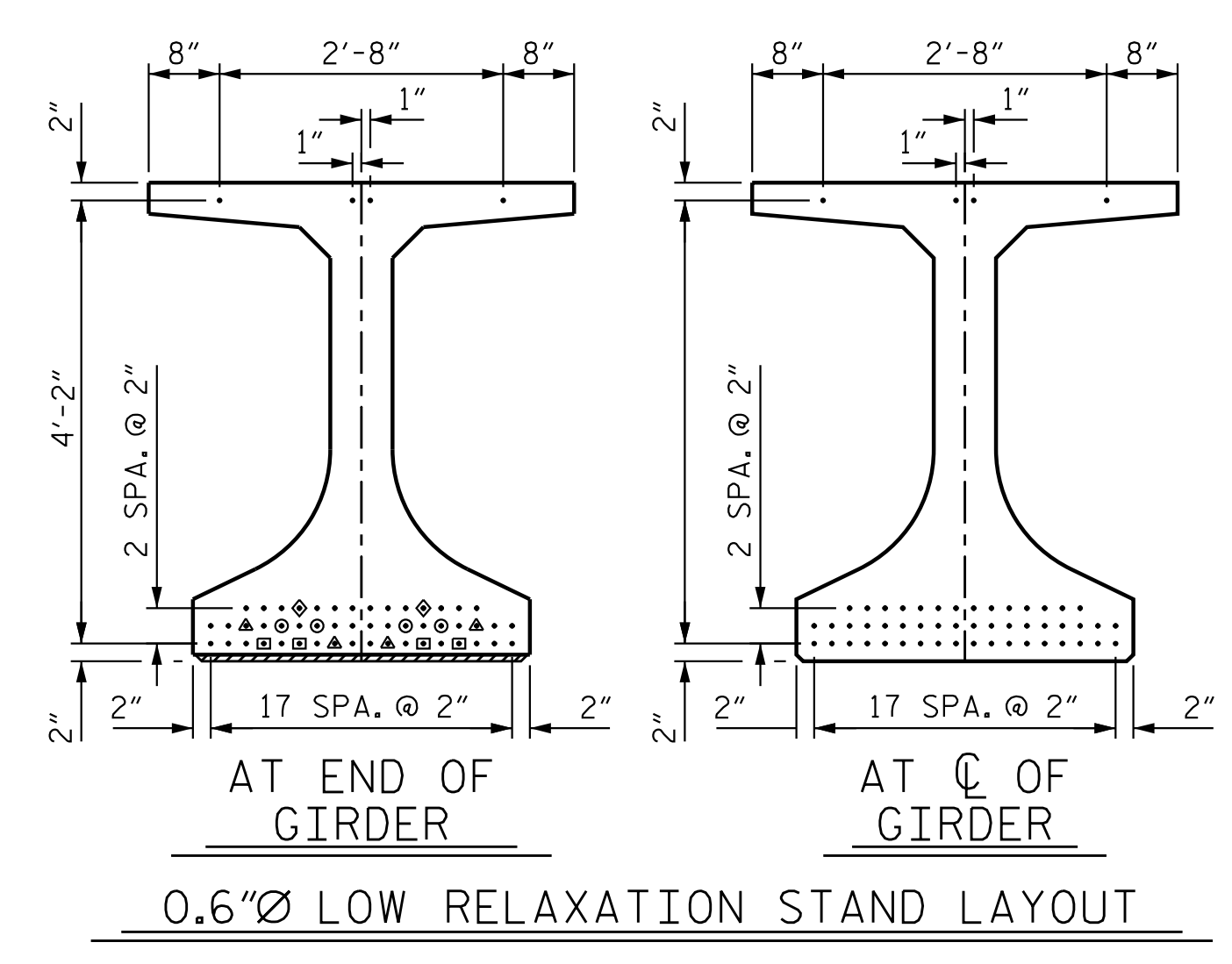


*** NOTE:**
 S11 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

1/2" * FORMED HOLE. (SEE FRAMING PLAN FOR LOCATION)

DEBONDING LEGEND

- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ▲ STRANDS DEBONDED FOR 7'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- ◇ STRANDS DEBONDED FOR 13'-0" FROM END OF GIRDER

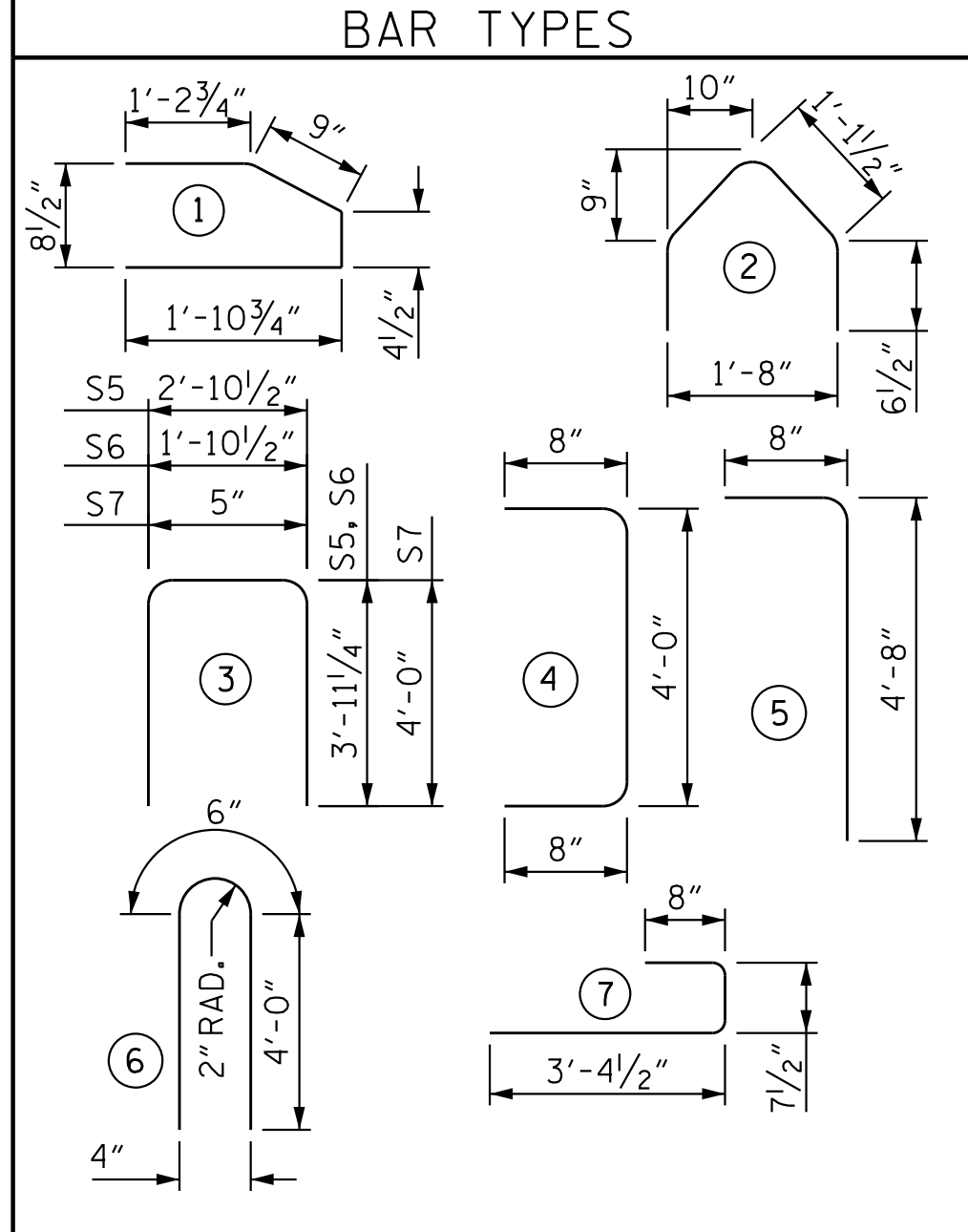
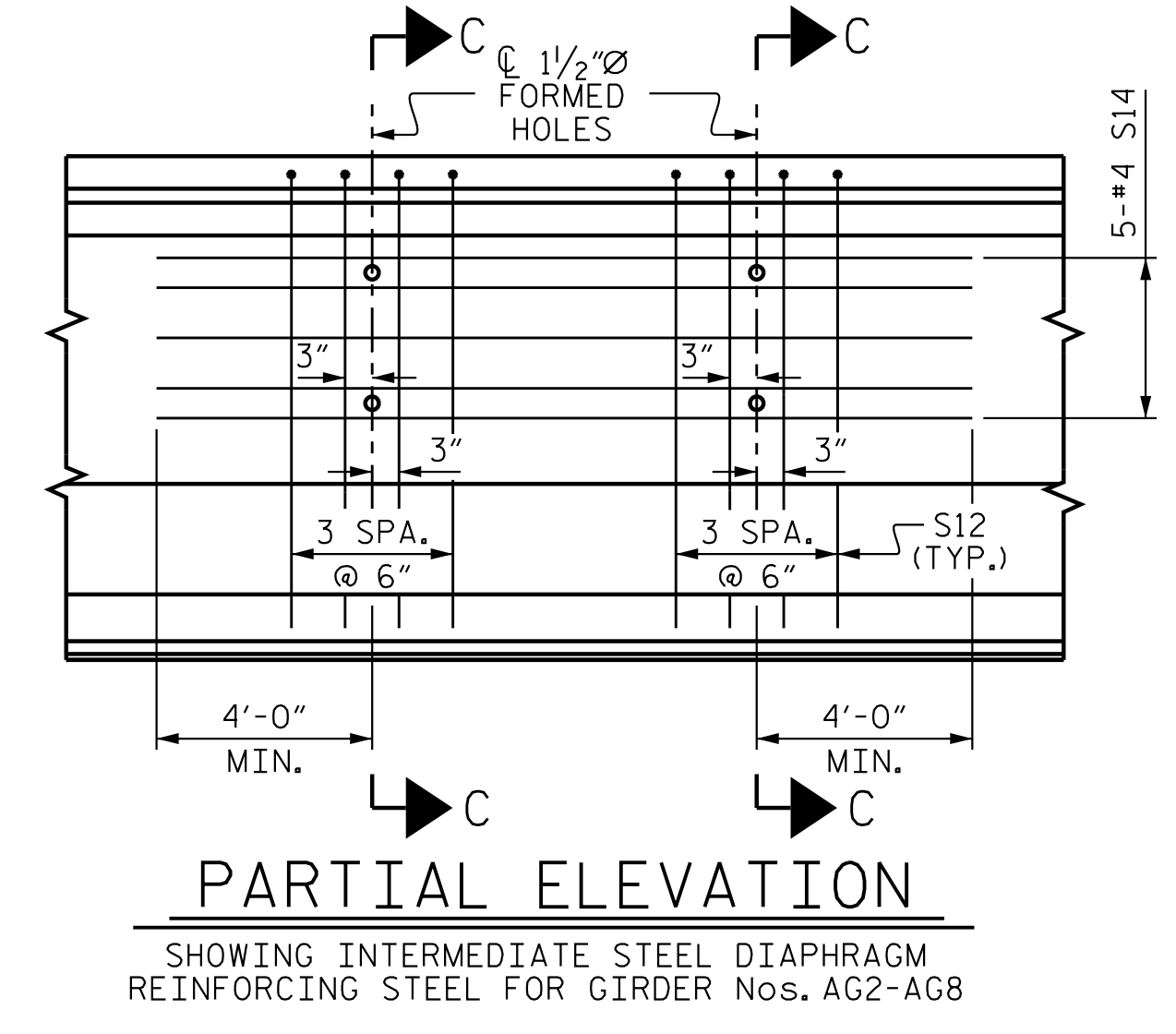
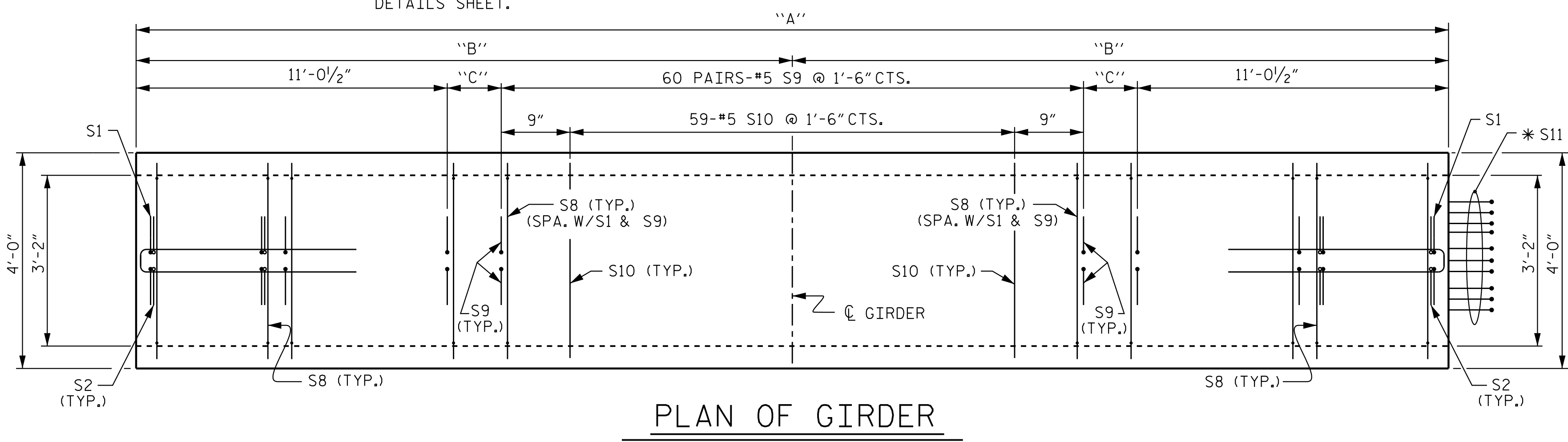


EXTERIOR GDR.
 INTERIOR GDR.

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

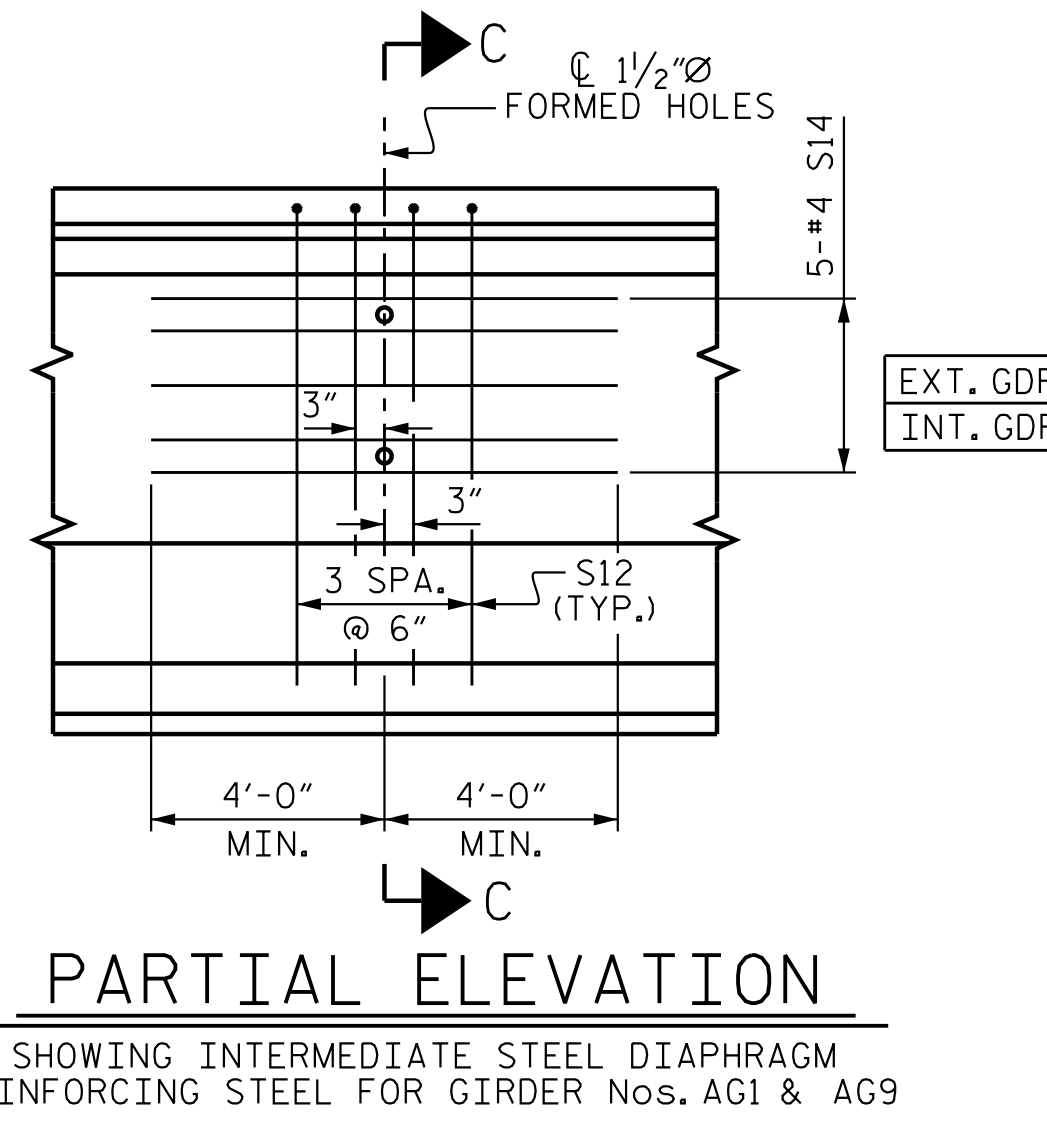
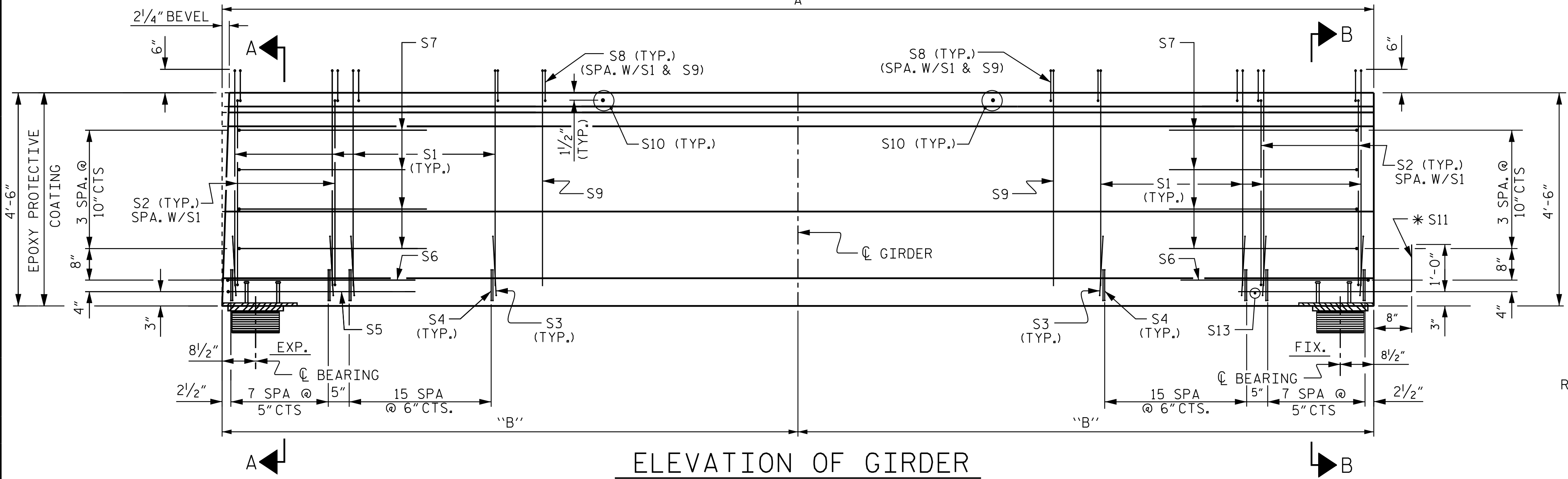
REINFORCING STEEL FOR ONE GDR					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	96	#5	5	5'-4"	534
S2	32	#5	4	5'-4"	178
S3	48	#3	2	3'-4"	60
S4	96	#3	1	4'-3"	153
S5	1	#5	3	10'-9"	21
S6	2	#5	3	9'-9"	20
S7	8	#4	3	8'-5"	45
S8	216	#5	7	4'-8"	1,051
S9	120	#5	5	5'-4"	668
S10	59	#5	STR	3'-8"	226
S11	10	#6	STR	4'-8"	70
S12	8	#5	6	8'-6"	71
S12	16	#5	6	8'-6"	142
S13	1	#3	STR	2'-10"	1
S14	10	#4	STR	12'-0"	80

* FOR S11 BARS, SEE DETAIL "C" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET.



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER		
REINFORCING STEEL	9,000 PSI CONCRETE	0.6" * L.R. STRANDS
LB.	AVERAGE C.Y.	No.
3,168	26.9	54



GIRDERS REQUIRED		
NUMBER	AVERAGE LENGTH	TOTAL LENGTH
9	112'-3 3/16"	1,010.3

PROJECT NO. R-2707D
CLEVELAND COUNTY
 STATION: 36+78.38 -RAMP A-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUPERSTRUCTURE
 54" PRESTRESSED CONCRETE
 FLORIDA I-BEAM GIRDER
 CONTINUOUS FOR LIVE LOAD
 (SPAN A)



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0672

Stantec

DRAWN BY: M. B. ISENHOUR DATE: 12/6/22
 CHECKED BY: V. E. FRAGA DATE: 05/05/23
 DESIGN ENGINEER OF RECORD: V. E. FRAGA DATE: 05/09/23

	GIRDER DIMENSION TABLE (ALONG SLOPE)								
	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7	GIRDER 8	GIRDER 9
"A"	113'-2"	112'-11"	112'-8 1/8"	112'-5 3/8"	112'-2 3/4"	112'-0 1/4"	111'-9 3/4"	111'-7 3/8"	111'-5 1/8"
"B"	56'-7"	56'-5 1/2"	56'-4 1/16"	56'-1 3/8"	56'-0 1/8"	55'-10 1/8"	55'-9 1/16"	55'-8 3/16"	55'-8 3/16"
"C"	1'-3 1/2"	1'-2"	1'-0 9/16"	11 3/16"	9 7/8"	8 5/8"	7 3/8"	6 3/16"	5 1/16"

DocuSigned by:
 Victor E. Fraga
 DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S4-14
1			3			TOTAL SHEETS 43
2			4			