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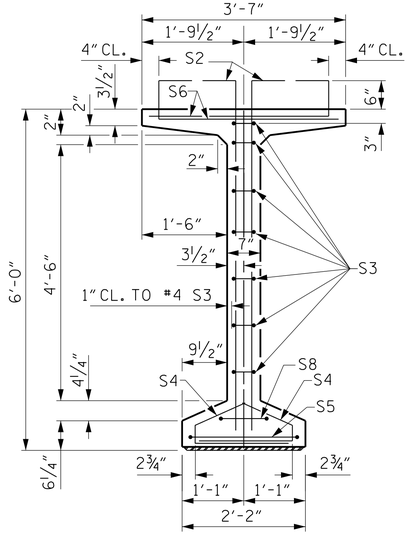
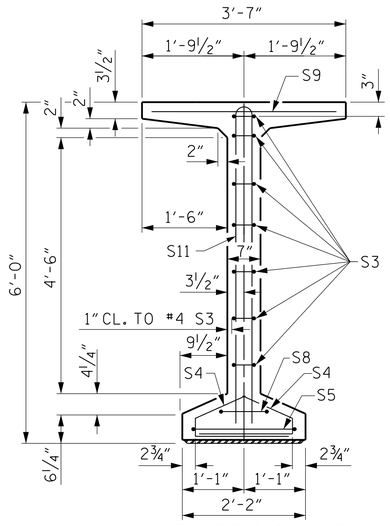


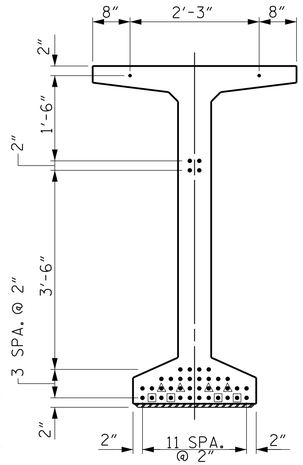
SECTION A-A



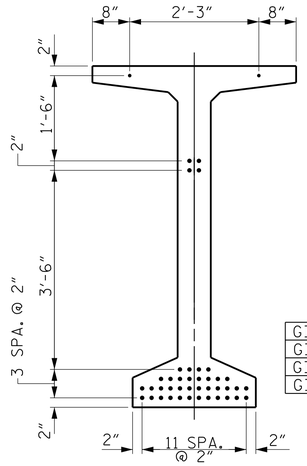
SECTION B-B

DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- ◘ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ◬ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER



AT END OF GIRDER



AT ℄ OF GIRDER

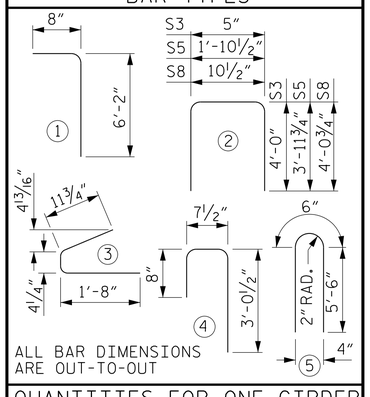
0.6"Ø LOW RELAXATION STRAND LAYOUT

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	262	#4	1	6'-10"	1196	
S2	84	#5	1	6'-10"	599	
S3	14	#4	2	8'-5"	79	
S4	84	#4	3	3'-0"	168	
S5	2	#5	2	9'-10"	21	
S6	346	#5	4	4'-4"	1564	
S8	2	#5	2	9'-0"	19	
S9	92	#5	STR	3'-3"	312	
S11	22	#5	5	11'-6"	264	GIRDERS 1, 7, 8, 15
S11	30	#5	5	11'-6"	360	GIRDERS 2-6, 9-14
S12	16	#4	STR	8'-0"	86	GIRDERS 1, 7, 8, 15
S13	16	#4	STR	12'-9"	136	GIRDERS 2-6, 9-14

BAR TYPES



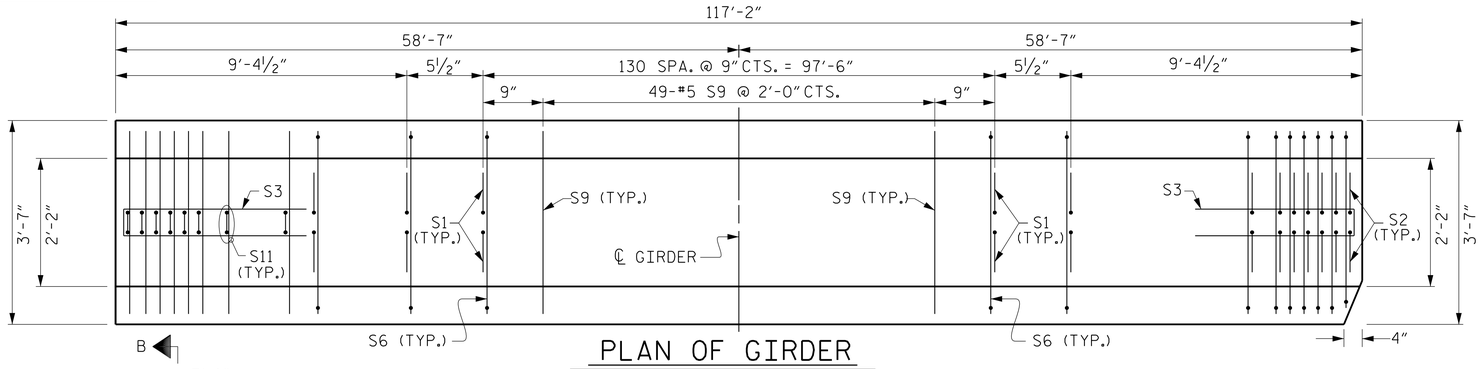
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

