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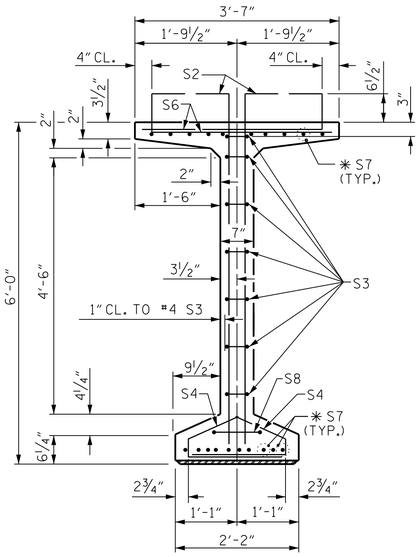
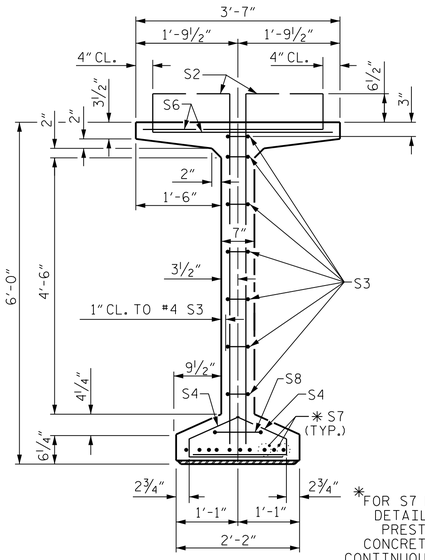
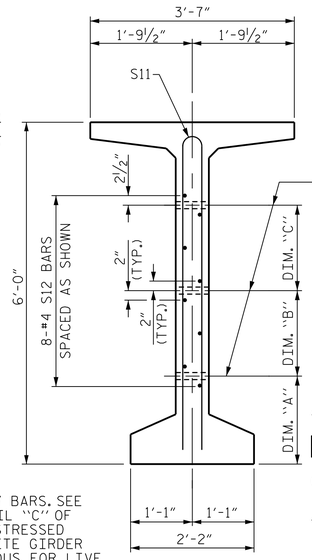


SECTION A-A



SECTION B-B

*FOR S7 BARS. SEE DETAIL "C" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET

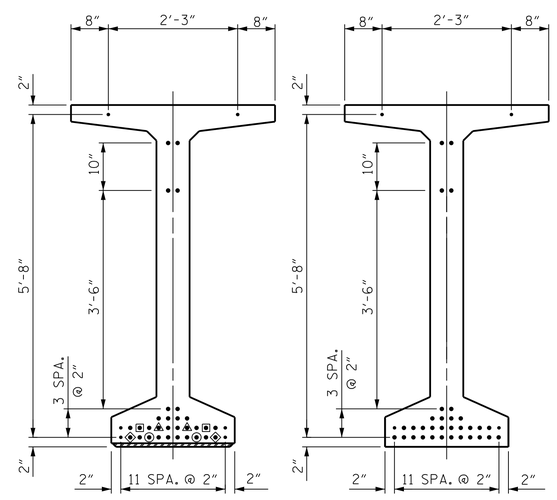


SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

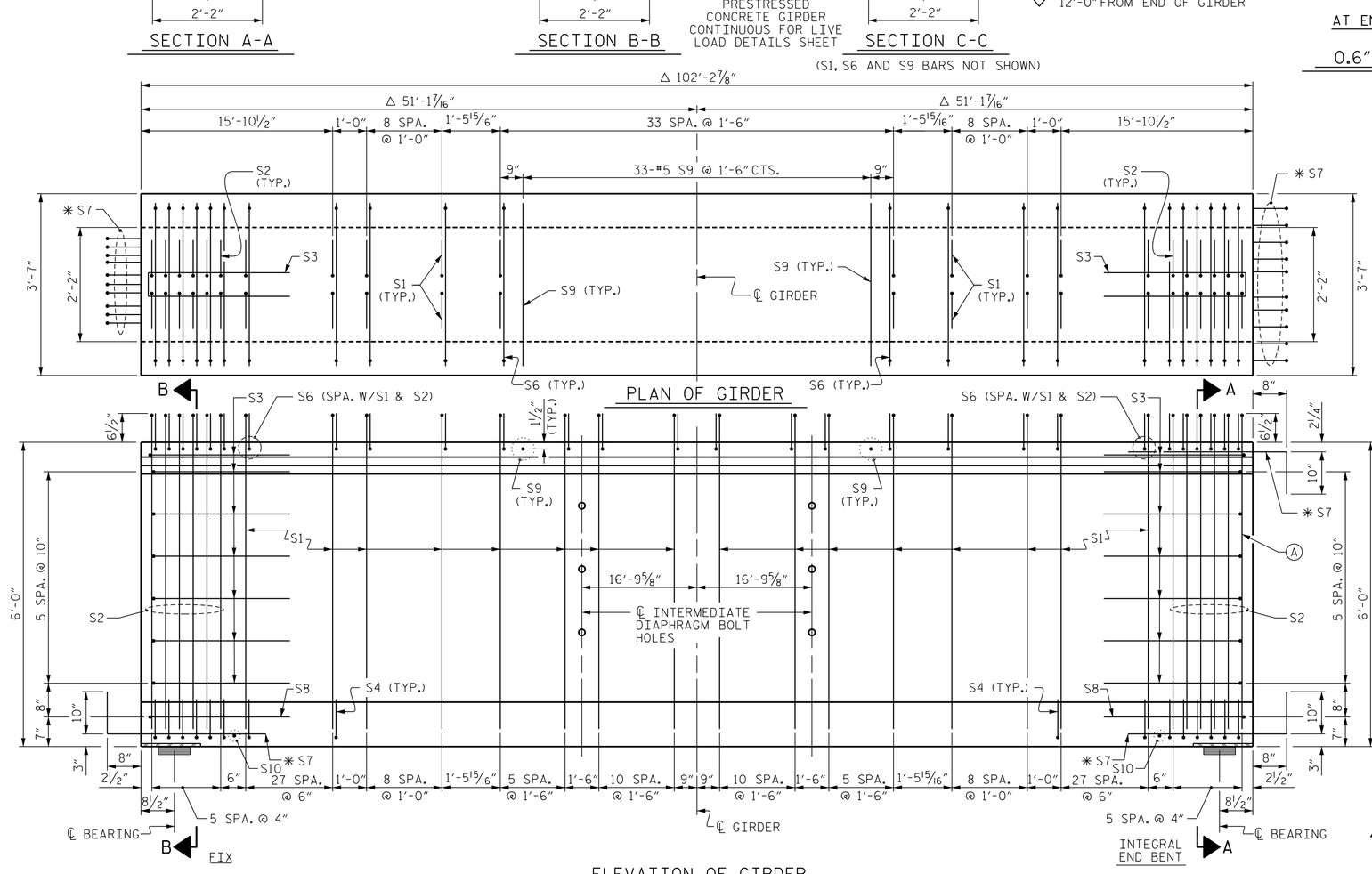
- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER



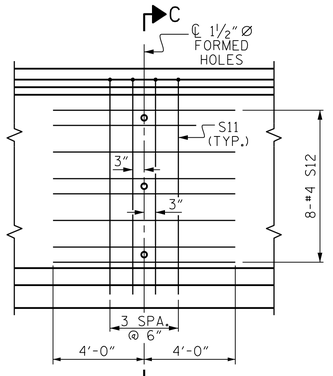
AT END OF GIRDER

AT ℄ OF GIRDER

0.6"Ø LOW RELAXATION STRAND LAYOUT



ELEVATION OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1-10

△ MEASURED AND SPACED ALONG GIRDER BOTTOM FLANGE. SEE END BEVEL (ELEVATION VIEW) DETAIL ON PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET.

Ⓐ END BEVEL IS REQUIRED. ROTATE END S2 BAR SUCH THAT IT IS PLACED PARALLEL TO END BEVEL WHILE MAINTAINING 2" OF CONCRETE COVER.

0.6" Ø L. R. GRADE 270 STRANDS

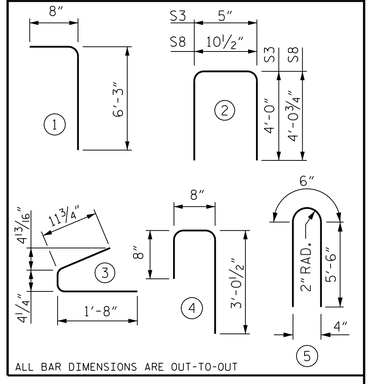
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	216	#4	1	6'-11"	998
S2	24	#5	1	6'-11"	173
S3	14	#4	2	8'-5"	79
S4	136	#4	3	3'-0"	273
S6	240	#5	4	4'-5"	1106
* S7	30	#5	STR	3'-8"	115
S8	2	#5	2	9'-0"	19
S9	33	#5	STR	3'-3"	112
S10	2	#3	STR	1'-10"	1
S11	8	#5	5	11'-6"	96
S12	16	#4	STR	8'-0"	86

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

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.
GIRDER	3,058	21.9	36

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
10	102.24'	1022.40'

PROJECT NO. R-2233BB

RUTHERFORD COUNTY

STATION: 26+65.52 -Y3-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

72" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S4-18
1			3			TOTAL SHEETS
2			4			45

STR. #4 STD. NO. PCG8 (SHT 2)

DESIGNED BY:	J. BORUTA	DATE :	MAY 2019
DRAWN BY:	K. WHITE	DATE :	MAY 2019
CHECKED BY:	B. LOFLIN	DATE :	JULY 2019
DESIGN ENGINEER OF RECORD:	J. DOUGHTY	DATE :	NOV 2019

DRAWN BY :	EEM 2/6/97	REV. 6/13 MAA/GM
CHECKED BY :	VAP 2/6/97	REV. 1/15 MAA/TMG
		REV. 12/17 MAA/THC

MODJESKI and MASTERS
Experience great bridges.
333 FAYETTEVILLE STREET, SUITE 500
RALEIGH, NC 27601
NC LICENSE NO. C-2979

NORTH CAROLINA PROFESSIONAL SEAL 032967 ENGINEER JASON R. DOUGHTY
4/22/2020
DocuSigned by: Jason R Doughty 5F73FA2DEA974E8...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

4/22/2020
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