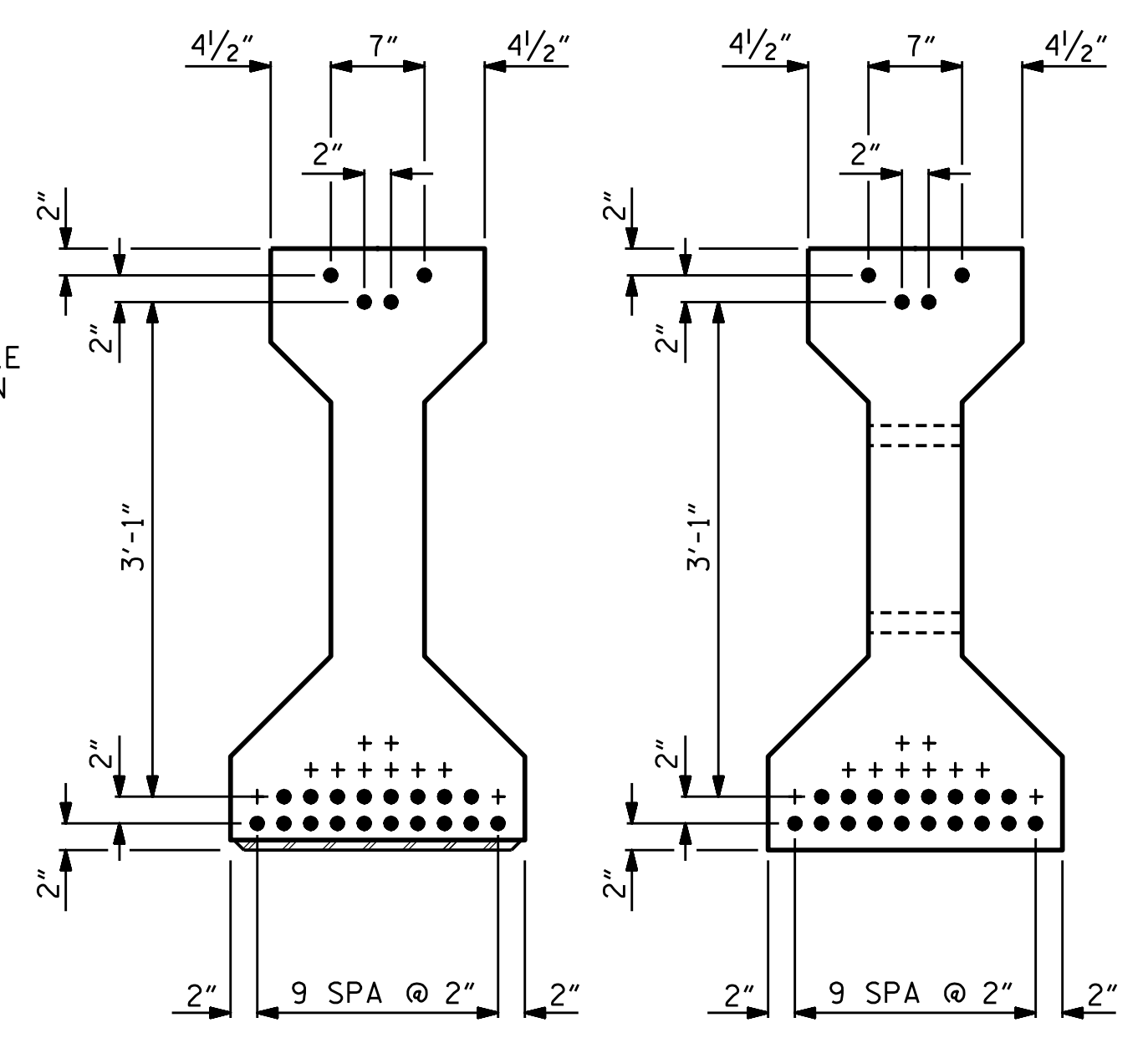


SECTION A-A

SECTION B-B

SECTION C-C  
(S1 BARS NOT SHOWN)

