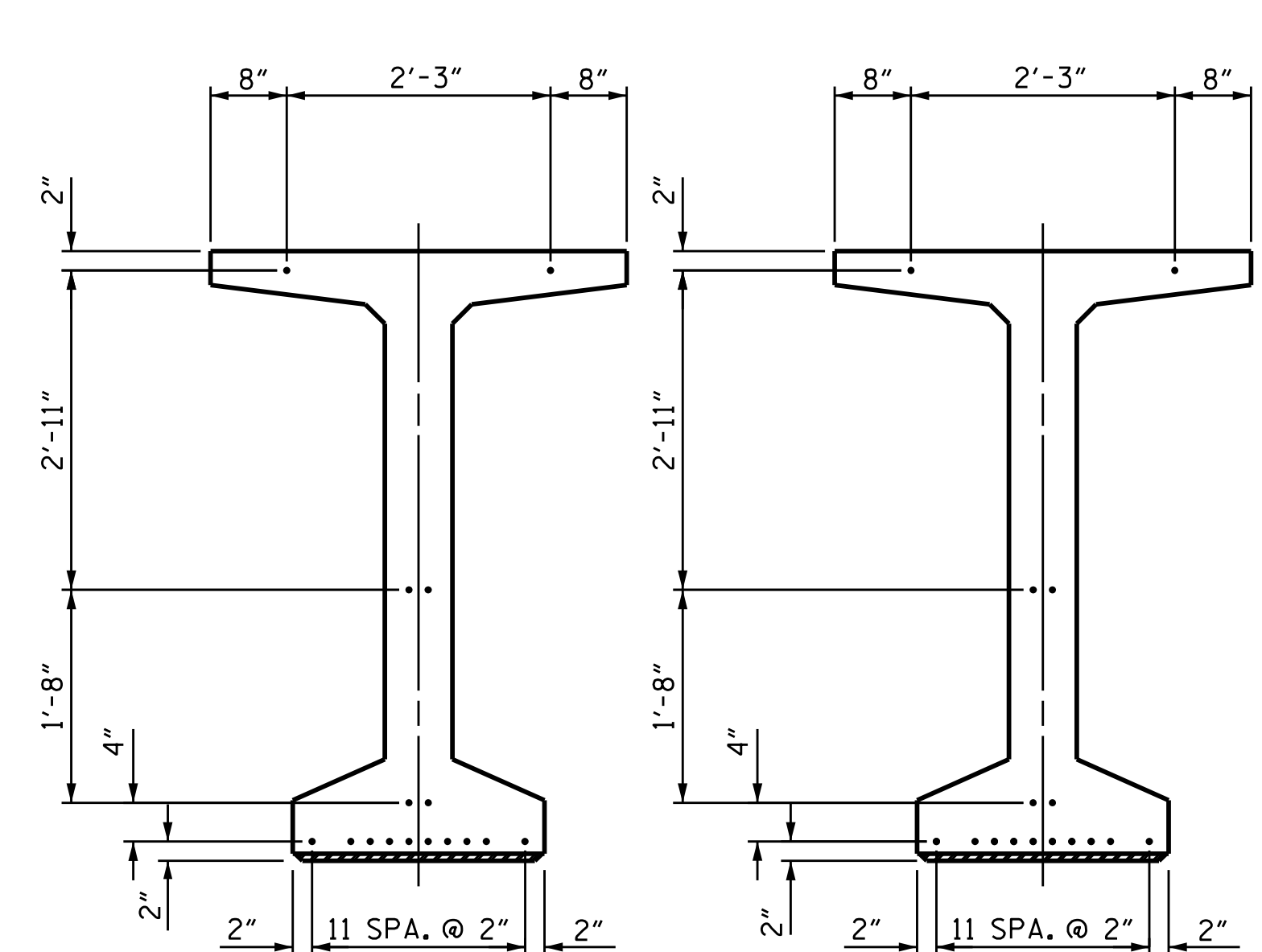


1/2" Ø FORMED HOLE. SEE ELEVATION FOR LOCATION, FOR DIM. 'A', 'B' & 'C'. SEE "INTERMEDIATE STEEL DIAPHRAGMS" SHEET.)

\* FOR S7 BARS, SEE DETAIL 'C' OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET



AT END OF GIRDER AT C OF GIRDER  
0.6" Ø LOW RELAXATION STRAND LAYOUT

DEBONDING LEGEND  
● FULLY BONDED STRANDS

\* DO NOT RAKE TOP OF THE GIRDER IN THIS AREA

0.6" Ø L. R. GRADE 270 STRANDS

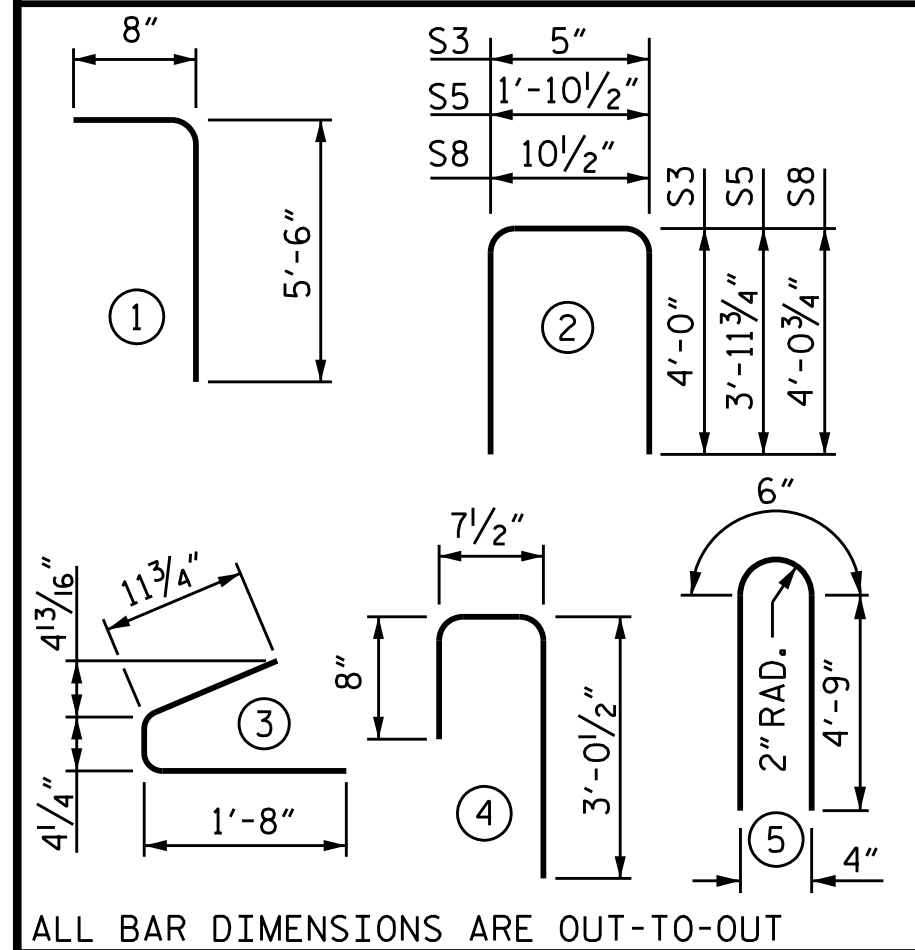
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

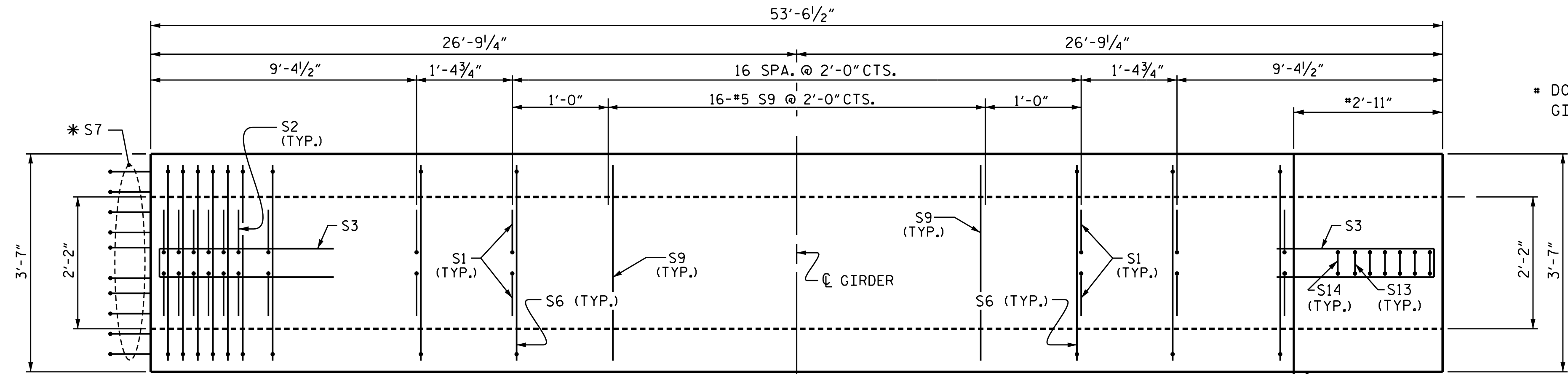
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	92	#4	1	6'-2"	379
S2	12	#5	1	6'-2"	77
S3	12	#4	2	8'-5"	67
S4	84	#4	3	3'-0"	168
S5	1	#5	2	9'-10"	10
S6	104	#5	4	4'-4"	470
* S7	10	#5	STR	3'-8"	38
S8	2	#5	2	9'-0"	19
S9	16	#5	STR	3'-3"	54
S10	1	#3	STR	1'-10"	1
S11	4	#5	5	10'-0"	42
S12	8	#4	STR	8'-0"	43
S13	6	#5	5	10'-0"	63
S14	2	#4	5	10'-0"	13

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

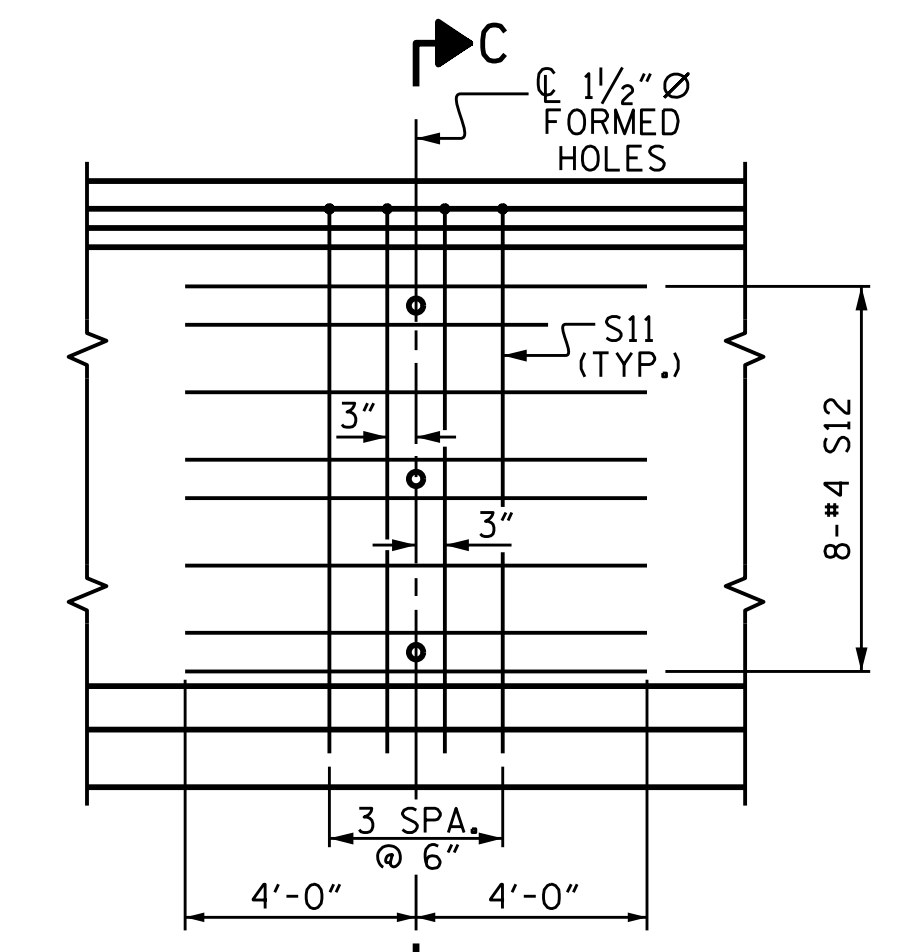
BAR TYPES



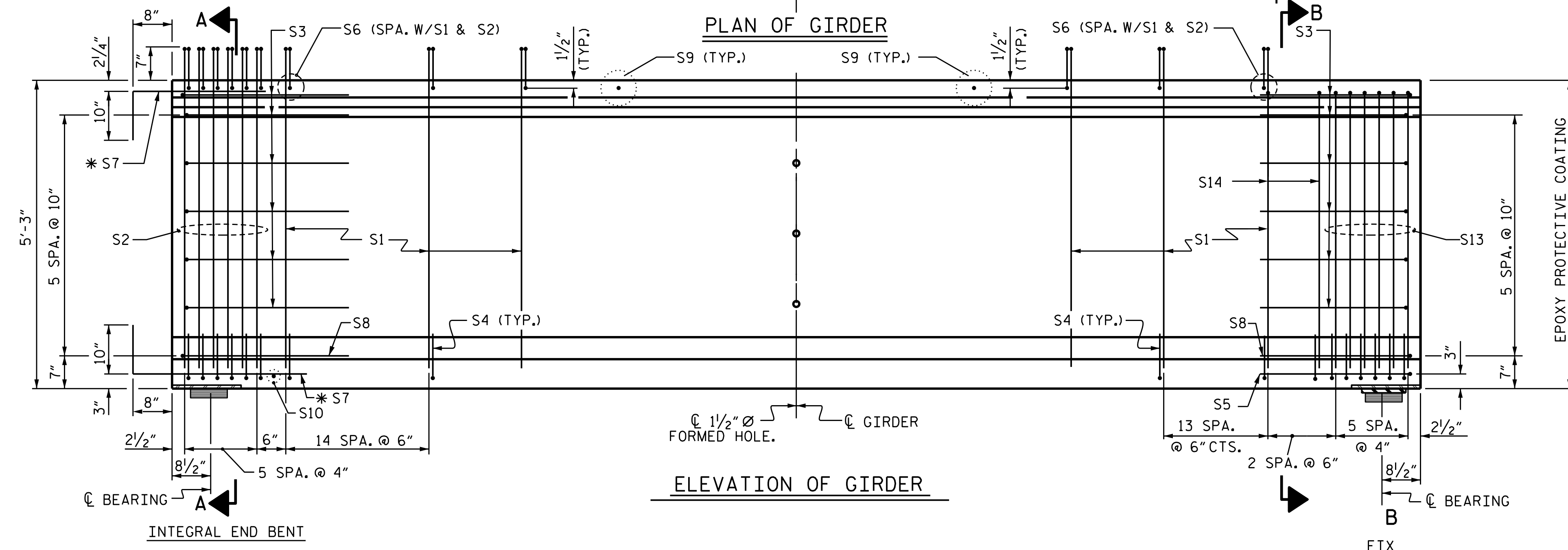
ALL BAR DIMENSIONS ARE OUT-TO-OUT



PLAN OF GIRDER



PARTIAL ELEVATION  
SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL



ELEVATION OF GIRDER

QUANTITIES FOR ONE GIRDER

REINFORCING STEEL	5,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
LB.	C.Y.	No.
1444	10.6	16

GIRDERS REQUIRED

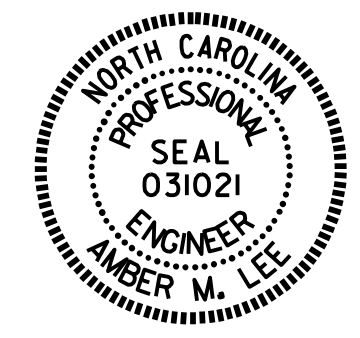
NUMBER	LENGTH	TOTAL LENGTH
4	53'-6 1/2"	214'-2"

PROJECT NO. BR-0048  
SURRY COUNTY  
STATION: 18+50.00 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

63" PRESTRESSED CONCRETE  
MODIFIED BULB TEE  
CONTINUOUS FOR LIVE LOAD  
(SPAN A OR C)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS 33
2			4			

ASSEMBLED BY : E. CABBELL	DATE : 12/2020
CHECKED BY : J. A. TILLMAN	DATE : 02/2021
DRAWN BY : EEM 2/6/97	REV. 6/13 MAA/GM
CHECKED BY : VAP 2/6/97	REV. 1/15 MAA/TMG
	REV. 12/17 MAA/THC