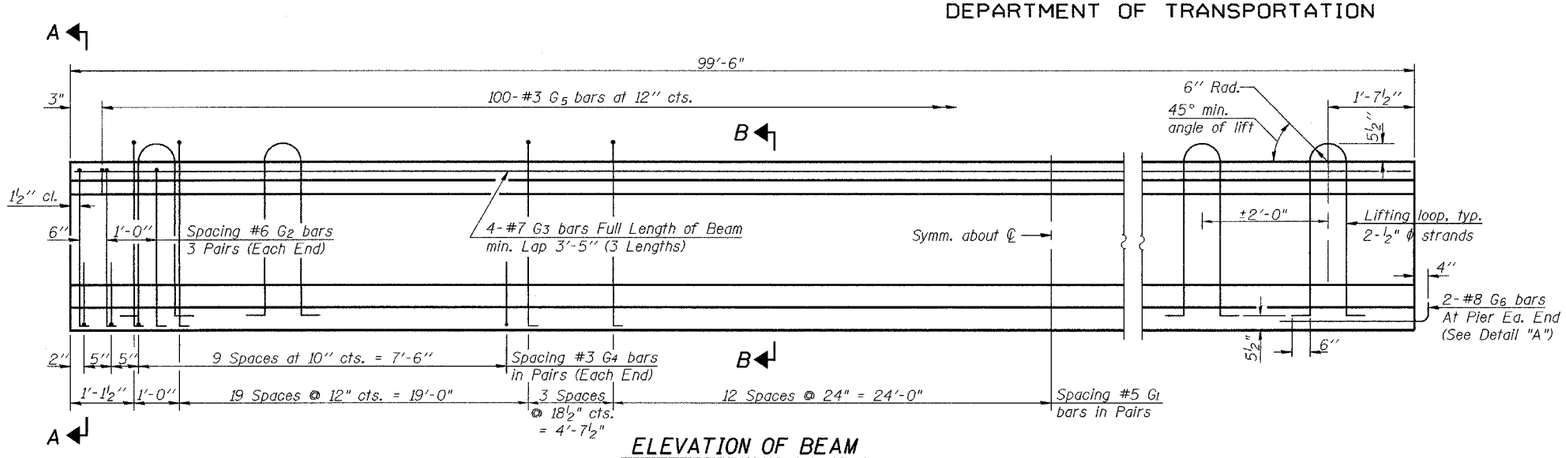
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

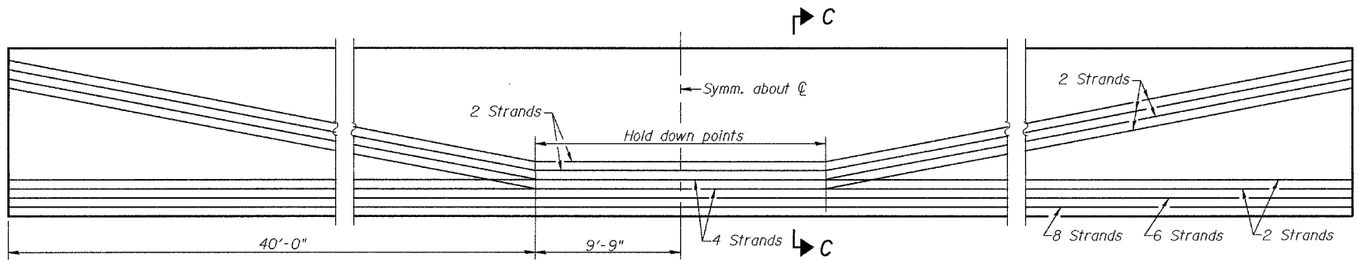
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 836	(119BR) BR	CHAMPAIGN		22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 11
21 SHEETS

