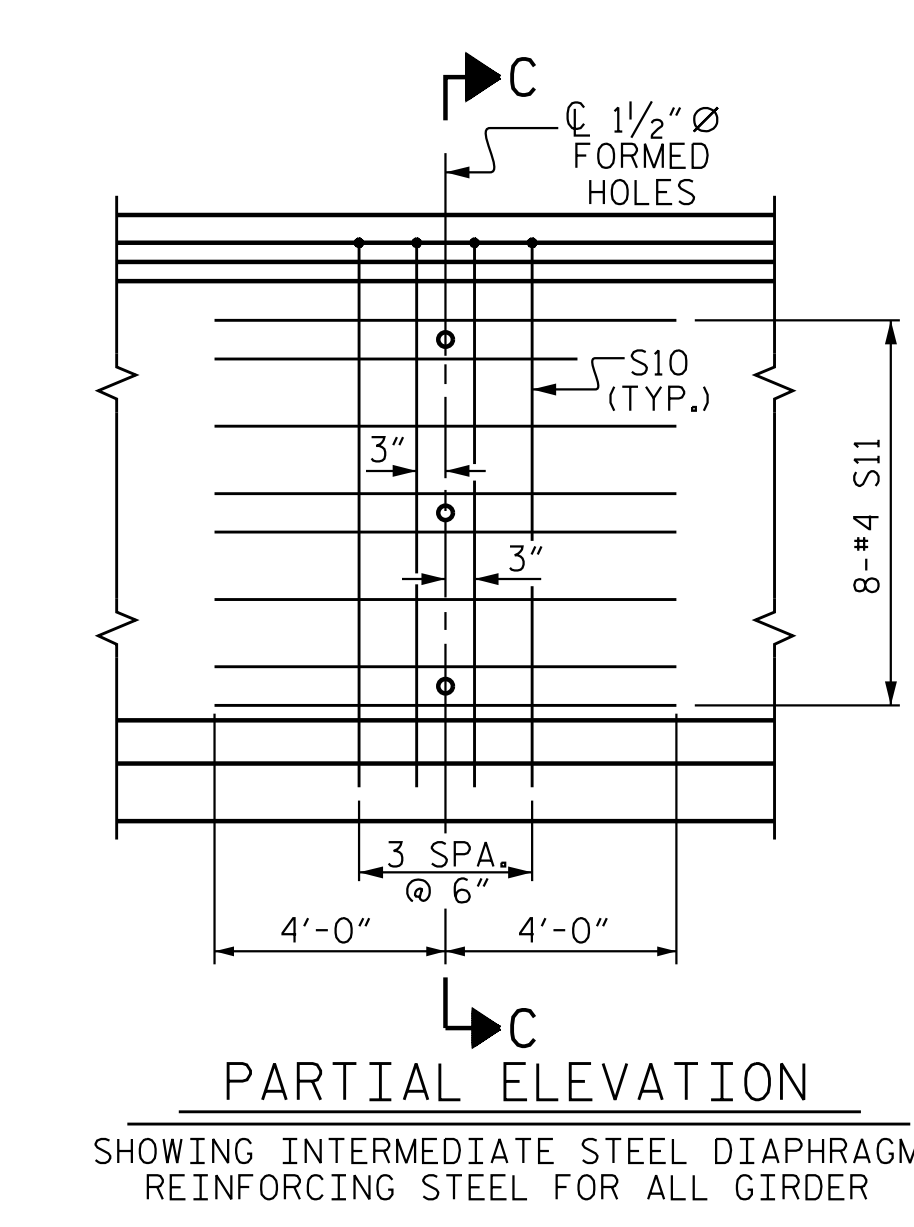
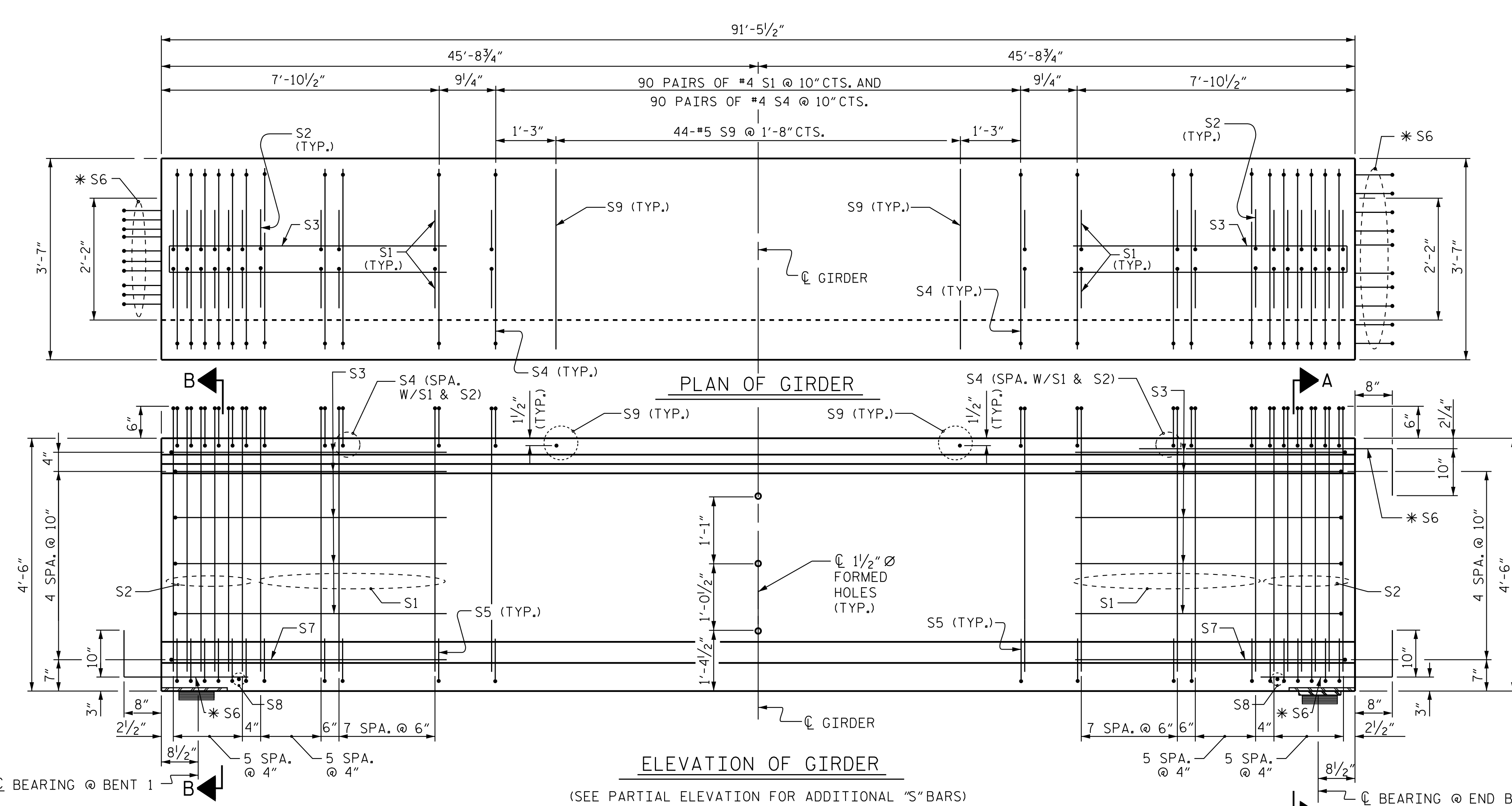
