

BLANK, WESSELINK, COOK & ASSOCIATES ENGINEERS - CONSULTANTS DECATUR, ILLINOIS

F.A.P. RTE,	SECTION	c		DUNTY	TOTAL SHEETS	SHEET HO
95	68-1		EFFINGHAM		409	378
FED. ROAD DIST. NO. 7			LINOIS	FED. AID PROJECT		

SHEET NO. 8 SHEETS 12

CONTRACT NO. 94356

NOTES

Inserts for ${}^{3}_{4}{}^{\prime\prime} \phi$ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be $l_2^{\prime\prime}$ and the nominal cross-sectional area shall be 0.153 sq. In. Non-prestressing steel shall conform to ASTM A 706 (IL MOD),

Grade 60. A minimum $2l_2'' \phi$ lifting pin shall be used to engage the lifting loops

during handling. The bottom plates and studs shall be galvanized according to AASHTO

M111. Threaded rods shall be ASTM F 1554 Grade 55.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the I-beam or Bulb-T beam, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 36 inches. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.



BAR GI



BAR G4





BAR G2



Bar	No.	Size	Length	Shape
GI	47	#4	7'-5"	NL
G2	47	#4	5'-8"	n
G3	6	#5	27'-5"	
G4	38	#3	4'-1''	ک

*** For information only

Notes: Required release strength, f'ci, shall be 5.000 psi.

BILL OF MATERIAL

	Item	Unit	Total
	Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36″	Ft.	318
nds			

ILLINOIS DEPARTMENT OF TRANSPORTATION PCC I-BEAM DETAILS ILLINOIS ROUTE 33 OVER BISHOP CREEK F.A.P. RTE. 95 SECTION 6B-1 EFFINGHAM COUNTY Sta. 531+80 STRUCTURE NUMBER 025-0097 DRAWN BY: BDM CHECKED BY: SJK

DATE: APR. 2002