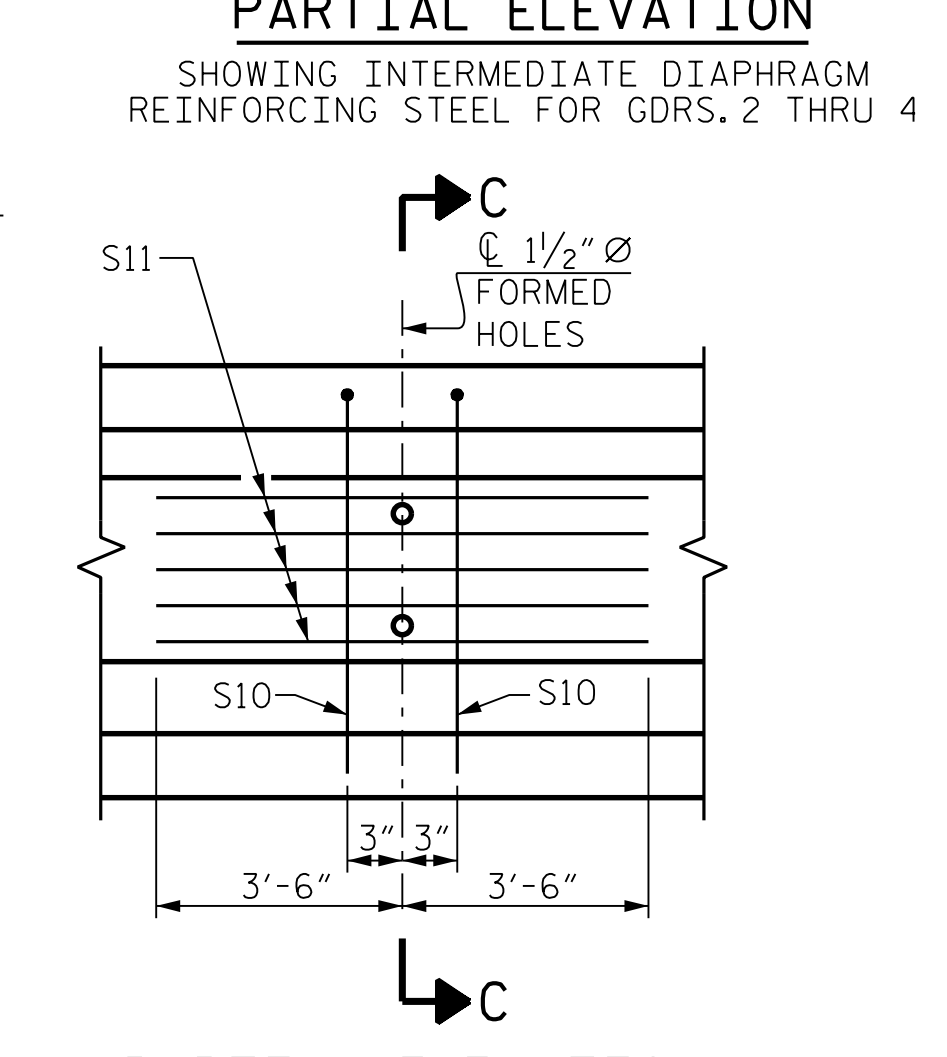
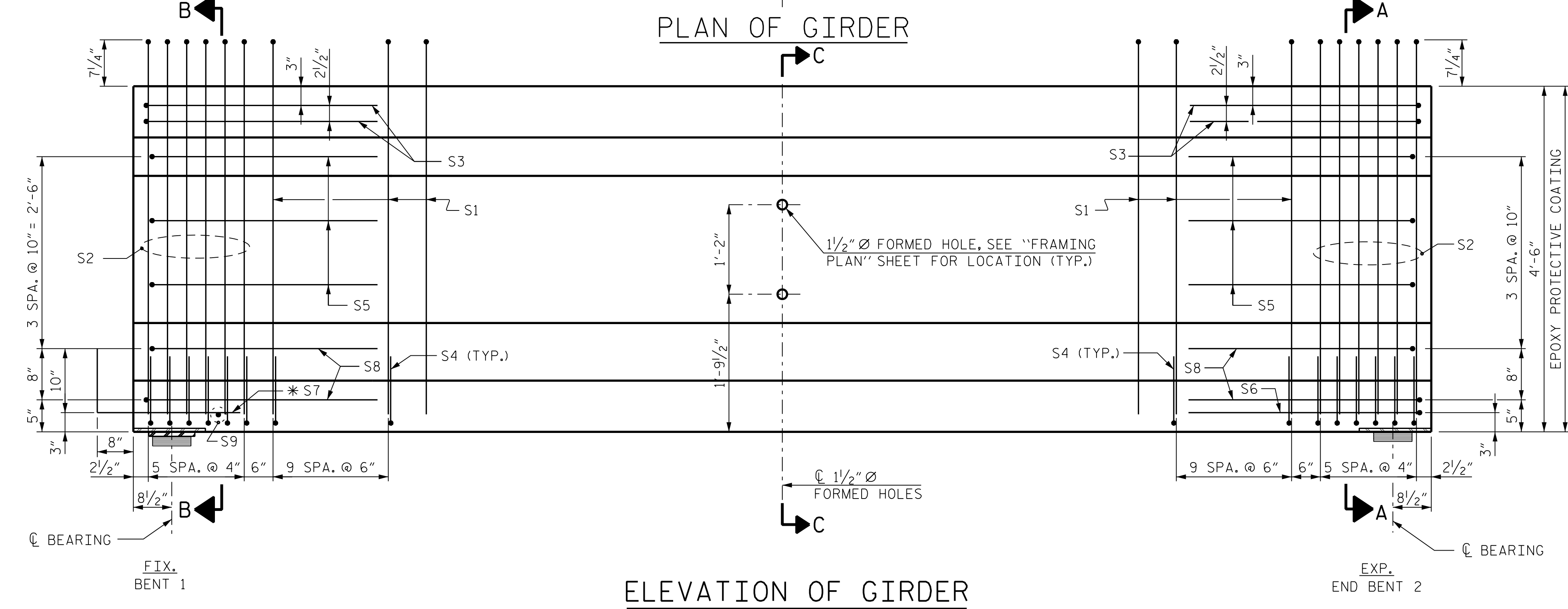
