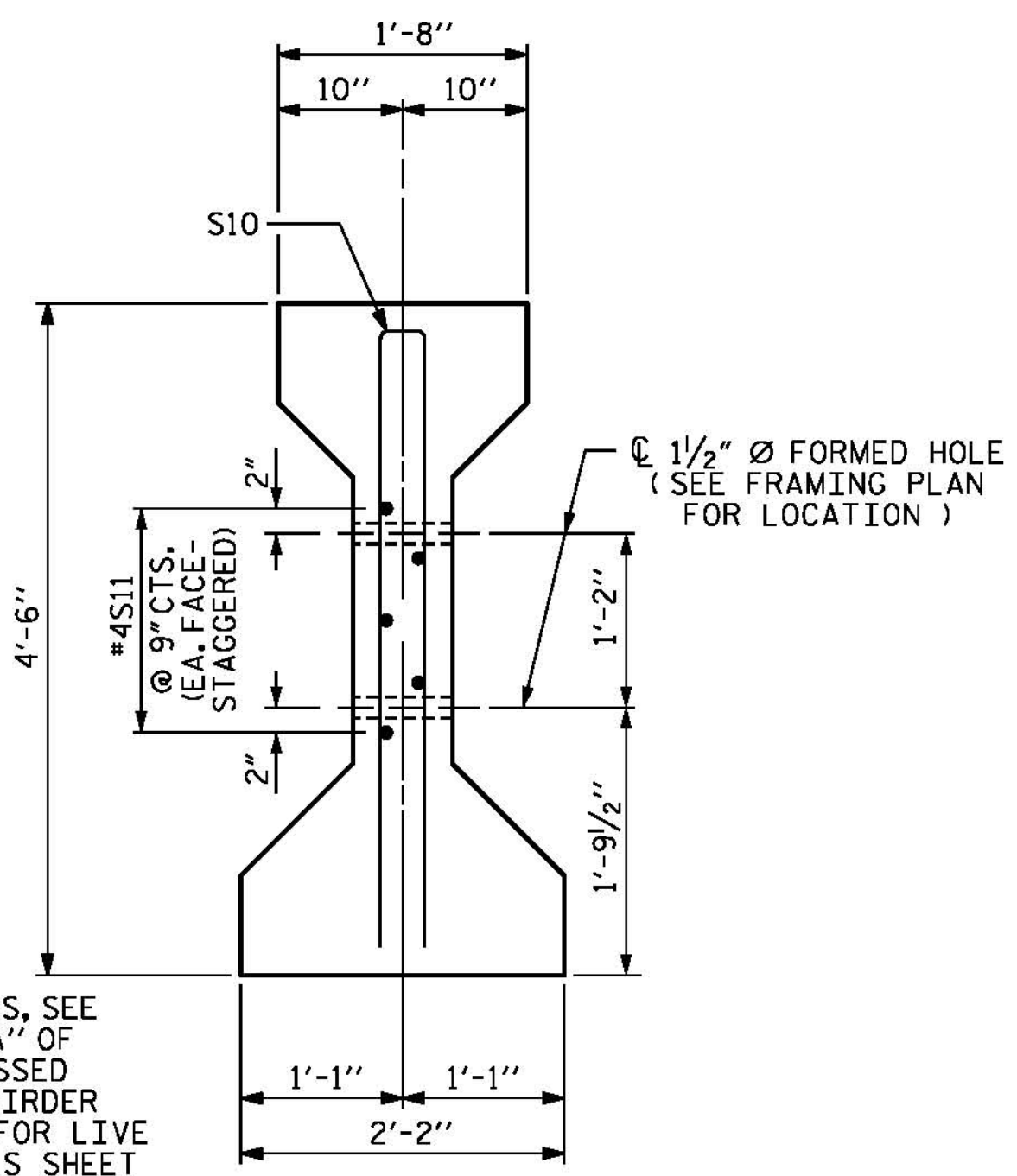
