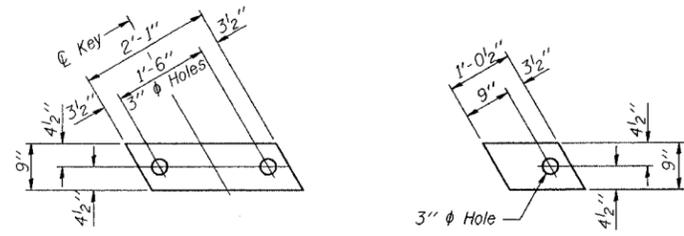


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

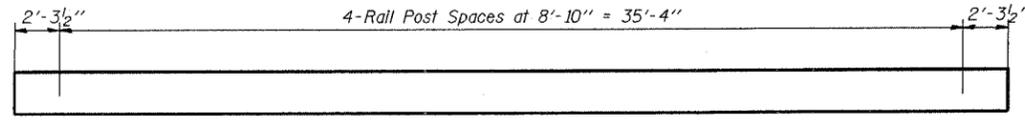
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	#	UNION	22	16
FED. ROAD DIST. NO. 7		ILLINOIS	Contract No. 99214	
* 03-01176-00-BR				

9 SHEETS

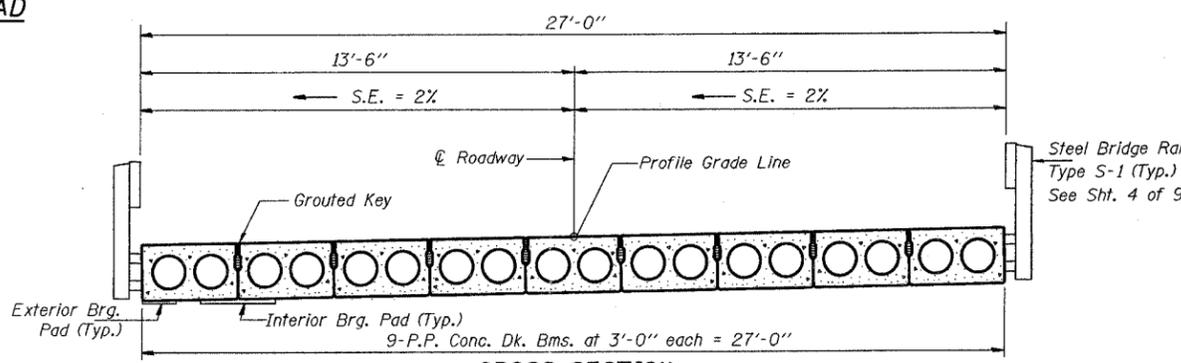


**FABRIC BEARING PAD (Interior)**  
**FABRIC BEARING PAD (Exterior)**  
**FIXED**

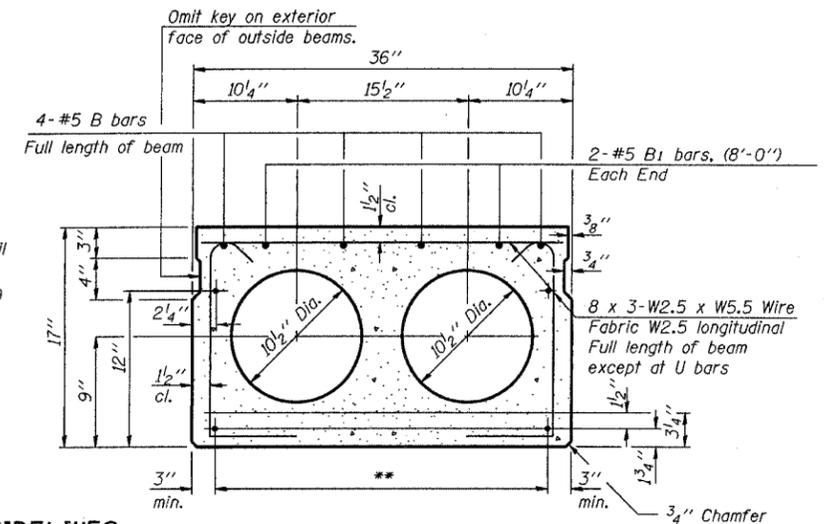
**MIN. BAR LAP**  
#5 bars = 1'-8"



**RAIL POST SPACING**



**CROSS SECTION**  
(Looking North)



**TYPICAL SECTION**

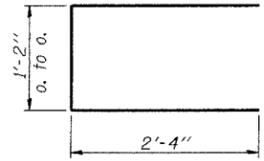
**\*\* TRANSVERSE STRAND PLACEMENT GUIDELINES**

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 1/2".

