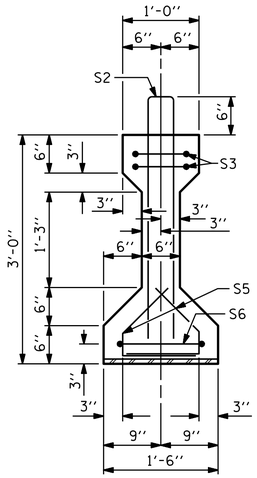
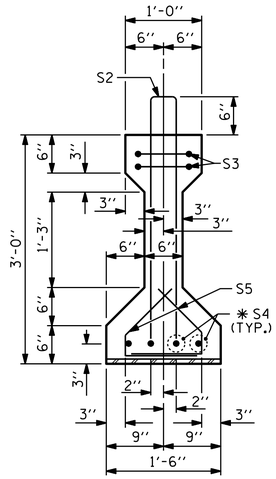
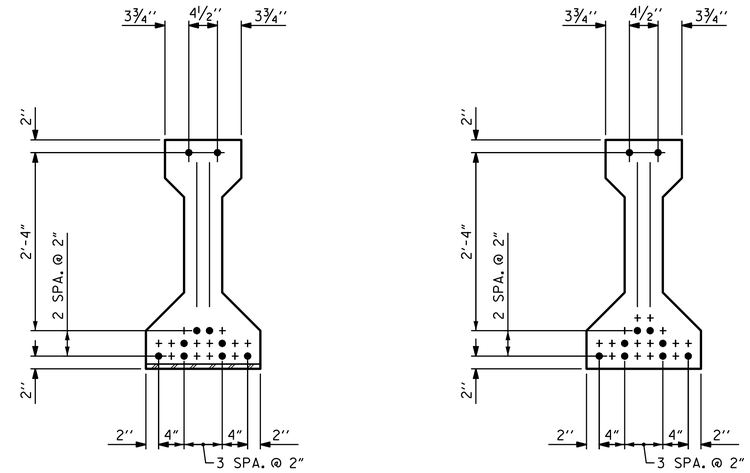


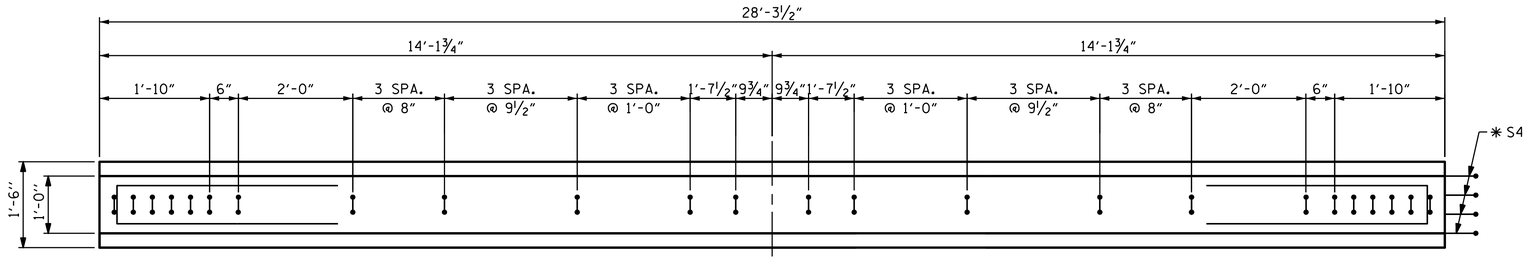
SECTION A-A



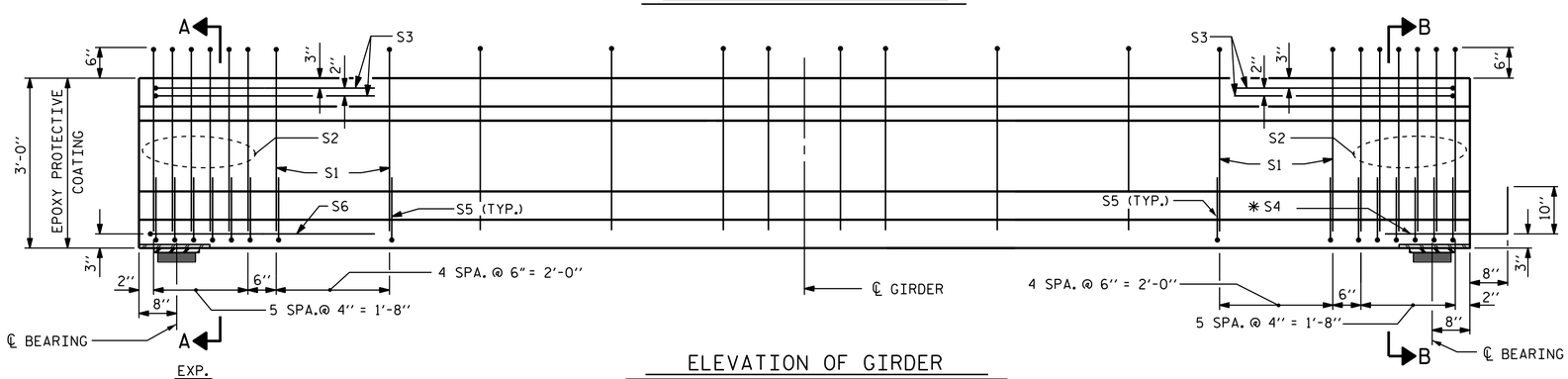
SECTION B-B



0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER

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

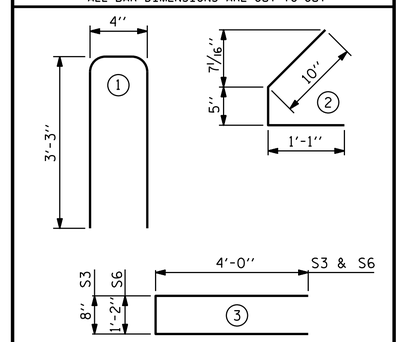
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	30	#4	1	6'-10"	137
S2	12	#5	1	6'-10"	86
S3	4	#4	3	8'-8"	23
✱ S4	4	#5	STR	3'-8"	15
S5	44	#4	2	2'-4"	69
S6	1	#4	3	9'-2"	6

✱ NOTE: S4 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	5,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
	336	2.7	10

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
12	28'-3½"	339'-6"

PROJECT NO. R-4903

BLADEN COUNTY

STATION: 67+16.50 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

AASHTO TYPE II
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD

(SPAN A & C)

NORTH CAROLINA PROFESSIONAL SEAL 10730 ENGINEER D. ANDRE DAVENPORT JR.

DocuSigned by: D. André Davenport, Jr. B95DC28AF664495...

10/28/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			92

STR. #1

STD. NO. PCG4

ASSEMBLED BY : J.P. ADAMS DATE : 7/16/12
CHECKED BY : K.D. LAYNE DATE : 8/15/12

DRAWN BY : ELR 8/91
CHECKED BY : GRP 8/91

REV. 10/17/00R RWW/LES
REV. 5/1/06R TLA/GM
REV. 10/1/11 MAA/GM

DESIGN ENGINEER OF RECORD:
B.N. GRADY DATE : 04/11/13

27-OCT-2014 09:22
R:\Structures\Plans\Str#1\R4903_SD_GS_01.dgn
daddavenport