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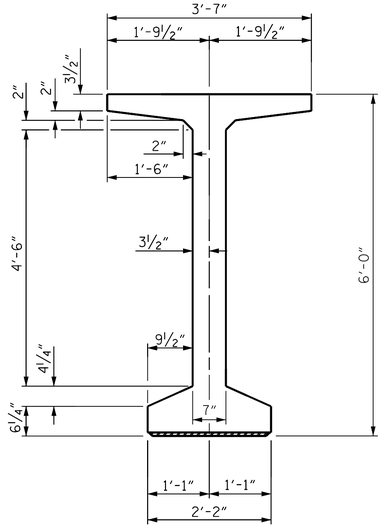
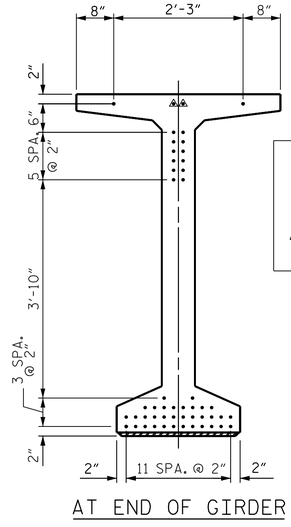


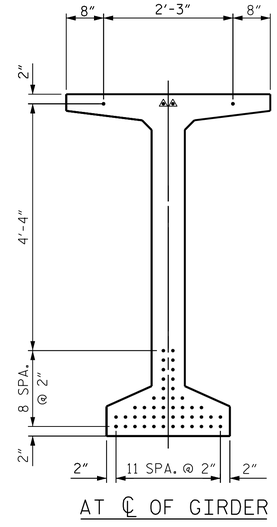
GIRDER OUTSIDE DIMENSIONS



AT END OF GIRDER

DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- ⚠ OPTIONAL SLACK STRANDS TO BE TENSIONED TO 4500 LBS. (MAX.)



AT ℄ OF GIRDER

0.6"Ø LOW RELAXATION STRAND LAYOUT

NOTES

FOR LOCATION OF 1½"Ø FORMED HOLES, SEE "SUPERSTRUCTURE PRESTRESSED CONCRETE GIRDER FOR LINK SLAB DETAILS" SHEET 4 OF 4.

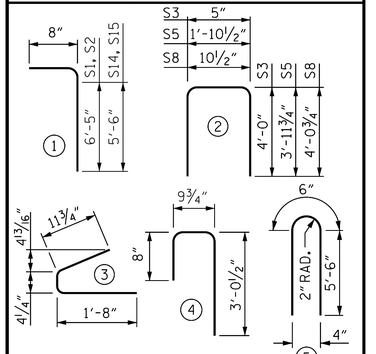
FOR SECTIONS A-A, B-B, C-C & D-D, SEE SHEET 3 OF 4.

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	200	#4	1	7'-1"	947
	S2	18	#6	1	7'-1"	192
	S3	14	#4	2	8'-5"	79
	S4	88	#4	3	3'-0"	177
	S5	2	#5	2	9'-10"	21
	S6	218	#5	4	4'-7"	1043
	S8	2	#5	2	9'-0"	19
	S9	72	#5	STR	3'-3"	245
EXTERIOR GDR.	S11	8	#5	5	11'-6"	96
INTERIOR GDR.	S11	16	#5	5	11'-6"	192
EXTERIOR GDR.	S12	16	#4	STR	8'-0"	86
INTERIOR GDR.	S13	16	#4	STR	13'-6"	145
	S14	18	#4	1	6'-2"	75
	S15	18	#6	1	6'-2"	167

BAR TYPES



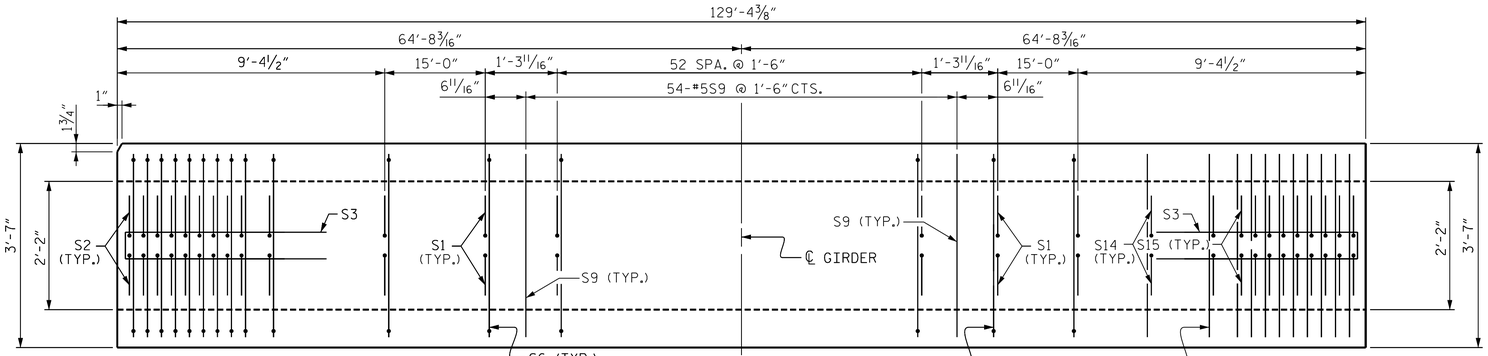
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

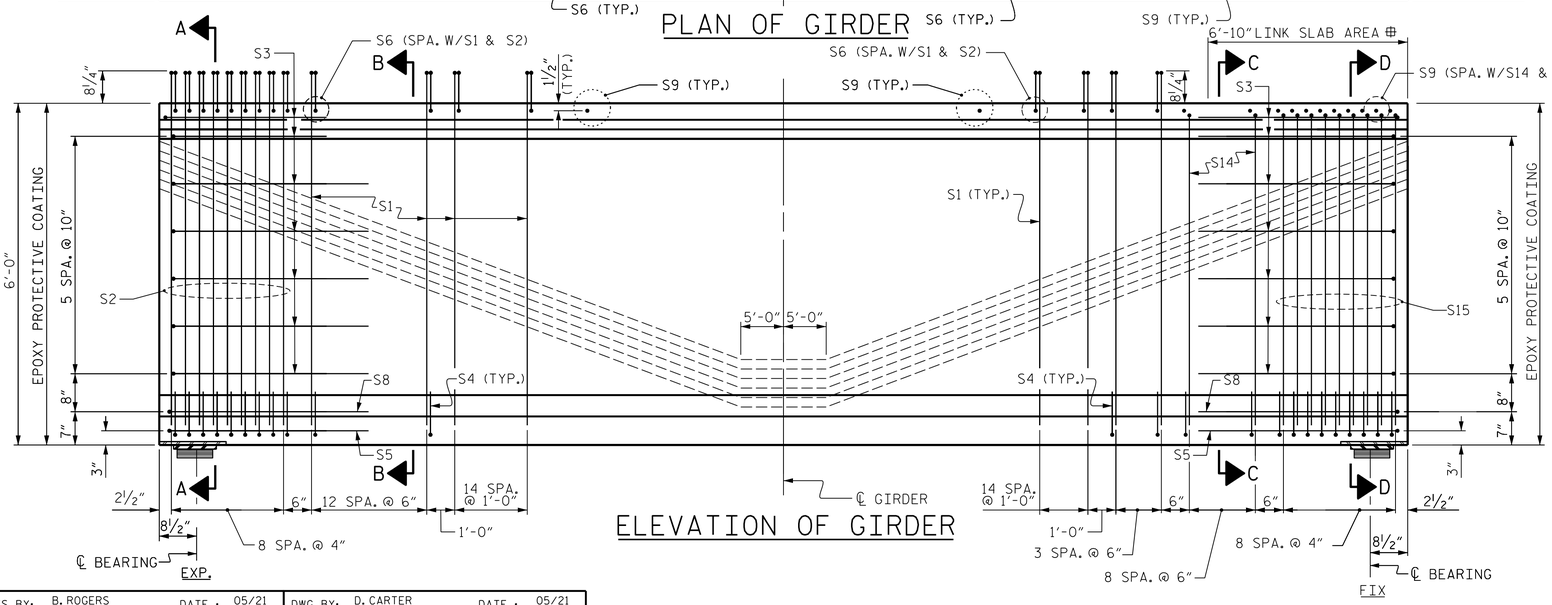
	REINFORCING STEEL	8500 PSI CONCRETE	0.6"Ø L.R. STRANDS
	LB.	C.Y.	No.
EXTERIOR GIRDER	3147	27.7	48
INTERIOR GIRDER	3302	27.7	48

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
13	129'-4⅜"	1681'-8⅞"



PLAN OF GIRDER



ELEVATION OF GIRDER

⊕ DO NOT ROUGHEN TOP OF GIRDER IN THIS AREA

PROJECT NO. B-3186/B-5898

HAYWOOD COUNTY

STATION: 42+71.13 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

72" PRESTRESSED CONCRETE MODIFIED BULB TEE FOR LINK SLAB SPAN A

NORTH CAROLINA PROFESSIONAL SEAL 040757 ENGINEER S. KENT DICKENS

1/25/2022

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO. S01-21
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	TOTAL SHEETS 59
2	--	--	4	--	--	

DES BY:	B. ROGERS	DATE :	05/21
DES CHK:	K. DICKENS	DATE :	05/21
DWG BY:	D. CARTER	DATE :	05/21
CHK BY:	B. ROGERS	DATE :	07/21

PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.plt PENTABLE: NCDOT STRUCTURES DEFAULT PEN.tbl
USER: PPETERSO DATE: 1/25/2022 TIME: 8:28:58 AM
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