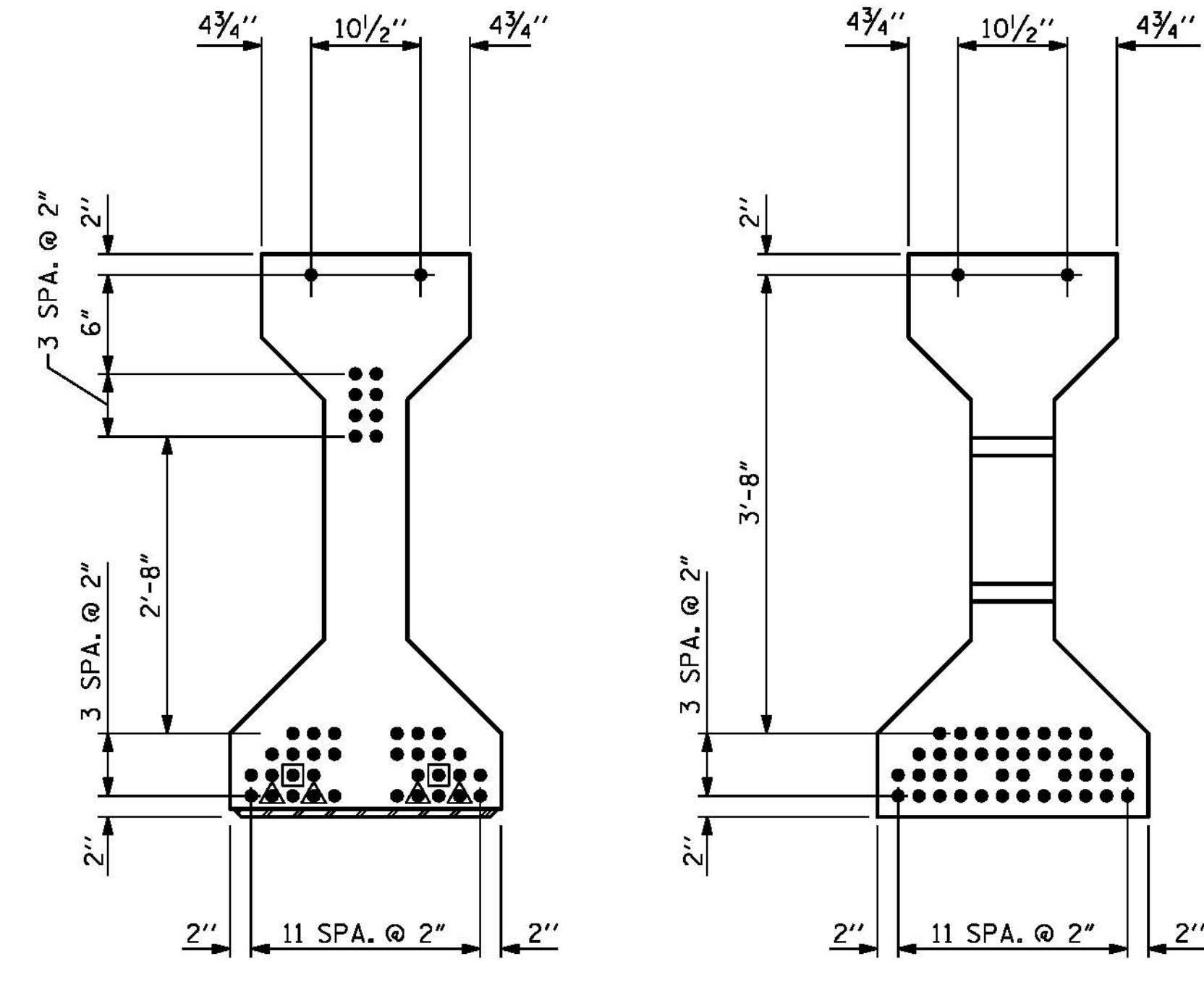


