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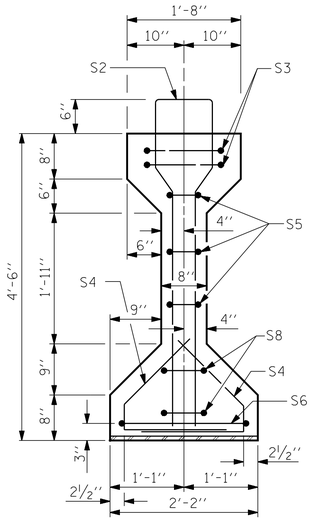
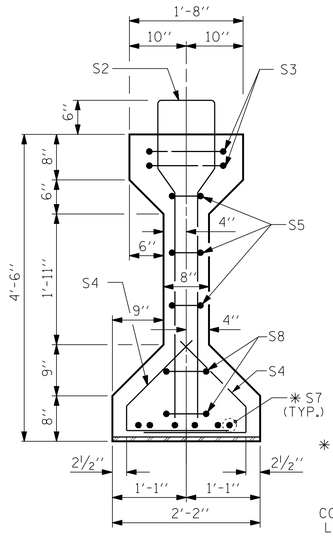
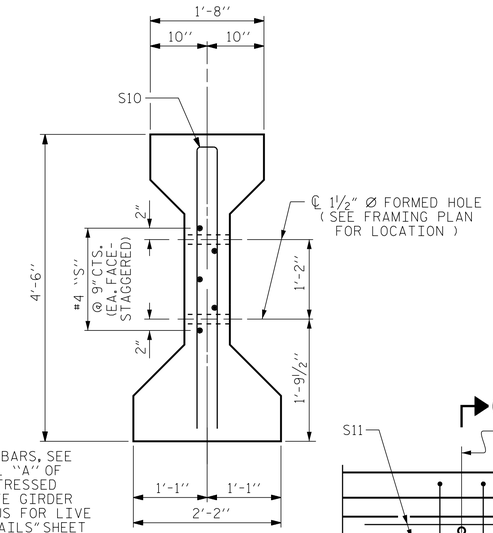


SECTION A-A



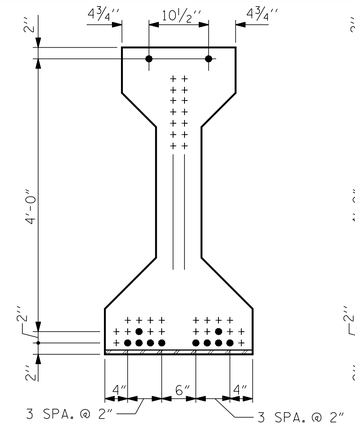
SECTION B-B

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

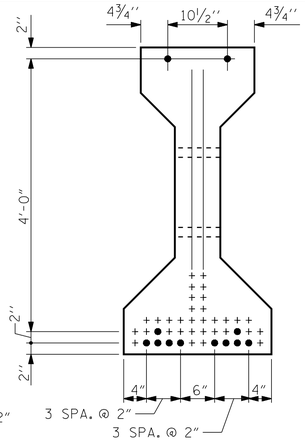


SECTION C-C

(S1 BARS NOT SHOWN)



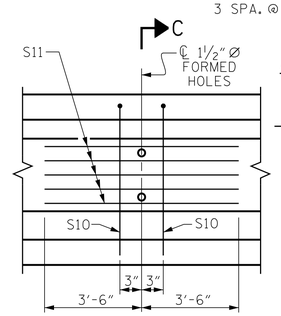
AT END OF GIRDER



AT ℄ OF GIRDER

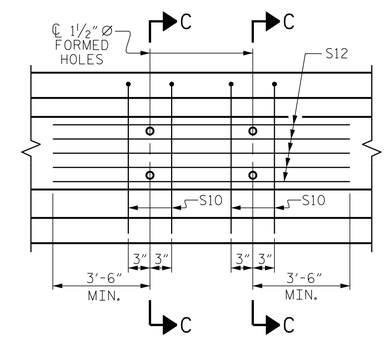
0.6" Ø LOW RELAXATION STRAND LAYOUT

• FULLY BONDED STRANDS



PARTIAL ELEVATION

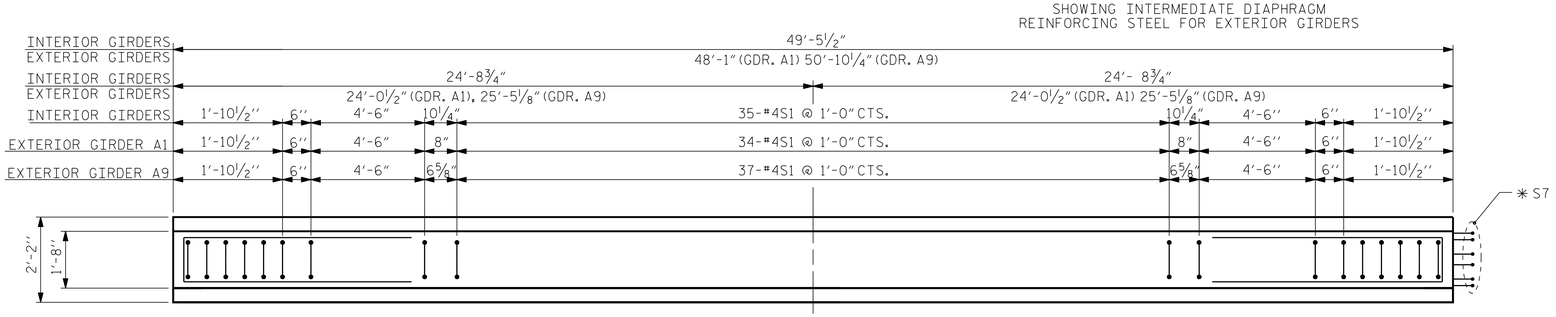
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR EXTERIOR GIRDERS



