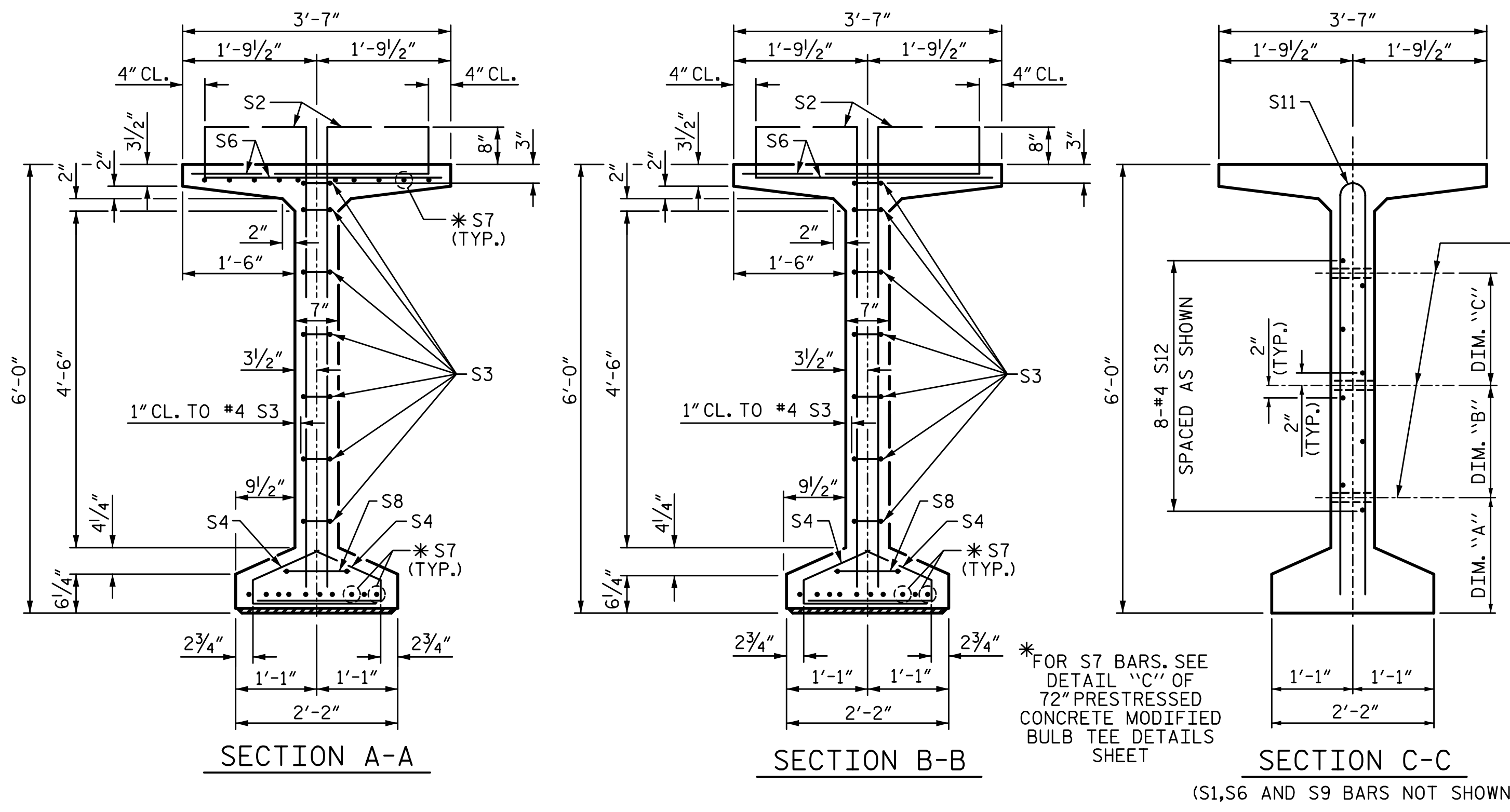
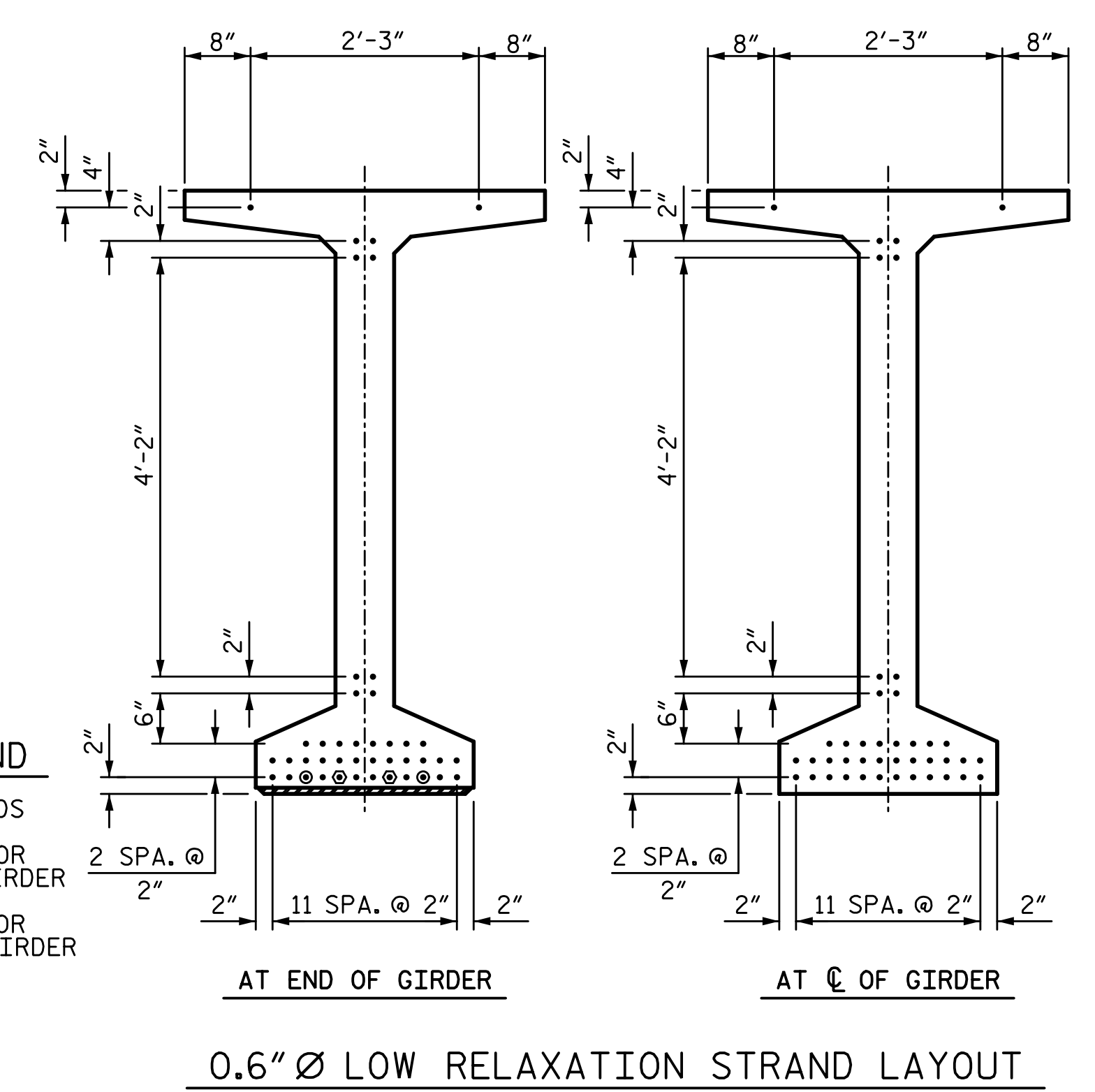


8/25/2022 2:04:55 PM P:\Rail\Projects\2015\Y-4810K (NCDDT_RailDiv)\Structures\Drawings\Final\Y4810K_SMU_PCG.dgn



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

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
 - STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
 - ◐ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

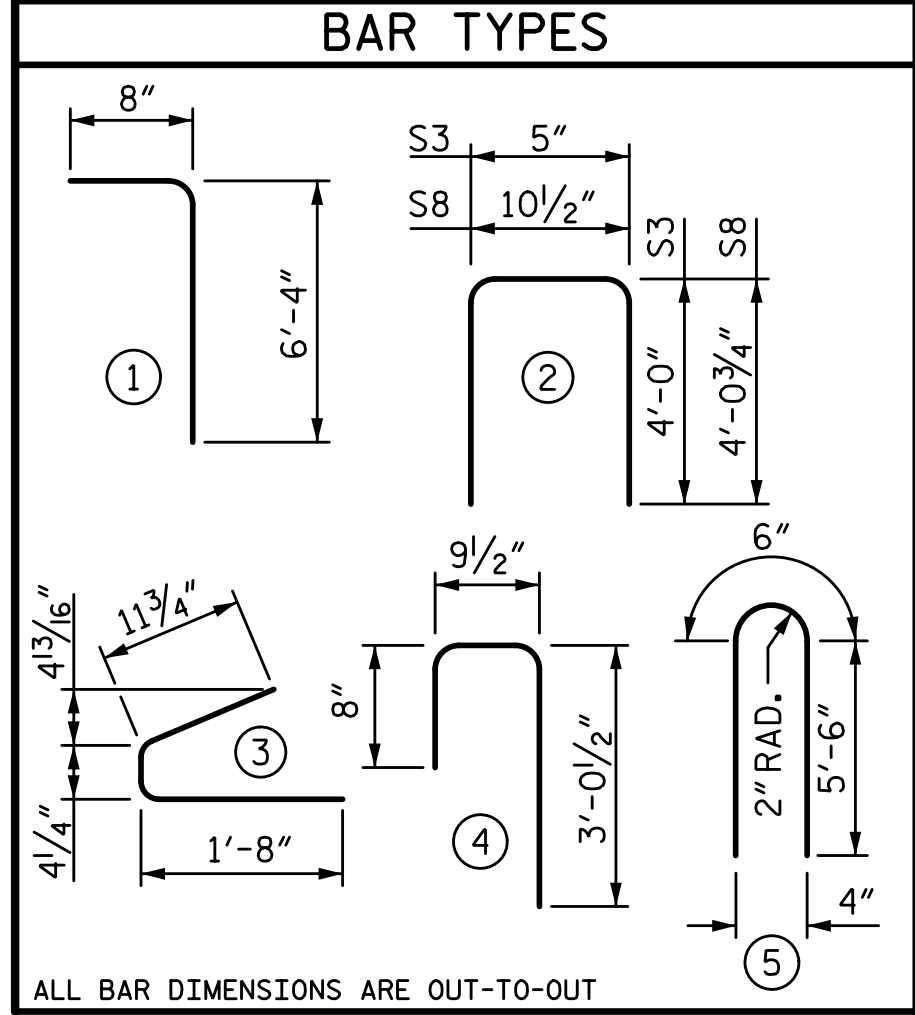


0.6" Ø LOW RELAXATION STRAND LAYOUT

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	184	#4	1	7'-0"	860
S2	24	#5	1	7'-0"	175
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	208	#5	4	4'-6"	976
* S7	30	#5	STR	3'-8"	115
S8	2	#5	2	9'-0"	19
S9	61	#5	STR	3'-3"	207
S10	2	#3	STR	1'-10"	1
S11	8	#5	5	11'-6"	96
S12	16	#4	STR	8'-0"	86

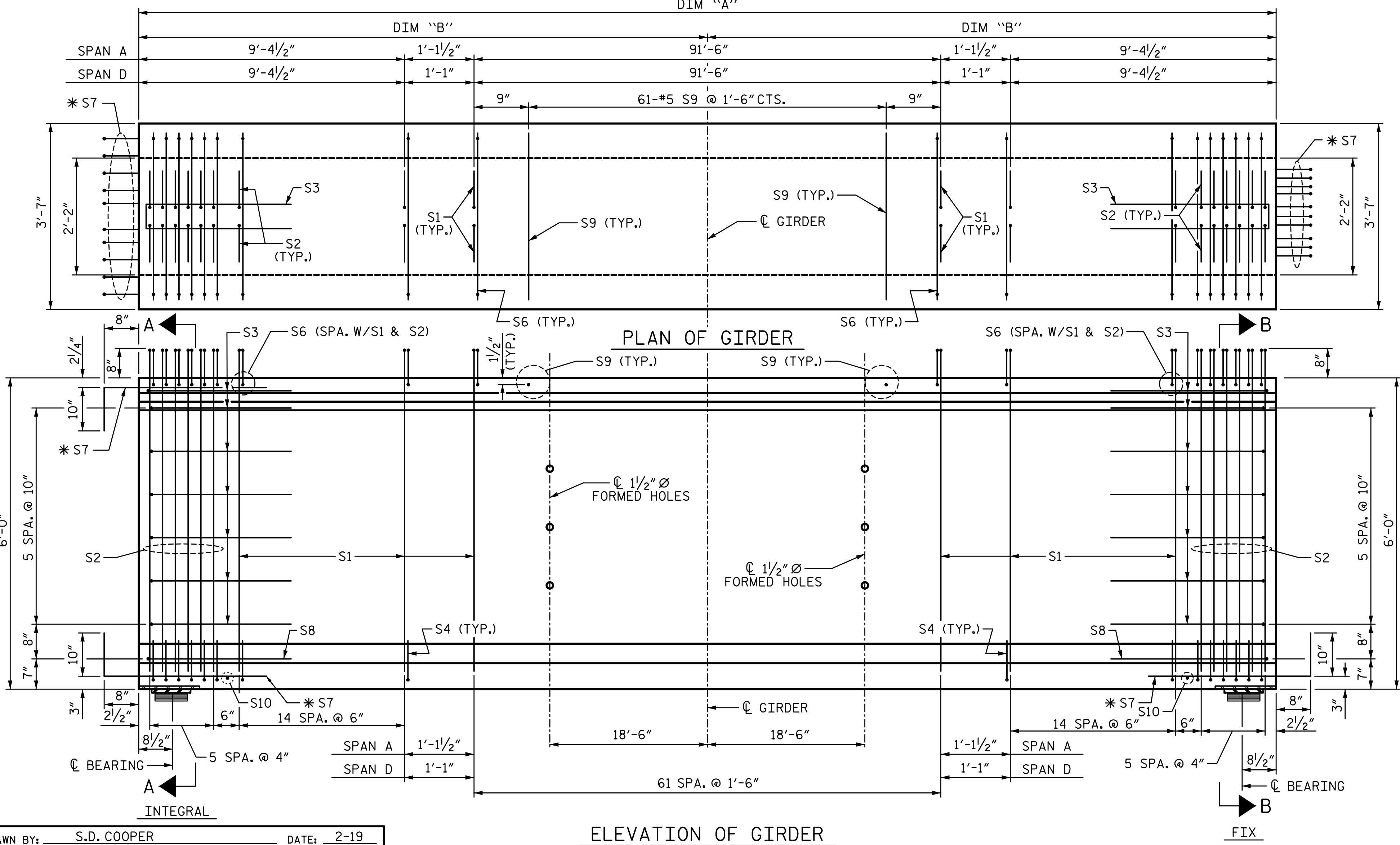
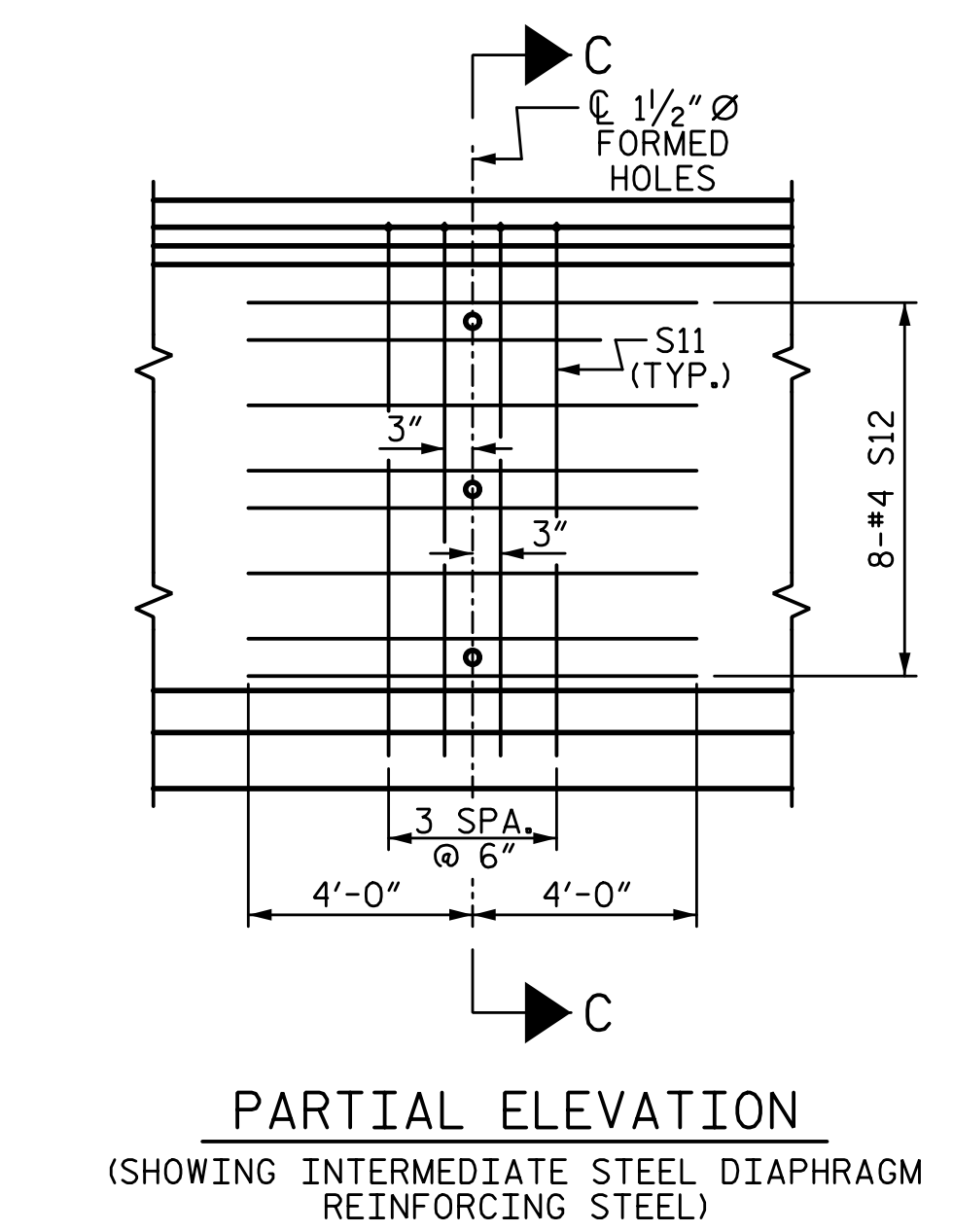
* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	9000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
ALL GIRDERS	2782	24.1	42

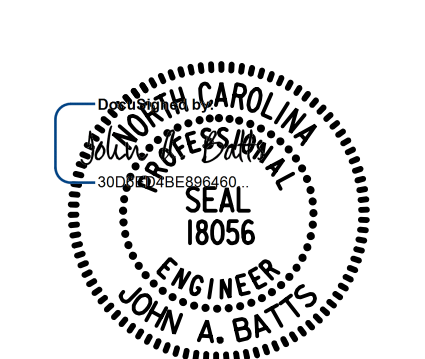
GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
SPAN A	5	112'-6"
SPAN D	5	112'-5"

DIMENSION TABLE		
	"A"	"B"
SPAN A (SLOPED)	112'-6"	56'-3"
SPAN A (HORIZ.)	112'-5"	56'-2 1/2"
SPAN D	112'-5"	56'-2 1/2"



PROJECT NO. Y-4810K
CABARRUS COUNTY
 STATION: 31+94.08 -L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 72" PRESTRESSED CONCRETE
 MODIFIED BULB TEE
 CONTINUOUS FOR LIVE LOAD
 SPANS A & D



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

DRAWN BY: S.D. COOPER DATE: 2-19
 CHECKED BY: J. A. BATTS DATE: 2-19
 DESIGN ENGINEER OF RECORD: J. A. BATTS DATE: 2-19

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

TOTAL SHEETS
 53