SECTION B-B

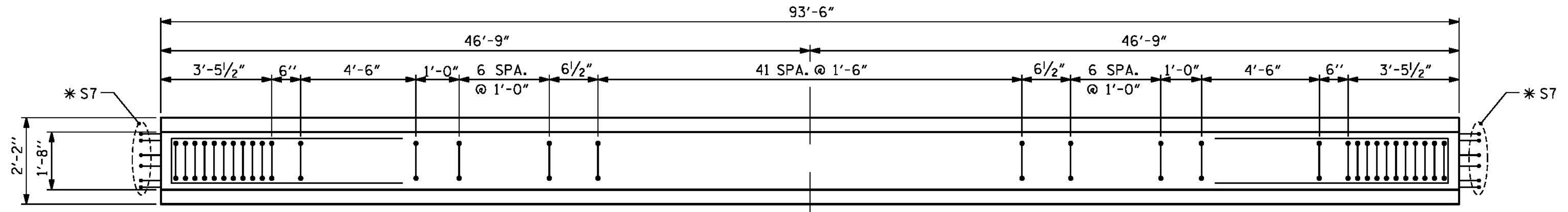


SECTION C-C  
(S1 BARS NOT SHOWN)

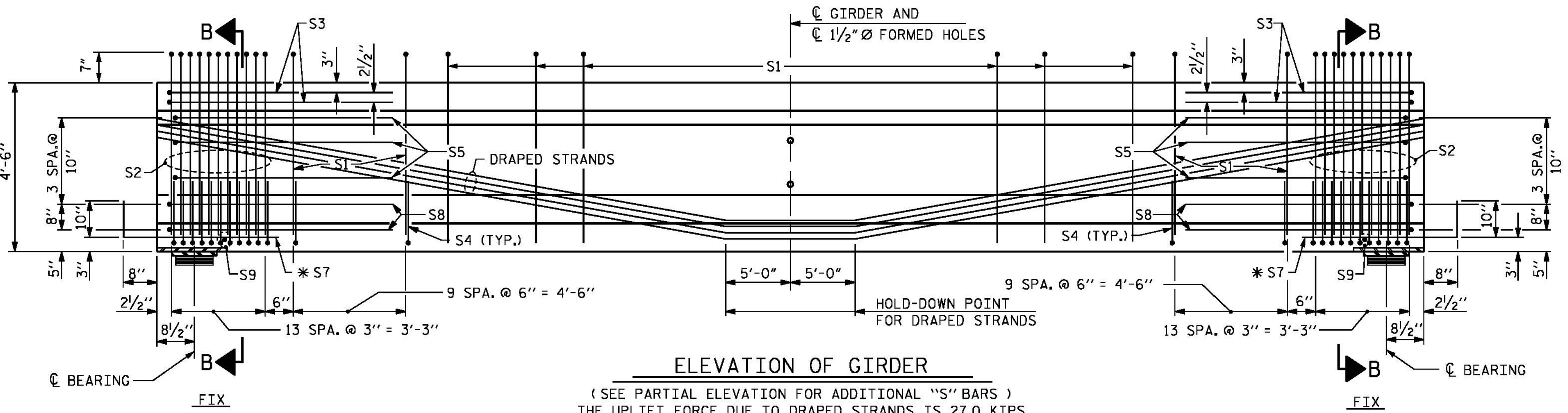


AT END OF GIRDER  
AT C OF GIRDER  
0.6" Ø LOW RELAXATION STRAND LAYOUT  
(42 STRANDS REQUIRED)

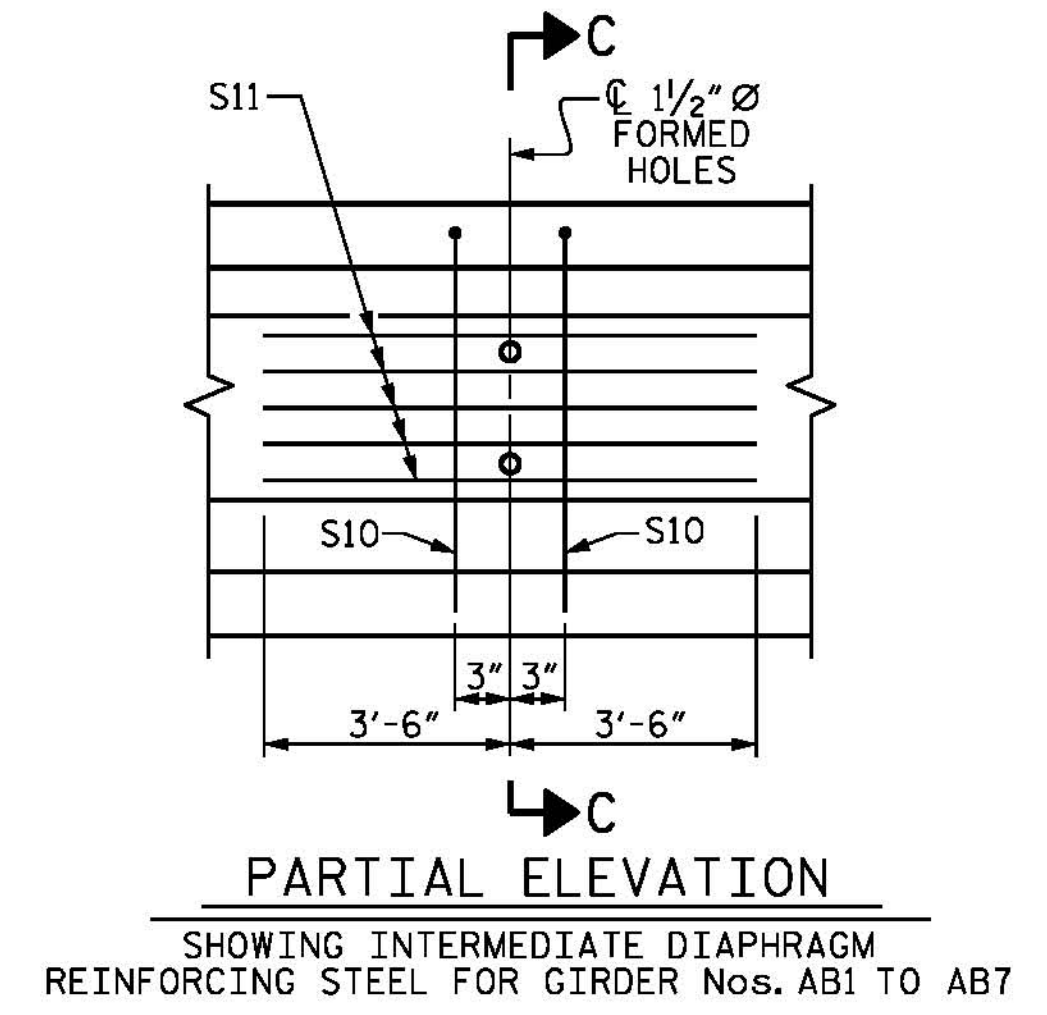
- DEBONDING LEGEND
- FULLY BONDED STRANDS
  - ◻ STRANDS DEBONDED FOR 2'-0" FROM END OF GIRDER
  - ◼ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER



PLAN OF GIRDER



ELEVATION OF GIRDER  
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)  
THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 27.0 KIPS



PARTIAL ELEVATION  
SHOWING INTERMEDIATE DIAPHRAGM  
REINFORCING STEEL FOR GIRDER Nos. AB1 TO AB7

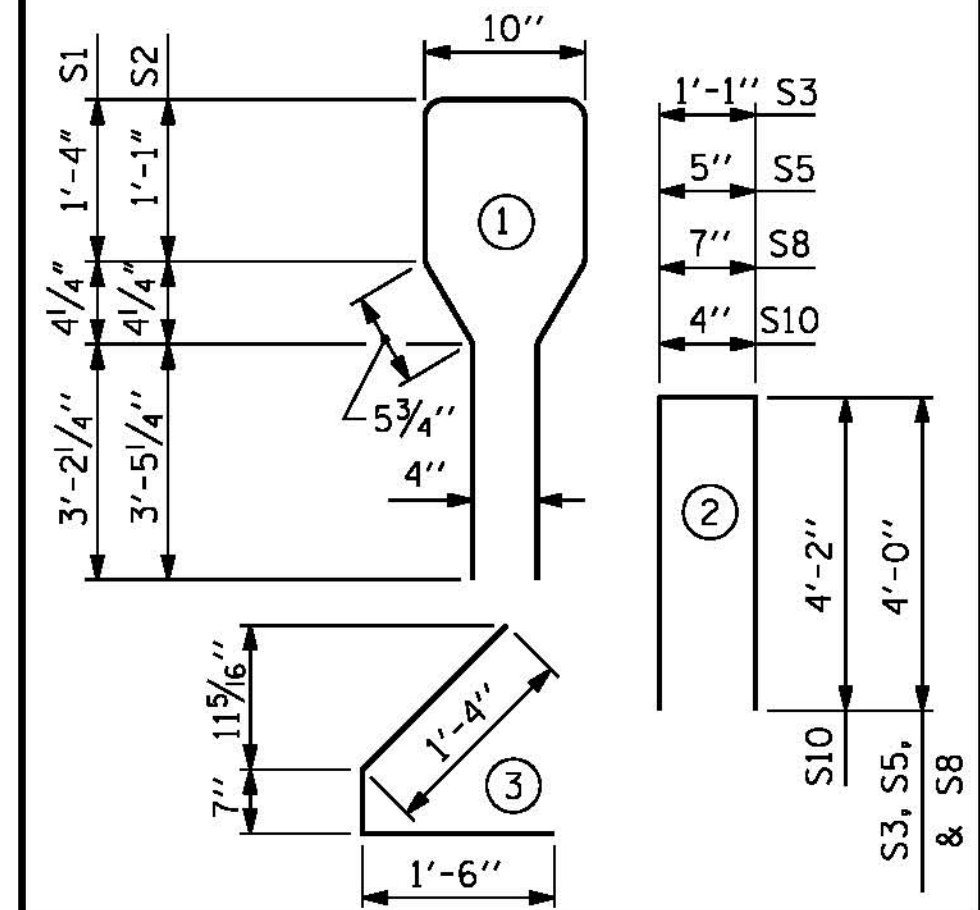
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	76	#4	1	10'-10"	550
S2	28	#6	1	10'-10"	456
S3	4	#4	2	9'-1"	24
S4	96	#4	3	3'-5"	219
S5	6	#4	2	8'-5"	34
* S7	12	#5	STR	3'-8"	46
S8	4	#4	2	8'-7"	23
S9	2	#3	STR	1'-10"	1
S10	2	#5	2	8'-8"	18
S11	5	#4	STR	7'-0"	23

\* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT

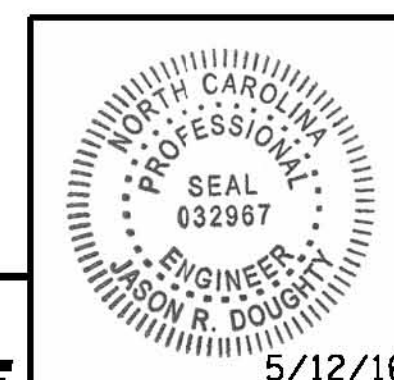


QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	9000 PSI CONCRETE	0.6" Ø L. R. STRANDS	
LB.	C.Y.	No.	
1394	18.98	42	

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
7	93.50'	654.50'

PROJECT NO. B-4929  
PENDER COUNTY  
STATION: 38+13.81 -L2-

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
AASHTO TYPE IV  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD  
SPAN AB



PARSONS BRINCKERHOFF  
434 FAYETTEVILLE STREET  
SUITE 1500  
RALEIGH, NC 27601  
LICENSE NO. F-0165

DocuSigned by:  
Jason R. Doughty  
00F1C8648274F7...

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS 278  
S-96  
STD. NO. PCG6

DESIGNED BY: J. BORUTA DATE: OCT 2015  
DRAWN BY: M. HOBBS DATE: OCT 2015  
CHECKED BY: M. WAGNER DATE: JAN 2016  
DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016

DRAWN BY: ELR 8/91 REV. 5/1/06R TLA/GM  
CHECKED BY: GRP 8/91 REV. 10/1/11 MAA/GM  
REV. 1/15 MAA/TMG

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

5/11/2016 400\_189\_B4929\_SMU\_G5.dgn