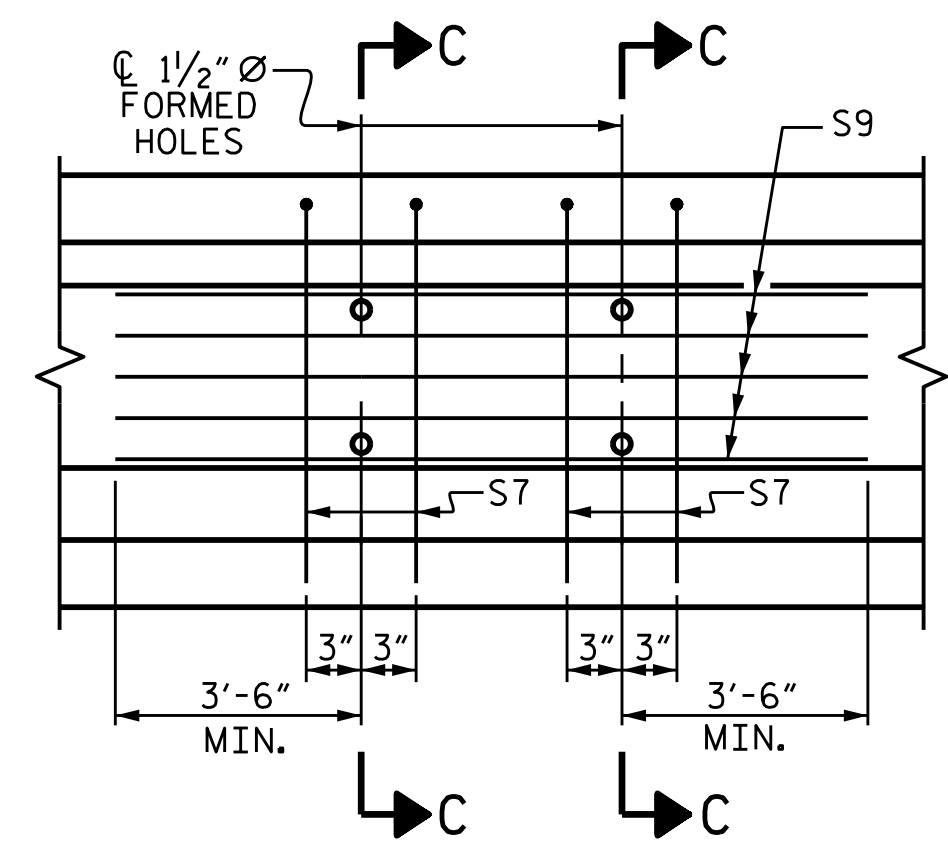


AT END OF GIRDER

AT C OF GIRDER

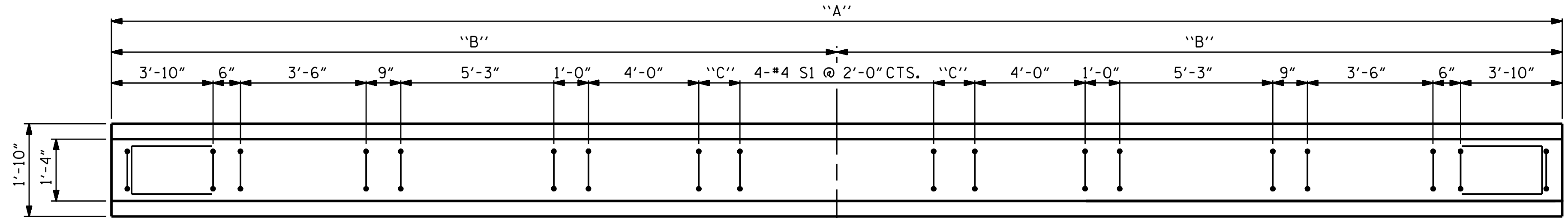
0.6" Ø LOW RELAXATION STRAND LAYOUT

TABLE OF DIMENSIONS			
	"A"	"B"	"C"
GDR C1	46'-8 <sup>5</sup> / <sub>8</sub> "	23'-4 <sup>5</sup> / <sub>16</sub> "	1'-6 <sup>5</sup> / <sub>16</sub> "
GDR C2	46'-2 <sup>7</sup> / <sub>8</sub> "	23'-1 <sup>7</sup> / <sub>16</sub> "	1'-3 <sup>7</sup> / <sub>16</sub> "
GDR C3	45'-9 <sup>3</sup> / <sub>8</sub> "	22'-10 <sup>1</sup> / <sub>16</sub> "	1'-0 <sup>1</sup> / <sub>16</sub> "
GDR C4	45'-4 <sup>1</sup> / <sub>8</sub> "	22'-8 <sup>1</sup> / <sub>16</sub> "	10 <sup>1</sup> / <sub>16</sub> "