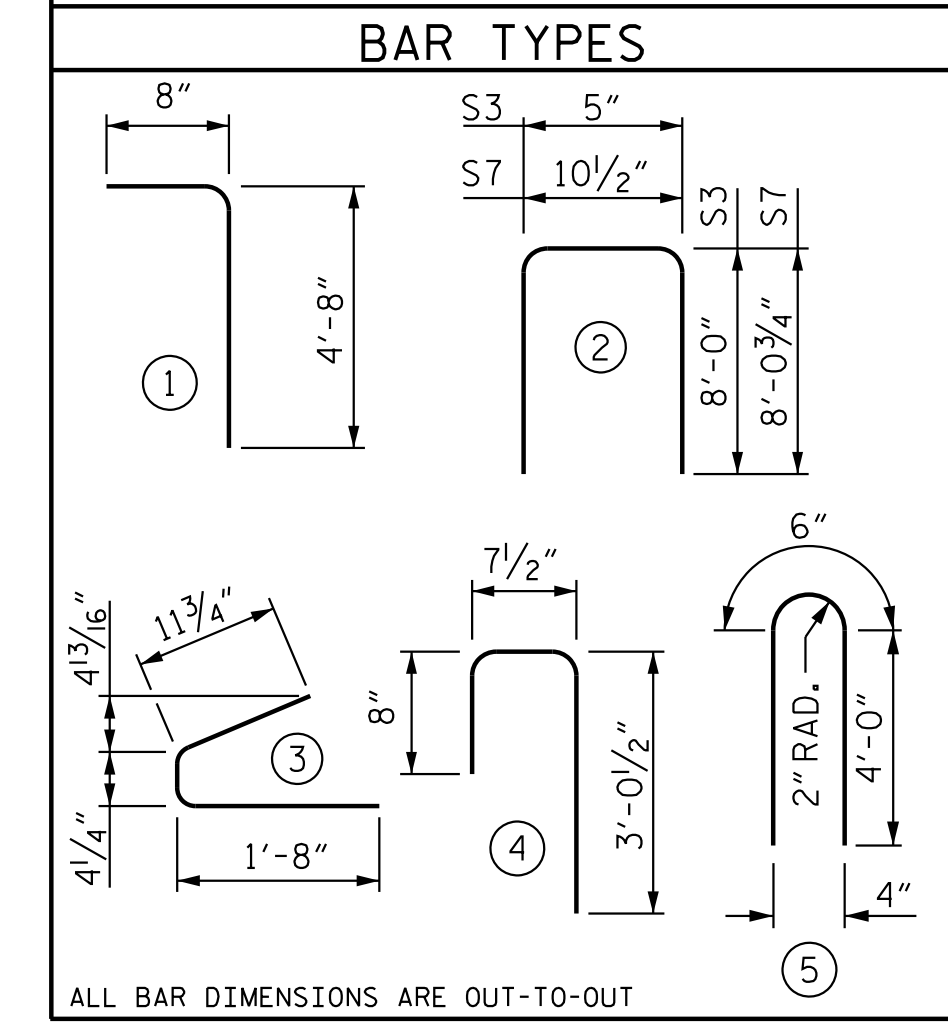