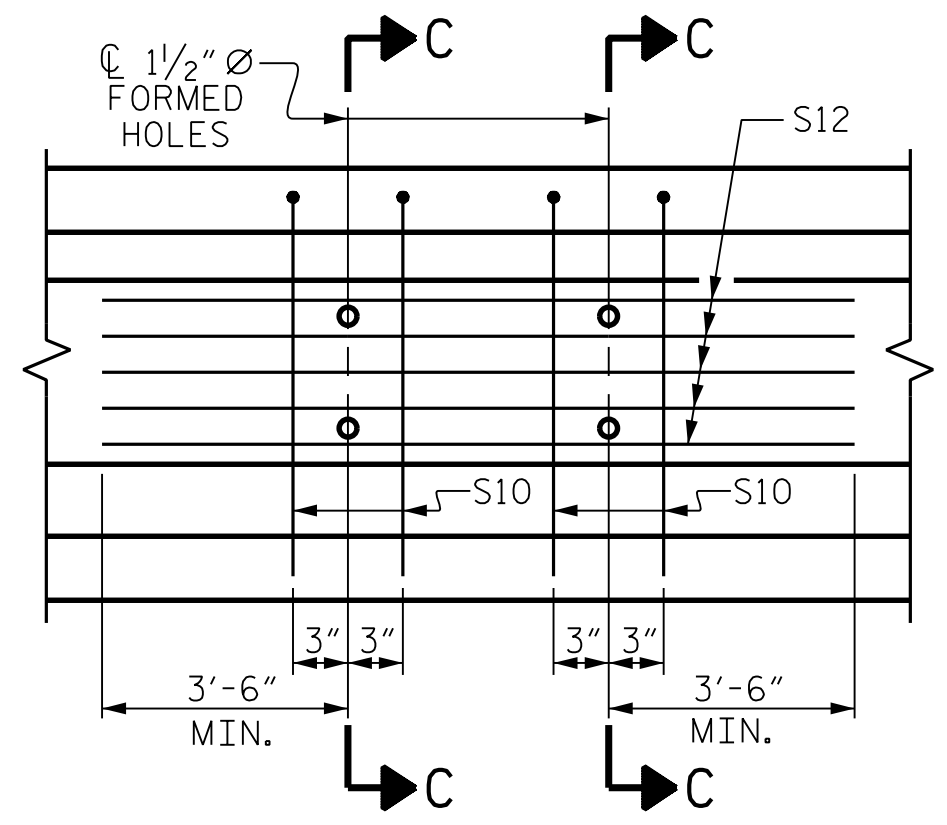
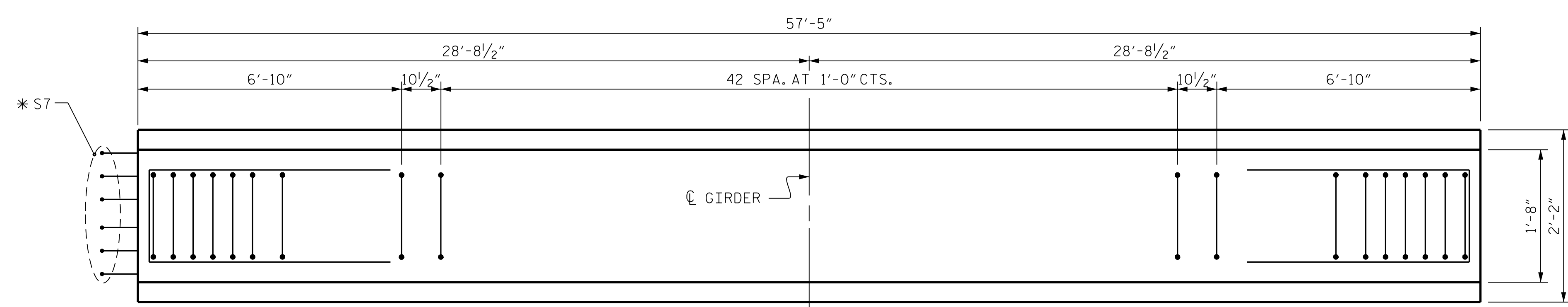


