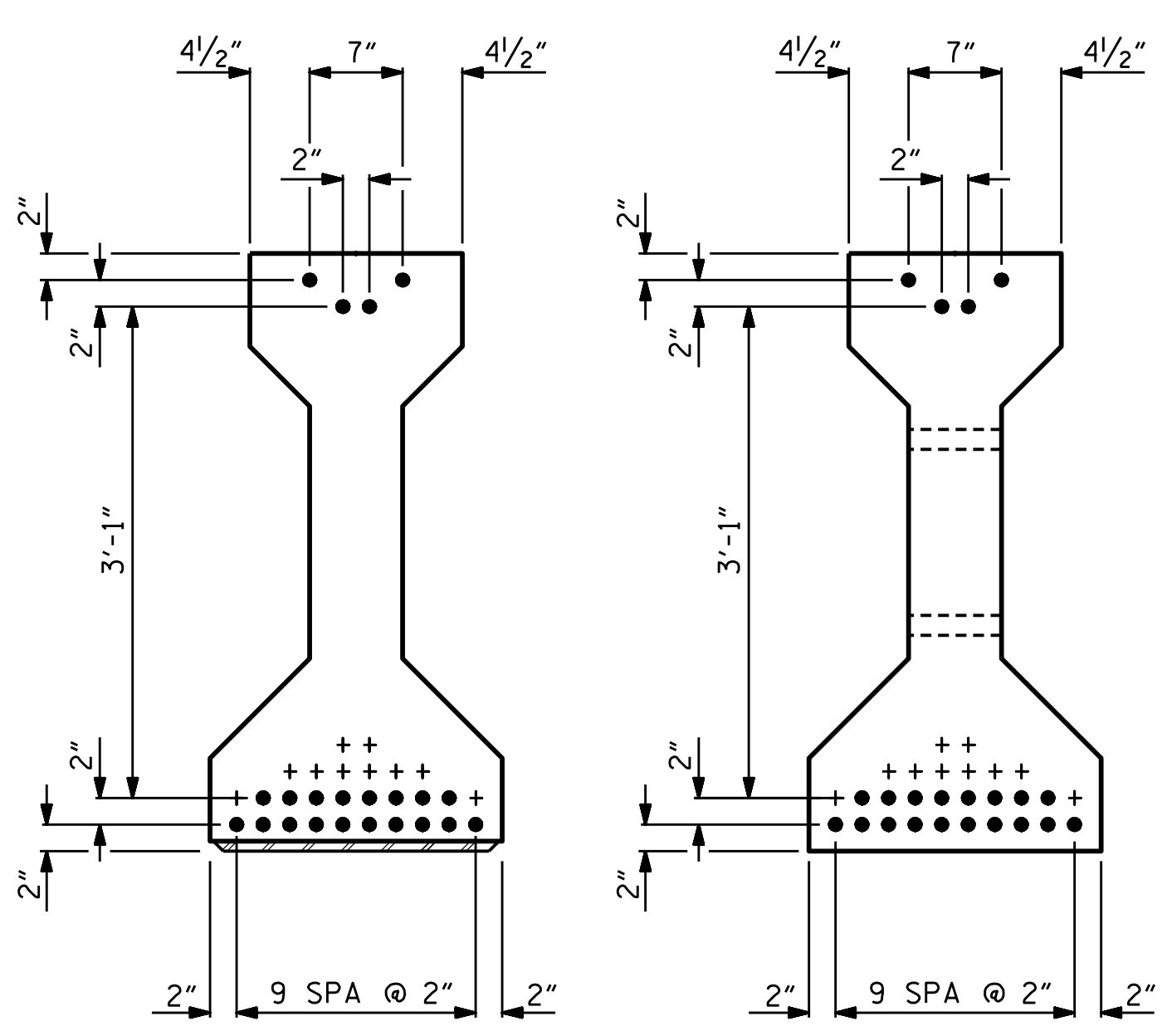
