR-1 MADISON COUNTY STATION 98+33.25 STRUCTURE NO. 060-0150