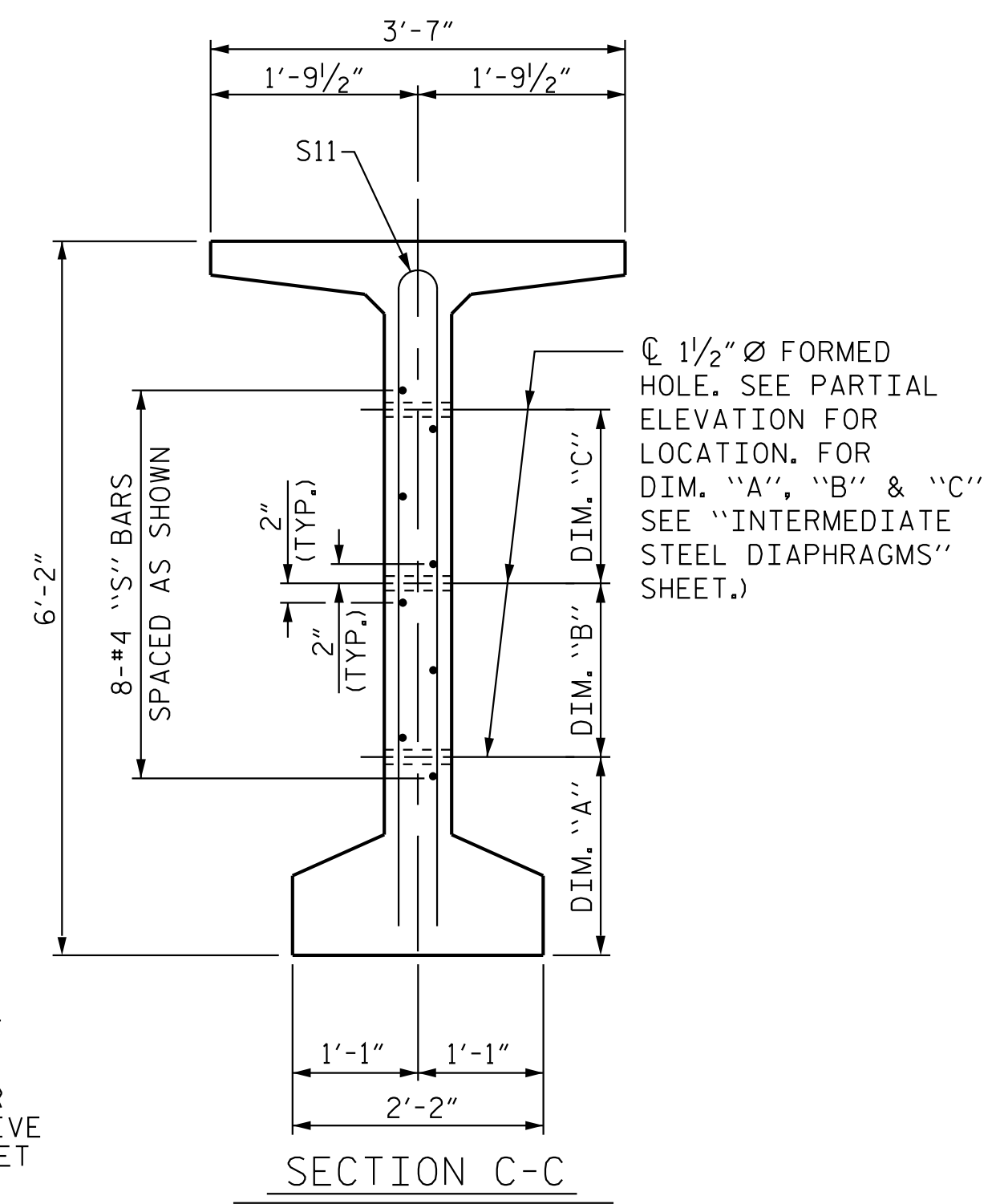
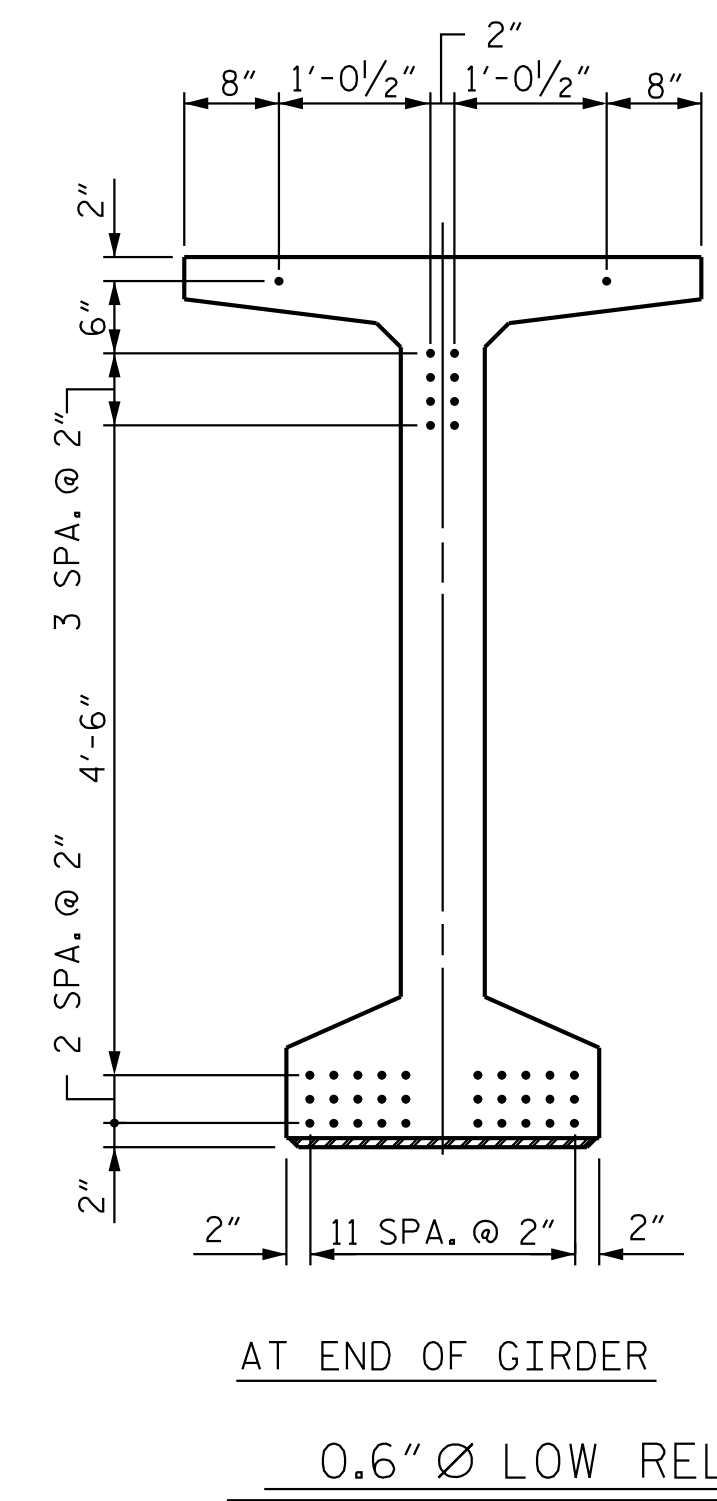


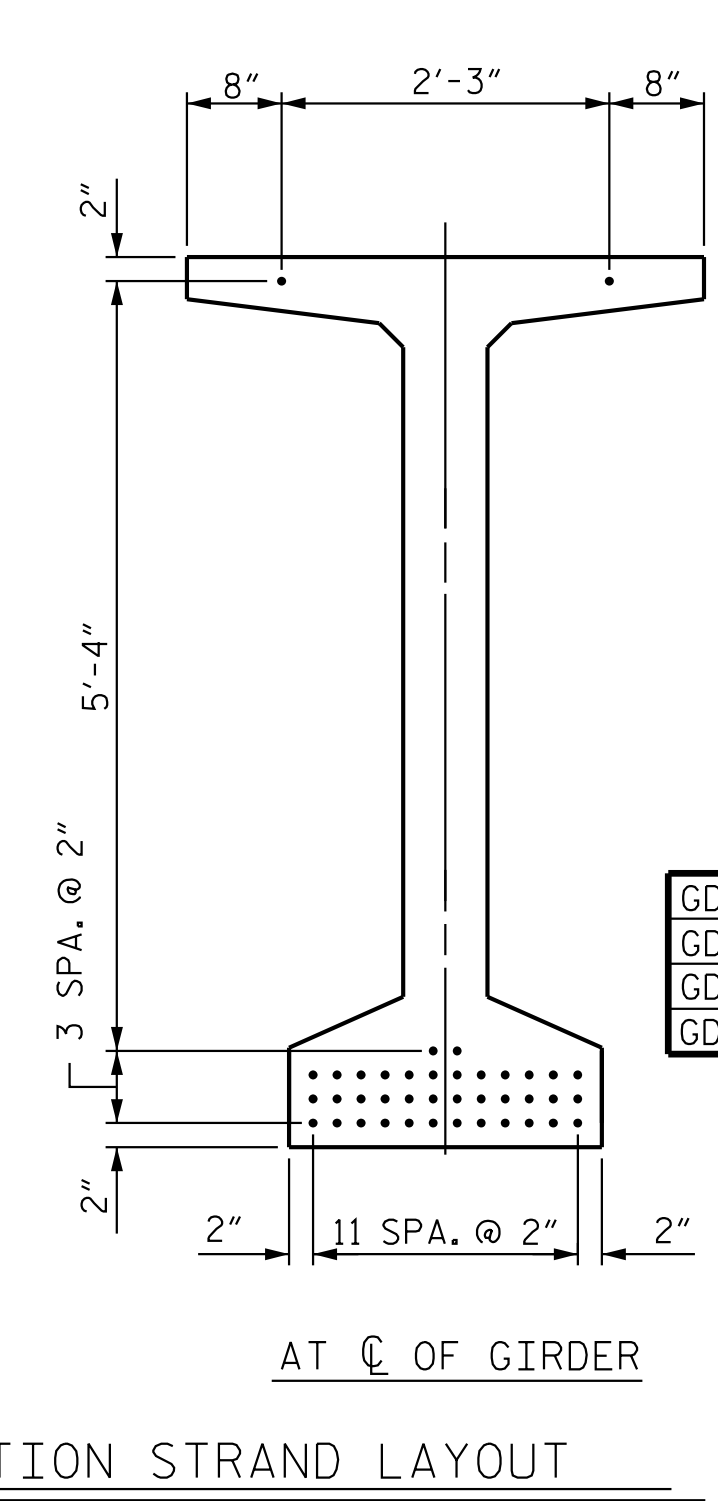
SECTION B-B



SECTION C-C

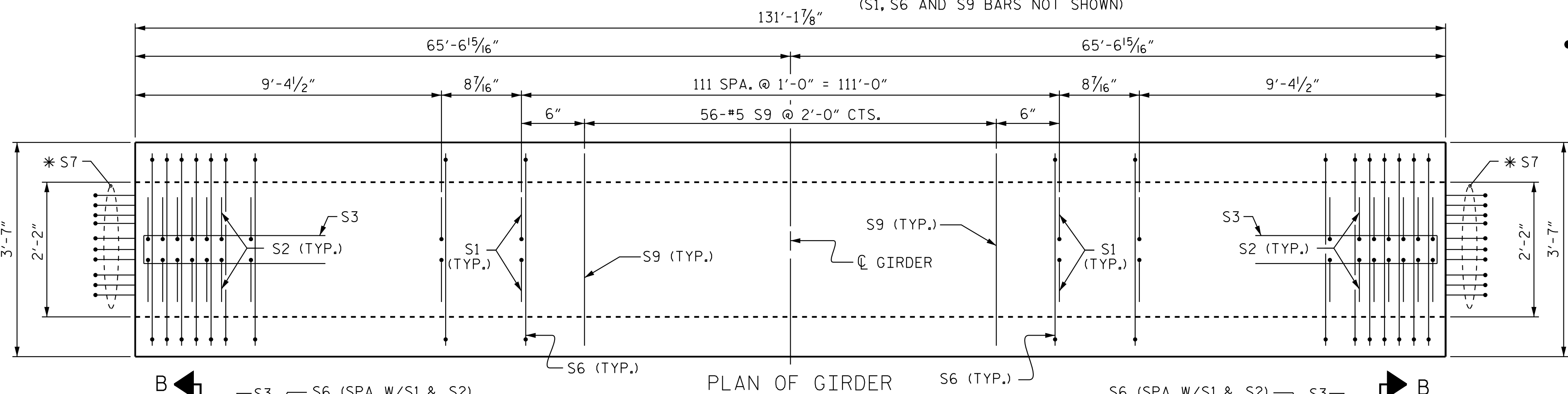


AT END OF GIRDER

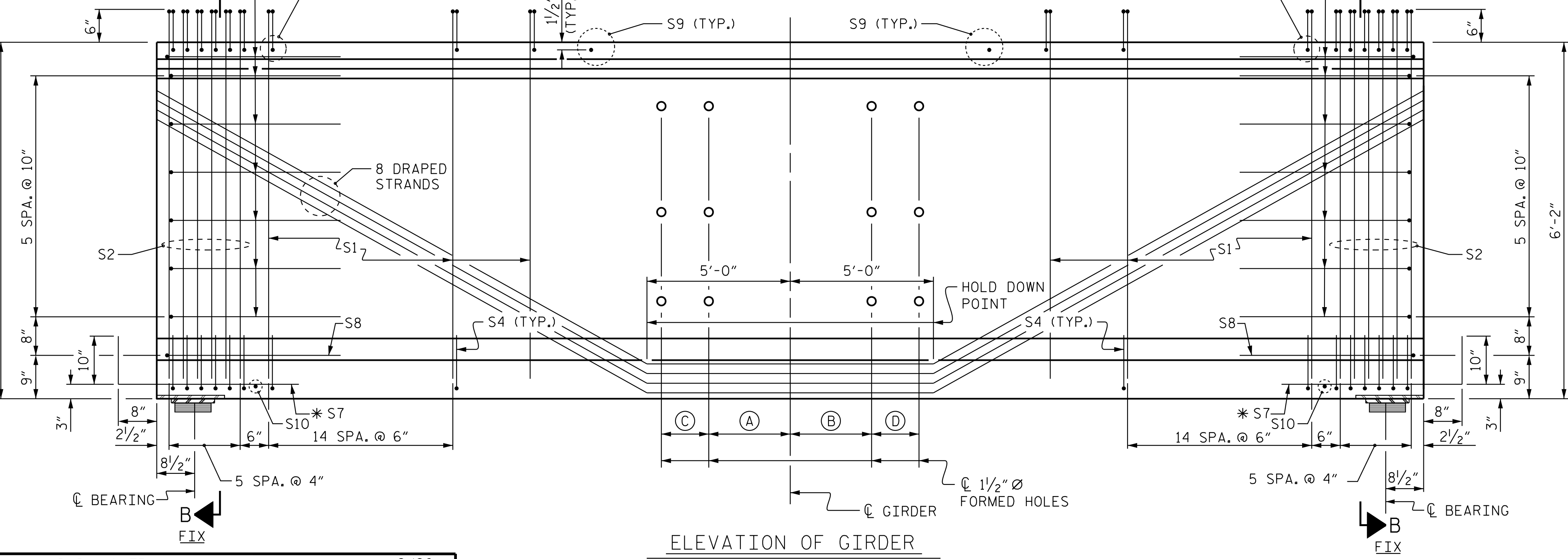


AT C OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER

DEBONDING LEGEND
 ● FULLY BONDED STRANDS

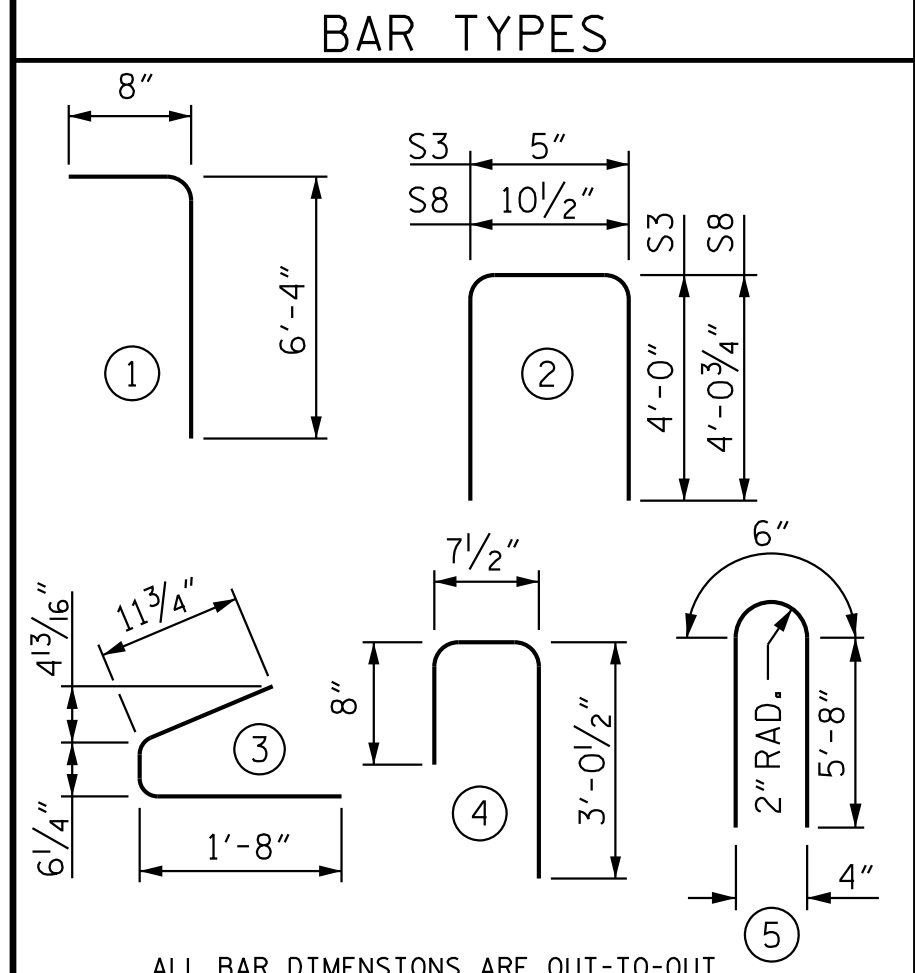
NOTES
 FOR PARTIAL ELEVATIONS
 REFERENCING SECTION C-C,
 SEE "PRESTRESSED CONCRETE
 GIRDER CONTINUOUS FOR
 LIVE LOAD DETAILS"
 SHEET 4 OF 5.

GDR.	(A)	(B)	(C)	(D)
BG1	28'-11 ³ / ₁₆ "	14'-3 ³ / ₁₆ "	-	-
BG2-BG3	14'-3 ³ / ₁₆ "	14'-3 ³ / ₁₆ "	14'-8 ⁵ / ₈ "	14'-8 ⁵ / ₈ "
BG4	14'-3 ³ / ₁₆ "	28'-11 ³ / ₁₆ "	-	-

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 GIRDER						
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
S1	284	#4	1	7'-0"	1328	
S2	24	#6	1	7'-0"	252	
S3	14	#4	2	8'-5"	79	
S4	84	#4	3	3'-2"	178	
S6	308	#5	4	4'-4"	1392	
*S7	20	#5	STR	3'-8"	76	
S8	2	#5	2	9'-0"	19	
S9	56	#5	STR	3'-3"	190	
S10	2	#3	STR	1'-10"	1	
GDR. BG1 & BG4	S11	8	#5	5	11'-10"	99
GDR. BG2 & BG3	S11	16	#5	5	11'-10"	197
GDR. BG1 & BG4	S12	16	#4	STR	8'-0"	86
GDR. BG2 & BG3	S13	16	#4	STR	22'-9"	243

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



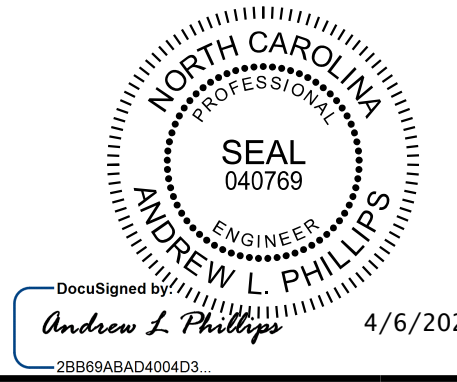
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	9,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GDR. BG1 & BG4	3,700	29.9	40
GDR. BG2 & BG3	3,955	29.9	40

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	131'-1 7/8"	524'-7 1/2"

PROJECT NO. B-5301
PITT COUNTY
 STATION: 25+98.05 -L-

SHEET 2 OF 5



Kimley-Horn
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601-1772
 Phone (919) 677-2000 NC LICENSE # F-0102

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 74" PRESTRESSED CONCRETE
 MODIFIED BULB TEE
 CONTINUOUS FOR LIVE LOAD
 SPAN B

REVISIONS						SHEET NO. S-16
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 55
2			4			

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

C:\Users\andrew.phillips\OneDrive\Documents\B-5301\Coord\Gdr\401_031_05301_SML_002-016_730087.dgn
 4/2/2020

DRAWN BY: D. D. LOWERY DATE: 2/20
 CHECKED BY: C. I. POOLE DATE: 2/20
 DESIGN ENGINEER OF RECORD: A. L. PHILLIPS DATE: 2/20