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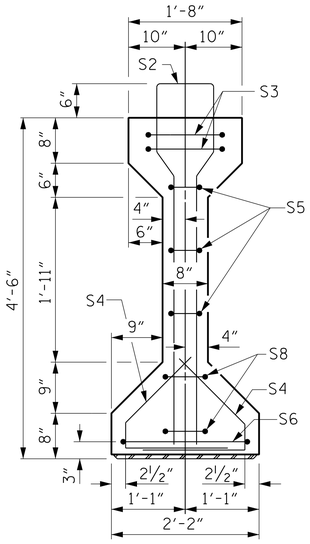
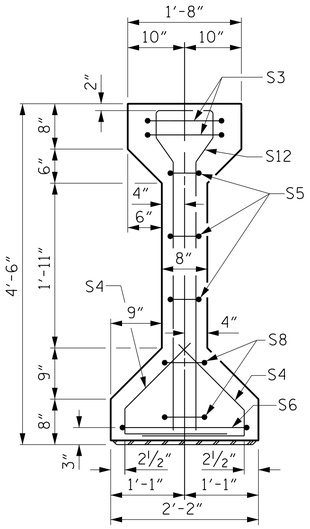
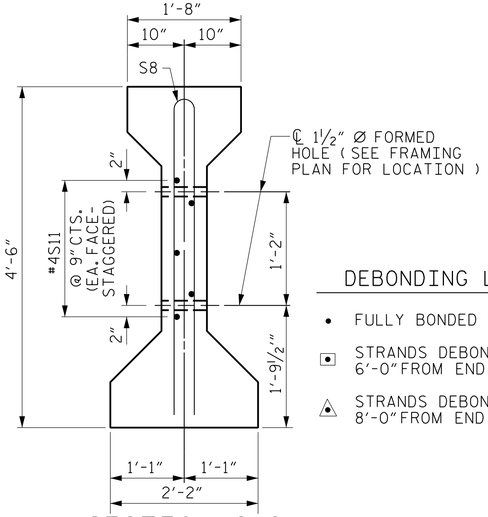


SECTION A-A

FOR S7 BARS SEE DETAIL "A" ON "PRESTRESSED CONCRETE GIRDER DETAILS" SHEET.



SECTION B-B

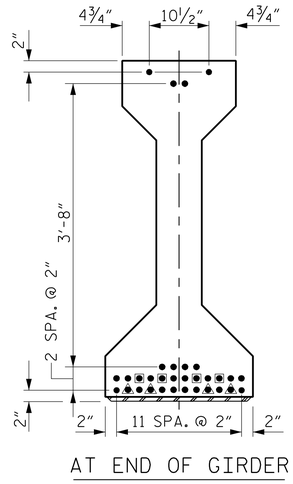


SECTION C-C

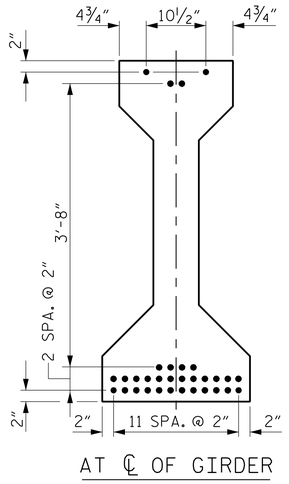
(S1 BARS NOT SHOWN)

DEBONDING LEGEND

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

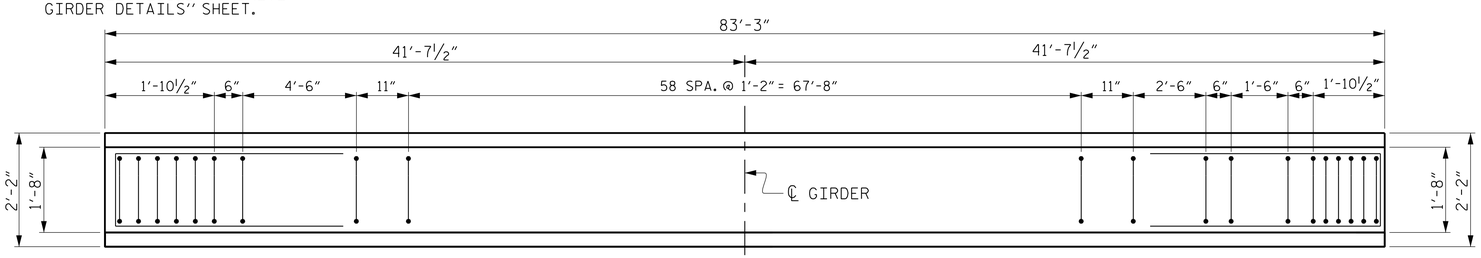


AT END OF GIRDER

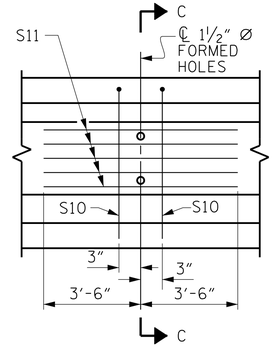


AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

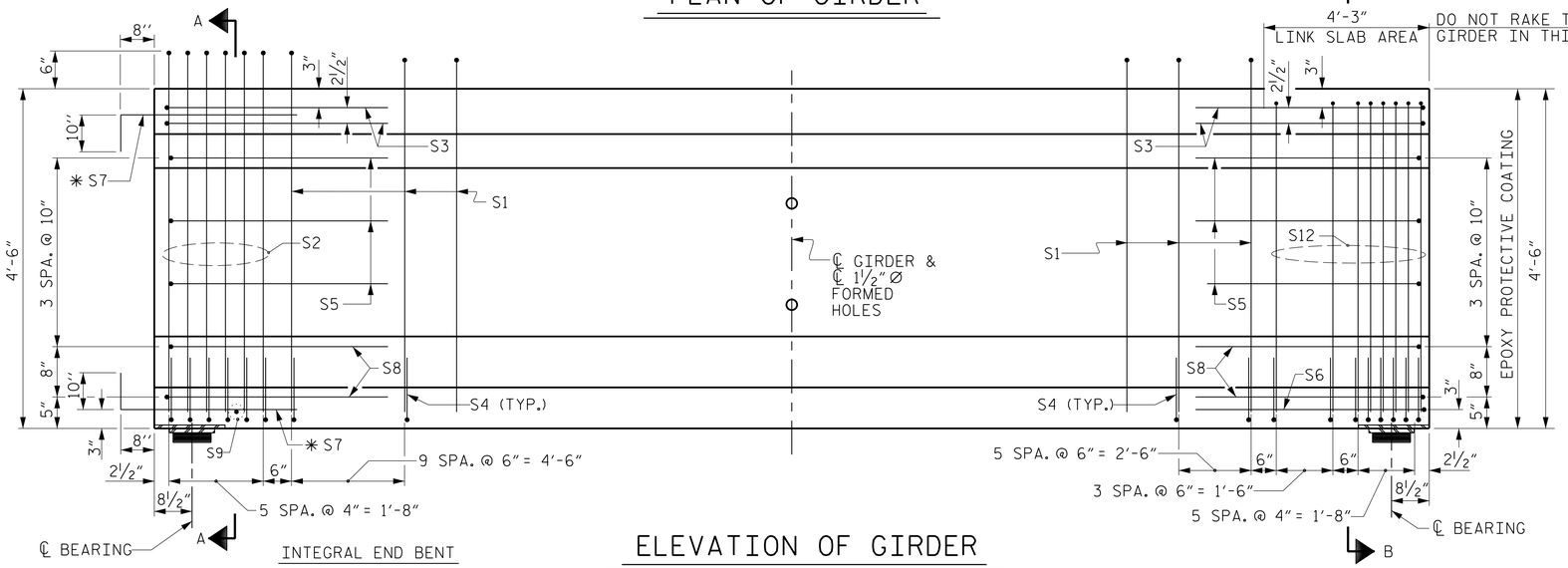


PLAN OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR ALL GIRDER



ELEVATION OF GIRDER

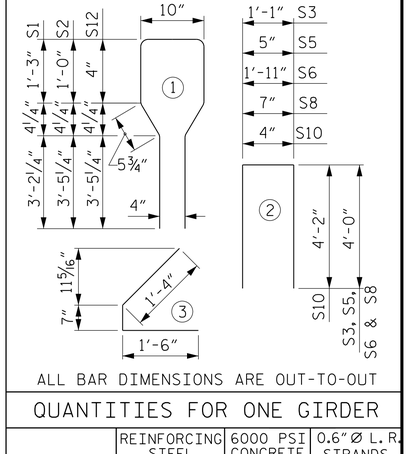
0.6" Ø L.R. GRADE 270 STRANDS

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	75	#4	1	10'-8"	534
S2	6	#6	1	10'-8"	96
S3	4	#4	2	9'-1"	24
S4	64	#4	3	3'-5"	146
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
✳ S7	12	#5	STR	3'-8"	46
S8	4	#4	2	8'-7"	23
S9	1	#3	STR	1'-10"	13
S10	2	#5	2	8'-8"	18
S11	5	#4	STR	7'-0"	23
S12	10	#6	STR	9'-4"	140

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	6000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GDRS. 1-5	1104	16.9	32

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
10	83'-3"	832'-6"

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

PLANS PREPARED BY:

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

PROJECT NO. I-5987A

ROBESON COUNTY

STATION: 41+19.02 -Y1A- POT

SHEET 1 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER - LINK SLAB (SPANS A AND B)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-13
1			3			TOTAL SHEETS
2			4			31

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029661 KEVIN AUSTIN
Docusigned by: L. Kevin Austin 72B7B3726E4A4BB...
5/10/2022

ASSEMBLED BY : W. B. ALLEN DATE : 11/21
CHECKED BY : G. F. WILSON DATE : 11/21
DRAWN BY : BNB 09/21
CHECKED BY : AAI 09/21

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STD. NO. PCG6 (SHT. 1)

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