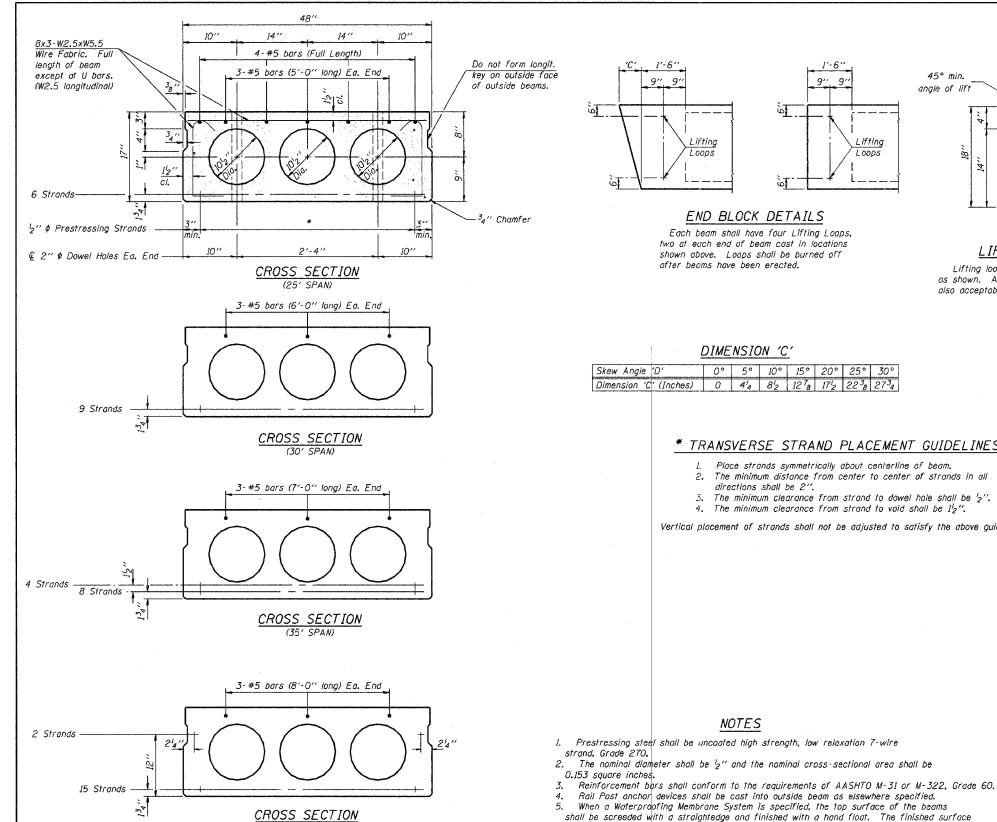
05-02115-00-BR CRAWFORD 10 5

ILLINOIS PROJECT



(40' SPAN)

The std. reinf. and dimensions shown on the 25' span cross

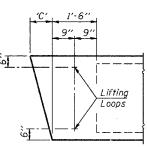
section is typical for all spans.

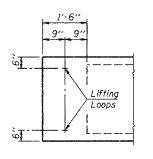
except as shown.

Illinois Department of Transportation

APPROVED APRIL 4. 2005

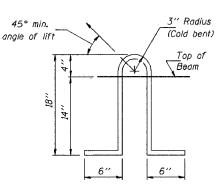
Ralph E. On Seria)
Engineer of Bridges and Structures





END BLOCK DETAILS

Each beam shall have four Lifting Loops, two at each end of beam cast in locations shown above. Loops shall be burned off after beams have been erected.

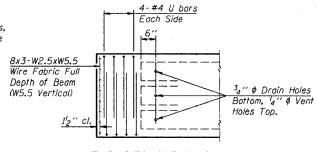


8x3-W2.5xW5.5 Wire Fabric Full Depth of Beam (W5.5 Vertical)

4-#4 U bars Each Side ³₄'' ♦ Drain Holes Bottom, 4" & Vent Holes Top. END REINFORCEMENT (SKEWED)

LIFTING LOOP DETAIL

Lifting loops shall be 2, 12'4-270 ksi strands, as shown. Alternate approved lifting devices are also acceptable.



END REINFORCEMENT (RIGHT ANGLE)

DIMENSION 'C'

Skew Angle	′D′	0°	5°	10°	15°	20°	25°	30°
Dimension 'C	' (Inches)	0	41/4	81/2	12 ⁷ 8	17/2	$22^{-3}8$	$27\frac{3}{4}$

NOTES

shall be rounded or chamfered a minimum of ${}^{l}_{4}$ ".

between the top of the beam and the bottom edge of the key.

shall be free of depressions or high spots with sharp corners and the top edge of keys

prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas

6. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material

* TRANSVERSE STRAND PLACEMENT GUIDELINES

- Place strands symmetrically about centerline of beam.
- 2. The minimum distance from center to center of strands in all directions shall be 2".
- The minimum clearance from strand to dowel hole shall be $\frac{1}{2}$ ".
- 4. The minimum clearance from strand to void shall be $1_2''$.

Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



MIN. BAR LAP #5 bars = 1'-8"

DESIGN STRESSES

 $f_c' = 5,000 \text{ p.s.i.}$

 $f_s' = 270,000 \text{ p.s.i. } (\frac{l_2}{2})'' \text{ ϕ Strand})$

f_{si} = 201,960 p.s.i. (½" \$ Strand)

 $f'_{ci} = 4,000 \text{ p.s.i.}$

 $f_V = 60,000 \text{ p.s.i.}$

P.P.C. DECK BEAM DETAILS

28' ROADWAY 17" x 48" BEAMS STANDARD CB-2817-48

III-12