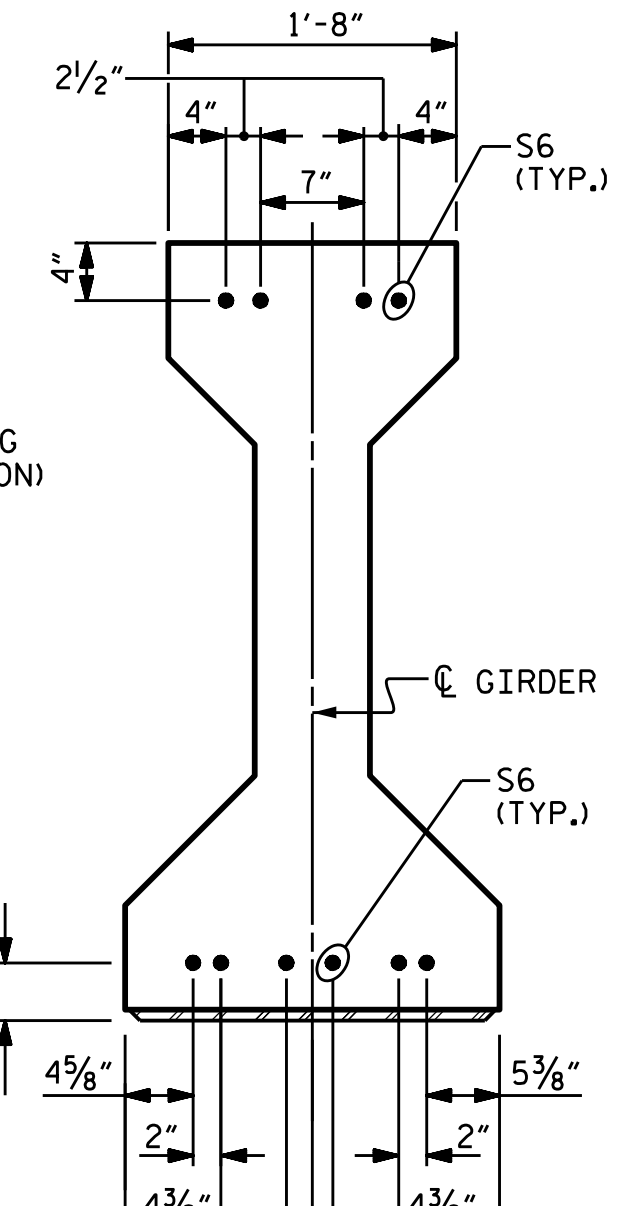


SECTION "A-A"

