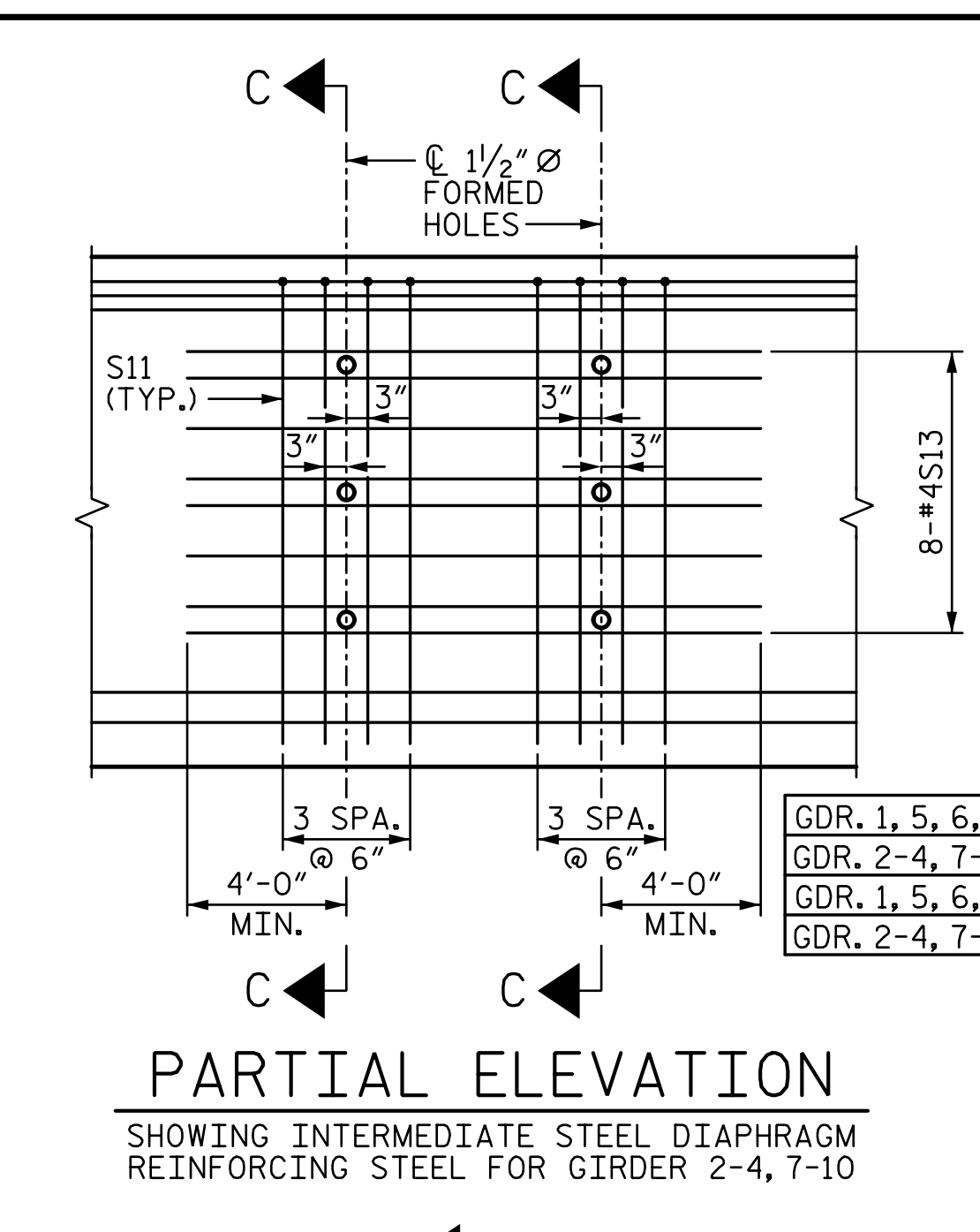
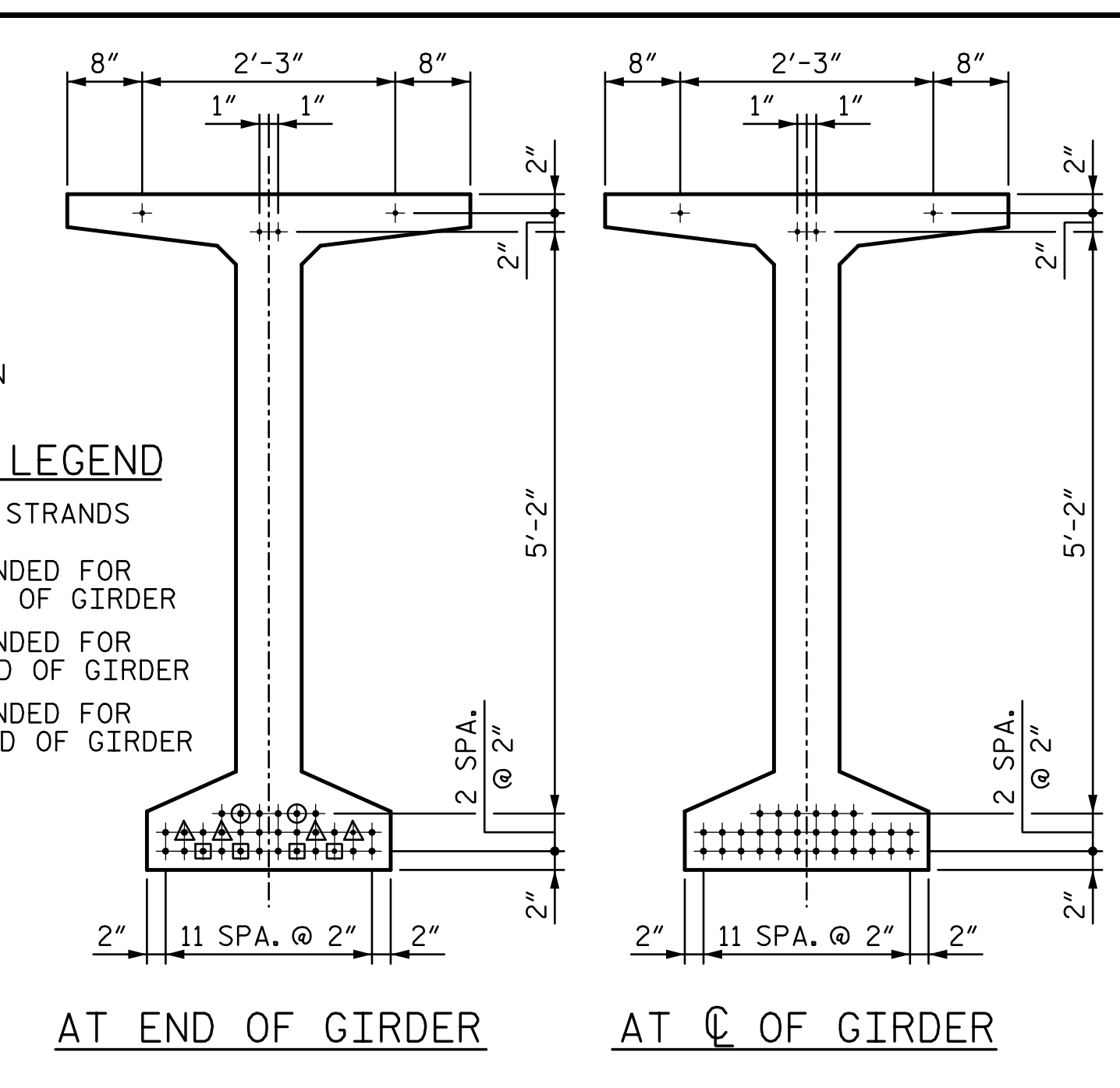