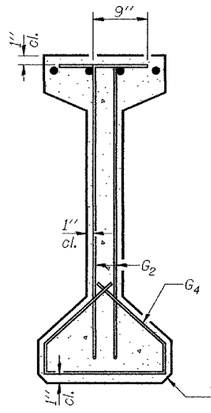
Contract # 70355



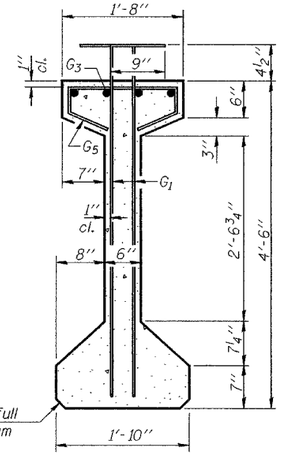
ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)



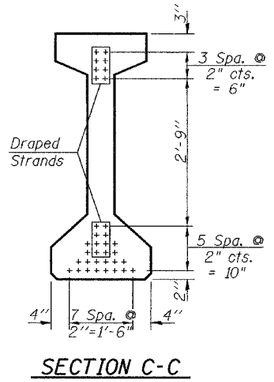
ELEVATION OF BEAM
(Showing Prestressing Steel)



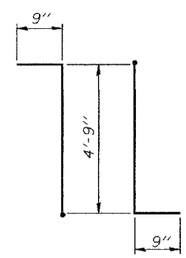
SECTION A-A



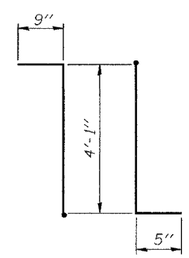
SECTION B-B



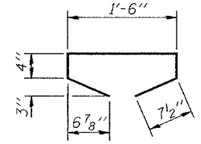
SECTION C-C



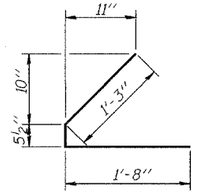
BAR G1



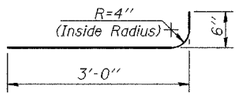
BAR G2



BAR G5



BAR G4

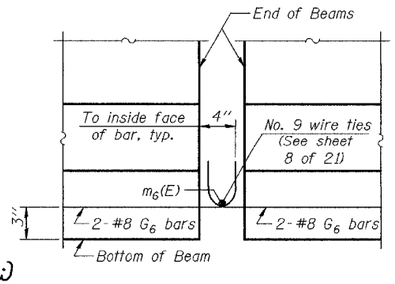


BAR G6

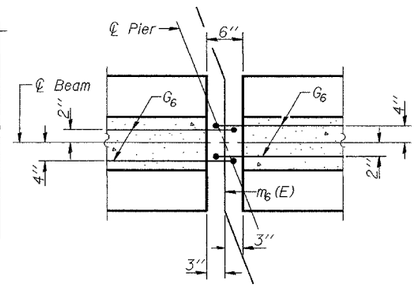
*BAR LIST

Bar	No.	Size	Length	Shape
G_1	142	#5	6'-3"	7L
G_2	12	#6	5'-3"	7L
G_3	12	#7	35'-4"	—
G_4	48	#3	3'-4½"	⊂
G_5	100	#3	3'-5"	⊃
G_6	4	#8	3'-6"	⊃

*For one beam only.



ELEVATION



PLAN

DETAIL "A"

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	1194

NOTES

Inserts for ¾" ϕ threaded dowel rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

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

The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to AASHTO designation M-31 or M322 Grade 60.

Lifting loops shall be 2-½"ϕ-270 ksi strands, as shown.

Required release strength, f'ci, shall be 5,000 psi.

Reinforcement bars designated (E) shall be epoxy coated.

DESIGNED	Philip E. Coppernoll
CHECKED	Ray Ahanchi
DRAWN	R. Sommer
CHECKED	P.E.C./G.R.A.

December 1 2004
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PI-4-54 9-1-03

BEAM DETAILS (SPANS 2 & 3)
F.A.P. RT. 836-SECTION (119BR)BR
CHAMPAIGN COUNTY
STATION 1015+21.00
STRUCTURE NO. 010-0280

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