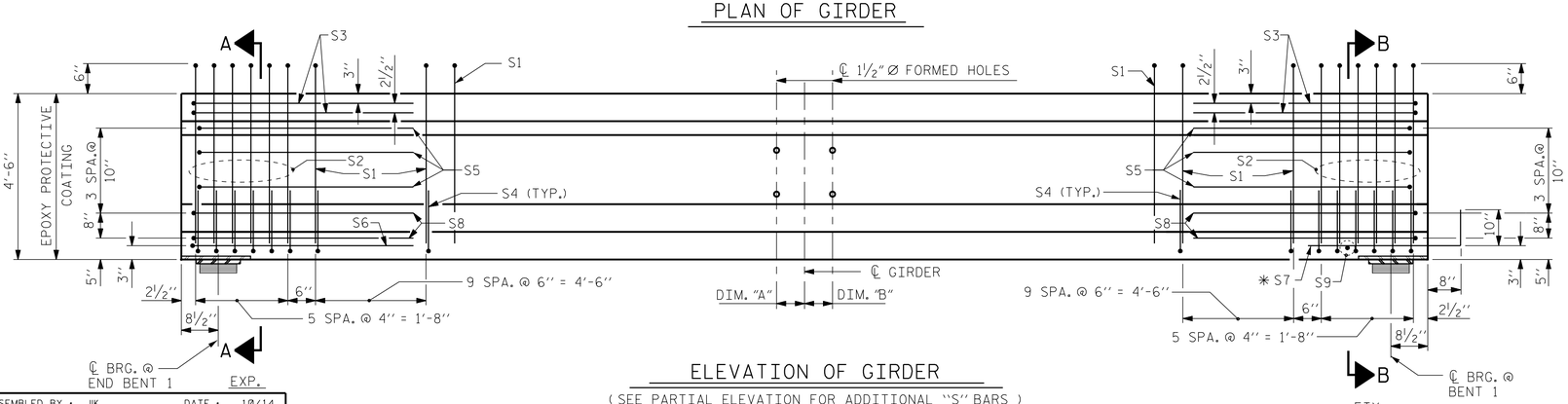
PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR INTERIOR GIRDERS

GDR.	DIM. "A"	DIM. "B"
A1	4'-11"	-
A2	4'-6⅝"	4'-11"
A3-A7	4'-6⅝"	4'-6⅝"
A8	4'-11"	4'-6⅝"
A9	-	4'-11"



PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

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

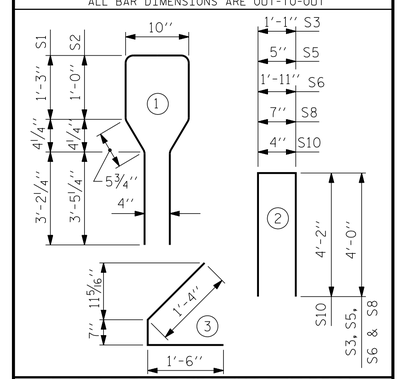
REINFORCING STEEL FOR ONE GIRDER

	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
EXTERIOR GDR. A1	S1	54	#4	1	10'-8"	385
INTERIOR GDRS.	S1	55	#4	1	10'-8"	392
EXTERIOR GDR. A9	S1	57	#4	1	10'-8"	406
	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	1	#4	2	9'-11"	7
	✱ S7	6	#5	STR	3'-8"	23
	S8	4	#4	2	8'-7"	23
	S9	1	#3	STR	1'-10"	1
EXT. GDR. A1 & A9	S10	2	#5	2	8'-8"	18
INTERIOR GDRS.	S10	4	#5	2	8'-8"	36
EXT. GDR. A1 & A9	S11	5	#4	STR	7'-0"	23
INTERIOR GDRS.	S12	5	#4	STR	16'-6"	55

✱ 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 LB.	6,000 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
EXT. GDR. A1	876	9.8	12
INT. GIRDER	933	10.1	12
EXT. GDR. A9	897	10.4	12

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
1 (A1)	48'-1"	48'-1"
7 (A2-A8)	49'-5½"	346'-2½"
1 (A9)	50'-10¼"	50'-10¼"

PROJECT NO. B-5119

GUILFORD COUNTY

STATION: 26+31.94 -L -
16+43.93 -Y1-

SHEET 1 OF 5

NORTH CAROLINA PROFESSIONAL SEAL 12186 ENGINEER CECIL L. NARRON

DocuSigned by: Cecil L. Narron C169A3D64502420... 11/3/2014

Kimley»Horn
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Raleigh, NC 27601-1772
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
SPAN A

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-14
1			3					TOTAL SHEETS
2			4					77

STD. NO. PCG6

ASSEMBLED BY : JIK	DATE : 10/14		
CHECKED BY : JCW	DATE : 10/14		
DRAWN BY : ELR 8/91	REV. 10/17/00R	RWW/LES	
CHECKED BY : GRP 8/91	REV. 5/1/06R	TLA/GM	
	REV. 10/1/11	MAA/GM	

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