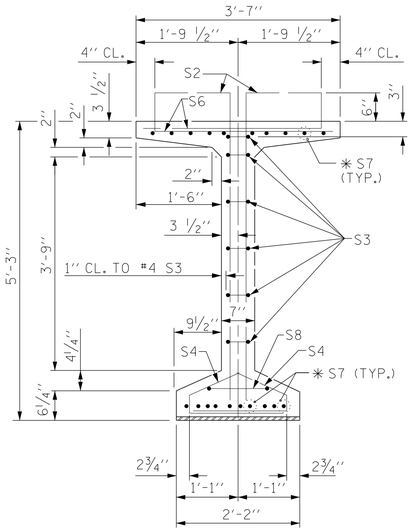
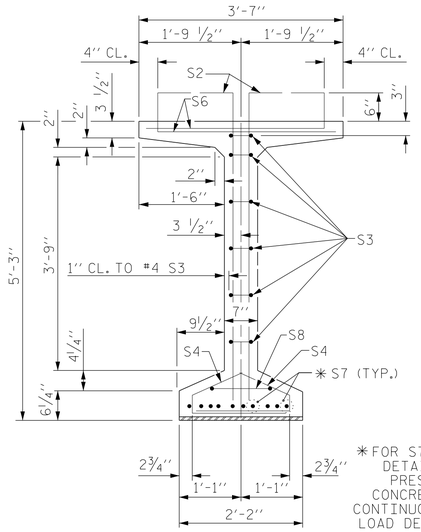
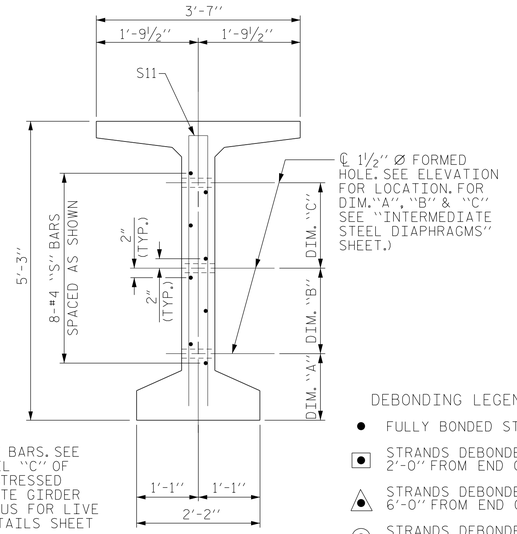


SECTION A-A



SECTION B-B

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

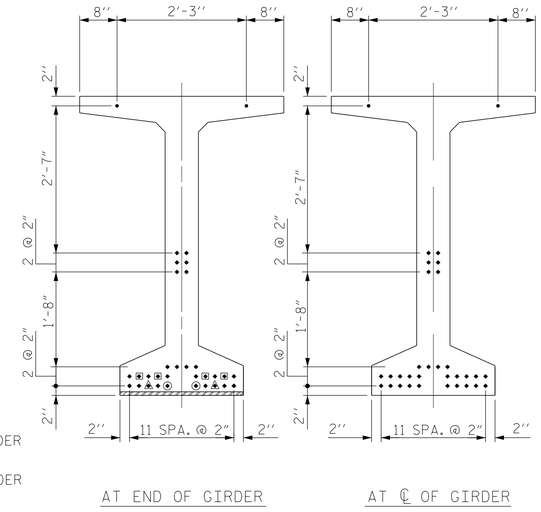


SECTION C-C

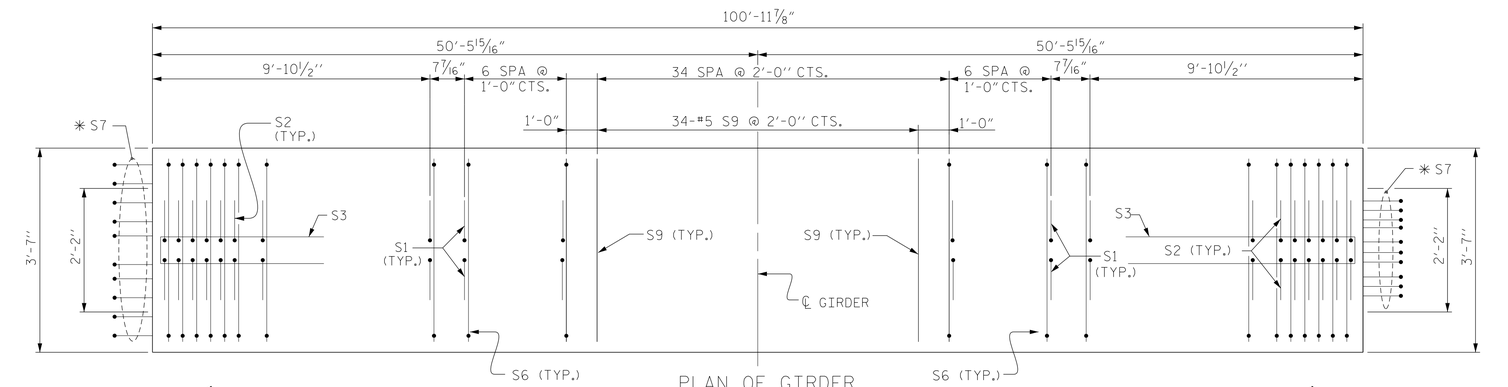
(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

