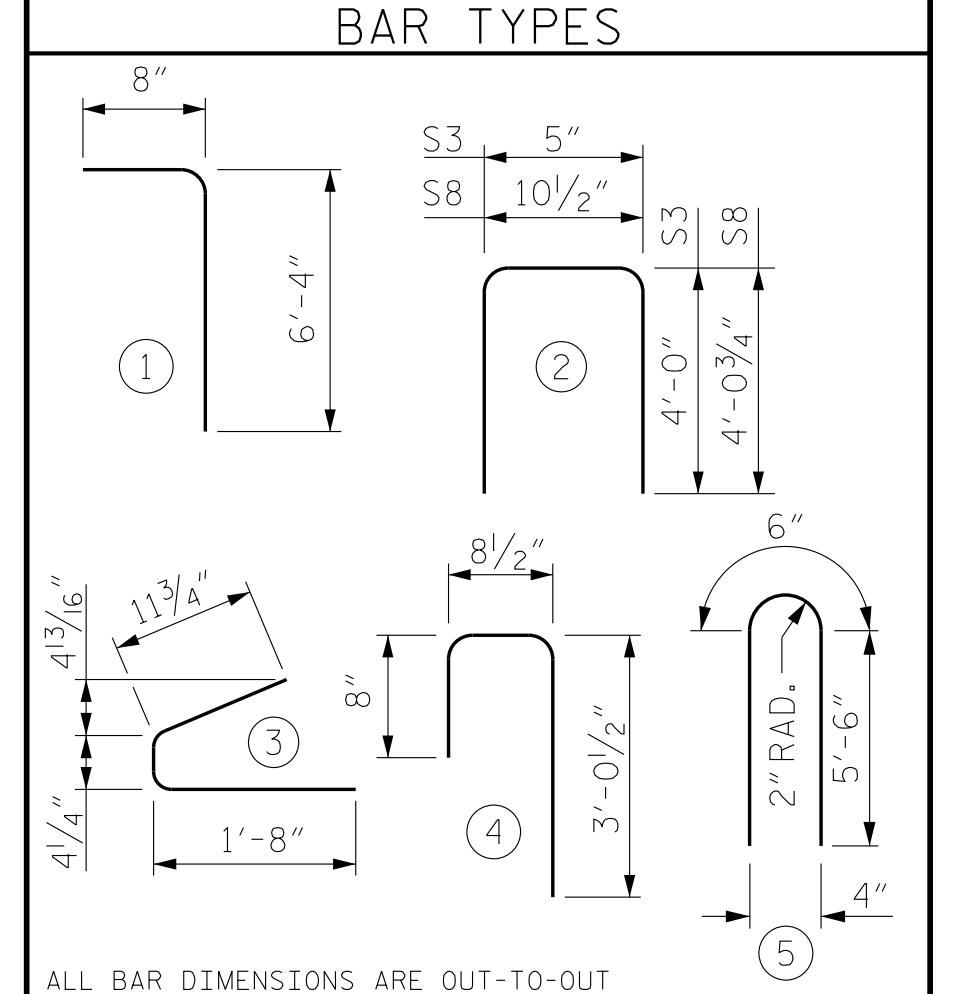


AT END OF GIRDER AT C OF GIRDER
0.6" Ø LOW RELAXATION STRAND LAYOUT

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	170	#4	1	7'-0"	795
S2	24	#5	1	7'-0"	175
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	194	#5	4	4'-5"	894
*S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	52	#5	STR	3'-3"	176
S10	2	#3	STR	1'-10"	1
S11	8	#5	5	11'-6"	96
S12	16	#4	STR	8'-0"	86