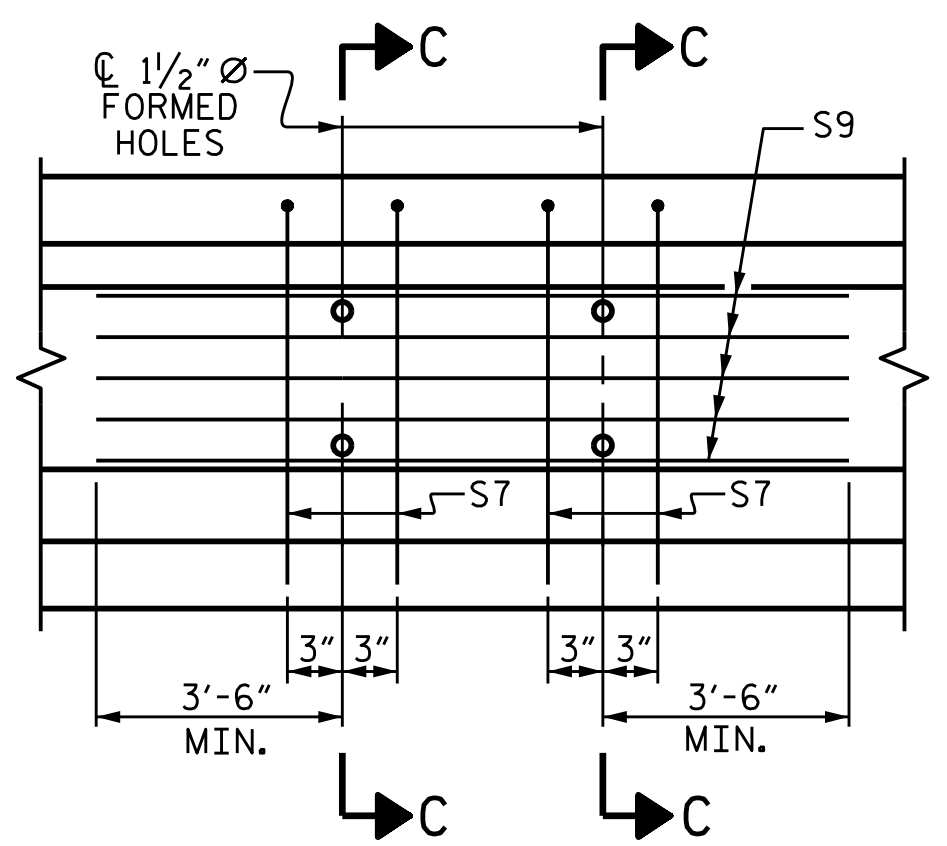