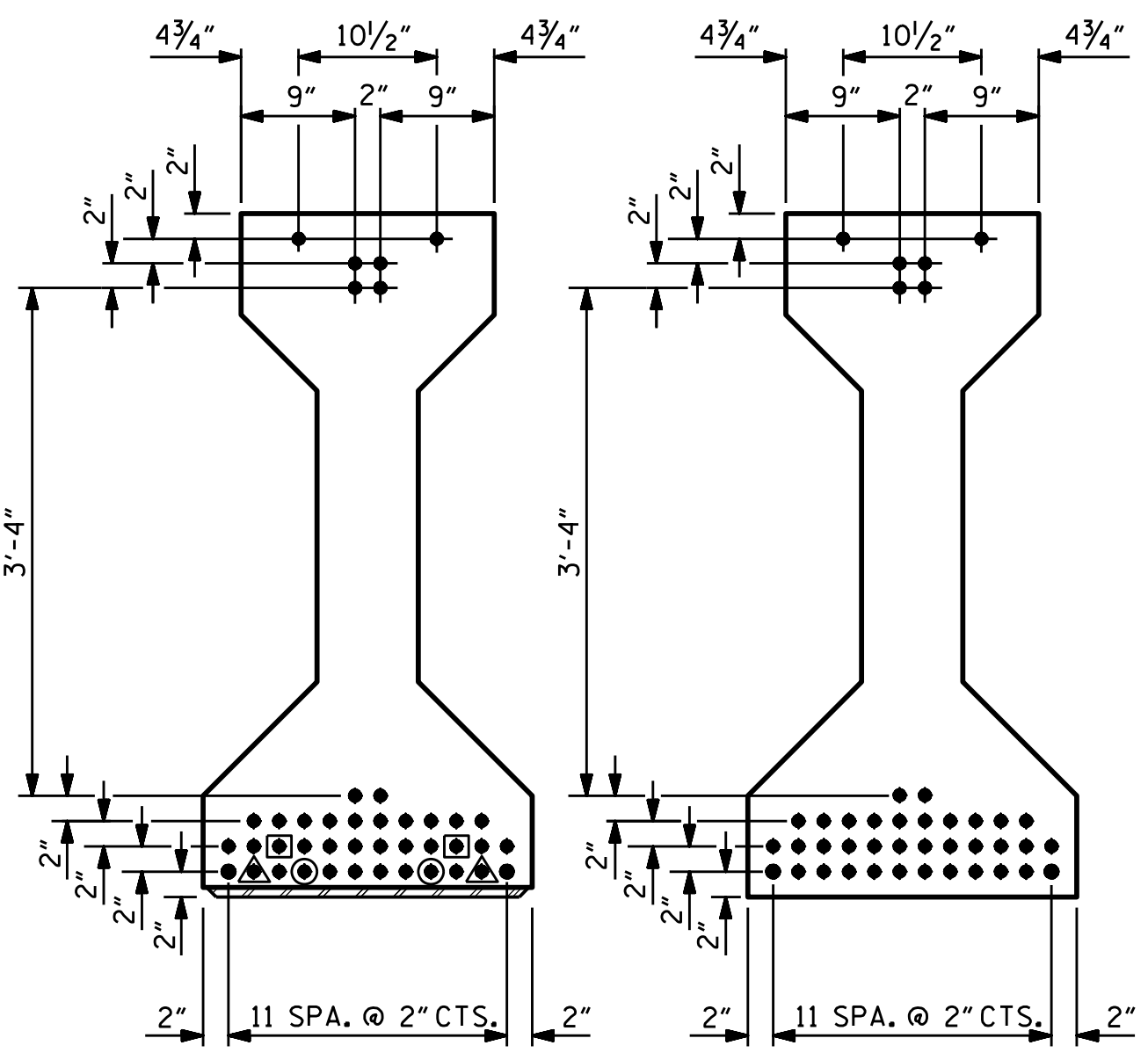
* FOR S6 BARS, SEE DETAIL "A"

SECTION "C-C"

(S1 BARS NOT SHOWN)



DETAIL "A"



0.6" Ø LOW RELAXATION STRAND LAYOUT

- STRANDS DEBONDED 2'-0" FROM END OF GIRDER.
- ▲ STRANDS DEBONDED 8'-0" FROM END OF GIRDER.
- STRANDS DEBONDED 24'-0" FROM END OF GIRDER.

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS.

BEVEL EDGES OF PLATE "B-1" TO GIVE CLOSE FIT BUT NOT TIGHT FIT TO STEEL CASTING FORM.

ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

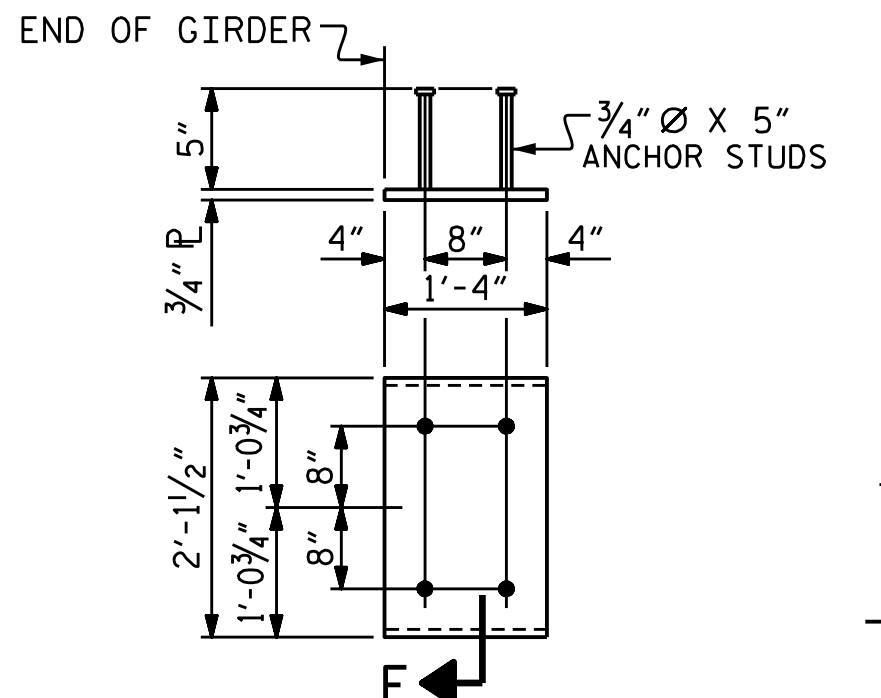
AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6000 PSI.

