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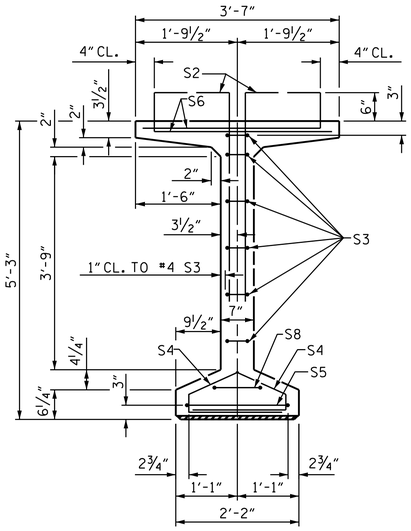
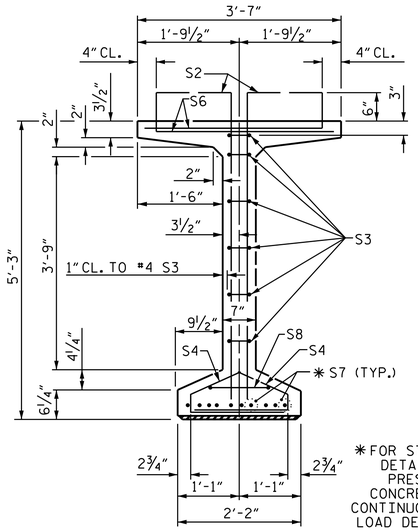


SECTION A-A

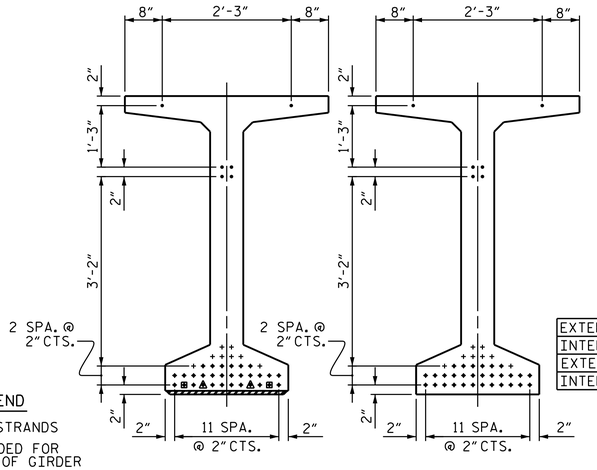


SECTION B-B

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

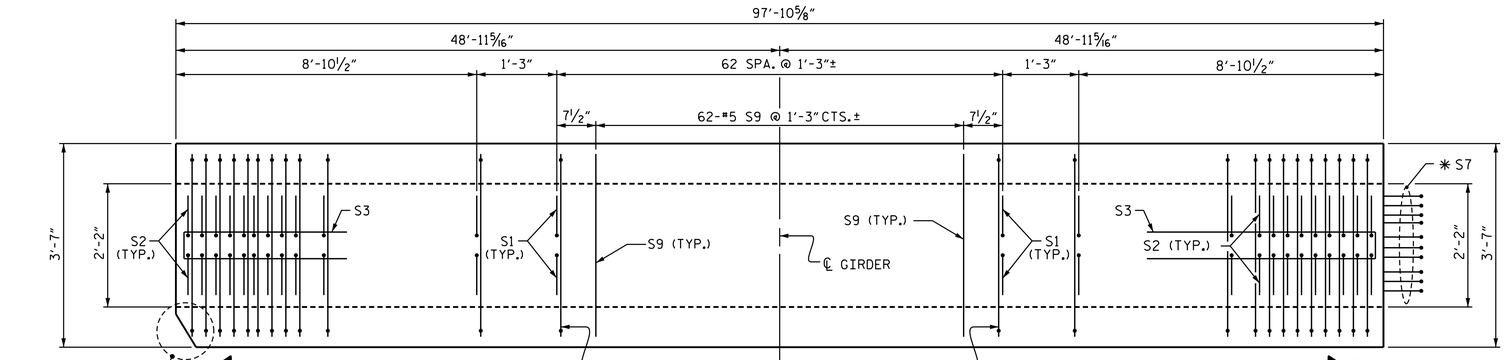
DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- ⊡ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ◬ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER



0.6"Ø LOW RELAXATION STRAND LAYOUT

(36 STRANDS, ALL STRAIGHT)

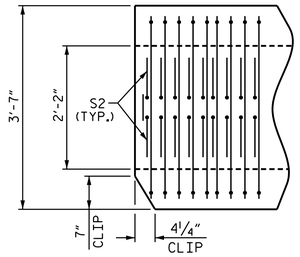


ELEVATION OF GIRDER

NOTES:

FOR S11 THRU S13 BARS, SEE SHEET 2 OF 3.

BARS MAY BE SHIFTED SLIGHTLY AS NECESSARY IN CLIP AREA.



CLIP DETAIL

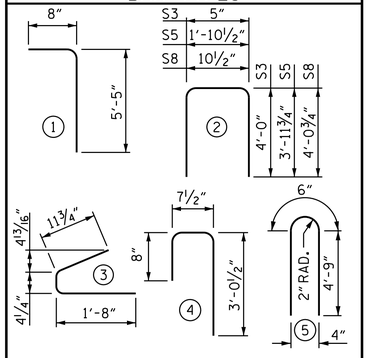
0.6"Ø L.R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
	S1	174	#4	1	6'-1"	707
	S2	36	#5	1	6'-1"	228
	S3	12	#4	2	8'-5"	67
	S4	84	#4	3	3'-0"	168
	S5	1	#5	2	9'-10"	10
	S6	210	#5	4	4'-4"	949
	✱S7	10	#5	STR	3'-8"	38
	S8	2	#5	2	9'-0"	19
	S9	62	#5	STR	3'-3"	210
	S10	1	#3	STR	1'-10"	1
EXTERIOR GDR.	S11	4	#5	5	10'-0"	42
INTERIOR GDR.	S11	8	#5	5	10'-0"	83
EXTERIOR GDR.	S12	8	#4	STR	8'-0"	43
INTERIOR GDR.	S13	8	#4	STR	14'-4"	77

✱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	8,000 PSI CONCRETE	0.6"Ø L.R. STRANDS
	LB.	C.Y.	No.
EXTERIOR GIRDER	2,482	19.4	36
INTERIOR GIRDER	2,557	19.4	36

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
16	97'-10⅝"	1566.17'

PROJECT NO. U-2525C

GUILFORD COUNTY

STATION: 28+98.81 -Y4-

SHEET 1 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

63" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD

SPANS A & B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S6-11
1			3			TOTAL SHEETS
2			4			34

DRAWN BY: L. T. FORBIS DATE: 7-2017
CHECKED BY: J. T. WILLIAMS DATE: 8-2017
DESIGN ENGINEER OF RECORD: J. E. MONDOLFI DATE: 9-2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:
MOTT MACDONALD
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Fuquay-Varina, NC 27526
(919) 552-2253
www.mottmac.com
LICENSE NO. F-0669

NORTH CAROLINA PROFESSIONAL SEAL 11915 ENGINEER JOHN C. FRYE

DocuSigned by: John C. Frye
12/22/2017

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