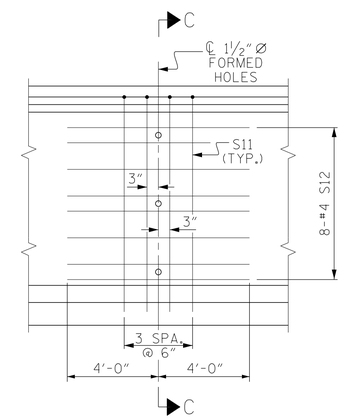
- ● FULLY BONDED STRANDS
- ▣ STRANDS DEBONDED FOR 2'-0" FROM END OF GIRDER
- ▲ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- ⊙ STRANDS DEBONDED FOR 16'-0" FROM END OF GIRDER



0.6" Ø LOW RELAXATION STRAND LAYOUT

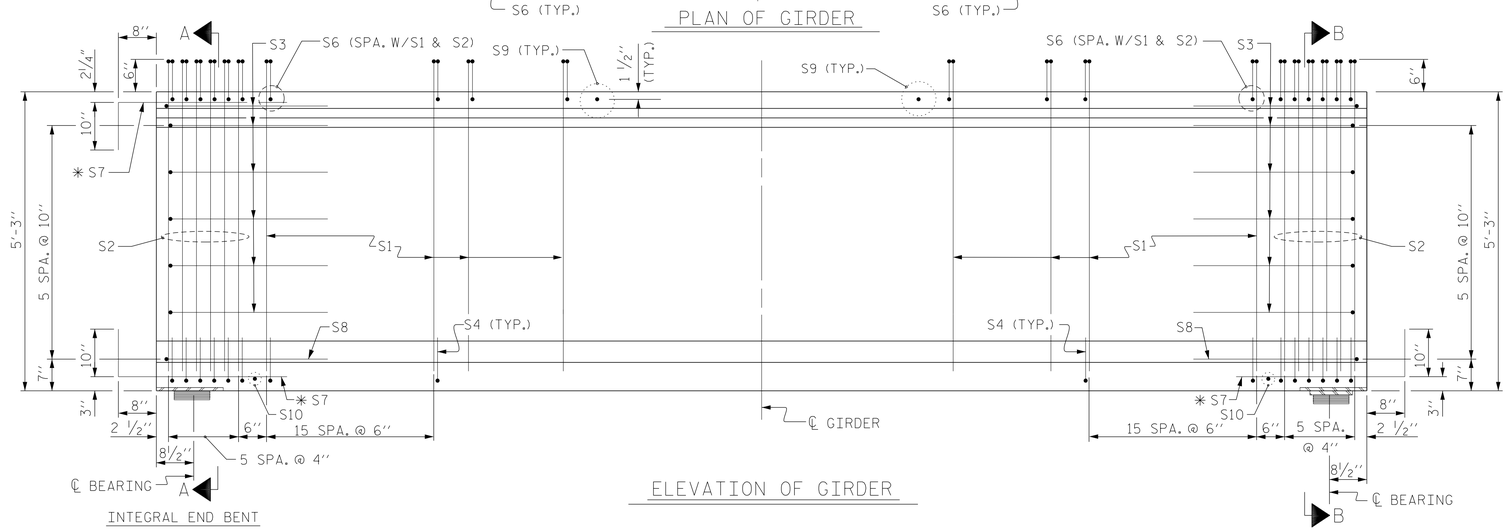


PLAN OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER NOS. 1-8.



INTEGRAL END BENT

ELEVATION OF GIRDER

FIX

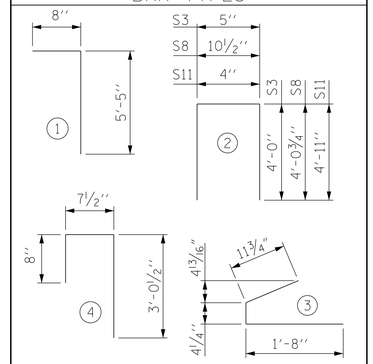
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	158	#5	1	6'-1"	1002
S2	24	#5	1	6'-1"	152
S3	12	#4	2	8'-5"	67
S4	72	#4	3	3'-0"	144
S6	182	#5	4	4'-4"	823
* S7	30	#5	STR.	3'-8"	115
S8	2	#5	2	9'-0"	19
S9	34	#5	STR.	3'-3"	115
S10	2	#3	STR	1'-10"	1
S11	4	#5	2	10'-2"	42
S12	8	#4	STR.	8'-0"	43

* 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	7000 PSI CONCRETE	0.6" Ø L.R. STRANDS
LB.	C.Y.	No.
2523	20.0	32

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	100'-11 7/8"	807'-11"

PROJECT NO. I-0914BA

VANCE COUNTY

STATION: 22+06.96 -Y1- POT

SHEET 1 OF 3

NORTH CAROLINA PROFESSIONAL SEAL 11725 ENGINEER DAVID R. RUGGLES

DocuSigned by: David Ruggles C462768DF412422 11/17/2014

DWG. 22 OF 48

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
63" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD SPAN A

STEWART

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Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-22
1			3			TOTAL SHEETS
2			4			177

DRAWN BY:	H.ASSFOURA	DATE :	07/14
CHECKED BY:	P.JACOB	DATE :	09/14
DESIGN ENGINEER OF RECORD:	D.RUGGLES	DATE :	09/14

STD. NO. PCG7 (Sht. 2)