THE TOP SURFACE OF THE GIRDER SHALL BE RAKED TO A DEPTH OF 1/4" EXCEPT IN THE AREA BETWEEN THE STIRRUP AND THE EDGE OF THE GIRDER.

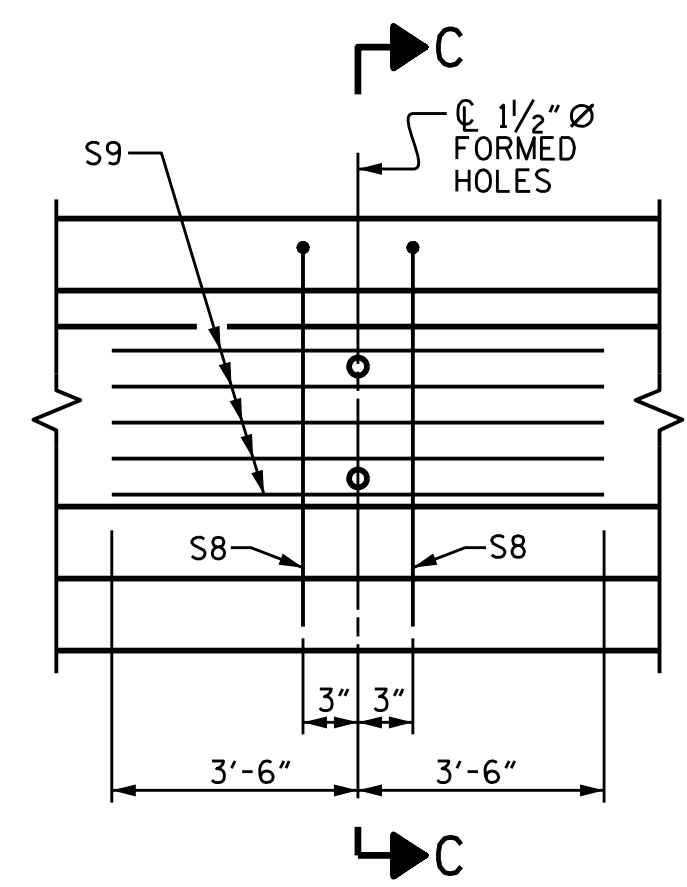
ALL REINFORCING STEEL SHALL BE GRADE 60.

DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.



EMBEDDED PLATE "B-1" DETAILS

TWO EMBEDDED PLATES "B-1" ARE REQUIRED FOR EACH GIRDER.



PARTIAL ELEVATION

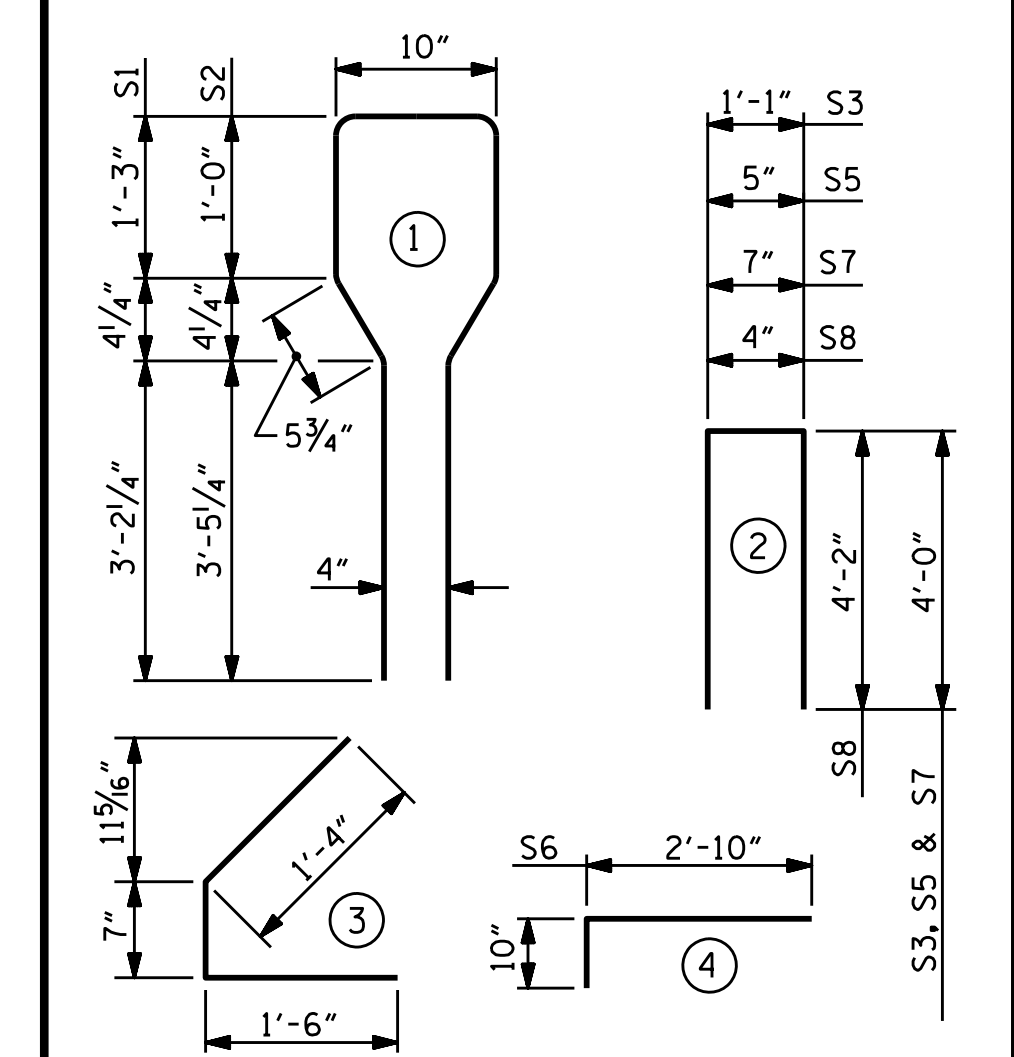
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER NOS. 1 THROUGH 4.

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	69	#4	1	10'-8"	492
S2	12	#6	1	10'-8"	192
S3	4	#4	2	9'-1"	24
S4	64	#4	3	3'-5"	146
S5	6	#4	2	8'-5"	34
*S6	20	#5	4	3'-8"	76
S7	4	#4	2	8'-7"	23
S8	2	#5	2	8'-8"	18
S9	5	#4	STR	7'-0"	23
S10	2	#3	STR	1'-10"	1
S11	2	#3	STR	1'-4"	1

*NOTE: S6 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

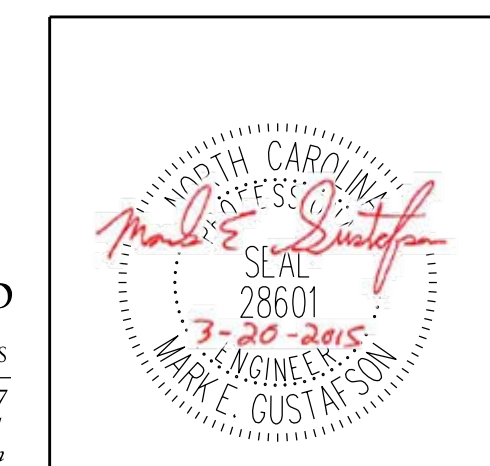
	REINFORCING STEEL	8000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
EXTERIOR GIRDER	1030	17.8	42
INTERIOR GIRDER	1030	17.8	42

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	87'-8"	350'-8"

PROJECT NO. R-2514D
 JONES COUNTY
 STATION: 561+15.20 -L-
 =17+04.80 -Y7-

DocuSigned by:
 Mark Gustafson
 9E00EDB87408456...
 3/23/2015



PLAN PREPARED BY:



ALPHA & OMEGA GROUP
 CIVIL & STRUCTURAL ENGINEERS
 4601 Lake Boone Trail, Ste. 3C Raleigh, NC 27607
 Phone 919 981 0310 Fax 919 981 0451
 Firm License No. C-1684 www.aogroup.com
 A&O PROJECT NO. 2013.044

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 AASHTO TYPE IV
 PRESTRESSED
 CONCRETE GIRDER
 LEFT LANE

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 21

STRUCTURE NO. 13 STD. NO. PCG3

DRAWN BY : JD GOODIN	DATE : 5/16/14
CHECKED BY : MEG / HMS	DATE : 6/23/14
OC / OA BY : TG ZEBLO	DATE : 7/7/14
DRAWN BY : JMB 12/87	REV. 8/16/99RR RWW/LES
CHECKED BY : ARB 12/87	REV. 5/1/06R TLA/GM
	REV. 10/1/11 MAA/GM