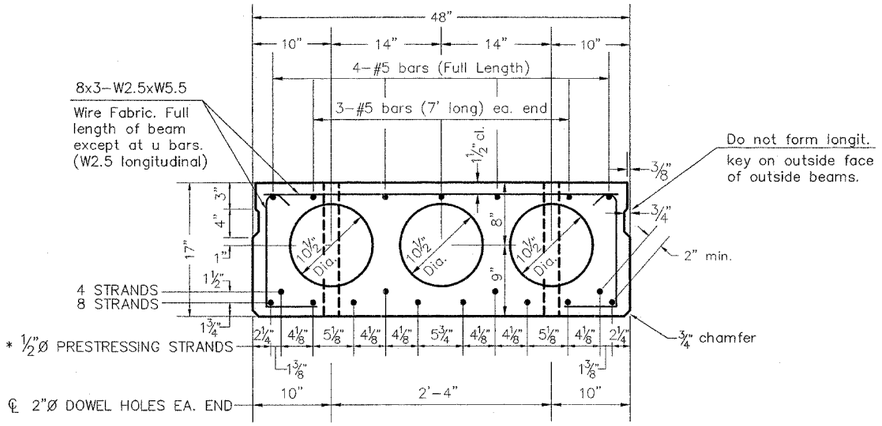
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 5 (SHATTUC ROAD)	02-00079-00-BR	CLINTON	15	10

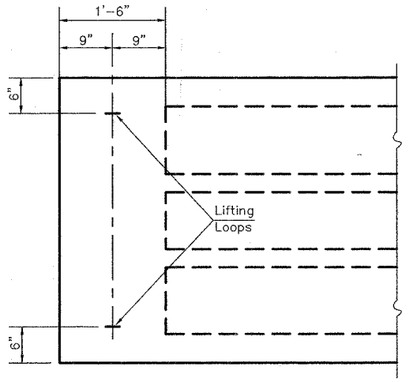
CONTRACT NO. 97267



* STRESSED TO 28,900 LBS.

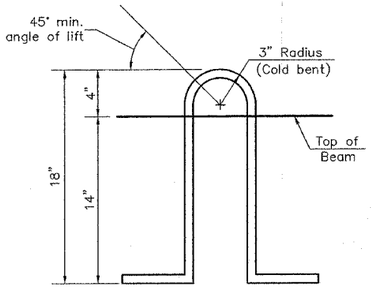
CROSS SECTION

(SPANS 1 & 3)



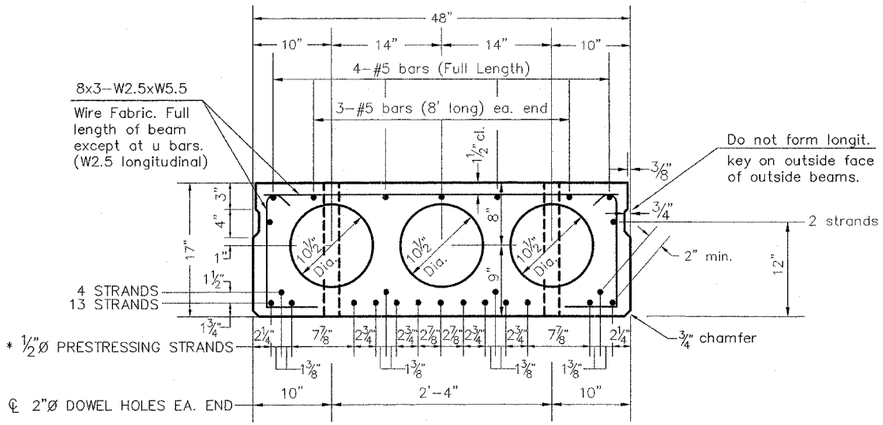
CROSS SECTION

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.



LIFTING LOOP DETAIL

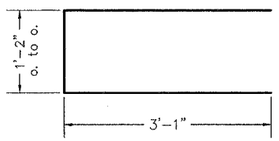
Lifting loops shall be two 1/2"Ø–270 ksi strands, as shown. Alternate approved lifting devices are also acceptable.



* STRESSED TO 28,900 LBS.

CROSS SECTION

(SPAN 2)



BAR U

MIN. BAR LAP
#5 BARS = 1'–8"

END REINFORCEMENT

(RIGHT ANGLE)

NOTES

1. Prestressing steel shall be uncoated high strength, stress relieved 7–wire strand, Grade 270.
2. The nominal diameter shall be 1/2" and the nominal cross–sectional area shall be 0.153 square inches.
3. Reinforcement bars shall conform to AASHTO M–31 or M–322, Grade 60.
4. Rail Post anchor devices shall be cast into outside beam as elsewhere specified.
5. When Waterproofing Membrane System is specified, the top surfaces of the beams shall be finished in accordance with Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finish surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
6. 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 the top of the beam and the bottom edge of the key.

TRANSVERSE STRAND PLACEMENT GUIDELINES

1. Place strands symmetrically about centerline of beam.
2. The minimum distance from center to center of strands in all directions shall be 2".
3. The minimum clearance from strand to dowel hole shall be 1/2".
4. The minimum clearance from strand to void shall be 1½".

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

DESIGN STRESSES

f'_c = 5,000 p.s.i.
f'_{ci} = 4,000 p.s.i.
f'_s = 270,000 p.s.i (1/2"Ø Strand)
f_{si} = 201,960 p.s.i. (1/2"Ø Strand)
f_y = 60,000 p.s.i.

P.P.C. DECK BEAM DETAILS

C.H. 5 (SHATTUC ROAD)
OVER LOST CREEK
02-00079-00-BR
CLINTON COUNTY
STATION 23+55
S.N. 014-3014

NJR
7/14/05
0505DECK.DWG