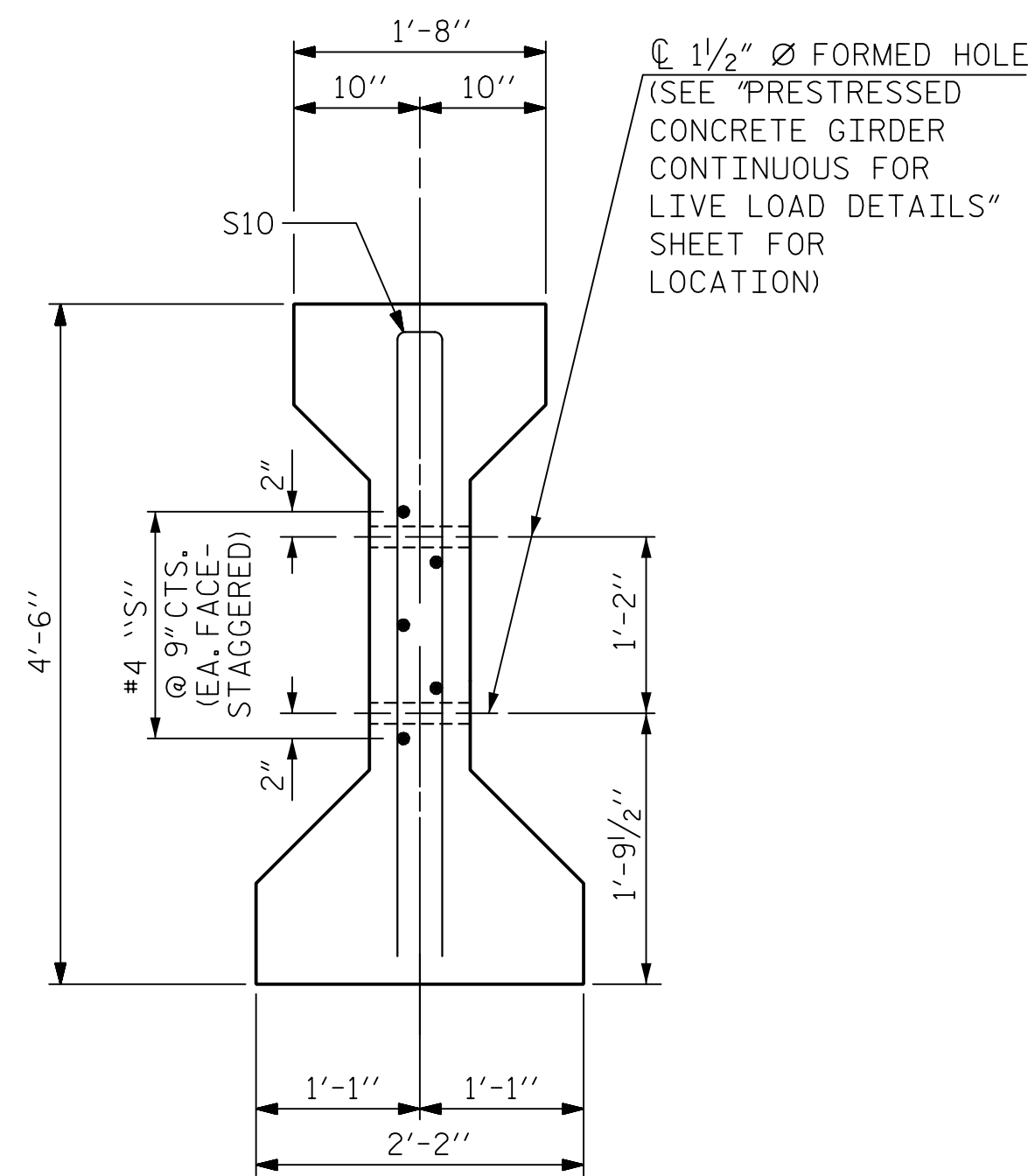
