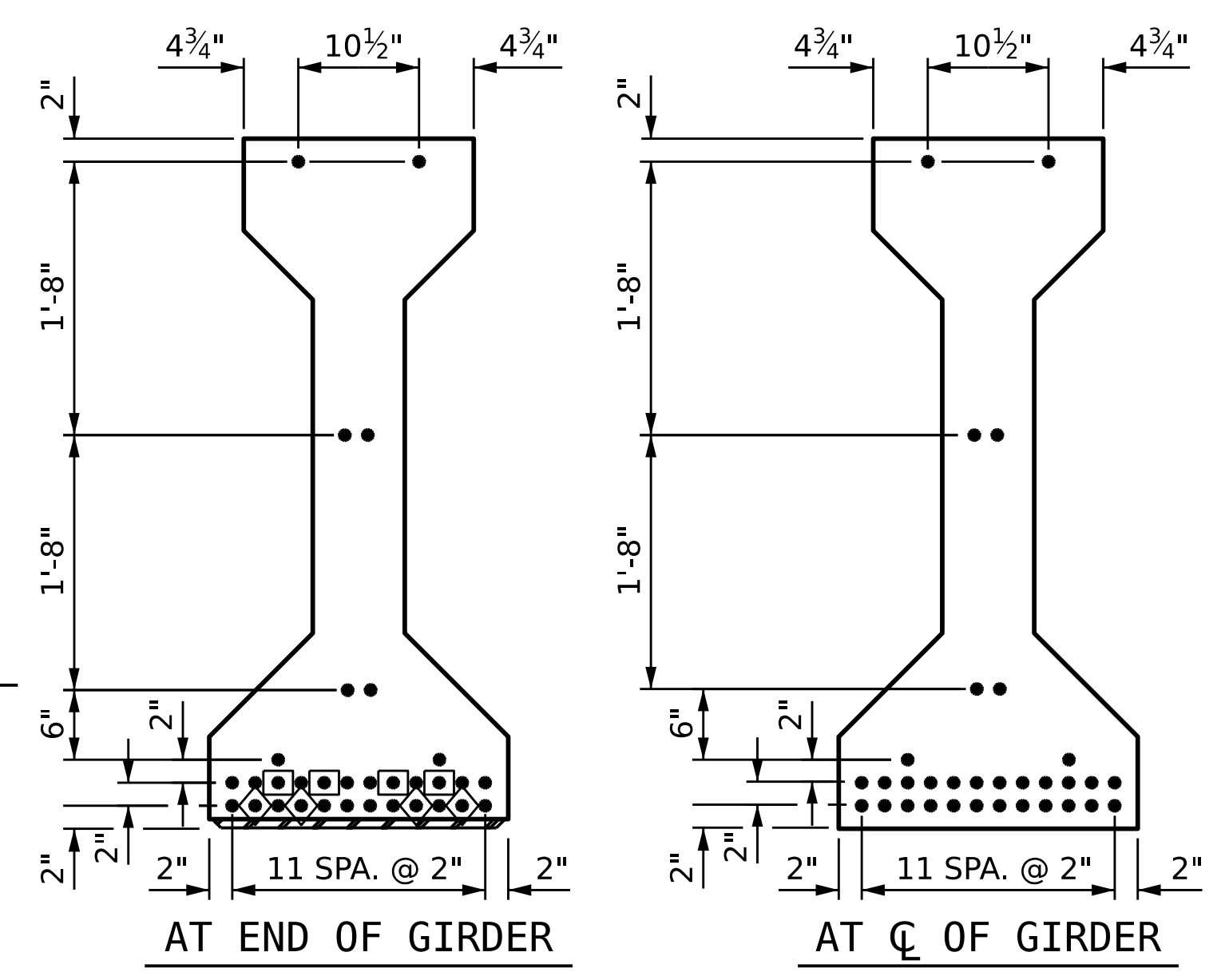


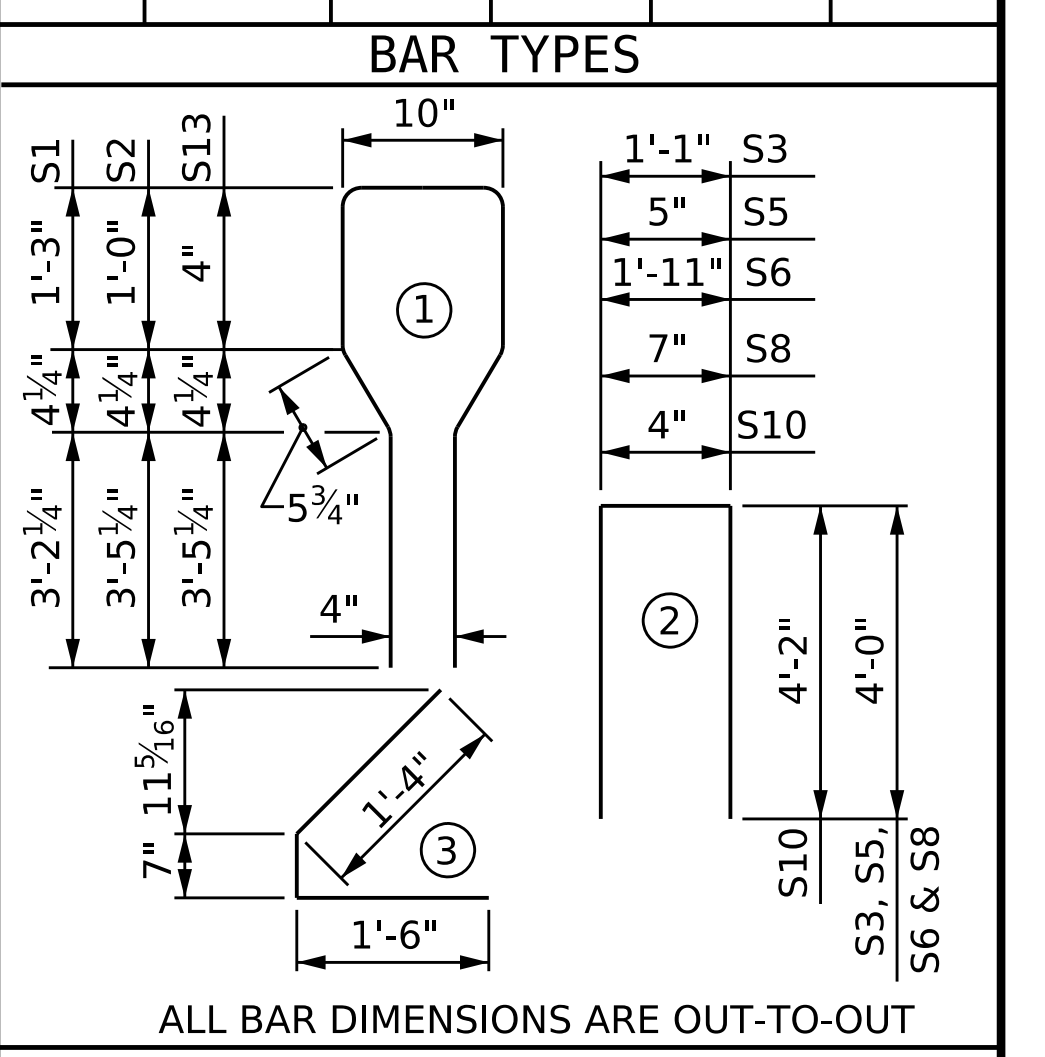
- DEBONDING LEGEND**
- FULLY BONDED STRANDS
  - STRANDS DEBONDED FOR 4'-0" FROM END GIRDER
  - STRANDS DEBONDED FOR 10'-0" FROM END GIRDER



