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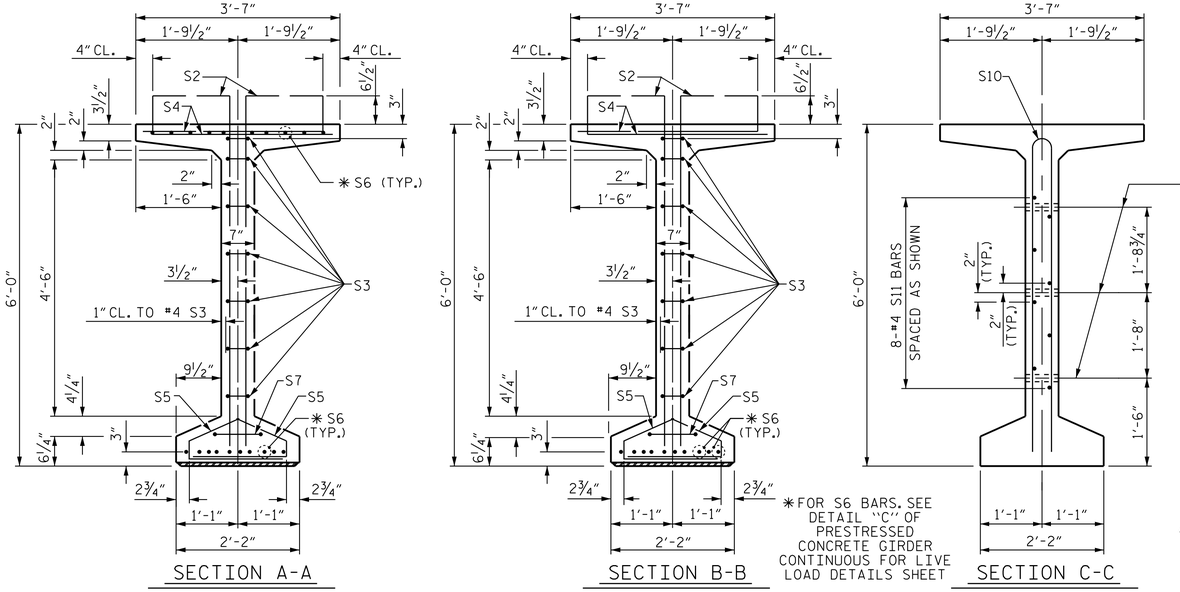
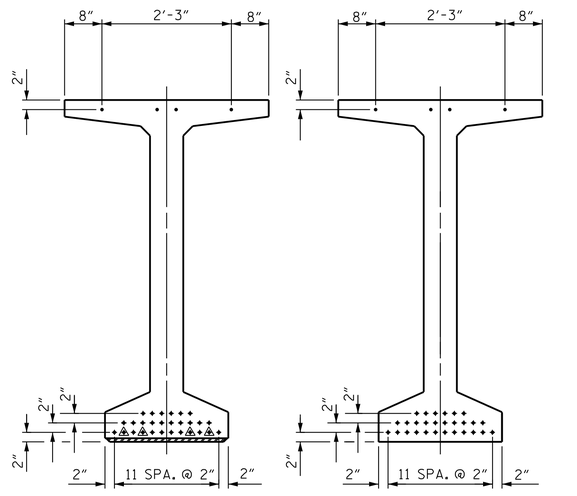


