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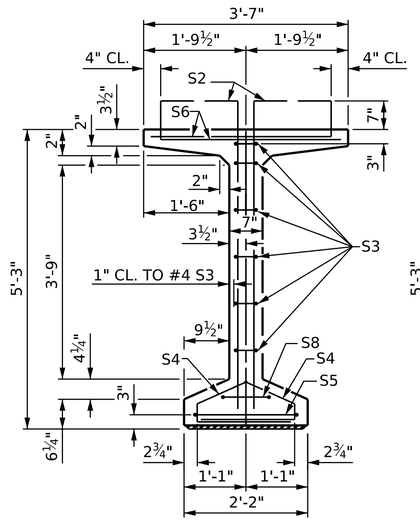
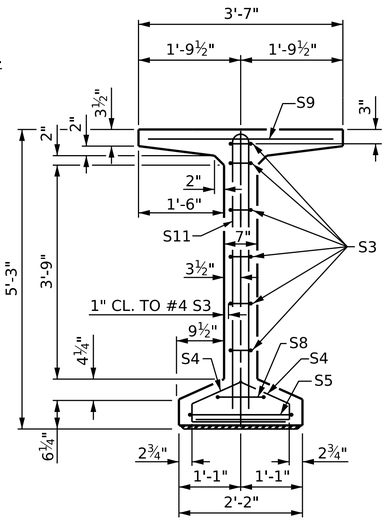
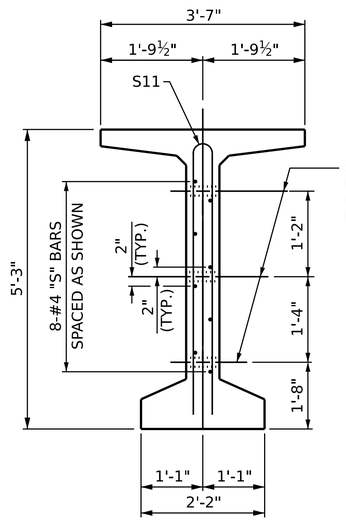


SECTION A-A



SECTION B-B



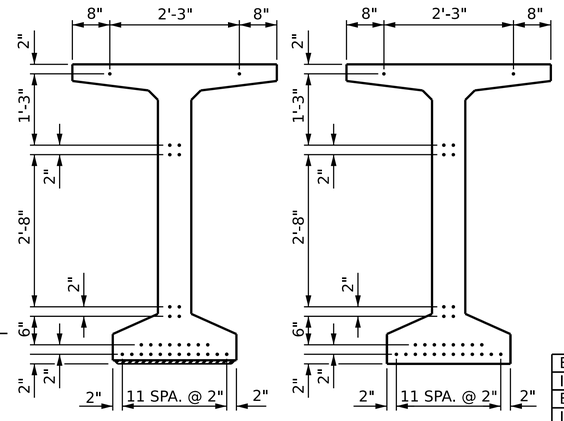
SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)

℄ 1½" ∅ FORMED HOLE. SEE (SHEET 4 OF 4) FOR LOCATION.

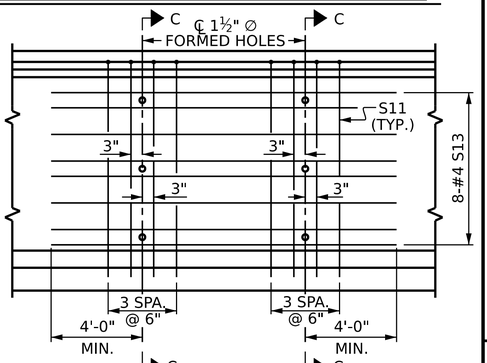
DEBONDING LEGEND

- FULLY BONDED STRANDS



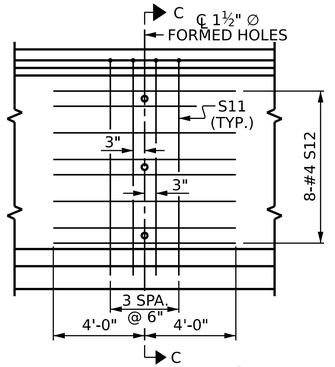
0.6" ∅ LOW RELAXATION STRAND LAYOUT

EXTERIOR	S11	16	#5	5	10'-0"	167
INTERIOR	S11	20	#5	5	10'-0"	209
EXTERIOR	S12	8	#4	STR	8'-0"	43
INTERIOR	S13	8	#4	STR	19'-4"	103



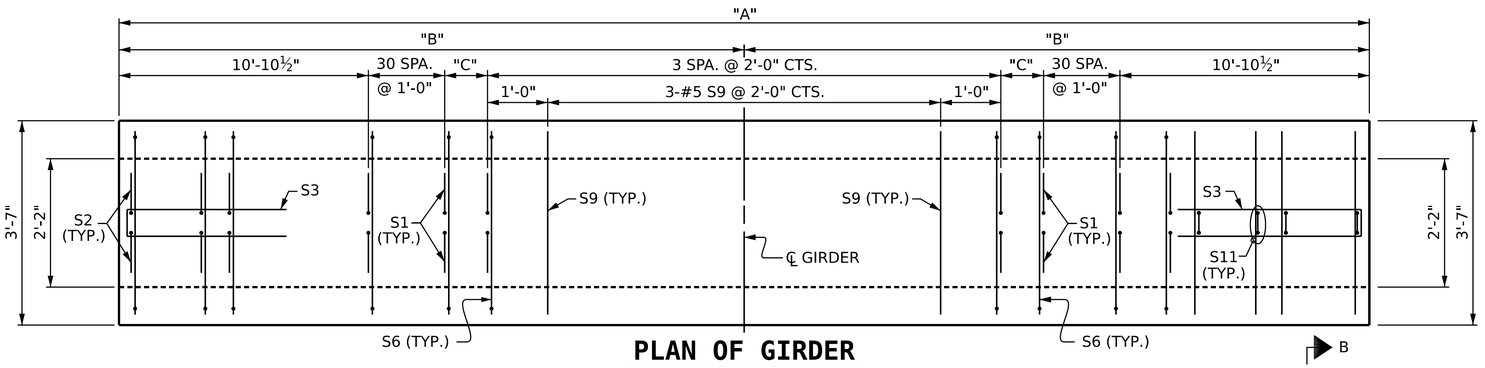
PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 2 & 3