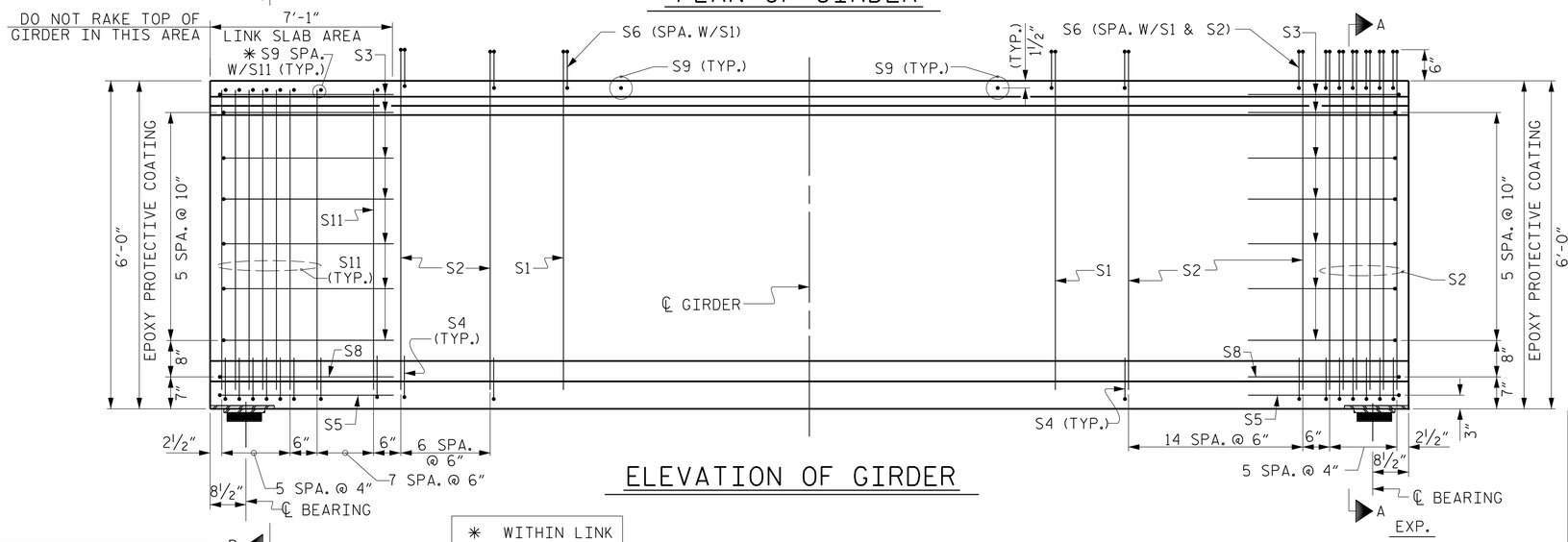
GIRDERS	REINFORCING STEEL	9000 PSI CONCRETE	0.6"Ø L.R. STRANDS
	LB.	C.Y.	No.
1, 7, 8, 15	3813	25.1	42
2-6, 9-14	3959	25.1	42

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
15	117'-2"	1757'-6"



PLAN OF GIRDER



✳ WITHIN LINK SLAB AREA ONLY

ELEVATION OF GIRDER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

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NC License # F-1333
formerly CALYX Engineers & Consultants

THIS STANDARD DRAWING REVIEWED & ADOPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED:

NORTH CAROLINA PROFESSIONAL SEAL 027637 ENGINEER KEVIN AUSTIN
Digitally signed by: Kevin Austin
DN: C=US, E=kaustin@ncdot.gov, O=NCDOT, CN=Kevin Austin, 0.9.2342.19200300.100.1.1=kaustin
4/22/2022

PROJECT NO. I-5987B

ROBESON COUNTY

STATION: 617+12.20 -L- POT

SHEET 2 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
72" PRESTRESSED CONCRETE MODIFIED BULB TEE LINK SLAB-SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S6-21
1			3			TOTAL SHEETS
2			4			53

STD. NO. PCG8 (SHT. 1)

ASSEMBLED BY :	W. B. ALLEN	DATE : 11/21
CHECKED BY :	M. D. METZGER	DATE : 12/21
DRAWN BY :	BNB 9/21	
CHECKED BY :	AAI 9/21	

4/20/2022 lblell AM G:\Project\2019\20192101.03\CLIENT\Structures\I-5987B (I-5 - NC 20)\I5987B_SMU_02_TT059.dgn