0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	43	#4	1	10'-8"	306
S2	12	#6	1	10'-8"	192
S3	4	#4	2	9'-1"	24
S4	64	#4	3	3'-5"	146
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
*S7	6	#5	STR.	3'-8"	23
S8	4	#4	2	8'-7"	23
S9	1	#3	STR.	1'-10"	1
S10	2	#5	2	8'-8"	18
S11	5	#4	STR.	7'-0"	23
S12	5	#4	STR.	11'-10"	40

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

BAR TYPES	
	S1
	S2
	S3
	S4
	S5
	S6
	S7
	S8
	S9
	S10
	S11
	S12

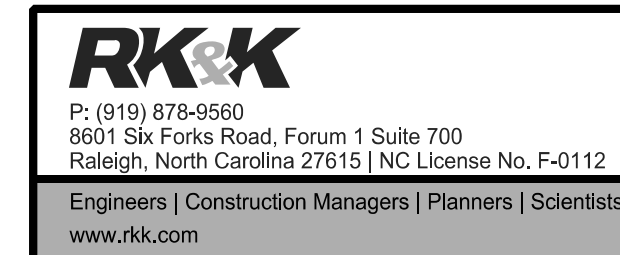
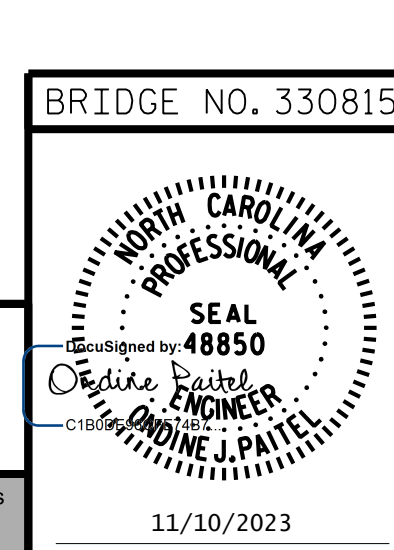


QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL (LB.)	6,700 PSI CONCRETE (C.Y.)	0.6" Ø L. R. STRANDS (No.)
GDRS. 1 & 5	797	11.7	14
GDRS. 2-4	832	11.7	14

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
5	57'-5"	287'-1"

PROJECT NO. R-2577A  
 FORSYTH COUNTY  
 STATION: 140+39.50 -L-

SHEET 2 OF 4



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD SPAN B LEFT LANE

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

11/10/2023 R:\Structures\BRIDGE\LeftBridge\DG\N\FINAL\R2577A\_SMU\_G2\_330814.dgn

DRAWN BY : T. K. BOYD      DATE : SEP 2023  
 CHECKED BY : L. K. AUSTIN      DATE : SEP 2023  
 DESIGN ENGINEER OF RECORD : O. J. PAITEL      DATE : SEP 2023