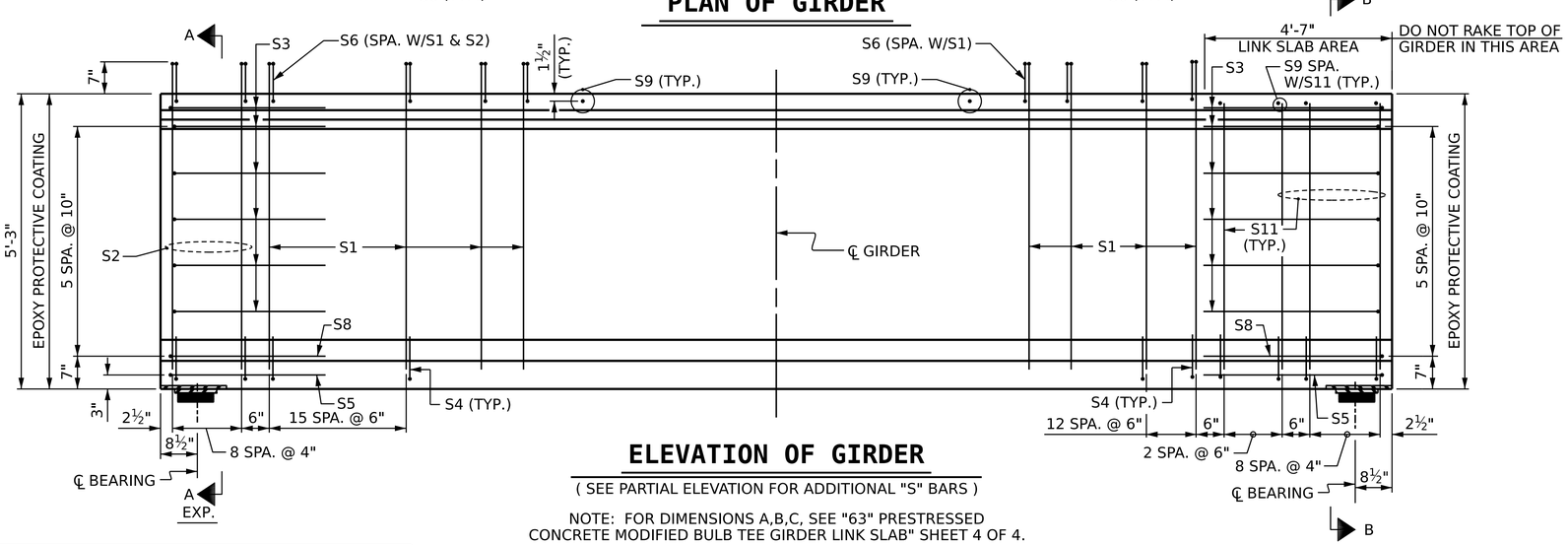


PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1 & 4



PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

NOTE: FOR DIMENSIONS A,B,C, SEE "63" PRESTRESSED CONCRETE MODIFIED BULB TEE GIRDER LINK SLAB" SHEET 4 OF 4.

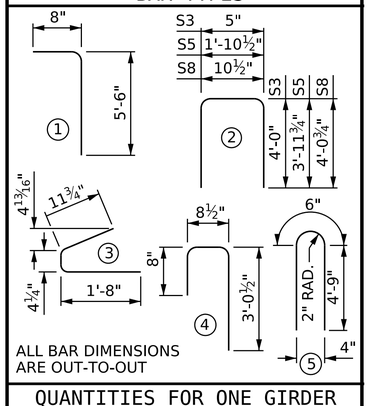
0.6"∅ L.R. GRADE 270 STRANDS

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	186	#4	1	6'-2"	766
S2	18	#5	1	6'-2"	116
S3	12	#4	2	8'-5"	67
S4	100	#4	3	3'-0"	200
S5	2	#5	2	9'-10"	21
S6	204	#5	4	4'-5"	940
S8	2	#5	2	9'-0"	19
S9	15	#5	STR	3'-3"	51

BAR TYPES



QUANTITIES FOR ONE GIRDER

GIRDERS	REINFORCING STEEL	6500 PSI CONCRETE	0.6" ∅ L.R. STRANDS
	LB.	C.Y.	No.
INTERIOR	2,492	*	30
EXTERIOR	2,390	*	30

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	VARIES	362.23

* SEE "GIRDER DIMENSIONS" TABLE ON SHEET 4 OF 4.

PROJECT NO. I-2513AA/AB

BUNCOMBE COUNTY

STATION: 20+16.70 -Y5RPA-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE

63" PRESSTRESSED CONCRETE MODIFIED BULB TEE

SPAN A

DRAWN BY :	S.D. COOPER	DATE :	12-23
CHECKED BY :	M.A. AVERETTE	DATE :	12-23
DESIGN ENGINEER OF RECORD:	M.A. AVERETTE	DATE :	12-23

WGI
5640 Dillard Drive, Suite 200
Cary, NC 27518
LICENSURE NO. C-4434

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023908 MARK A. AVERETTE

12/21/2023 | 11:09 AM PST

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			49

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