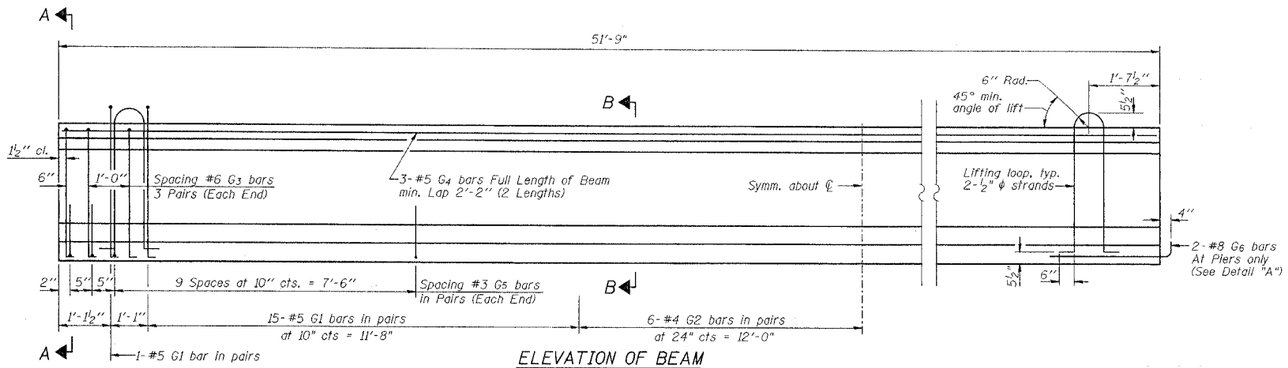
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

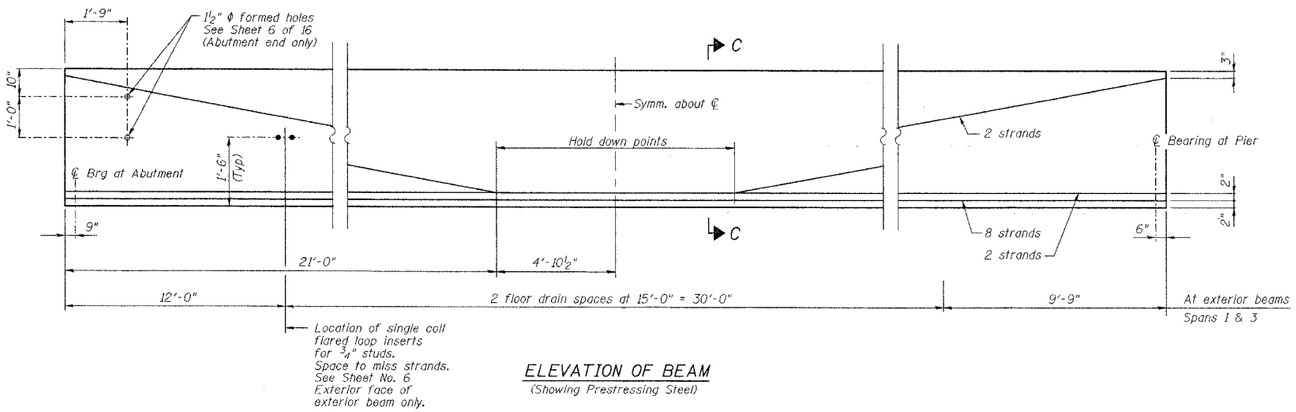
Sheet No. 7 of 16 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SBI 88	103C-BR	BUREAU	51	18
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

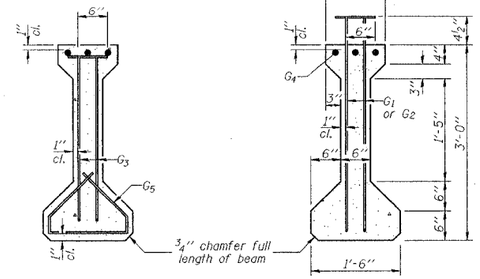
CONTRACT #64423



ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)

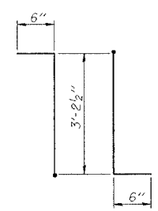


ELEVATION OF BEAM
(Showing Prestressing Steel)

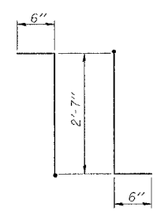


SECTION A-A

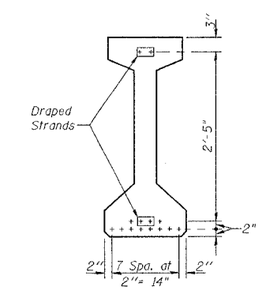
SECTION B-B



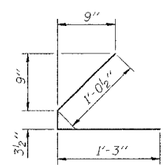
BARS G1 & G2



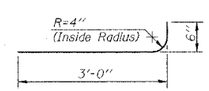
BAR G3



SECTION C-C



BAR G5

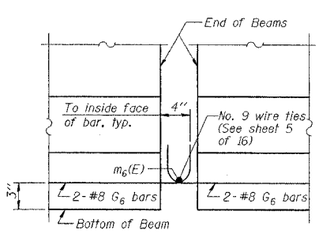


BAR G6

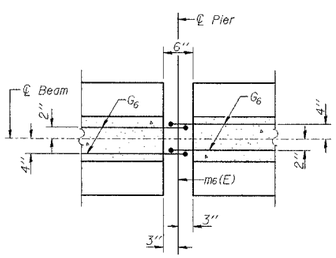
*BAR LIST

Bar	No.	Size	Length	Shape
G_1	64	#5	4'-2½"	⌉L
G_2	24	#4	4'-2½"	⌉L
G_3	12	#6	3'-7"	⌉L
G_4	6	#5	26'-10"	—
G_5	48	#3	2'-7"	⊂
G_6	2	#8	3'-6"	⊃

*For one beam only.

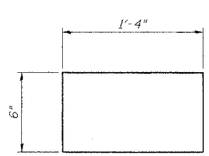


ELEVATION



PLAN

DETAIL "A"



½" FABRIC BEARING PAD
(10 req'd at piers - Span 1 & Span 3)

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Ft.	517.5

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 M-322 Grade 60.

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

Required release strength, f'ci, shall be 5000 psi.

Reinforcement bars designated (E) shall be epoxy coated.

See Sheet No. 2 for moment tables.

NEW BEDFORD ROAD OVER GREEN RIVER

BEAM DETAILS - SPANS 1 & 3

REVISIONS		
No.	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SBI 88 SPUR — SECTION 103C-BR
SN 006-0163
STA 29+25.34 — BUREAU COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001397

DRAWN BY / DATE	R King 4/04
CHECKED BY / DATE	CMV 4/04
QA/QC BY / DATE	CWC 4/04
BOOK NUMBER	
PROJECT No.	4858-1
SHEET No.	

PI-4-36 9-1-03