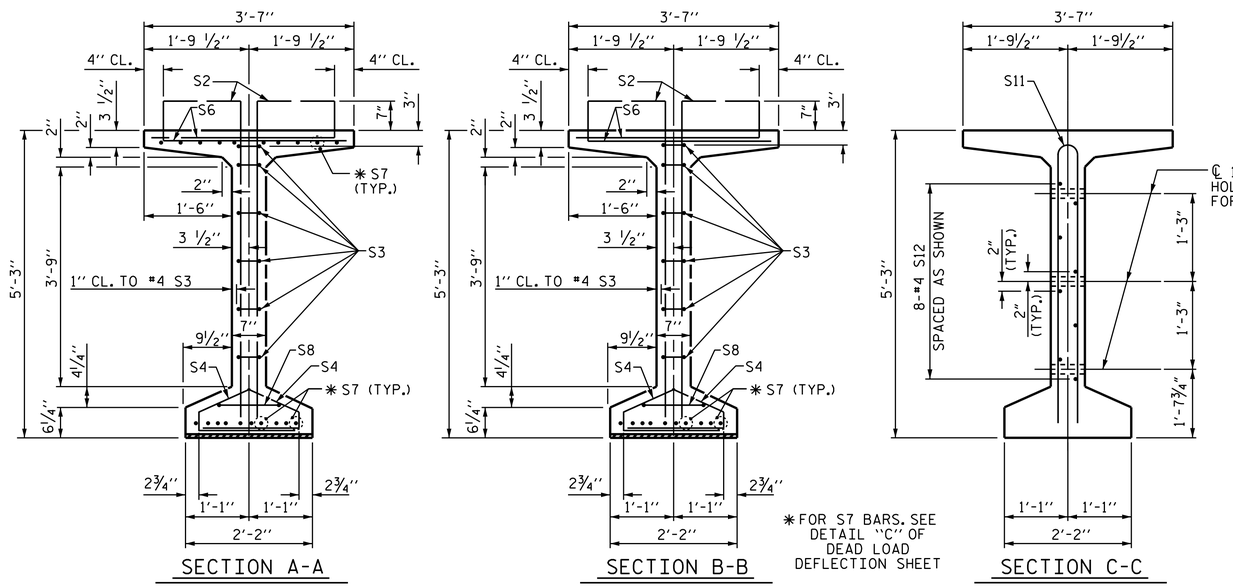


SECTION A-A

SECTION B-B

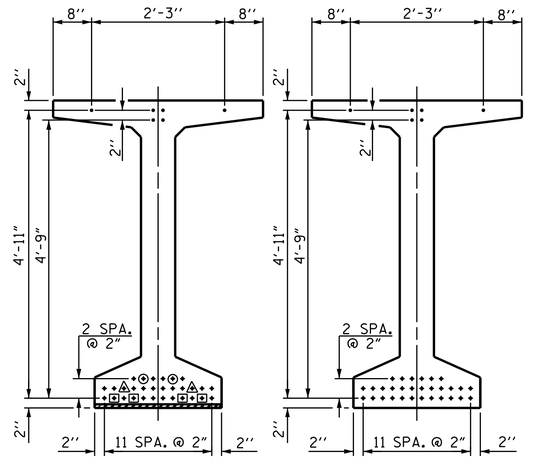
* FOR S7 BARS. SEE DETAIL "C" OF DEAD LOAD DEFLECTION SHEET

SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

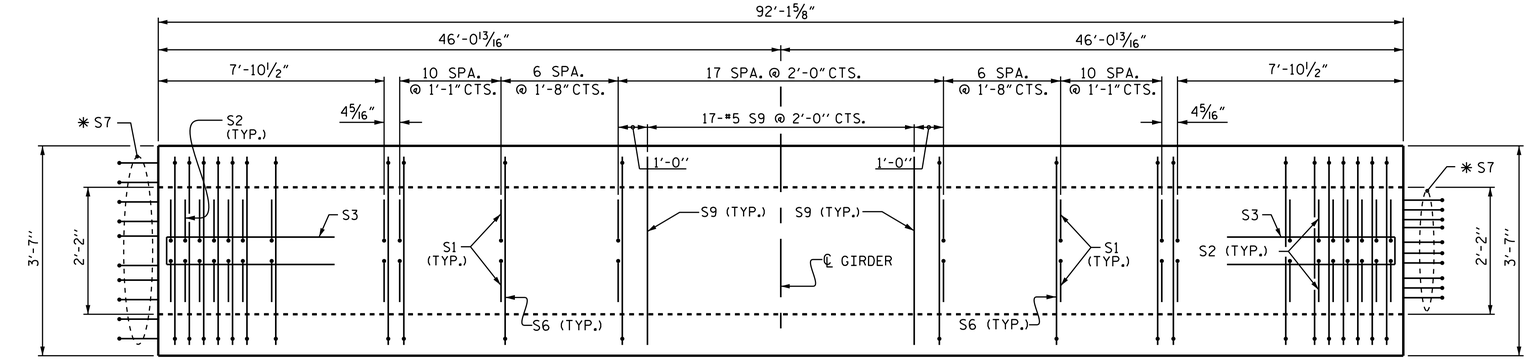
- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER



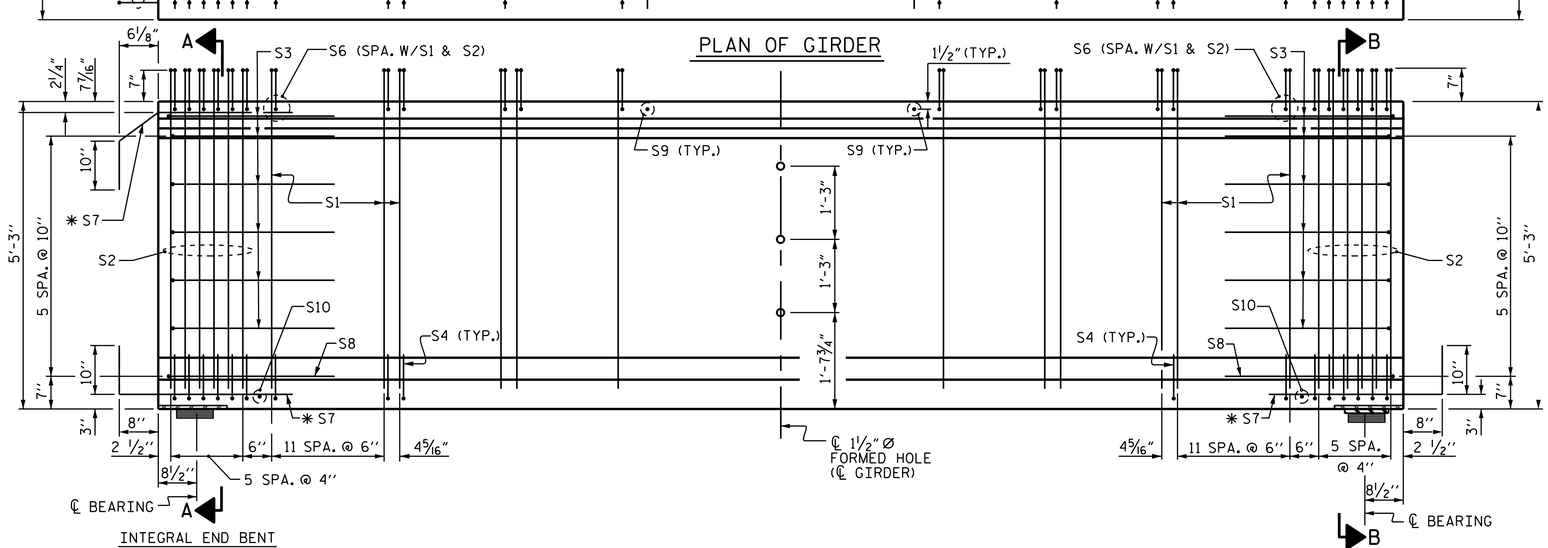
AT END OF GIRDER AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

(36 STRAIGHT STRANDS)

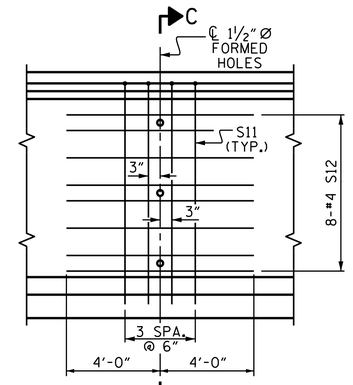


PLAN OF GIRDER



INTEGRAL END BENT

ELEVATION OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1 THRU 3.

0.6" Ø L. R. GRADE 270 STRANDS

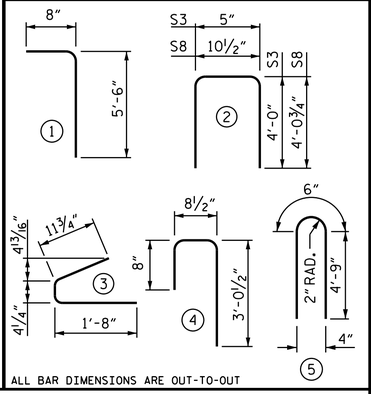
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	148	#4	1	6'-2"	610
S2	24	#5	1	6'-2"	154
S3	12	#4	2	8'-5"	67
S4	72	#4	3	3'-0"	144
S6	172	#5	4	4'-5"	792
* S7	30	#5	STR	3'-8"	115
S8	2	#5	2	9'-0"	19
S9	17	#5	STR	3'-3"	58
S10	2	#3	STR	1'-10"	1
S11	4	#5	5	10'-0"	42
S12	8	#4	STR	8'-0"	43

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

BAR TYPES



QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	8,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GIRDER	2045	18.3	36

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
3	92'-1 5/8"	276'-4 7/8"

PROJECT NO. R-2514D

JONES & CRAVEN COUNTY

STATION: 28+29.35 -Y10-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
63" PRESTRESSED CONCRETE
MODIFIED BULB TEE
CONTINUOUS FOR LIVE LOAD
SPAN B
(RIGHT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S16-013
1			3			TOTAL SHEETS
2			4			30

ASSEMBLED BY :	M.D.PISO	DATE : 09-10-14
CHECKED BY :	K.P.SEDAI	DATE : 09-10-14
DESIGN ENGINEER OF RECORD :	R.KOUCHEKI	DATE : 02/2015
DRAWN BY : EEM 2/6/97	REV. 5/1/06R TLA/GM	
CHECKED BY : VAP 2/6/97	REV. 10/1/11 MAA/GM	
	REV. 6/13 MAA/GM	

NORTH CAROLINA PROFESSIONAL SEAL 14045 ENGINEER TIMOTHY L. COGGINS

Docusigned by: Tim Coggins DEFD4A9D48FA47B...

3/23/2015

23-MAR-2015 13:09
R:\Structures\Final Plans\DocuSign Setup\416_000_R-2514D_SMU_S16-00.dgn
kpaschal

STR. #16 STD. NO. PCG7 (Sht. 2)