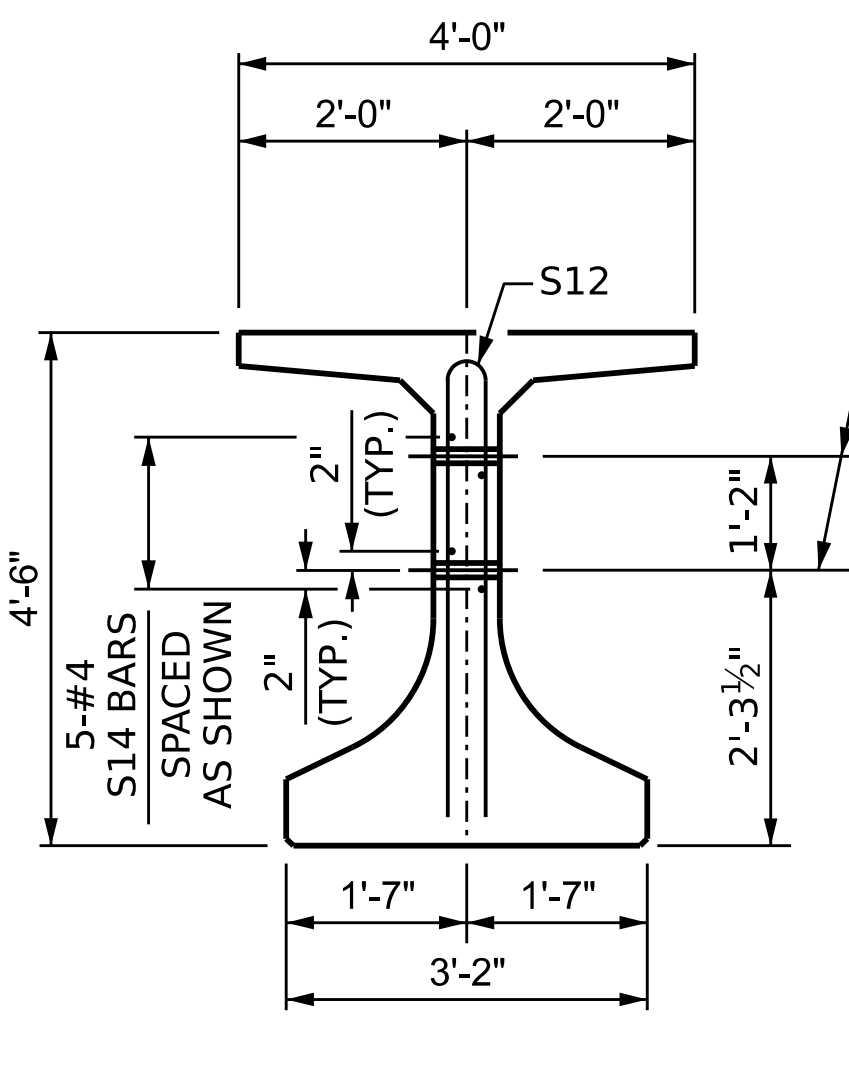


SECTION B-B

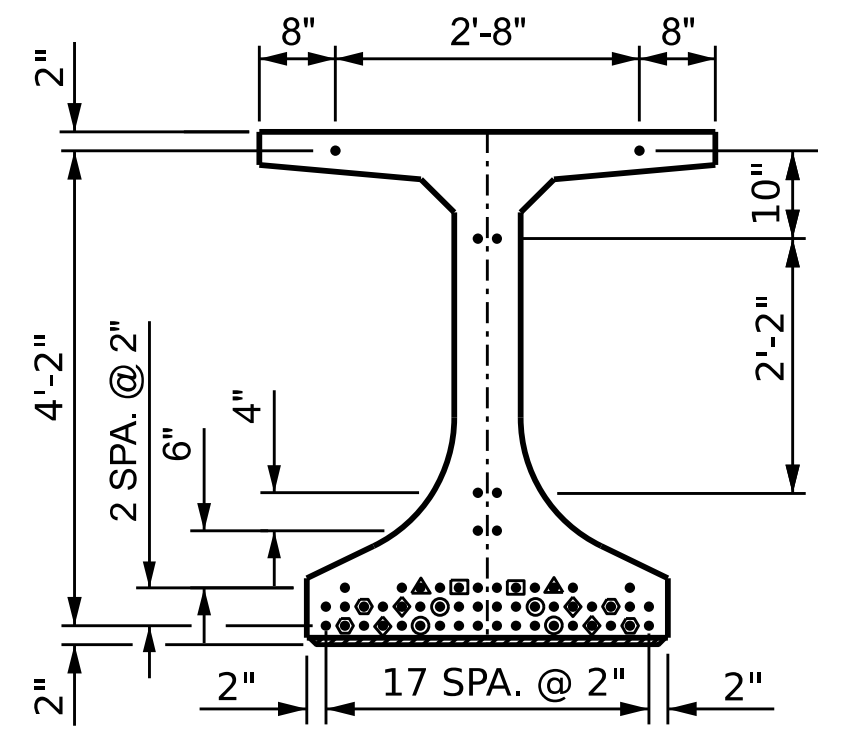


SECTION C-C
(S8, S9 AND S10 BARS NOT SHOWN)

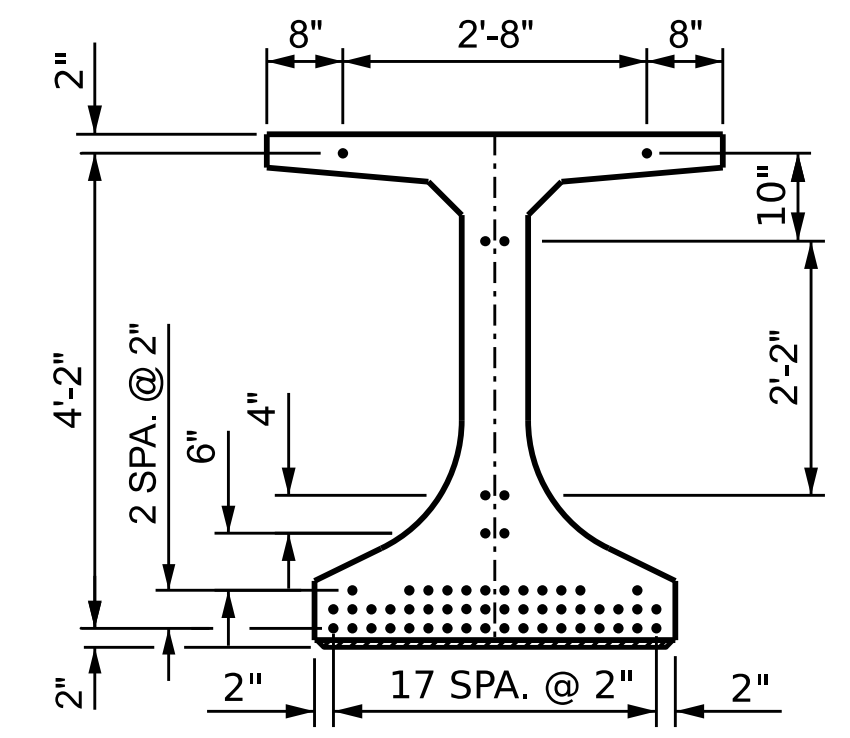
1/2" Ø FORMED HOLE. (SEE FRAMING PLAN FOR LOCATION)

DEBONDING LEGEND

- FULLY BONDED STRANDS
- ▣ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- ▲ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
- ⊙ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- ◇ STRANDS DEBONDED FOR 16'-0" FROM END OF GIRDER
- ⊕ STRANDS DEBONDED FOR 18'-0" FROM END OF GIRDER

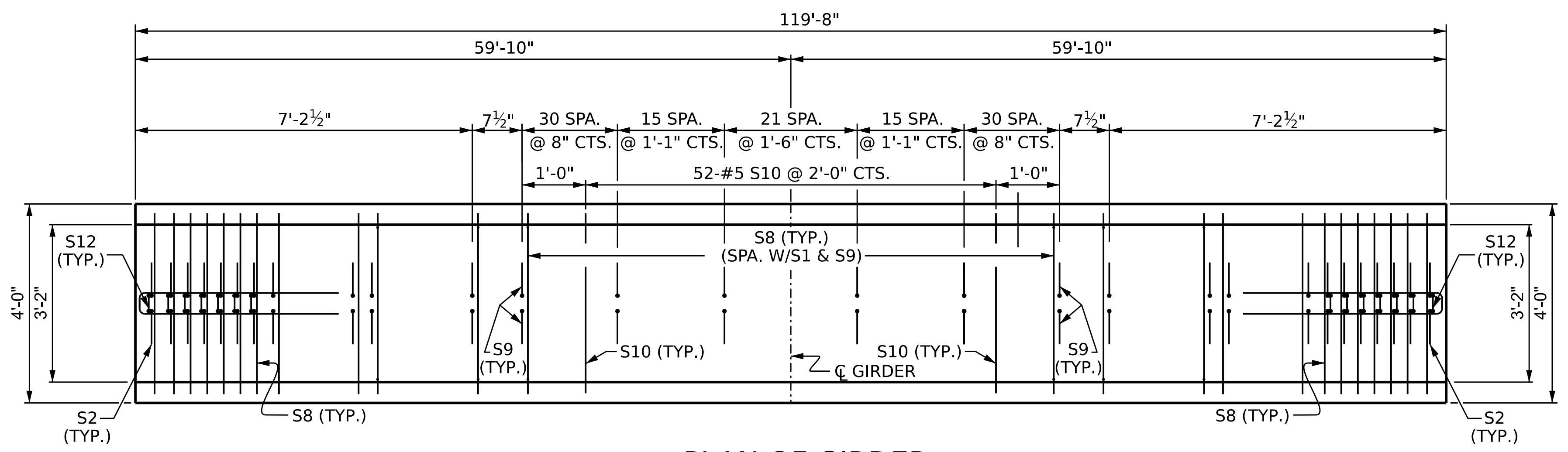


AT END OF GIRDER

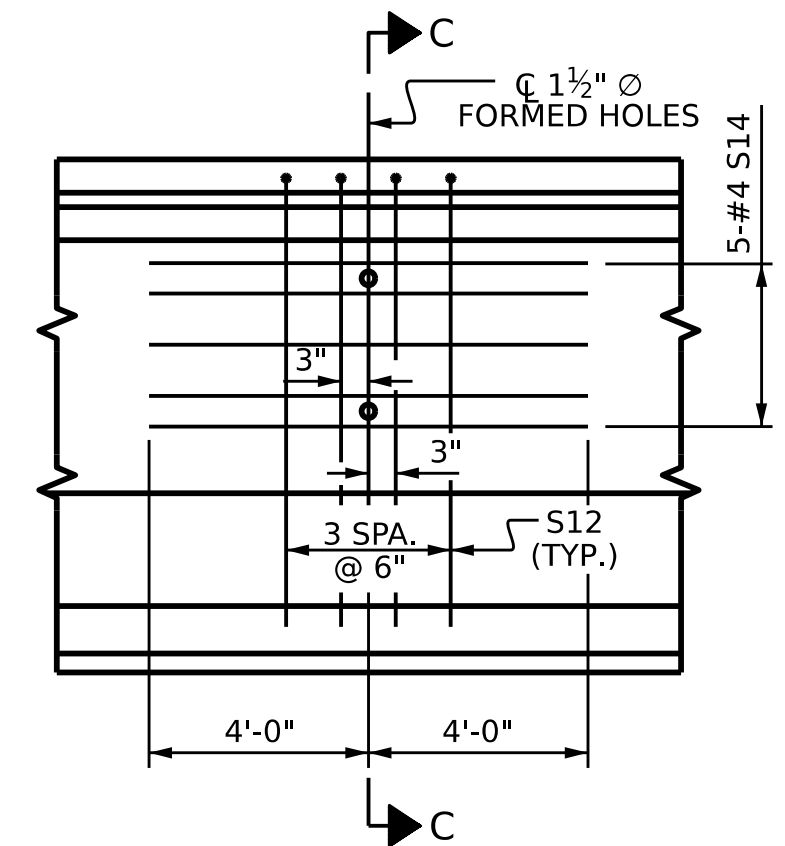


AT C OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

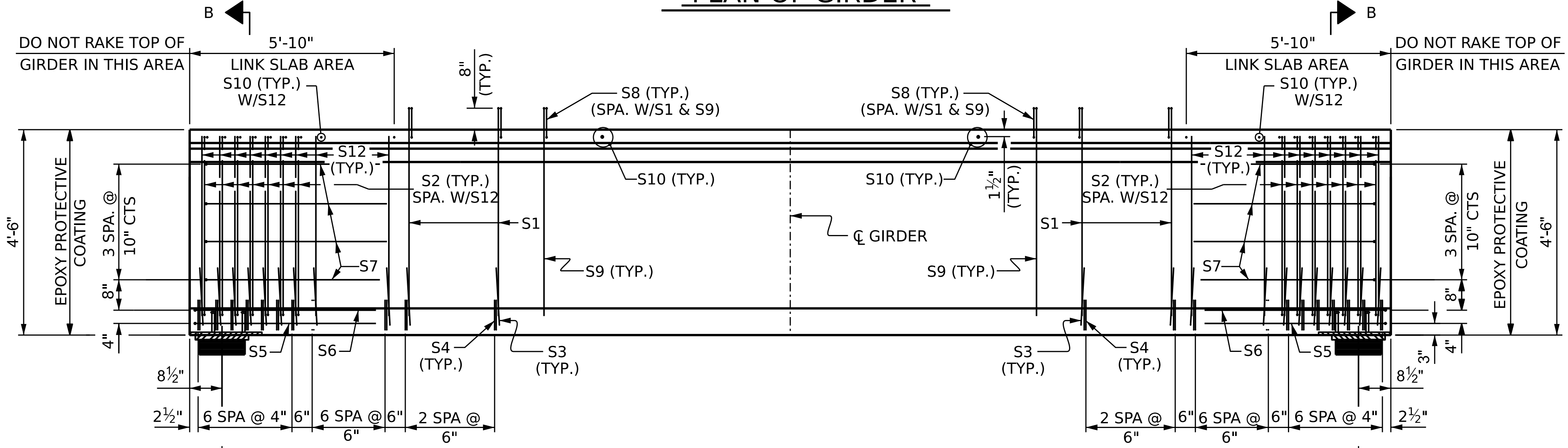


PLAN OF GIRDER



PARTIAL ELEVATION

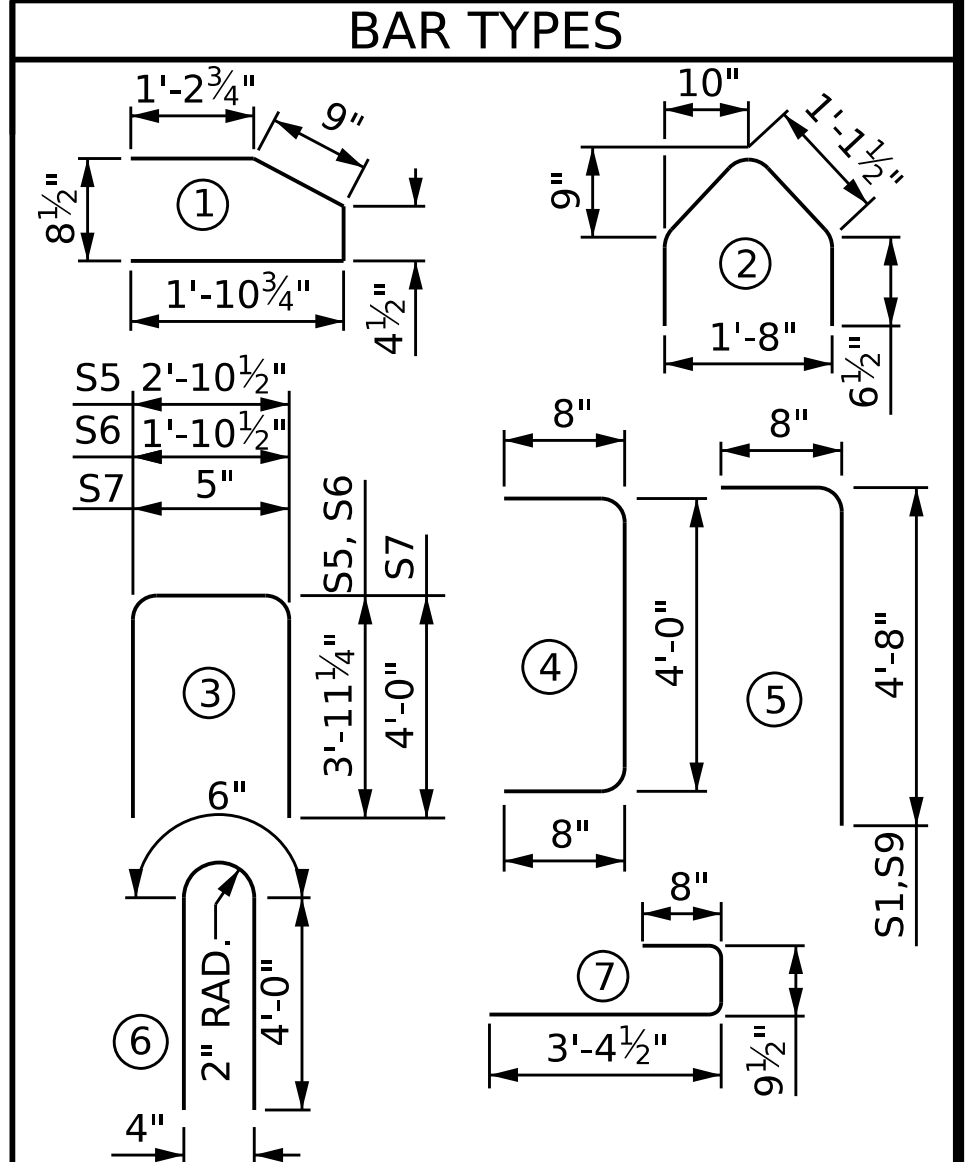
SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS



ELEVATION OF GIRDER

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	12	#5	5'-4"	67
S2	28	#5	4'-4"	156
S3	34	#3	2'-4"	43
S4	68	#3	1'-3"	109
S5	2	#5	3'-10"	22
S6	2	#5	3'-9"	20
S7	8	#4	3'-5"	45
S8	236	#5	7'-4"	1190
S9	224	#4	5'-4"	798
S10	80	#5	STR	306
S12	36	#5	6'-8"	319
S14	10	#4	STR	53



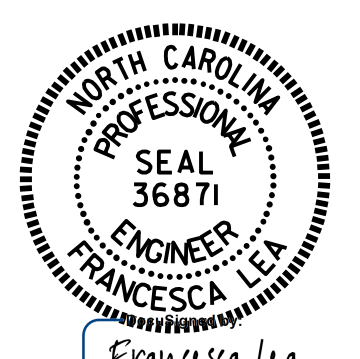
QUANTITIES FOR ONE GIRDER		
REINFORCING STEEL LB.	9500 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
3128	28.7	56

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	119'-8"	478'-8"

PROJECT NO. BR-0093
 ROCKINGHAM COUNTY
 STATION: 17+85.52 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 54" FIB PRESTRESSED
 CONCRETE GIRDER
 LINK SLAB
 SPAN B



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

TOTAL SHEETS	S-15
36	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY: E. BAYISSA DATE: 07/2023
 CHECKED BY: Z. MALIK DATE: 10/2023
 DRAWN BY: BNB 01/21
 CHECKED BY: AAI 08/22