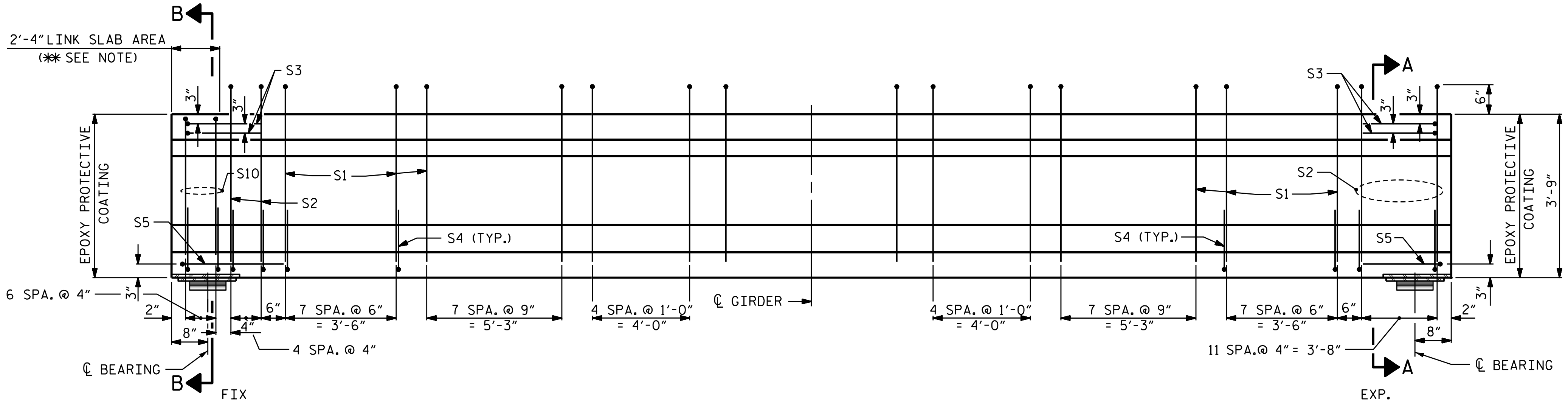


PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER C2 & C3

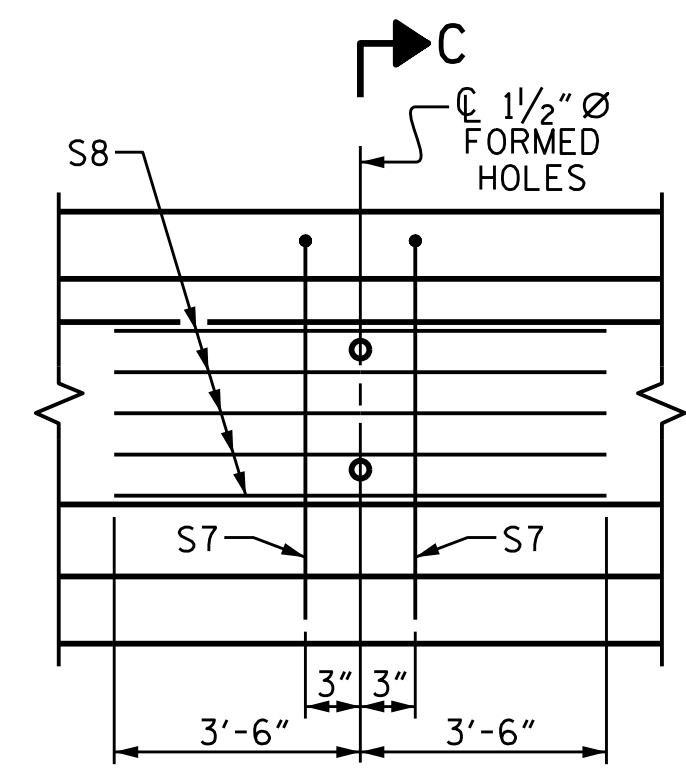


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER C1 & C4

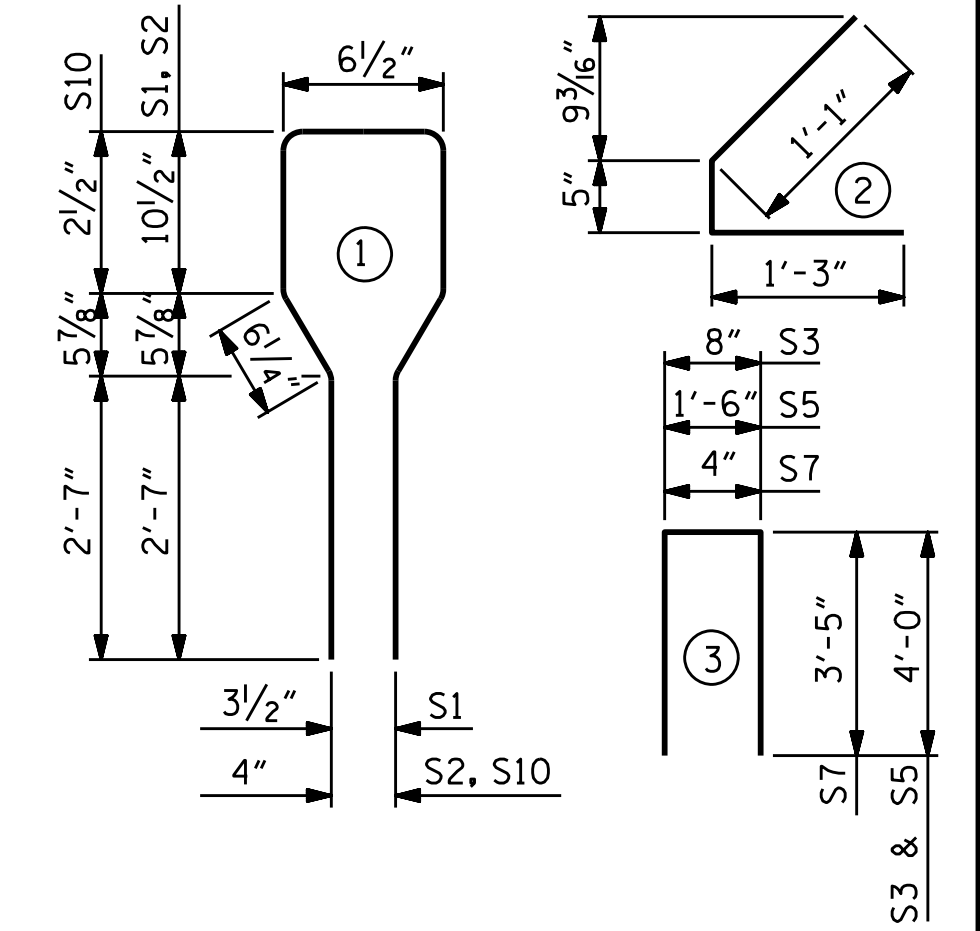
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

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
INT GDR. S9	5	#4	STR	18'-3"	61
S10	7	#6	1	7'-2"	75

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



GIRDER QUANTITIES

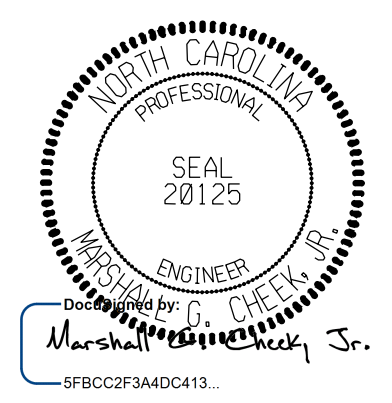
	REINFORCING STEEL		7000 PSI CONCRETE		0.6" Ø L. R. STRANDS	
	LB.	C.Y.			No.	
GIRDER C1	774	6.7			22	
GIRDER C2	827	6.7			22	
GIRDER C3	827	6.6			22	
GIRDER C4	774	6.5			22	

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	VARIES	184'-1"

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

SHEET 3 OF 5



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

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

REVISIONS						SHEET NO. S-17
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 47
2			4			

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