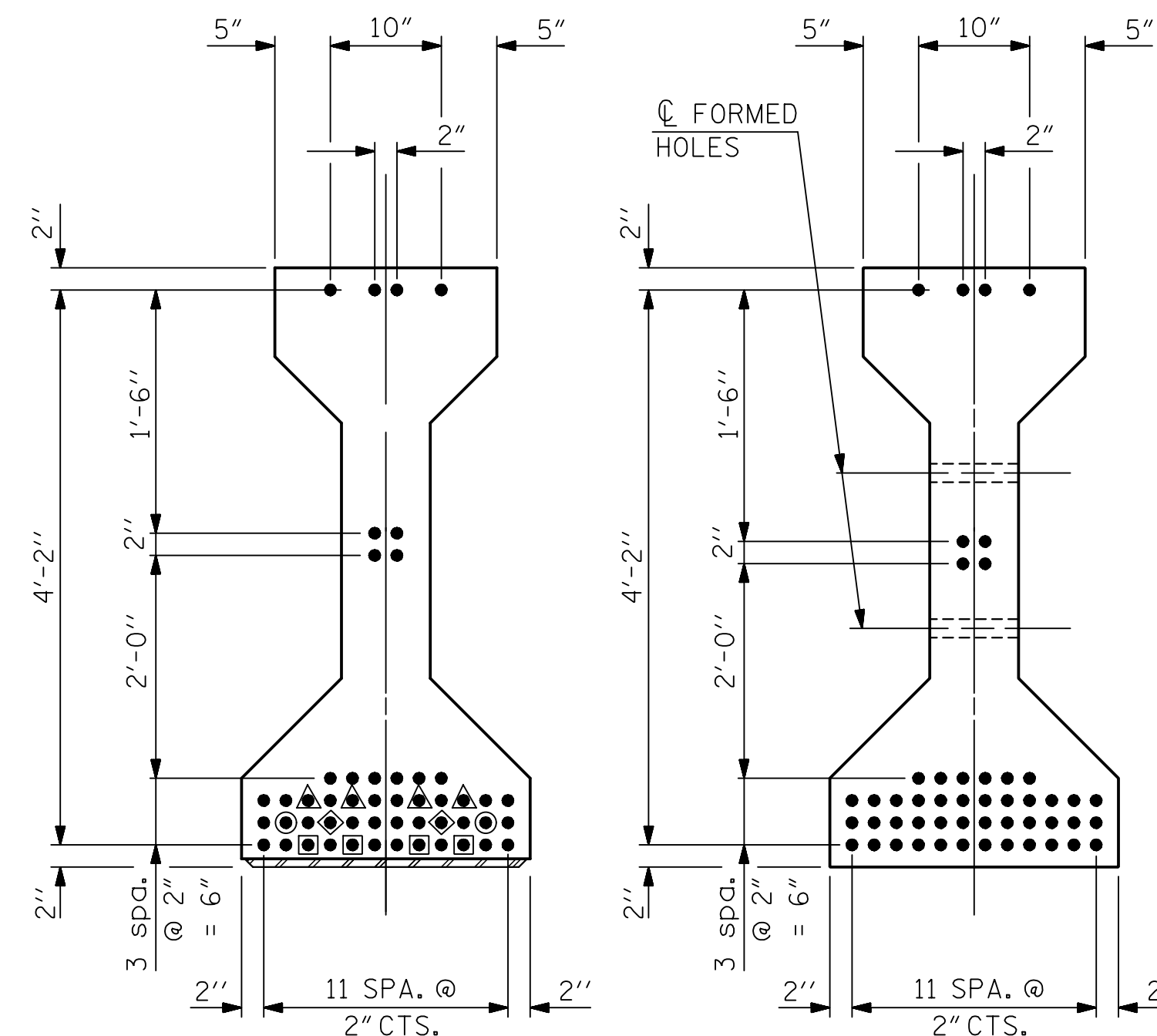