GDR. 1,4,5,9	S10	2	#5	2	8'-8"	18
GDR. 2,3,6-8	S10	4	#5	2	8'-8"	36
GDR. 1,4,5,9	S11	5	#4	STR	7'-0"	23
GDR. 2,3,6-8	S12	5	#4	STR	11'-3"	38
	S13	12	#6	1	9'-4"	168

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	81	#4	1	10'-8"	577
S2	12	#6	1	10'-8"	192
S3	4	#4	2	9'-1"	24
S4	64	#4	3	3'-5"	146
S5	6	#4	2	8'-5"	34
S6	2	#4	2	9'-11"	13
S8	4	#4	2	8'-7"	23



QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	8000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GDR. 1,4,5,9	1218	17.8	32
GDR. 2,3,6-8	1251	17.8	32

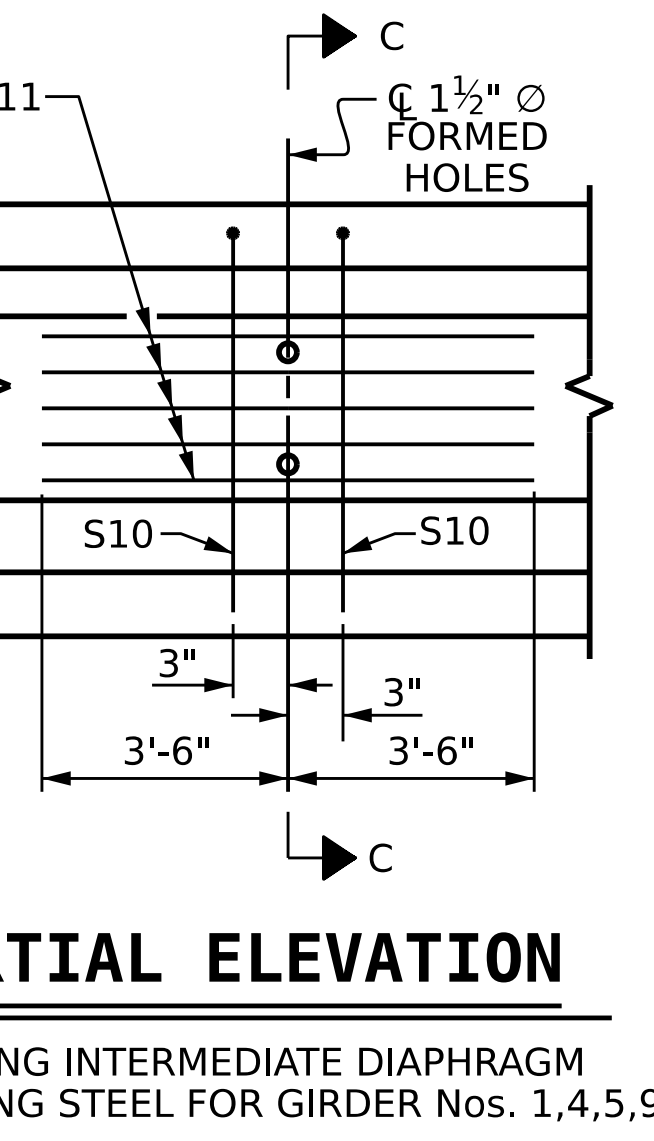
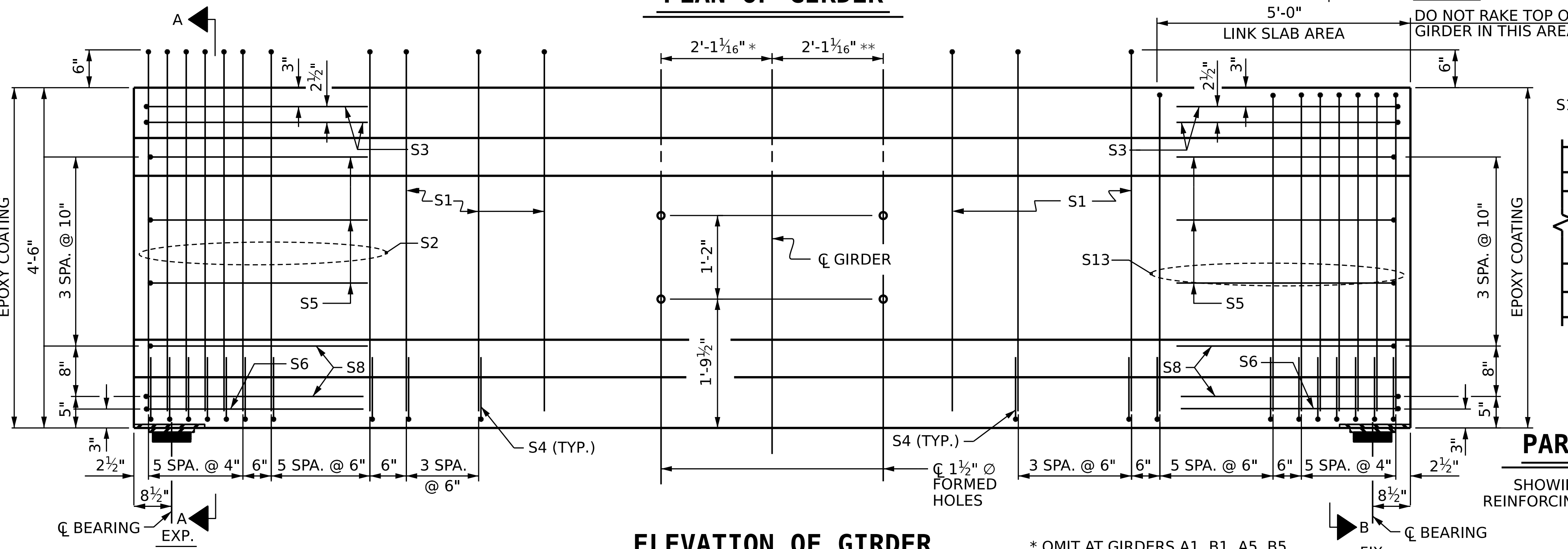
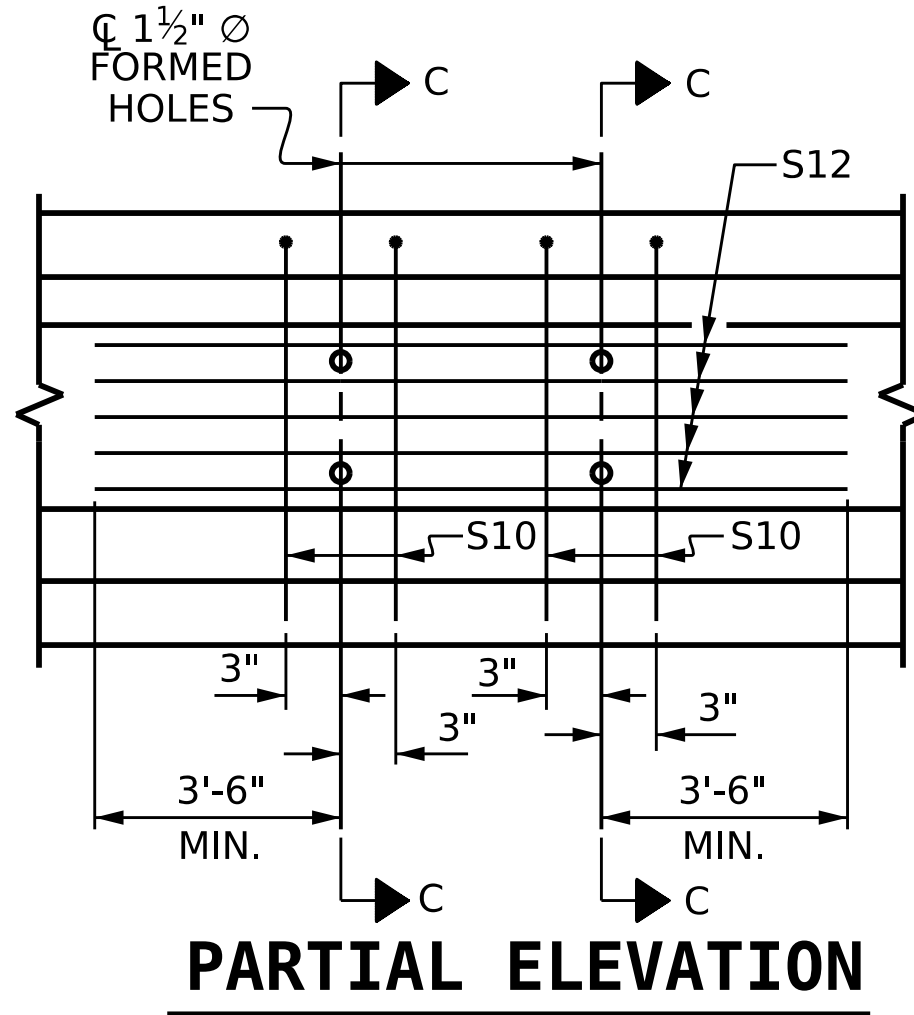
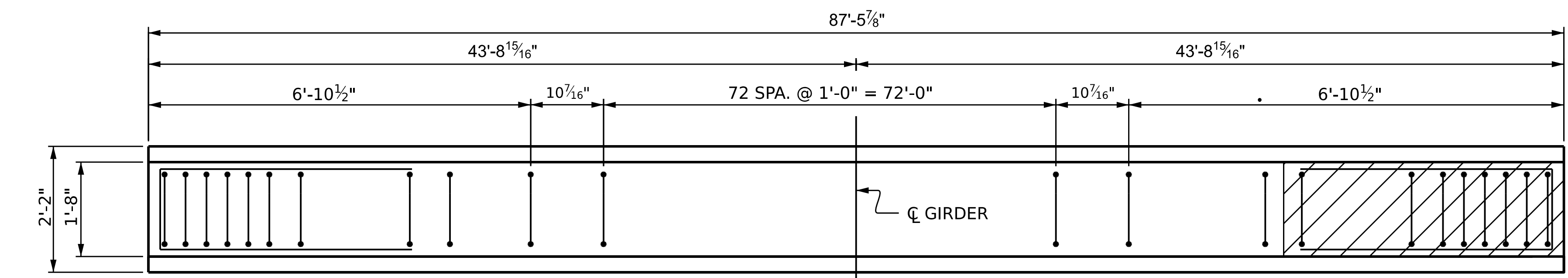
GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
STAGE I SPAN A	4	87'-5 7/8"
STAGE I SPAN B	4	87'-5 7/8"
STAGE II SPAN A	5	87'-5 7/8"
STAGE II SPAN B	5	87'-5 7/8"
TOTAL	18	1574'-9 3/4"

PROJECT NO. BR-0041  
 ROCKINGHAM COUNTY  
 STATION: POT 34+73.00 -L-  
 SHEET 1 OF 3

**AECOM**  
 AECOM TECHNICAL SERVICES OF NC, INC.  
 5430 WADE PARK BOULEVARD, SUITE 200  
 RALEIGH, NC 27607  
 (919) 854-6200  
 www.aecom.com  
 AECOM License No. FC242

**PROFESSIONAL SEAL**  
 GREGORY R. COLES  
 2/19/2023

REVISIONS						SHEET NO. S-20
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 48
2			4			



ASSEMBLED BY : L.A. SHIELDS	DATE : 10/2022
CHECKED BY : S. NATARAJAN	DATE : 10/2022
DRAWN BY : ELR 8/91	REV. 1/15 MAA/TMG
CHECKED BY : GRP 8/91	REV. 12/17 MAA/THC
	REV. 11/21 BNB/AAI

\* OMIT AT GIRDERS A1, B1, A5, B5  
 \*\* OMIT AT GIRDERS A4, B4, A9, B9

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED