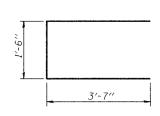
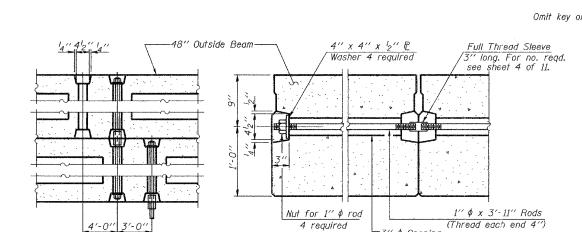


## FABRIC BEARING PAD (8 Required)



BAR UI



STATE OF ILLINOIS

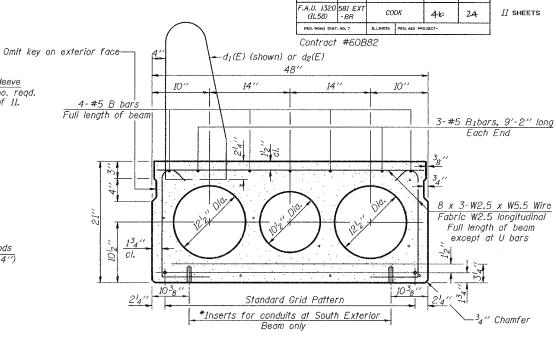
DEPARTMENT OF TRANSPORTATION

TYPICAL TRANSVERSE TIE ASSEMBLY

Notes: For details of bars  $d_1(E)$  and  $d_2(E)$ , see sheet 7 of 11. For layout and spacing of bars  $d_1(E)$  and  $d_2(E)$ , see sheet 6 of 11. These bars are to be cast into the deck beams. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).

-3″ ¢ Opening

4 required



TYPICAL SECTION

b" φ Strands, Each Strand Stressed to 30.900 Lbs. 8-Strands  $1^{3}_{4}$ " up, 7-Strands  $3^{l}_{4}$ " up

Place strands symmetrically about € of beam.

SHEET NO.

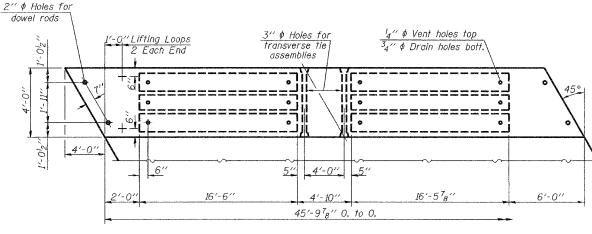
24

соок

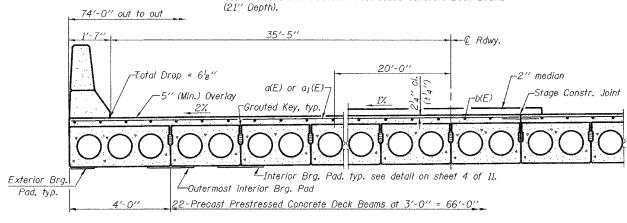
SHEET NO. 5

11 SHEETS

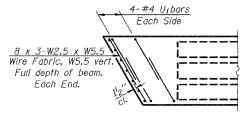
\*Maximum 10' spacing. Proof Load of each Insert = 150 lbs. Cost included with Precast Prestressed Concrete Deck Beams



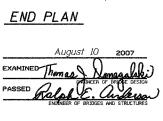
PLAN

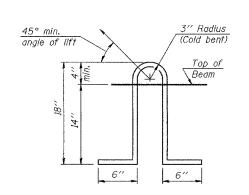


## PARTIAL CROSS SECTION



DESIGNED Dhruv P. Narielwala CHECKED Stephen M. Ryan drawn R. Sommer CHECKED DPN/SMR





LIFTING LOOP DETAIL

## 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  $2-\frac{1}{2}$ "  $\phi$ -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 ASTM A 706 (IL MOD), Grade 60. See Special Provisions. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two  $^{\prime}_{8}$ " fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each

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, per Article 1020.05(b)(12) of the Standard Specifications, 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

Precast Prestressed Conc. Sq. Ft. Deck Bms, (21" Depth)

BEAM DETAILS (48") IL 58 (GOLF ROAD) OVER POPLAR CREEK F.A.U. RT. 1320 SEC. 581 EXT-BR COOK COUNTY STATION 1115+40.00 STRUCTURE NO. 016-2087