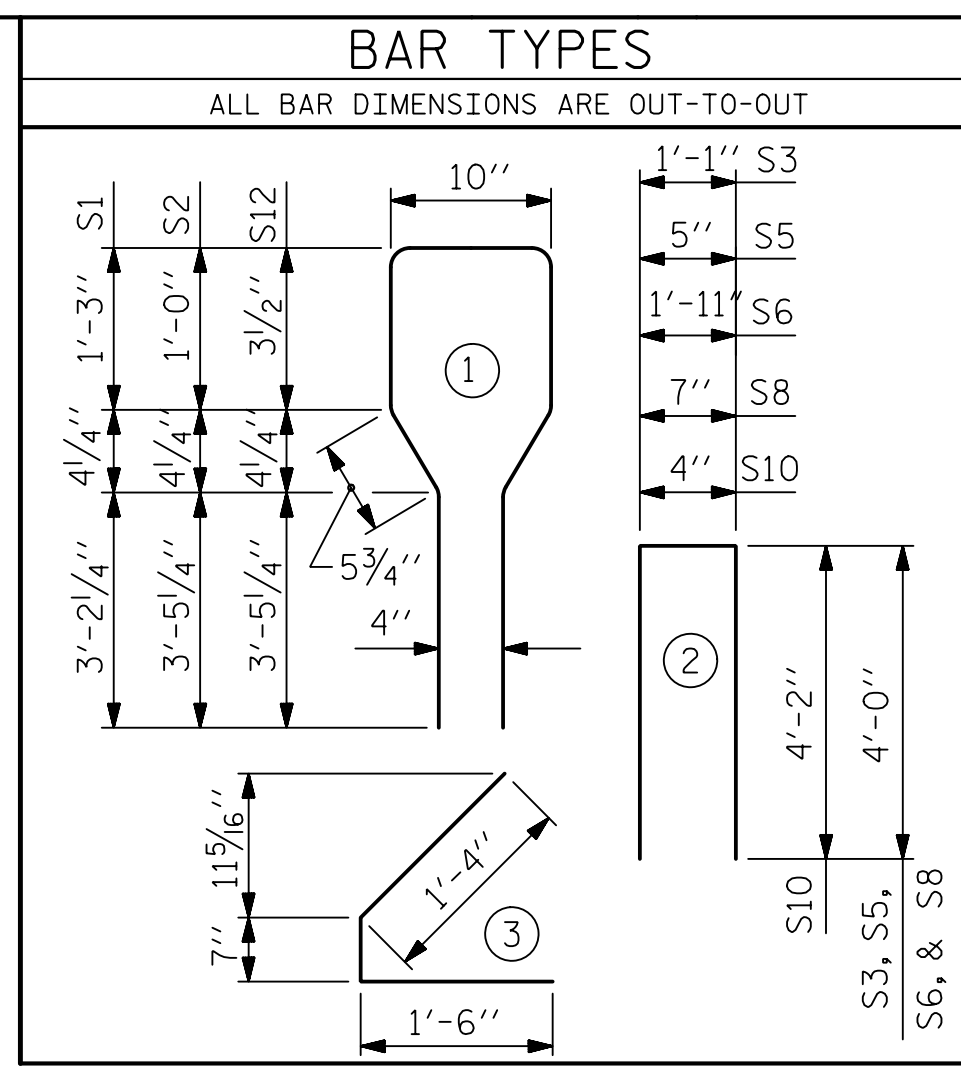
SECTION B-B



SECTION C-C  
(S1 BARS NOT SHOWN)



AT END OF GIRDER AT C OF GIRDER  
0.6" Ø LOW RELAXATION STRAND LAYOUT



- DEBONDING LEGEND
- FULLY BONDED STRANDS
  - STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
  - STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER
  - STRANDS DEBONDED FOR 22'-0" FROM END OF GIRDER
  - STRANDS DEBONDED FOR 30'-0" FROM END OF GIRDER

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	71	#4	1	10'-8"	506
S2	10	#6	1	10'-8"	160
S3	4	#4	2	9'-1"	24
S4	64	#4	3	3'-5"	146
S5	6	#4	2	8'-5"	34
S6	2	#4	2	9'-11"	13
S8	4	#4	2	8'-7"	23
S10	4	#5	2	8'-8"	36
S11	10	#4	STR	7'-0"	47
S12	22	#6	1	9'-3"	306

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
GB1-GB4	1,295	20.8	50

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4 (GB1-GB4)	102'-4 3/8"	409.46'

