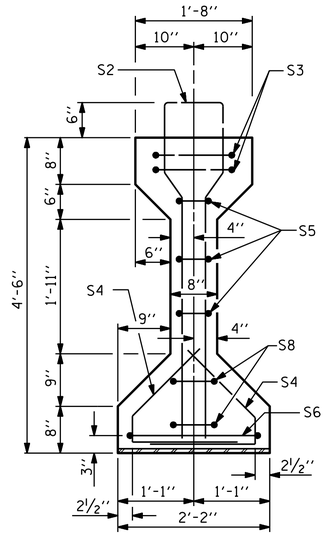
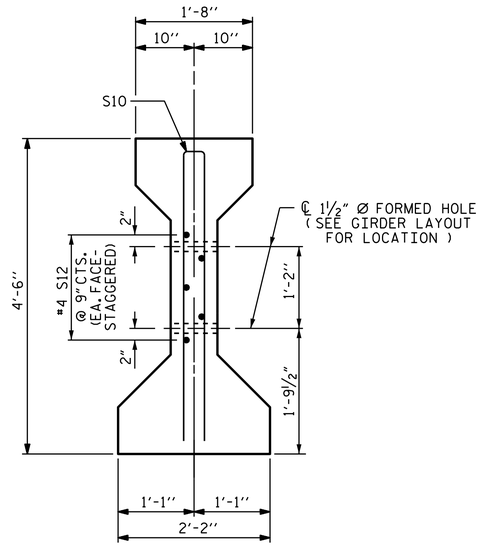
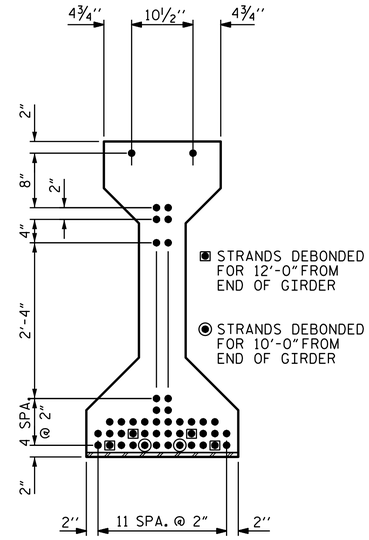


SECTION A-A



SECTION C-C

(S1 BARS NOT SHOWN)



0.6" Ø LOW RELAXATION STRAND LAYOUT

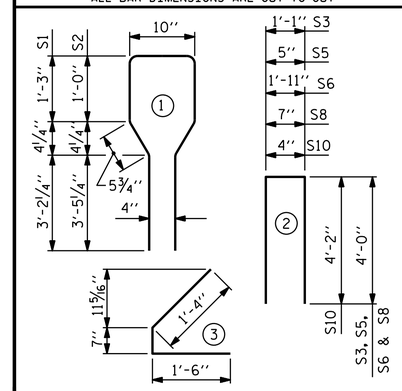
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER

	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
GIRDER 2	S1	192	#4	1	10'-8"	1368
GIRDER 3	S1	191	#4	1	10'-8"	1361
GIRDER 4	S1	186	#4	1	10'-8"	1325
	S2	14	#6	1	10'-8"	224
	S3	4	#4	2	9'-1"	24
GIRDER 2	S4	228	#4	3	3'-5"	520
GIRDER 3	S4	224	#4	3	3'-5"	511
GIRDER 4	S4	224	#4	3	3'-5"	511
	S5	6	#4	2	8'-5"	34
	S6	2	#4	2	9'-11"	13
	S8	4	#4	2	8'-7"	23
	S10	4	#5	2	8'-8"	36
	S12	5	#4	STR	16'-1"	54

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

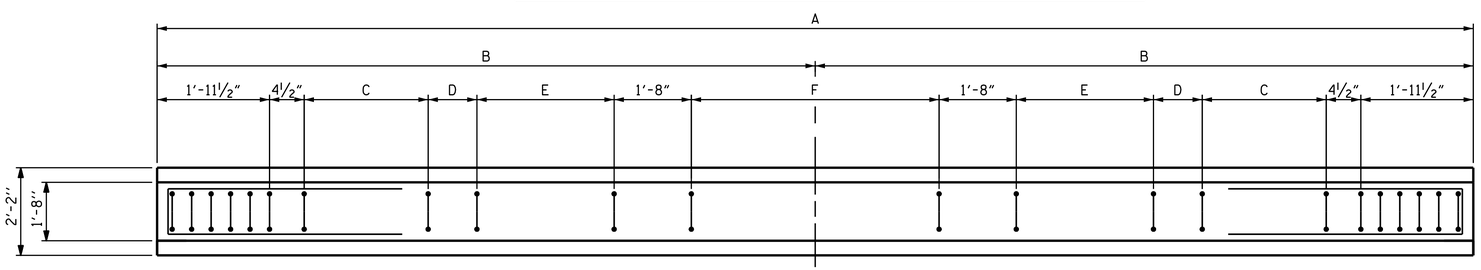
	REINFORCING STEEL LB.	8500 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
GIRDER 2	2296	20.4	46
GIRDER 3	2280	20.1	46
GIRDER 4	2244	19.9	46