0.6" Ø L. R. GRADE 270 STRANDS					
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)			
0.217	58,600	43,950			
REINFORCING STEEL FOR ONE GDR					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	236	#4	1	5'-4"	841
S2	24	#6	1	5'-4"	193
S3	10	#4	2	16'-5"	110
S4	260	#4	4	4'-4"	753
S5	80	#4	3	3'-0"	161
*S6	30	#5	STR	3'-8"	115
S7	2	#5	2	17'-0"	36
S8	2	#3	STR	1'-10"	2
S9	44	#5	STR	3'-3"	150
S10	4	#5	5	8'-6"	36
S11	8	#4	STR	8'-0"	43

* NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
 - ▲ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
 - ⊙ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER



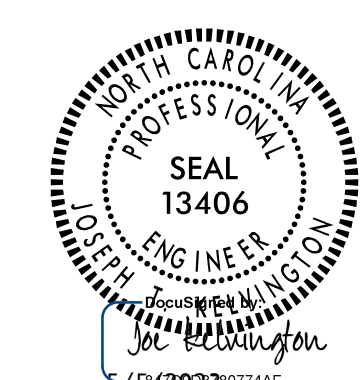
QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	9000 PSI CONCRETE		0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
	2440	16.6	36
GIRDERS REQUIRED			
NUMBER	LENGTH	TOTAL LENGTH	
4	91'-5 1/2"	365'-10"	

PROJECT NO. R-2707E
CLEVELAND COUNTY
 STATION: 13+08.49 -Y42-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 MODIFIED 54" PRESTRESSED
 CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD

SPAN B



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO. S7-14
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 34
2			4			

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DRAWN BY: J. B. GEILE DATE: 12/07/18
 CHECKED BY: A. L. BOYKIN DATE: 02/17/23
 DESIGN ENGINEER OF RECORD: J. T. KELVINGTON DATE: 05/05/23

5/5/2023 12:47:16 PM jgelle
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