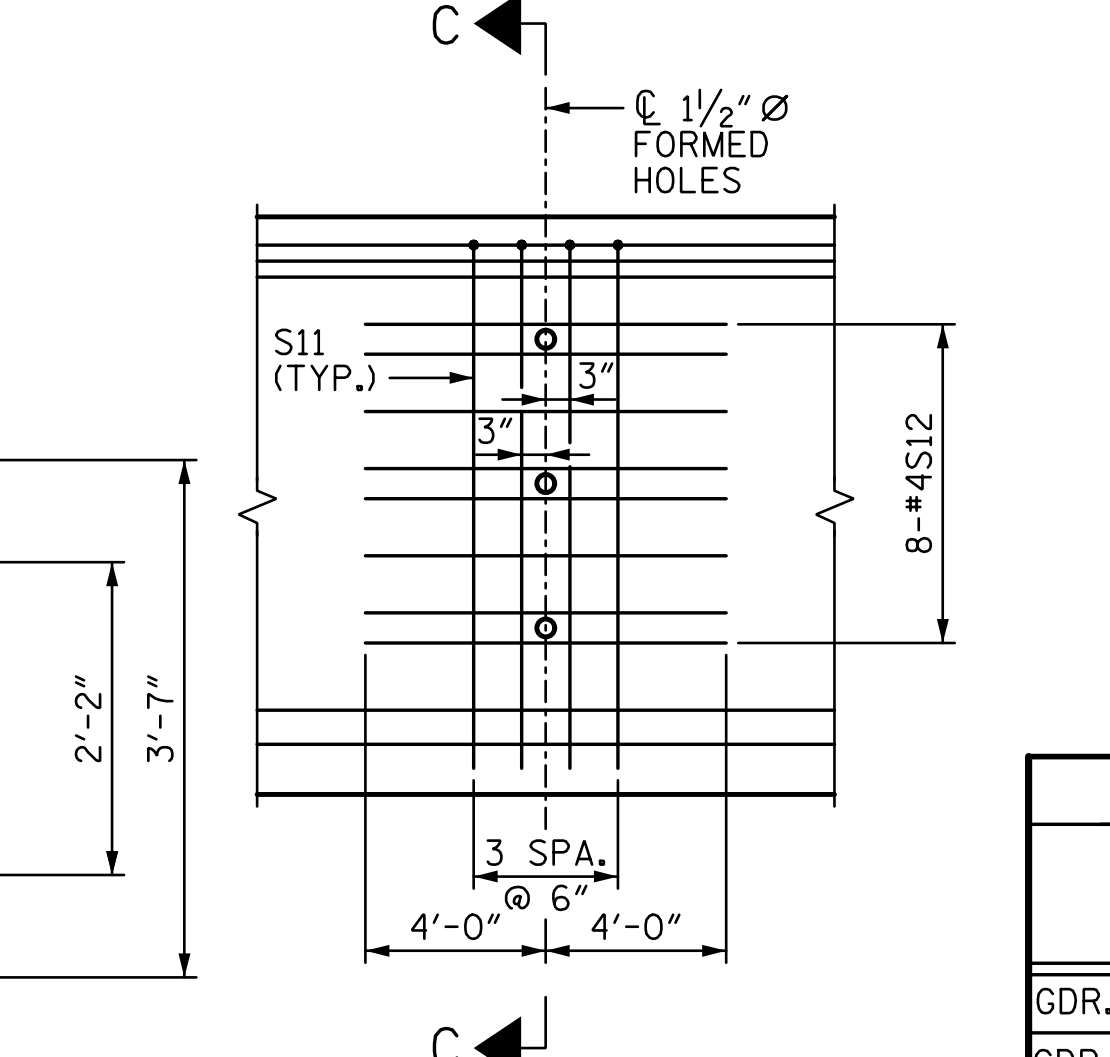
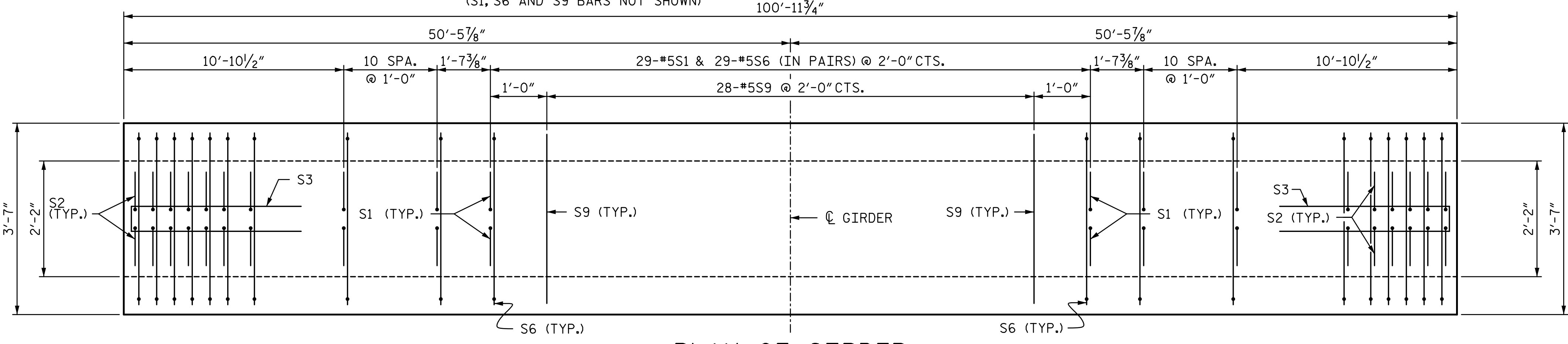
