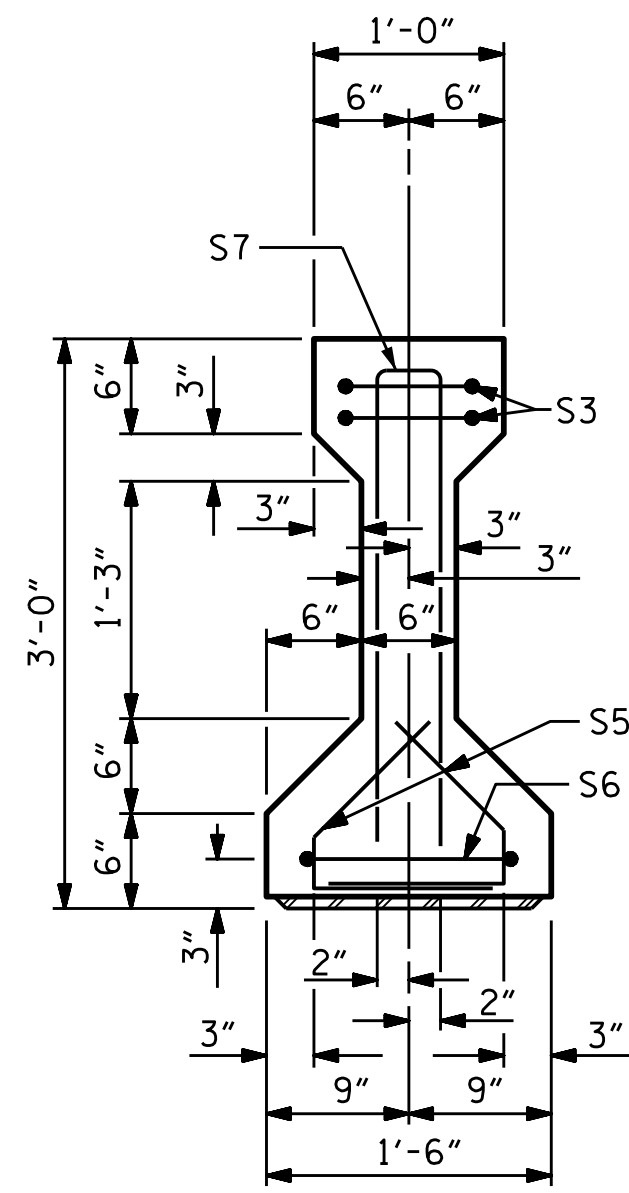
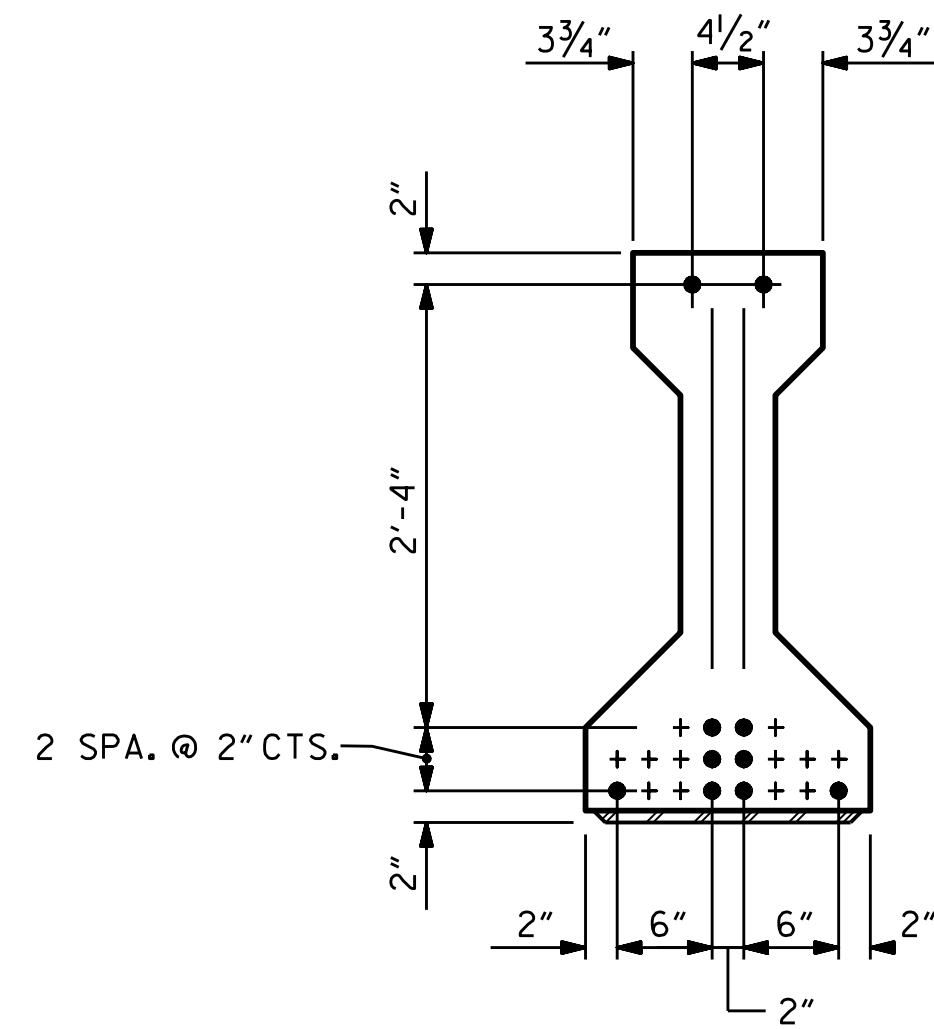