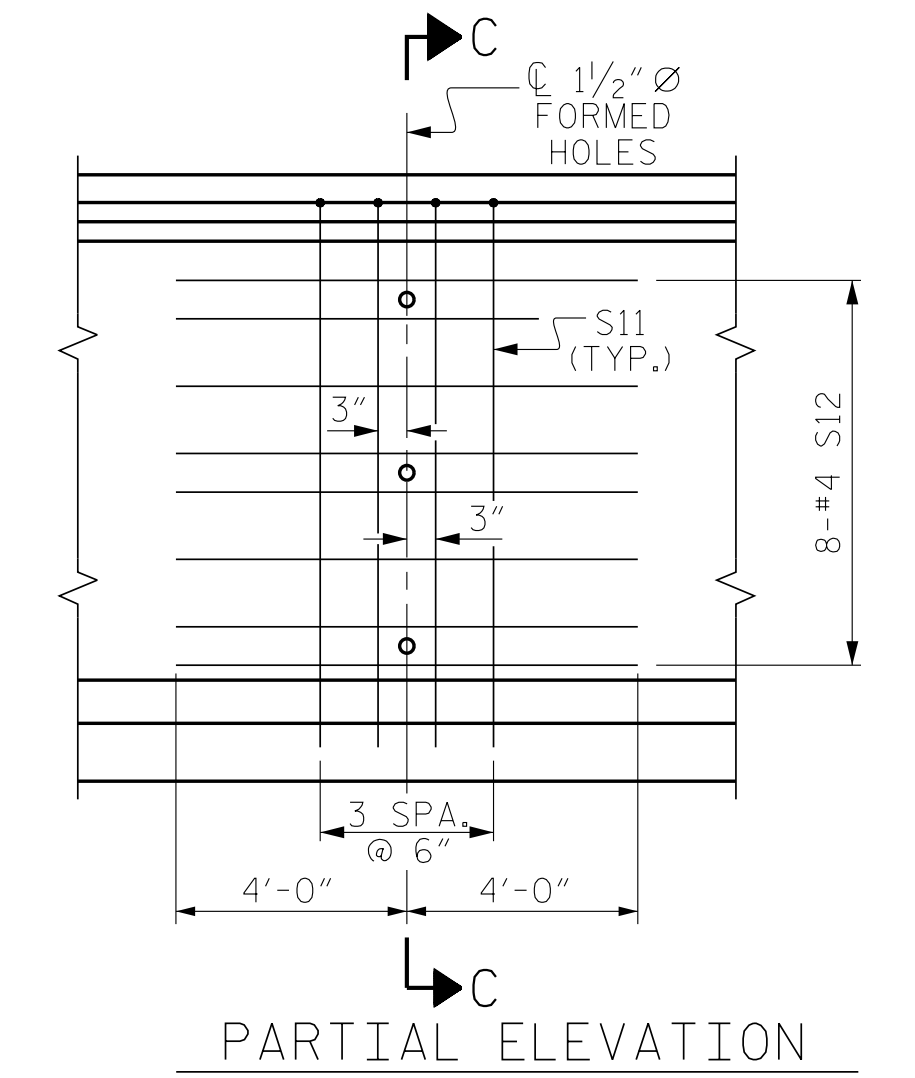
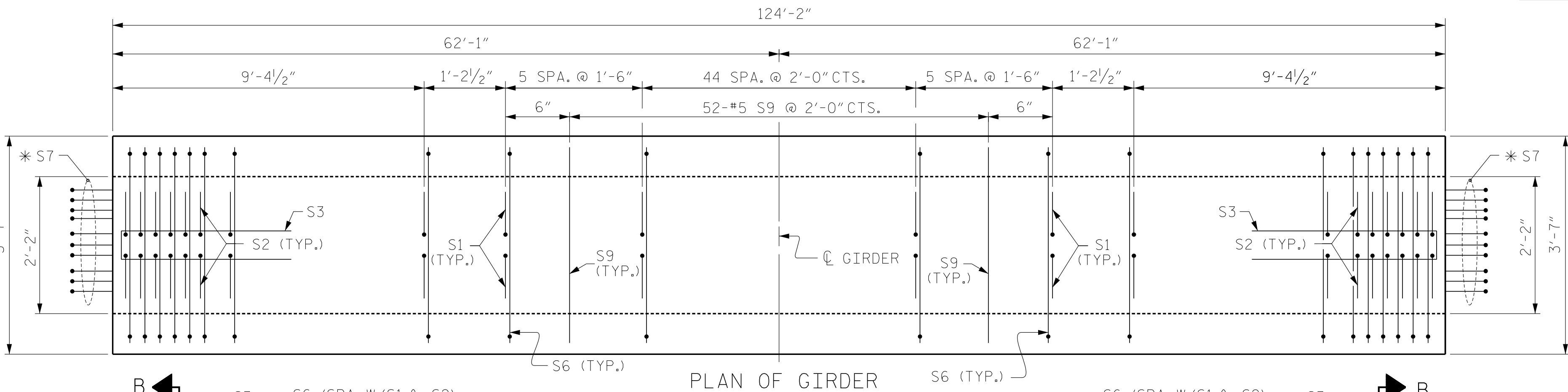
* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