GIRDERS REQUIRED

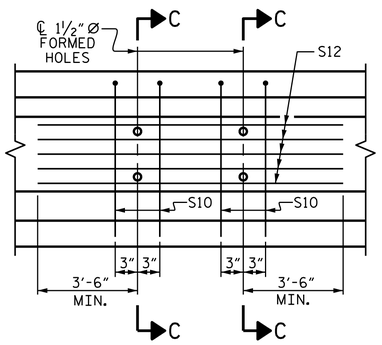
	NUMBER	LENGTH	TOTAL LENGTH
GIRDER 2	1	100'-6¾"	100'-6¾"
GIRDER 3	1	99'-2"	99'-2"
GIRDER 4	1	97'-9⅞"	97'-9⅞"

GIRDER DIMENSIONS

GIRDER	A	B	C	D	E	F
2	100'-6¾"	50'-3⅜"	49 SPA. @ 4½"	4⅛"	40 SPA. @ 6"	9 SPA. @ 1'-8"
3	99'-2"	49'-7"	48 SPA. @ 4½"	5"	41 SPA. @ 6"	8 SPA. @ 1'-8"
4	97'-9⅞"	48'-10¹⁵⁄₁₆"	48 SPA. @ 4½"	4¹⁵⁄₁₆"	38 SPA. @ 6"	9 SPA. @ 1'-8"

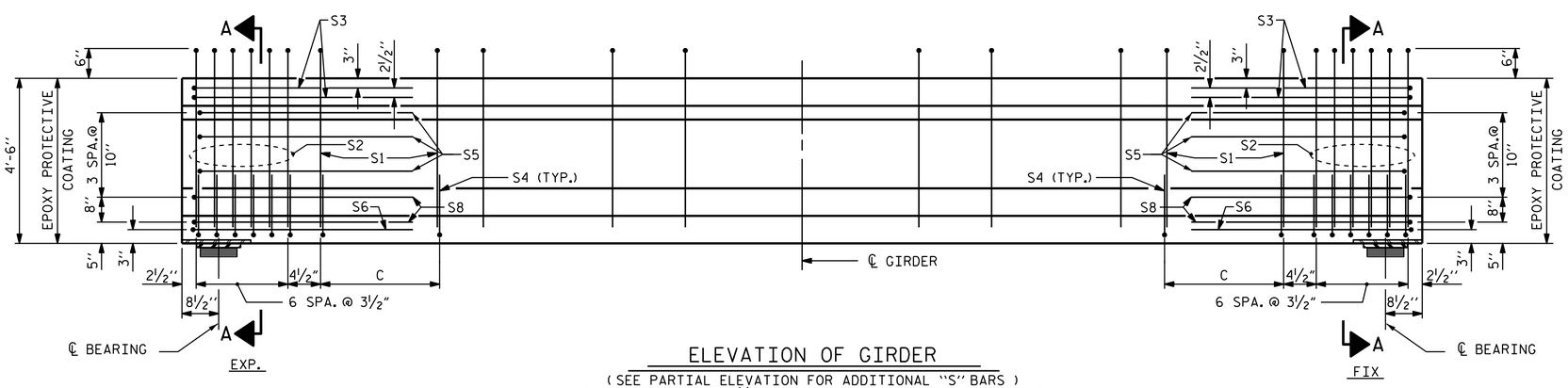


PLAN OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM
REINFORCING STEEL FOR INTERIOR GIRDERS



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)
(FOR LOCATION OF 1½" Ø FORMED HOLES, SEE SHEET 3 OF 4)

NORTH CAROLINA PROFESSIONAL SEAL 29441 ENGINEER KRISTY W. ALFORD

DocuSigned by: F245838930BF40E...

11/25/2014

PROJECT NO. B-5119

GUILFORD COUNTY

STATION: 12+32.31 -RP-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER

(INTERIOR GIRDERS)

ASSEMBLED BY : J.P. ADAMS	DATE : 9/16/14
CHECKED BY : D.R. SHACKELFORD	DATE : 10/2014
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

REVISIONS

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

SHEET NO. S-58

TOTAL SHEETS 77

25-NOV-2014 10:59
T:\Structures\Plans\New Plans\B-5119_SD_G*.dgn
jpadams

STD. NO. PCG6