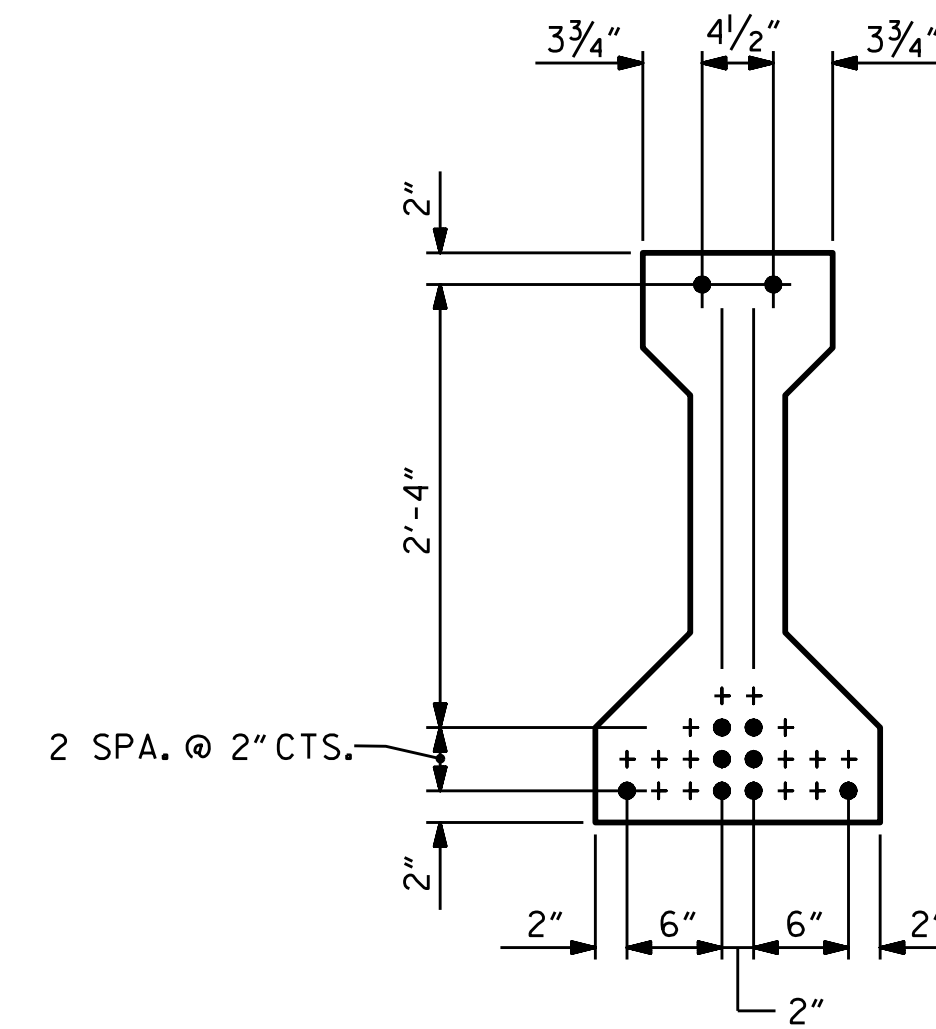
SECTION A-A



SECTION B-B

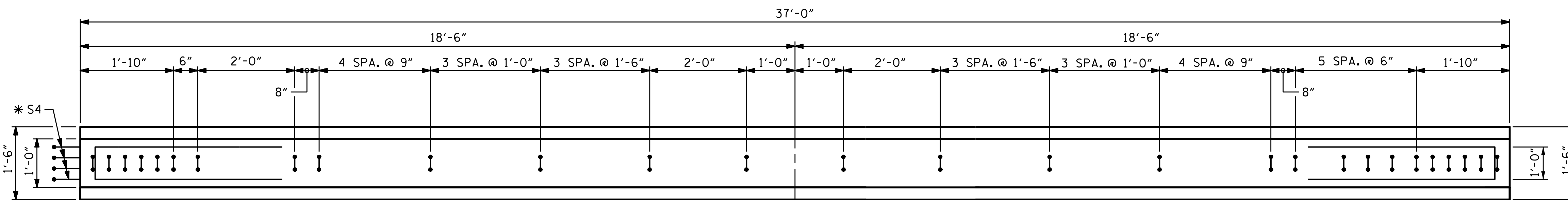


AT END OF GIRDER

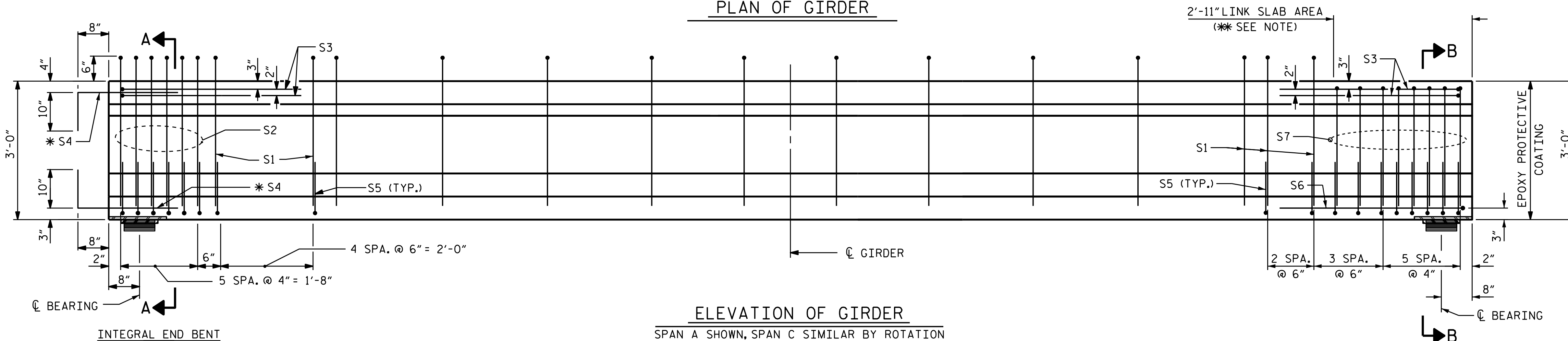


AT C OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER  
SPAN A SHOWN, SPAN C SIMILAR BY ROTATION

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

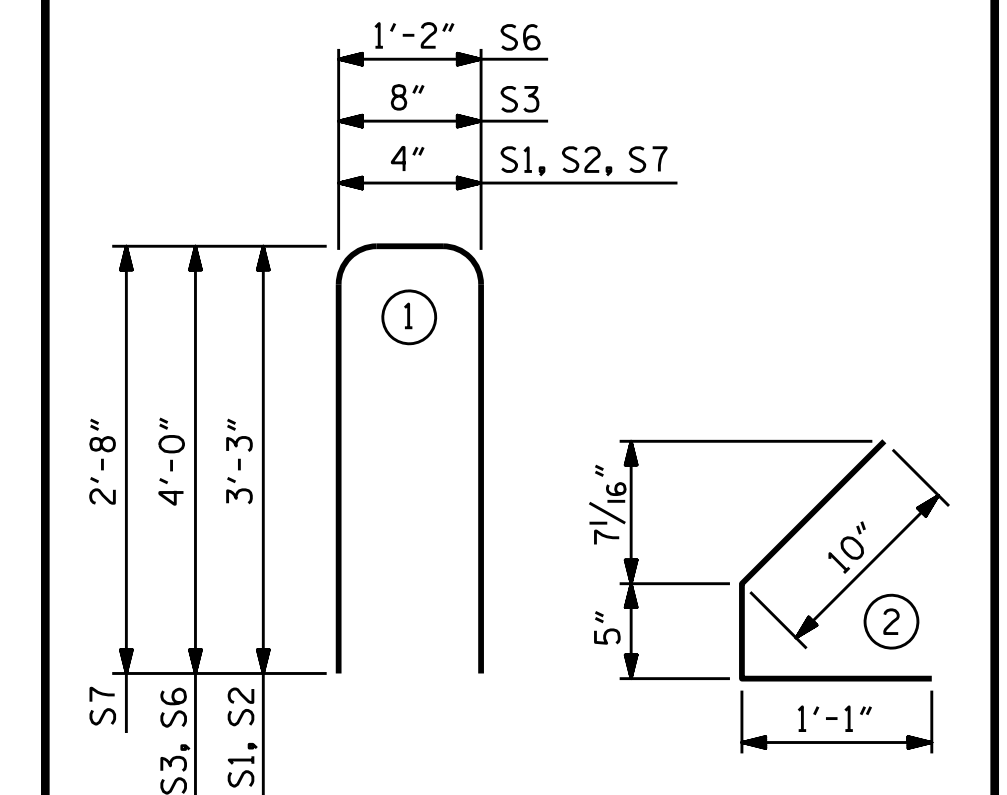
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	32	#4	1	6'-10"	146
S2	6	#5	1	6'-10"	43
S3	4	#4	1	8'-8"	23
* S4	8	#5	STR	3'-8"	31
S5	44	#4	2	2'-4"	69
S6	1	#4	1	9'-2"	6
S7	8	#5	1	5'-8"	47

\* NOTE: S4 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 LB.	5000 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
PER GIRDER	365	3.5	10

GIRDERS REQUIRED

	NUMBER	LENGTH	TOTAL LENGTH
SPAN A	5	37'-0"	185.00'
SPAN C	5	37'-0"	185.00'

PROJECT NO. R-5021  
BRUNSWICK COUNTY  
STATION: 369+42.00 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
AASHTO TYPE II  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD  
SPAN A & C  
(EBL)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-14
1			3			TOTAL SHEETS 38
2			4			

ASSEMBLED BY : OTN / PKN	DATE : 8/11/21
CHECKED BY : D. R. SHACKELFORD	DATE : 8/11/21
DRAWN BY : ELR 8/91	REV. 10/1/11 MAA/GM
CHECKED BY : GRP 8/91	REV. 1/15 MAA/TMG
	REV. 12/17 MAA/THC