SECTION A-A SECTION B-B SECTION C-C (S1 BARS NOT SHOWN)

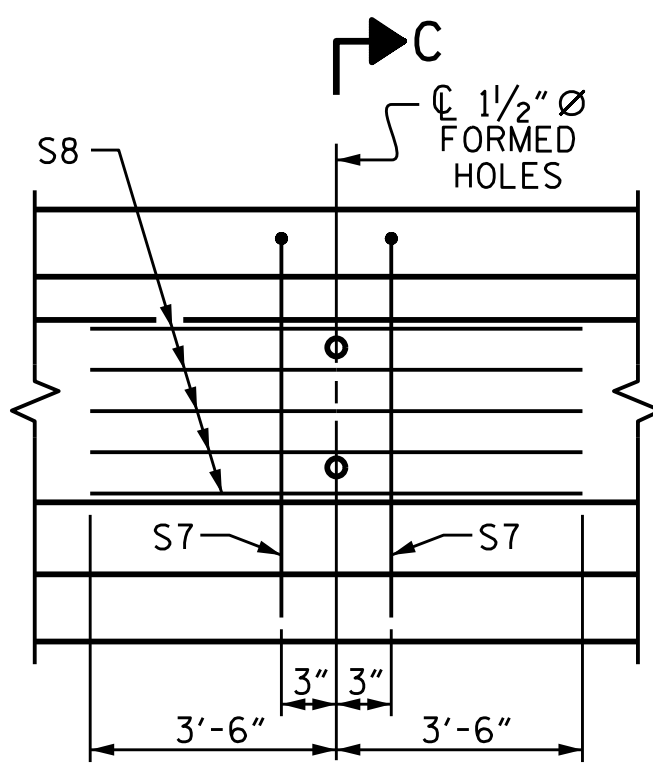


AT END OF GIRDER AT C OF GIRDER 0.6" Ø LOW RELAXATION STRAND LAYOUT

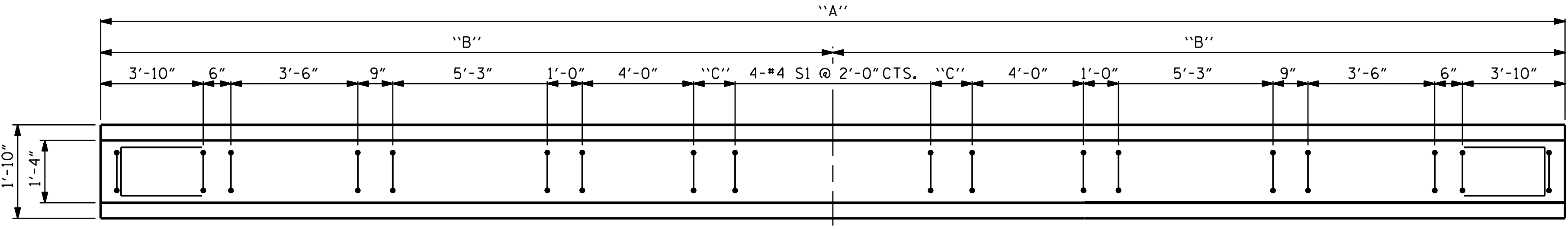
TABLE OF DIMENSIONS			
	"A"	"B"	"C"
GDR A1	46'-10 1/2"	23'-5 1/4"	1'-7 1/4"
GDR A2	46'-6 5/8"	23'-3 5/16"	1'-5 5/16"
GDR A3	46'-2 7/8"	23'-1 1/16"	1'-3 3/16"
GDR A4	45'-11 3/8"	22'-11 1/16"	1'-1 1/16"



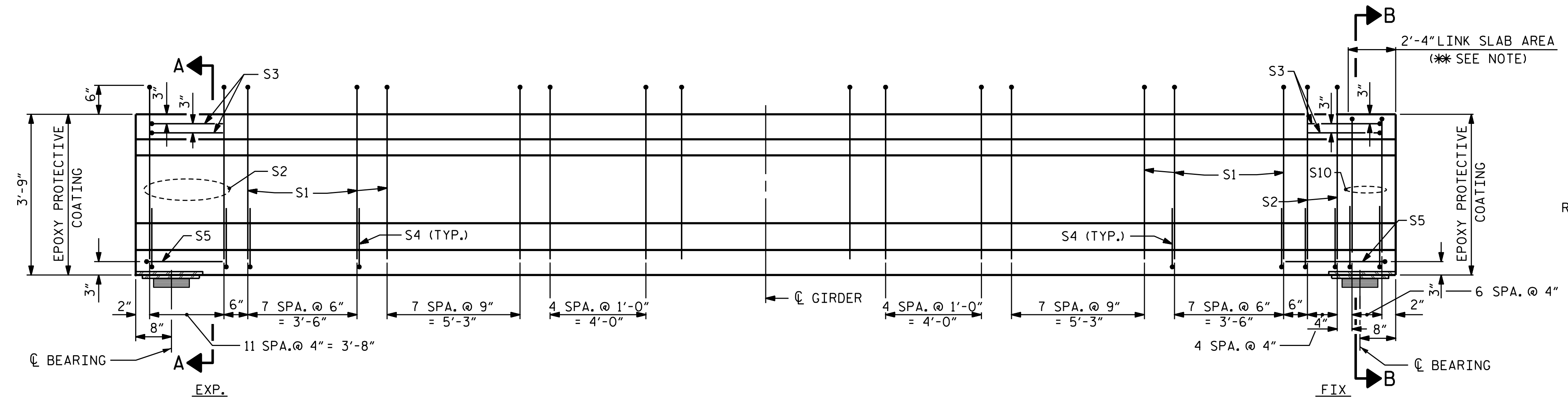
PARTIAL ELEVATION SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER A2 & A3



PARTIAL ELEVATION SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER A1 & A4



PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

DRAWN BY : ZCS DATE : 1/23
 CHECKED BY : MGC DATE : 1/23
 DESIGN ENGINEER OF RECORD : RDE DATE : 1/23

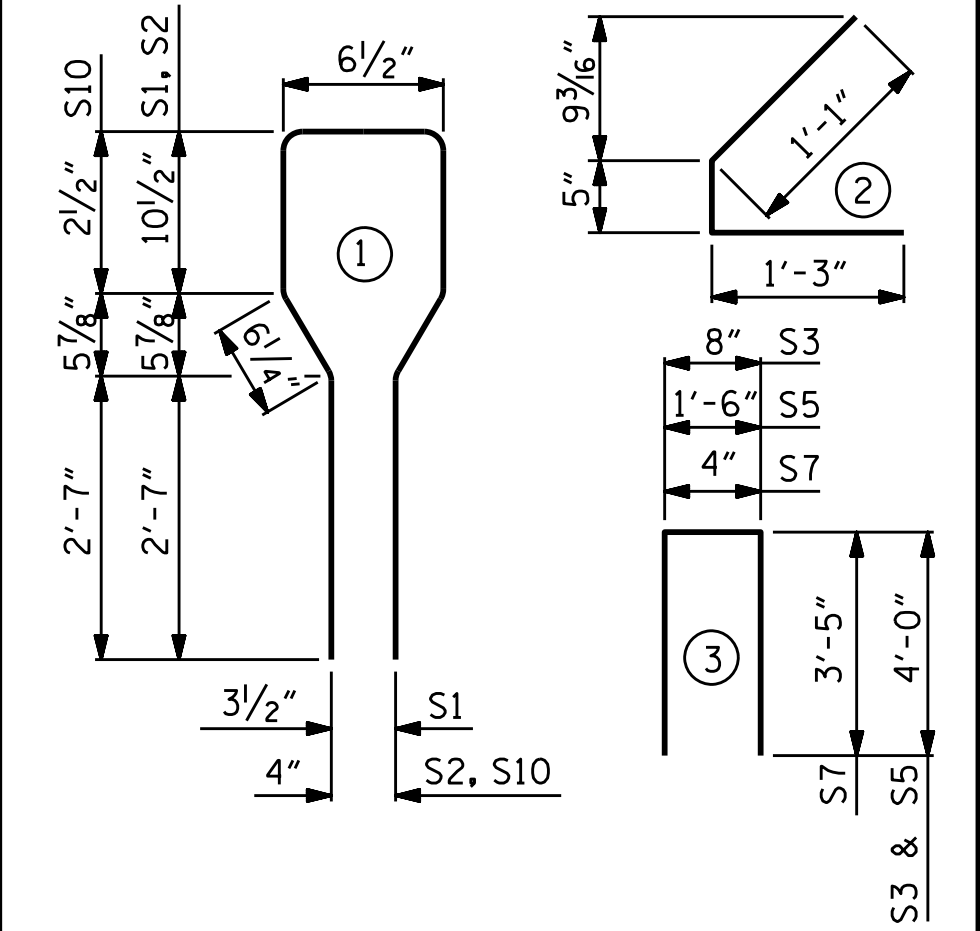
** DO NOT ROUGHEN TOP OF GIRDER IN THIS AREA

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	46	#4	1	8'-6"	261
S2	17	#6	1	8'-6"	217
S3	4	#4	3	8'-8"	23
S4	80	#4	2	2'-9"	147
S5	2	#4	3	9'-6"	13
EXT. GDR. S7	2	#5	3	7'-2"	15
INT. GDR. S7	4	#5	3	7'-2"	30
EXT. GDR. S8	5	#4	STR	7'-0"	23
S9	5	#4	STR	16'-2"	54
INT. GDR. S10	7	#6	1	7'-2"	75

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



GIRDER QUANTITIES

	REINFORCING STEEL (LB.)	7000 PSI CONCRETE (C.Y.)	0.6" Ø L. R. STRANDS (No.)
GIRDER A1	774	6.7	22
GIRDER A2	820	6.7	22
GIRDER A3	820	6.7	22
GIRDER A4	774	6.6	22

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	VARIES	185'-7 3/8"

PROJECT NO. 17BP.14.R.204
 JACKSON COUNTY
 STATION: 24+58.00-L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 AASHTO TYPE III
 PRESTRESSED CONCRETE
 GIRDER
 SPAN A

11/15/2023 | 7:42 AM EST

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
 201 W. MARION ST STE 200
 SHELBY, NC 28150
 PH: (704) 476-0003
 CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-15
1			3			TOTAL SHEETS
2			4			47

STD. NO. PCG5