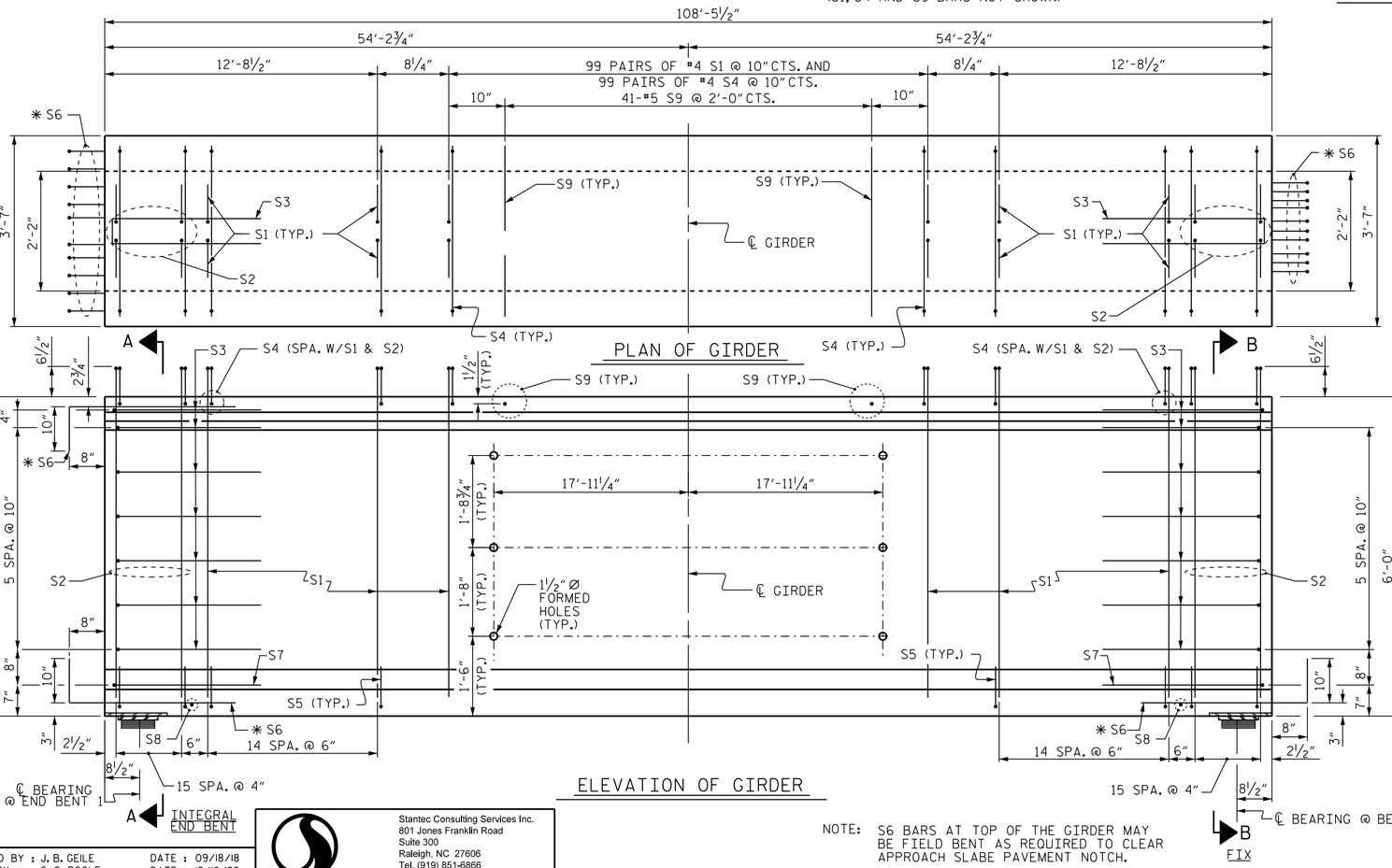
DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- △ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

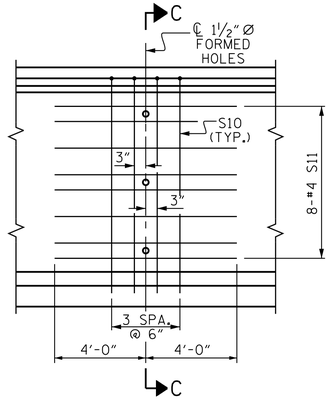


AT END OF GIRDER AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT



NOTE: S6 BARS AT TOP OF THE GIRDER MAY BE FIELD BENT AS REQUIRED TO CLEAR APPROACH SLABE PAVEMENT NOTCH.



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS

0.6" Ø L. R. GRADE 270 STRANDS

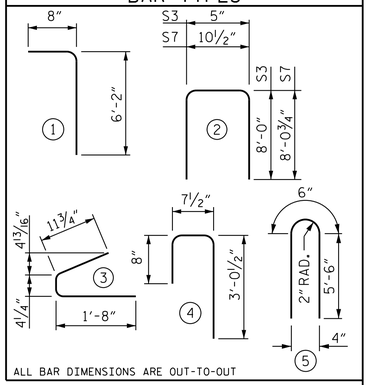
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	258	#4	1	6'-10"	1178
S2	64	#5	1	6'-10"	457
S3	14	#4	2	16'-5"	154
S4	322	#4	4	4'-4"	933
S5	124	#4	3	3'-0"	249
✱ S6	30	#5	STR	3'-8"	115
S7	2	#5	2	17'-0"	36
S8	2	#3	STR	1'-10"	2
S9	41	#5	STR	3'-3"	139
S10	8	#5	5	11'-6"	96
S11	16	#4	STR	8'-0"	86

✱ NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9,500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
	3445	23.2	32

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	108'-5½"	867'-8"

PROJECT NO. R-2707D

CLEVELAND COUNTY

STATION: 849+00.00 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

MODIFIED 72" PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD

SPAN A
(RIGHT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 054498 ENGINEER SETH S. POOLE

Digitally signed by: [redacted]
5/10/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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

SHEET NO. S6-22

TOTAL SHEETS 56

ASSEMBLED BY : J. B. GEILE DATE : 09/18/18
CHECKED BY : S. S. POOLE DATE : 12/10/22

DRAWN BY : EEM 2/6/97
CHECKED BY : VAP 2/6/97

Stantec

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DESIGN ENGINEER OF RECORD: S.S. POOLE DATE : 05/10/23

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