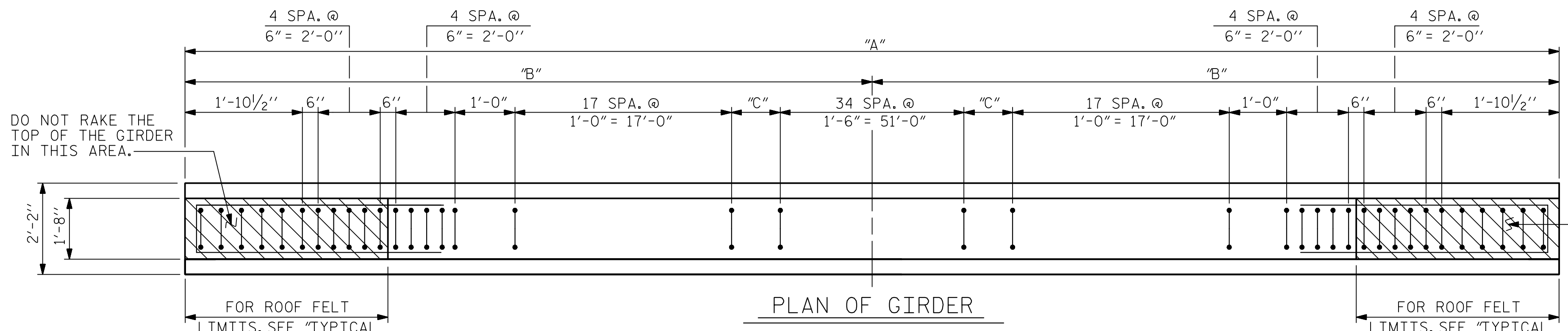
NOTES:

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6,750 PSI FOR SPAN B GIRDERS.

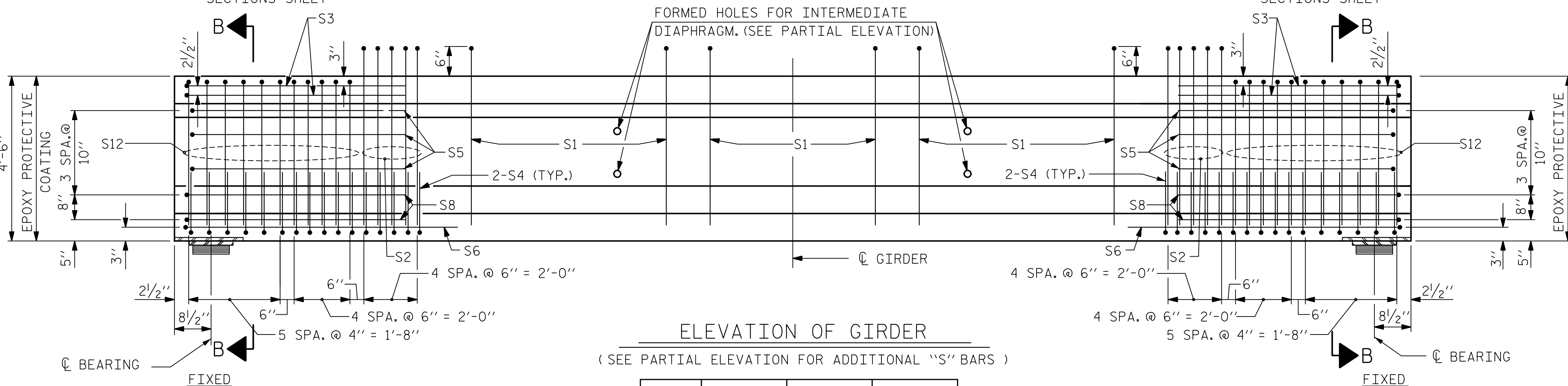
GIRDER CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 9,000 PSI AT THE AGE OF 28 DAYS.

PRESTRESSED CONCRETE GIRDERS ARE DESIGNED FOR 0 PSI TENSION IN THE PRECOMPRESSED TENSILE ZONE UNDER ALL LOADING CONDITIONS.

