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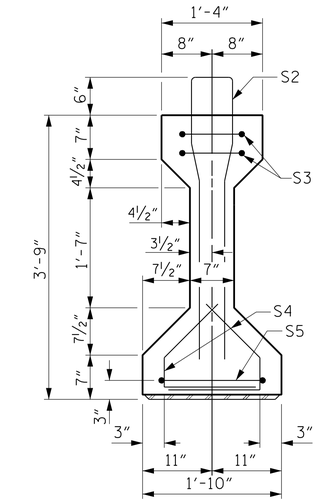
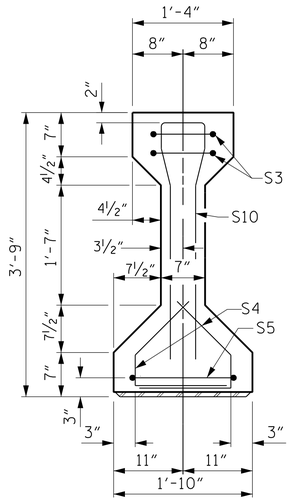
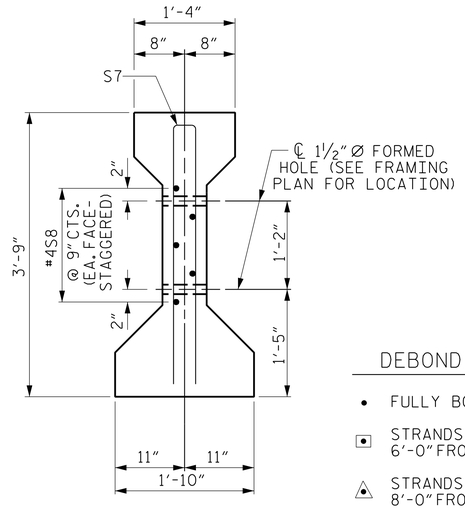


SECTION A-A



SECTION B-B

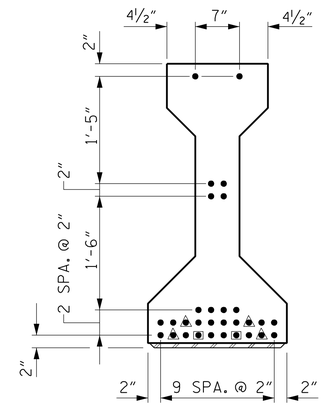


SECTION C-C

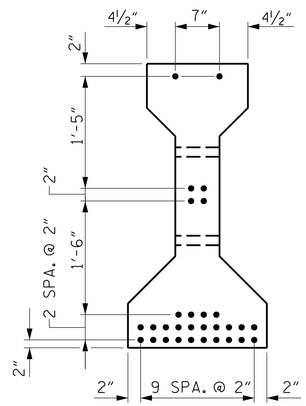
(S1 BARS NOT SHOWN)

DEBONDING LEGEND

- • FULLY BONDED STRANDS
- ⊡ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- ◬ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER



AT END OF GIRDER



AT ℄ OF GIRDER

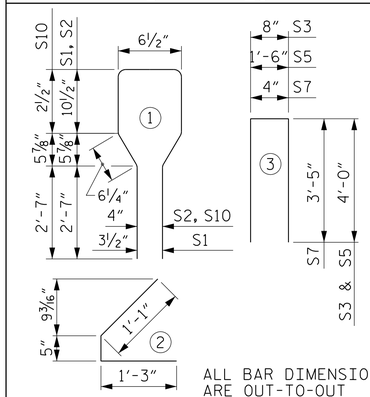
0.6"Ø LOW RELAXATION STRAND LAYOUT

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 GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	54	#4	1	8'-6"	307
S2	6	#6	1	8'-6"	77
S3	4	#4	3	8'-8"	23
S4	56	#4	2	2'-9"	103
S5	2	#4	3	9'-6"	13
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S10	7	#6	1	7'-2"	75

BAR TYPES



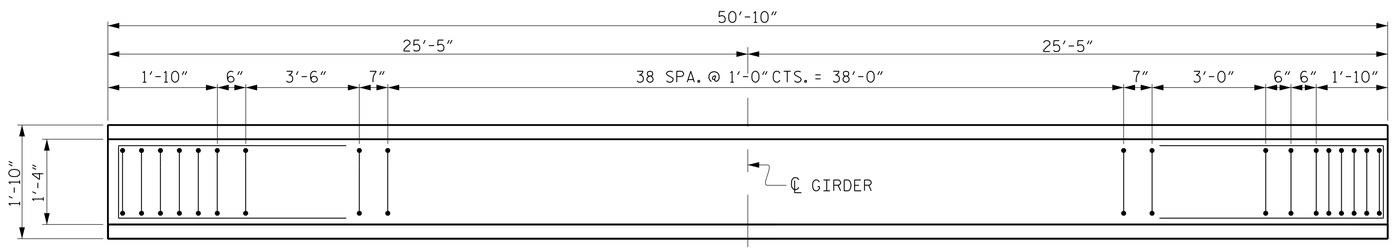
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

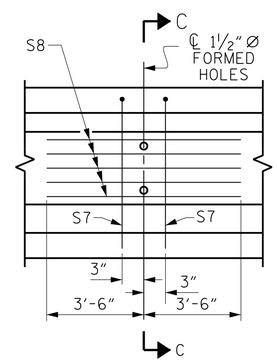
	REINFORCING STEEL	8000 PSI CONCRETE	0.6"Ø L.R. STRANDS
	LB.	C.Y.	No.
GDRS. 1 - 15	636	7.3	30

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
30	50'-10"	1525'-0"

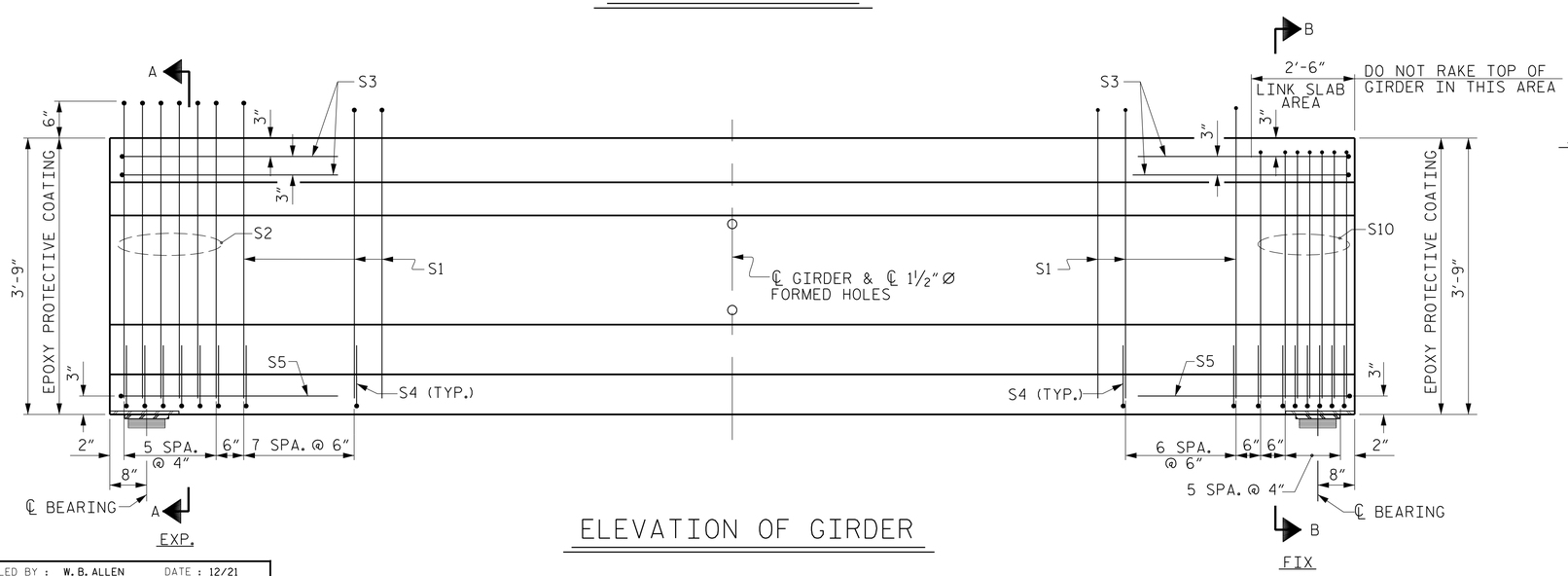


PLAN OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL ALL GIRDERS



ELEVATION OF GIRDER

PROJECT NO. I-5987B

ROBESON COUNTY

STATION: 586+14.00 -L- POT

SHEET 1 OF 4

PLANS PREPARED BY:

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333

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

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER KEVIN AUSTIN 047361

DocuSigned by: L. Kevin Austin, P.E. 7B73F3F2C0A6B...

4/24/2022

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

AASHTO TYPE III
PRESTRESSED CONCRETE GIRDER
-LINK SLAB
SPAN A & C

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S5-21
1			3				TOTAL SHEETS
2			4				64

STD. NO. PCG5 (SHT. 1)

ASSEMBLED BY :	W. B. ALLEN	DATE :	12/21
CHECKED BY :	G. F. WILSON	DATE :	2/22
DRAWN BY :	BNB 09/21		
CHECKED BY :	AAI 09/21		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

4/22/2022 5:48:03 PM G:\Project\2019\2019217.03\CLIENT\Structures\I-5987B (Big Marsh Swamp)\I5987B_SMU_GL_170536.dgn