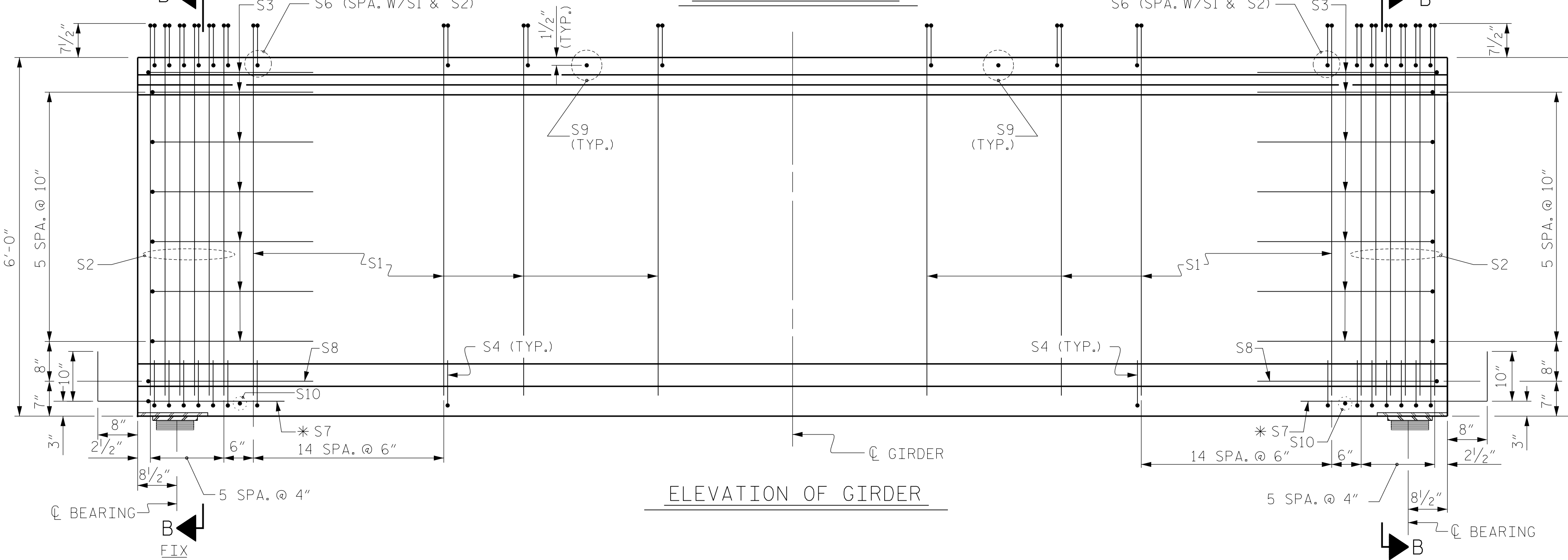
QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	10000 PSI CONCRETE	0.6" Ø L.R. STRANDS	
	LB.	C.Y.	No.
	2565	26.6	50

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
11	124'-2"	1365'-10"

DEBONDING LEGEND
 ● FULLY BONDED STRANDS
 ◻ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
 ○ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER



SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDERS



V&M
 Vaughn & Melton
 Consulting Engineers
 Asheville, North Carolina
 828-253-2796
 Raleigh, NC 919-977-9455
 Charlotte, NC 704-357-0488
 Atlanta, GA 770-627-3590
 Boone, NC 828-355-9333
 Tri-Cities, TN 423-467-8401
 Knoxville, TN 865-546-5800
 Spartanburg, SC 864-574-4775
 Charleston, SC 843-974-5650
 Middlesboro, KY 606-248-6500
 7/17/2018 9:03:43 AM EDT
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. R-3825B
 JOHNSTON COUNTY
 STATION: 64+20.00 -L-

SHEET 2 OF 4
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 72" PRESTRESSED CONCRETE
 MODIFIED BULB TEE
 CONTINUOUS FOR LIVE LOAD
 SPAN 'B'

REVISIONS						SHEET NO. S-20
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 59
2			4			

ASSEMBLED BY :	WDC	DATE :	7/2017
CHECKED BY :	ACO	DATE :	12/2017
DRAWN BY :	EEM 2/6/97	REV. 10/1/11	MAA/GM
CHECKED BY :	VAP 2/6/97	REV. 6/13	MAA/GM
		REV. 1/15	MAA/TMG