PRESTRESSED CONCRETE GIRDERS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR.



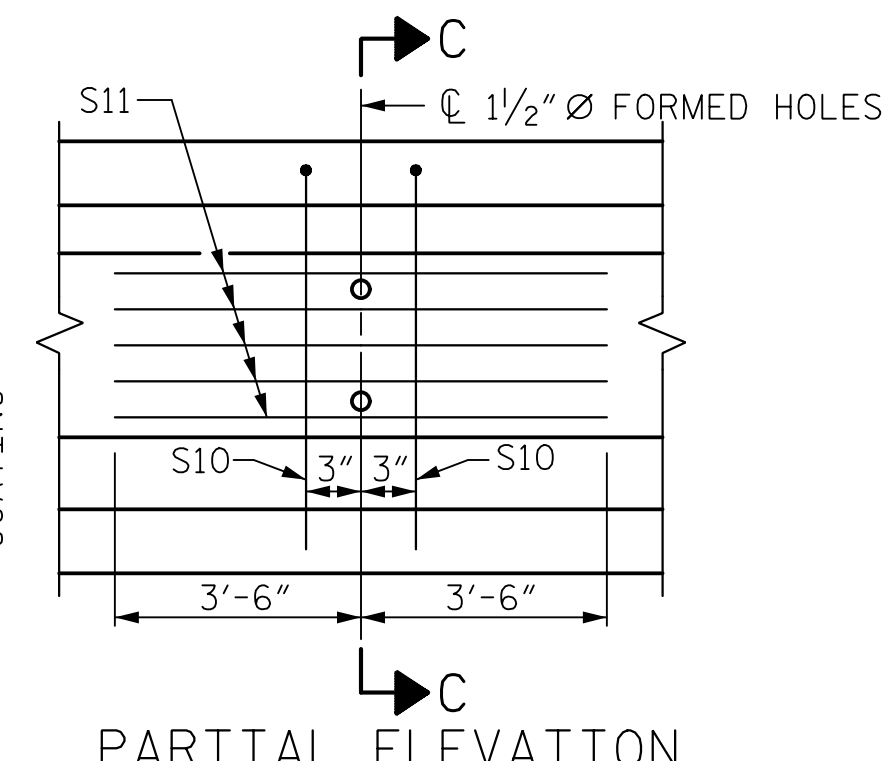
PLAN OF GIRDER



ELEVATION OF GIRDER

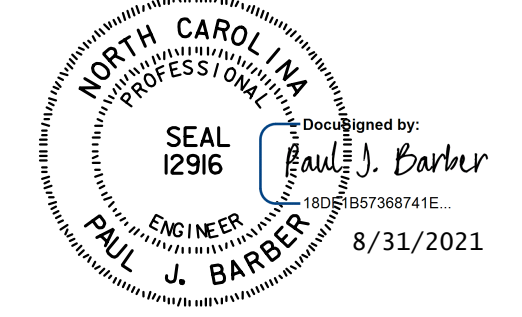
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

GIRDER	"A"	"B"	"C"
GB1	102'-4 3/8"	51'-2 3/16"	9 11/16"
GB2	102'-4 3/8"	51'-2 3/16"	9 11/16"
GB3	102'-4 3/8"	51'-2 3/16"	9 11/16"
GB4	102'-4 3/8"	51'-2 3/16"	9 11/16"



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER GB1 - GB4



PROJECT NO. R-5021  
BRUNSWICK COUNTY  
STATION: POC 390+15.00 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

STANDARD  
AASHTO TYPE IV  
PRESTRESSED CONCRETE GIRDER  
SPAN B  
RIGHT LANE

ASSEMBLED BY : AES DATE : 9/17  
CHECKED BY : BE DATE : 9/17

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

HNTB HNTB NORTH CAROLINA, P.C.  
NC License No. C-1554  
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY : M. WRIGHT DATE : 7/21  
CHECKED BY : P. BARBER DATE : 7/21  
DESIGN ENGINEER OF RECORD : P. BARBER DATE : 7/21

DWG. NO. 14

REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	DATE	S6-14
1			3		TOTAL SHEETS
2			4		39