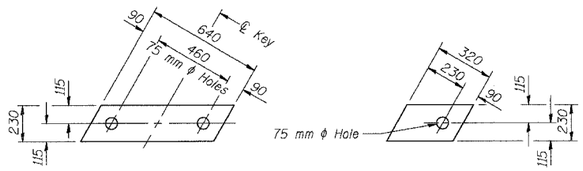
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70D-Y-B-R	COOK	283	185B
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

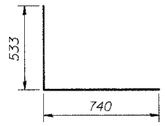
CONTRACT NO. 62897



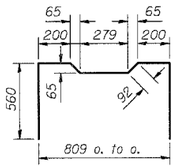
FABRIC BEARING PAD (Interior)

FABRIC BEARING PAD (Exterior)

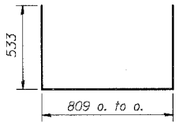
FIXED



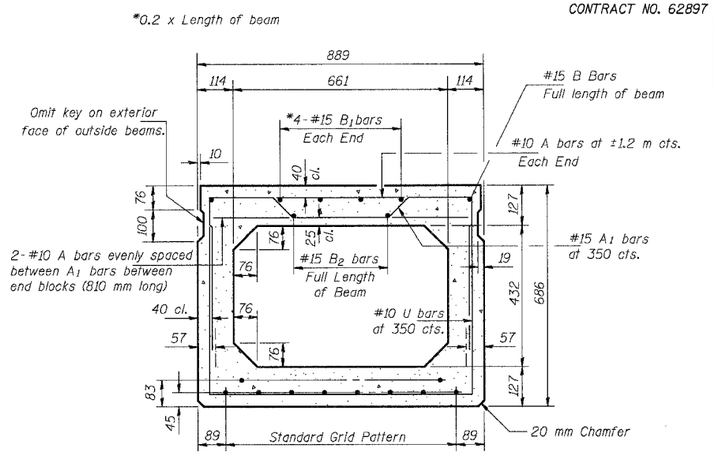
BAR D



BAR A_1



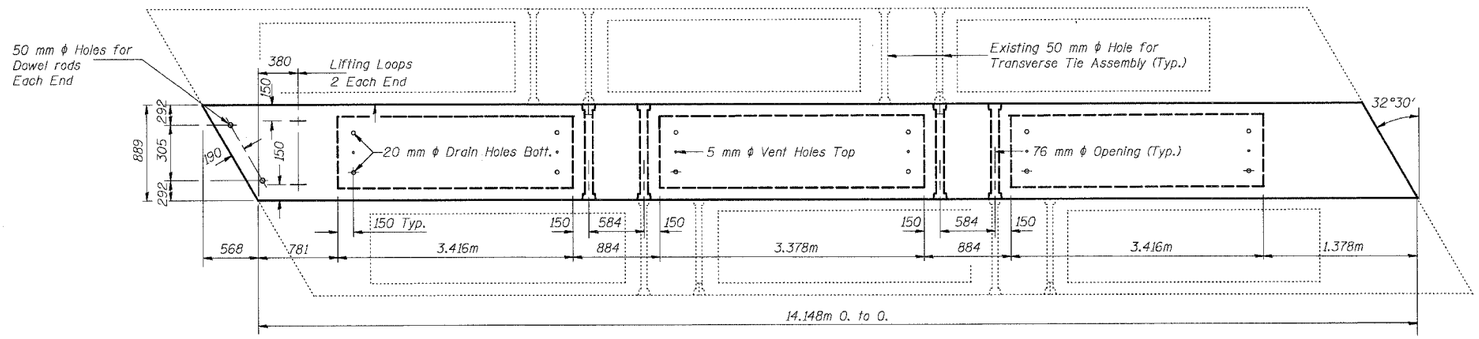
BARS U & U_1



TYPICAL SECTION

12.7 mm ϕ Strands Each Strand Stressed to 128,500 N.
8 -Strands 45 mm up, 2- Strands 83 mm up

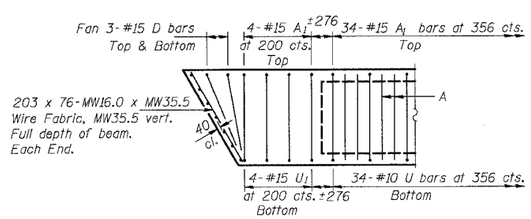
Note: Place strands symmetrically about ℄ of beam.



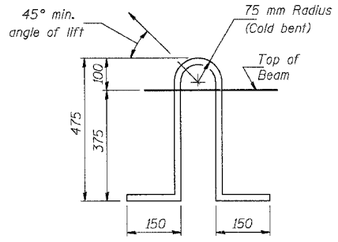
PLAN

See Sht. S-24 of S-24 for Typ. Transverse Tie Assembly

FOR INFORMATION ONLY:
INCLUDED IN BEAM
FABRICATION CONTRACT



END PLAN



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, stress-relieved 7-wire strand (Fu=1860 MPa).
The nominal diameter shall be 12.7 mm and the nominal cross-sectional area shall be 98.71 mm².
Lifting loops shall be 2 - 12.7 mm strands (Fu=1860 MPa) as shown.
The 25 mm 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.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 3 mm 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 28 MPa.
An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted.
All dimensions are in millimeters (mm) except as noted.

SHT. S-33 OF S-34

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER UPRR
F.A.P. ROUTE 343 SECTION 70D-Y-B-R
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732

DECK BEAM REMOVAL AND REPLACEMENT

DESIGNED: BTO DRAWN: BTO
DATE: 10/06 CHECKED: JAN CHECKED: JAN