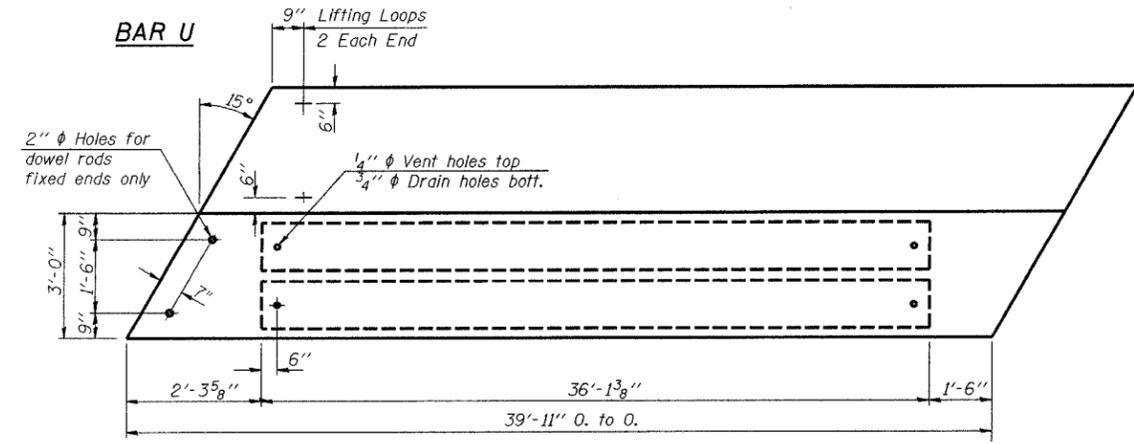
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.

**NOTES**

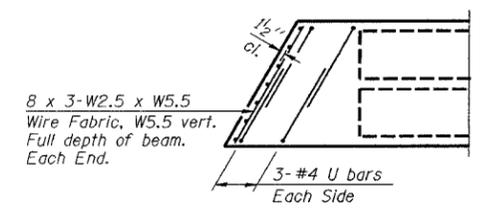
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2" dia - 270 ksi strands, as shown. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. Nominal 1" joint at center pier shall be filled with non-shrink grout. 1" dim. may vary to accommodate tolerance in beam lengths. Longitudinal keys shall be grouted. Reinforcement bars shall conform to the requirements of ASTM 706 Gr. 60 (II, Modified). See Special Provisions. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" 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 4000 p.s.i. A corrosion inhibitor, in accordance with Article 1021.06 of the Standards Specifications, shall be used in the concrete for precast prestressed concrete deck beams.



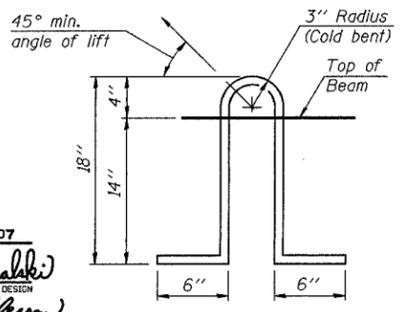
**BAR U**



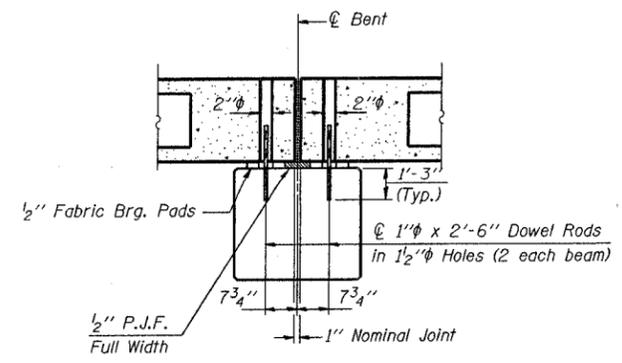
**PLAN**



**END PLAN**



**LIFTING LOOP DETAIL**



**SECTION AT PIERS**  
(Along centerline of Beams)

**BILL OF MATERIAL**

Item	Length	Quantity
Precast Prestressed Conc. Deck Bms.	Sq. Ft.	1080

Estimated Total Weight (One Beam) = 19530 Lbs.

**SPAN 2**  
**SUPERSTRUCTURE DETAILS**  
**STR. NO. 091-3221**  
**MORGAN SCHOOL ROAD**  
**OVER CANY CREEK**  
**SECTION 03-01176-00-BR**  
**UNION COUNTY**  
**STATION 9+27.00**

DESIGNED	J.F. Schiff
CHECKED	J.K. Klein
DRAWN	SHANE SUMMER
CHECKED	JFS, JKK

APRIL - 3 2007  
EXAMINED *Thomas J. Demagalaki*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES