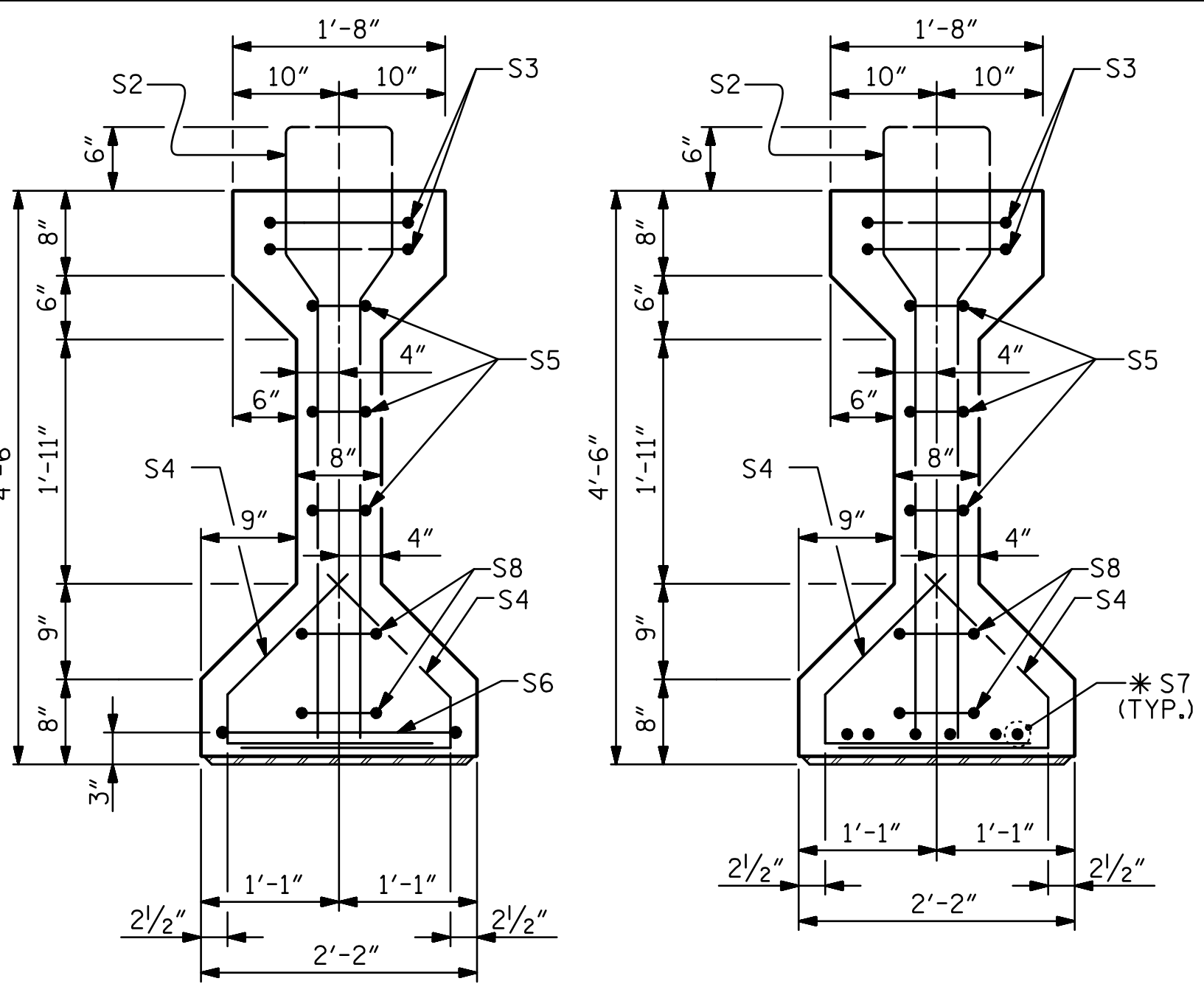


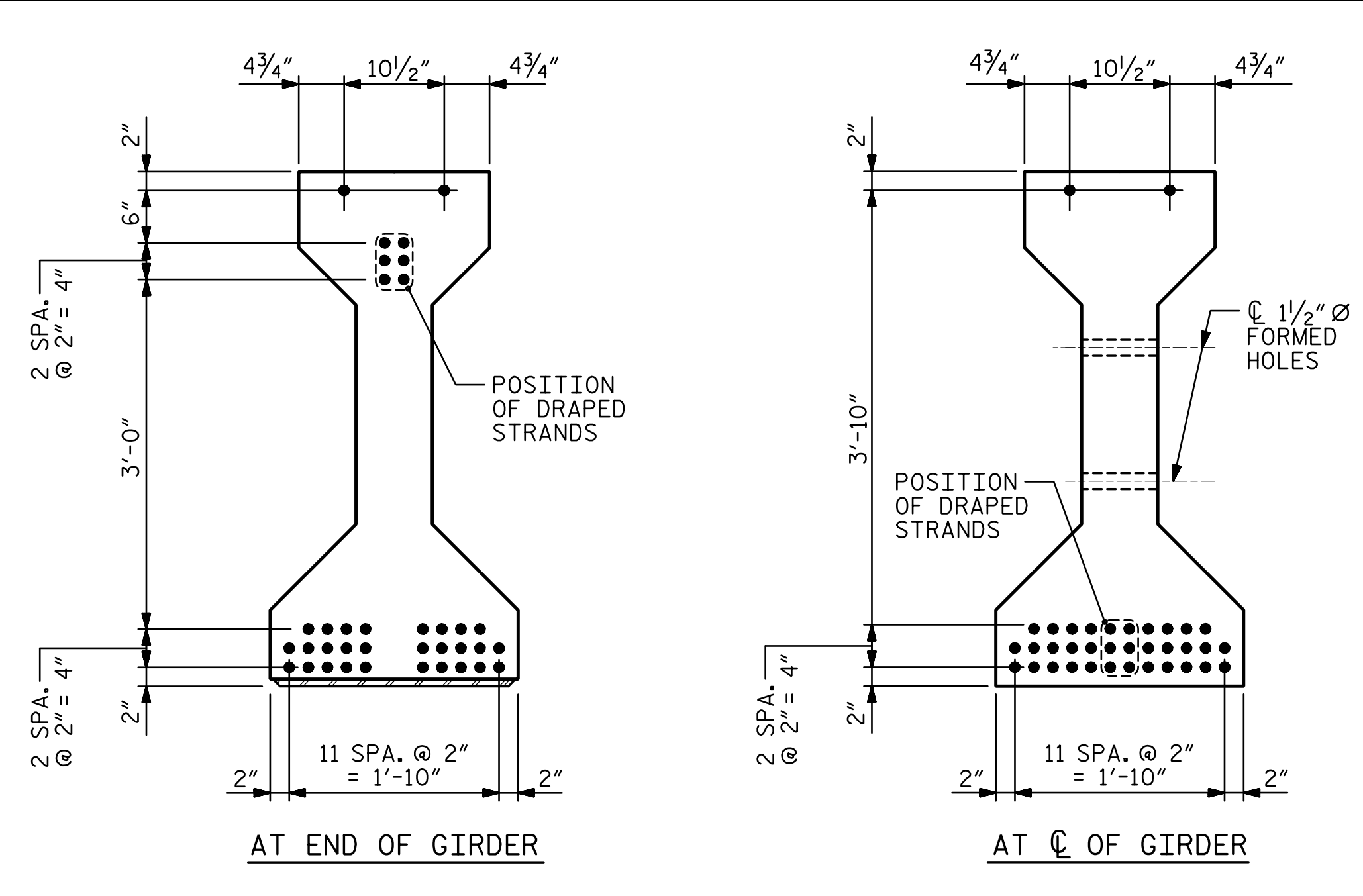
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SECTION A-A

SECTION B-B

\*FOR S7 BARS SEE DETAIL "A" 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

QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	9000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
SPAN A	1,264	18.9	36
SPAN B	1,280	19.1	36
SPAN C	1,264	19.1	36
SPAN D	1,264	19.1	36

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
SPAN A	4	93'-3"
SPAN B	4	94'-2"
SPAN C	4	94'-2"
SPAN D	4	94'-2"

THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 21 KIPS.

DIMENSION	SPAN A	SPAN B	SPAN C	SPAN D
"A"	93'-3"	94'-2"	94'-2"	94'-2"
"B"	46'-7 1/2"	47'-1"	47'-1"	47'-1"
"C"	8"	1'-1 1/2"	1'-1 1/2"	1'-1 1/2"

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

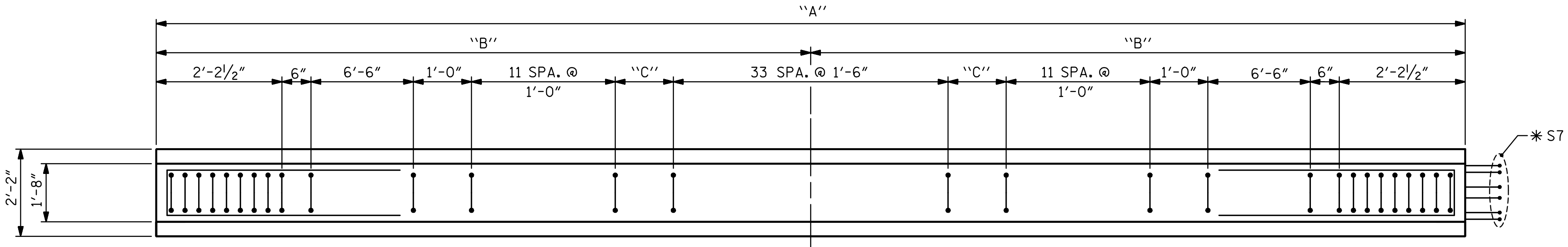
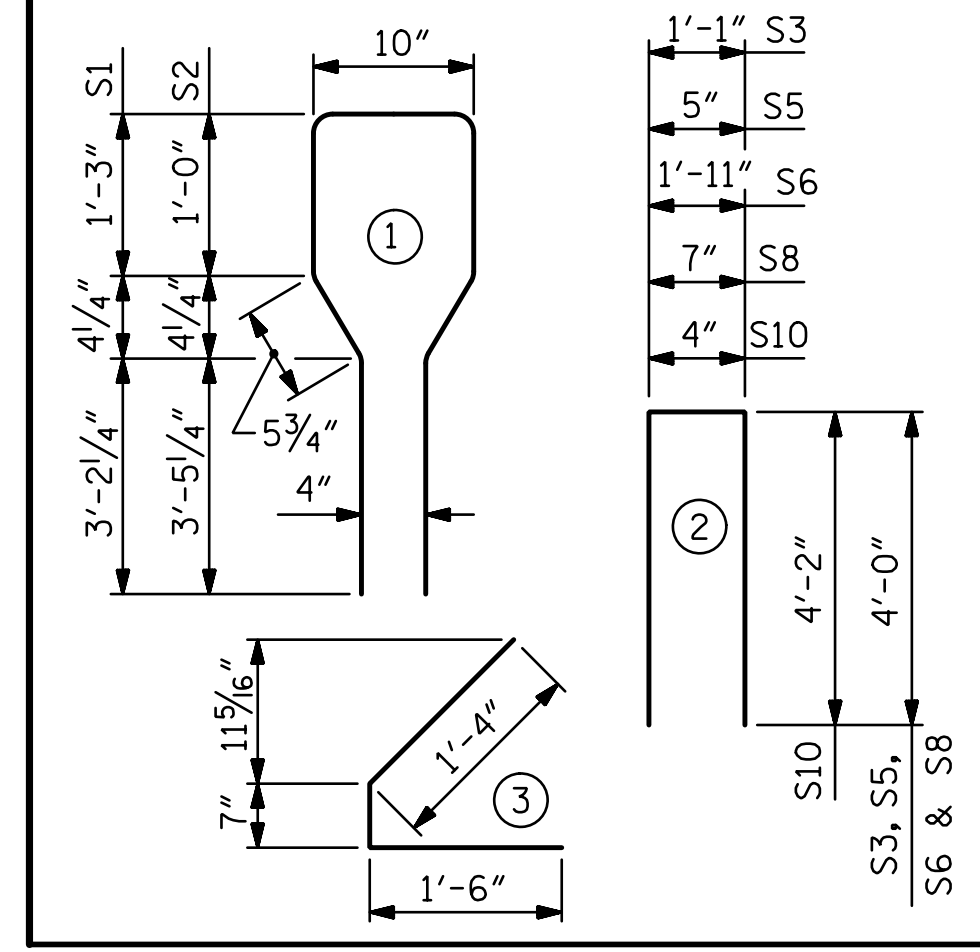
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
S1	86	#4	1	10'-8"	613	
S2	18	#6	1	10'-8"	288	
S3	4	#4	2	9'-1"	24	
S4	92	#4	3	3'-5"	210	
S5	6	#4	2	8'-5"	34	
SPAN A	S6	1	#4	2	9'-11"	7
SPAN C	S6	1	#4	2	9'-11"	7
SPAN D	S6	1	#4	2	9'-11"	7
SPAN A	*S7	6	#5	STR	3'-8"	23
SPAN B	*S7	12	#5	STR	3'-8"	46
SPAN C	*S7	6	#5	STR	3'-8"	23
SPAN D	*S7	6	#5	STR	3'-8"	23
	S8	4	#4	2	8'-7"	23
SPAN A	S9	1	#3	STR	1'-10"	1
SPAN B	S9	2	#3	STR	1'-10"	1
SPAN C	S9	1	#3	STR	1'-10"	1
SPAN D	S9	1	#3	STR	1'-10"	1
	S10	2	#5	2	8'-8"	18
	S11	5	#4	STR	7'-0"	23

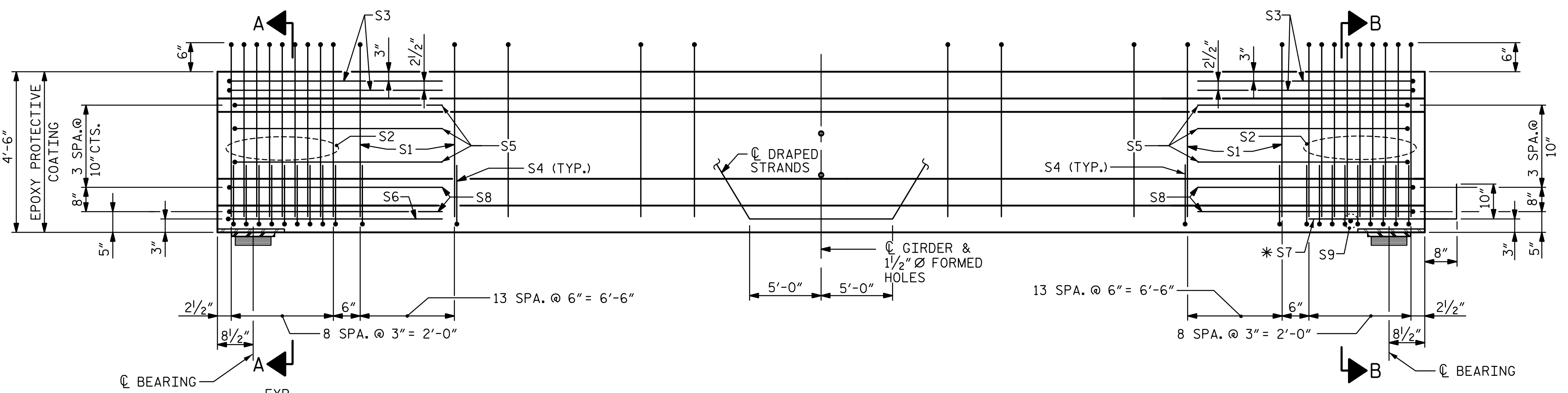
\*NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



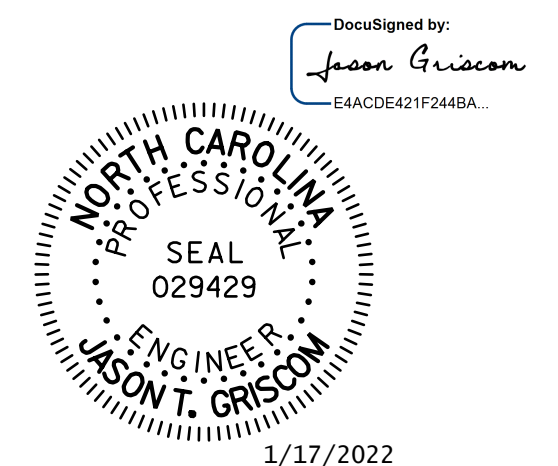
PLAN OF GIRDER



ELEVATION OF GIRDER

(FOR ADDITIONAL "S" BARS AT INTERMEDIATE DIAPHRAGM, SEE PARTIAL ELEVATION ON "PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS" SHEET)

FIX. SPAN A, BENT 1  
SPAN B, BENT 1  
SPAN C, BENT 2  
SPAN D, BENT 4



STV ENGINEERS, INC. 100  
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Charlotte, NC 28202  
NC License Number F-0991

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. **B-5810**  
CABARRUS COUNTY  
STATION: **23+17.00 -L-**

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
**AASHTO TYPE IV  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD  
SPANS A-D**

ASSEMBLED BY : LGH	DATE : 6-19
CHECKED BY : MLO	DATE : 12-19
DESIGN ENGINEER OF RECORD : J. GRISCOM	DATE : 1-22

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

TOTAL SHEETS 36