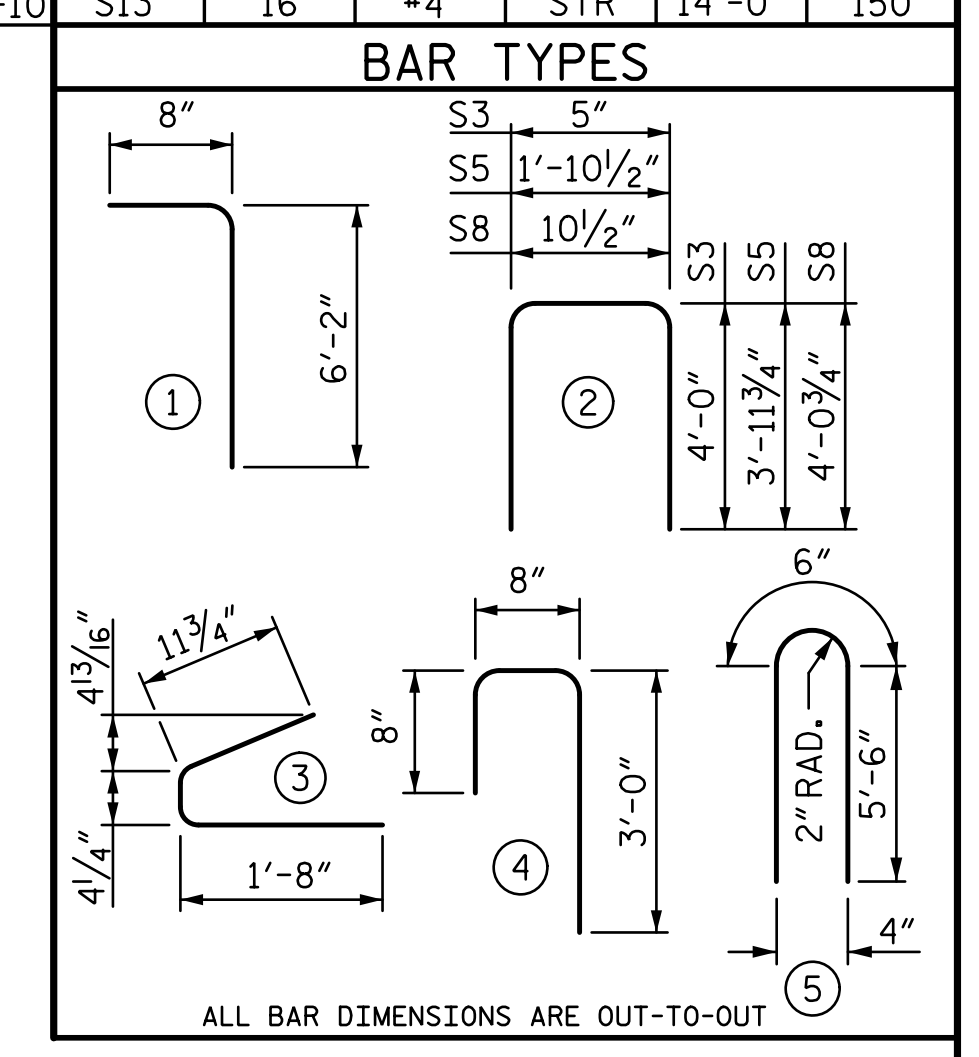
DEBONDING LEGEND

- FULLY BONDED STRANDS
- ◻ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ▲ STRANDS DEBONDED FOR 16'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 24'-0" FROM END OF GIRDER



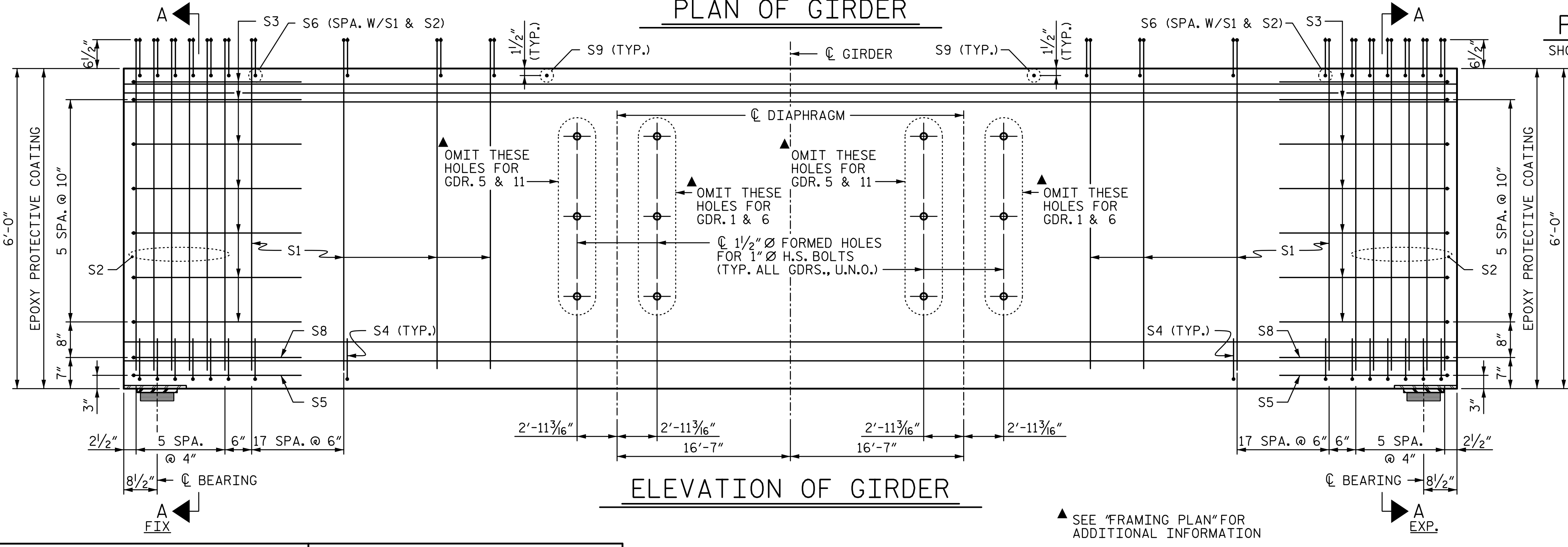
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQ. INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	170	#4	1	6'-10"	776
S2	24	#5	1	6'-10"	171
S3	14	#4	2	8'-5"	79
S4	96	#4	3	3'-0"	192
S5	2	#5	2	9'-10"	21
S6	388	#5	4	4'-4"	1,754
S8	2	#5	2	9'-0"	19
S9	28	#5	STR	3'-3"	95
S11	8	#5	5	11'-6"	96
S11	16	#5	5	11'-6"	192
S12	16	#4	STR	8'-0"	86
S13	16	#4	STR	14'-0"	150



QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	9500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GDR. 1, 5, 6, 11	3,289	21.6	34
GDR. 2-4, 7-10	3,449	21.6	34

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
11	100'-11 3/4"	1,110'-9 1/4"



PROJECT NO. U-4751
 NEW HANOVER COUNTY
 STATION: 62+99.10 -L-
 SHEET 1 OF 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STV ENGINEERS, INC. 100 Years
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-5991

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
SUPERSTRUCTURE				
72" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD				
REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	
				S2-11
				TOTAL SHEETS 30

6/27/2017 13:59:11 R:\402_02\L4751_SMJ_GI_OIL_640202.dgn
 +townsend

DRAWN BY: TJT DATE: 3-17
 CHECKED BY: AJP DATE: 4-17
 DESIGN ENGINEER OF RECORD: T. TOWNSEND DATE: 3-17

▲ SEE "FRAMING PLAN" FOR ADDITIONAL INFORMATION