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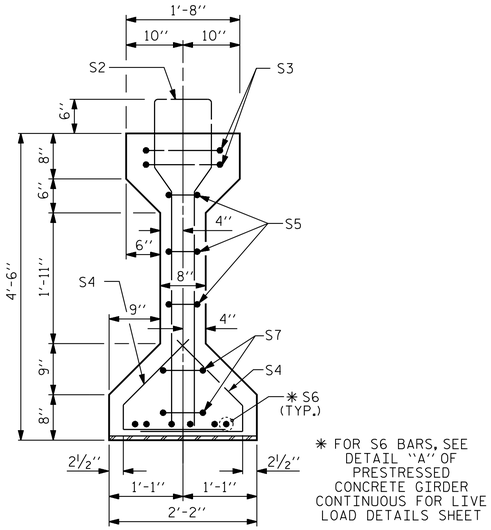
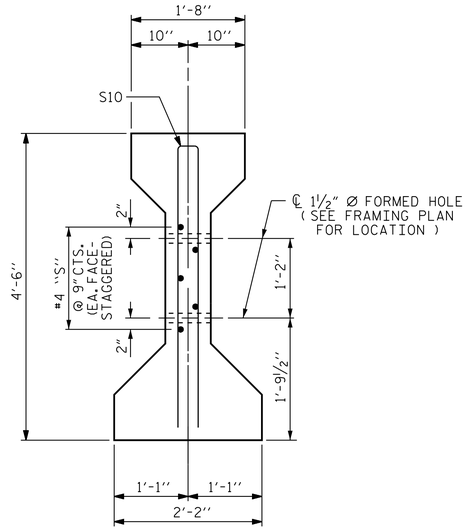


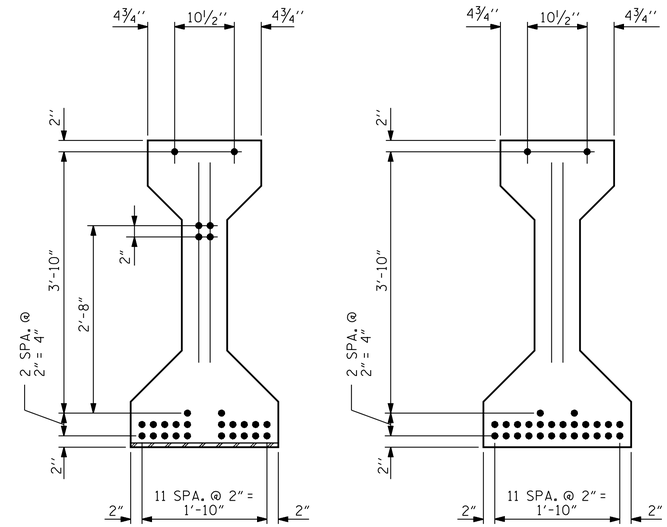
✱ FOR S6 BARS, SEE DETAIL "A" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET

SECTION A-A



SECTION C-C

(S1 BARS NOT SHOWN)



AT END OF GIRDER

AT ℄ OF GIRDER

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

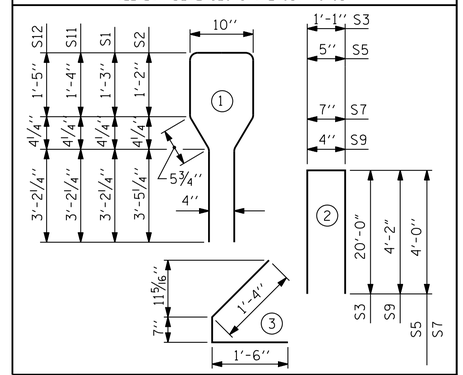
REINFORCING STEEL FOR ONE GIRDER

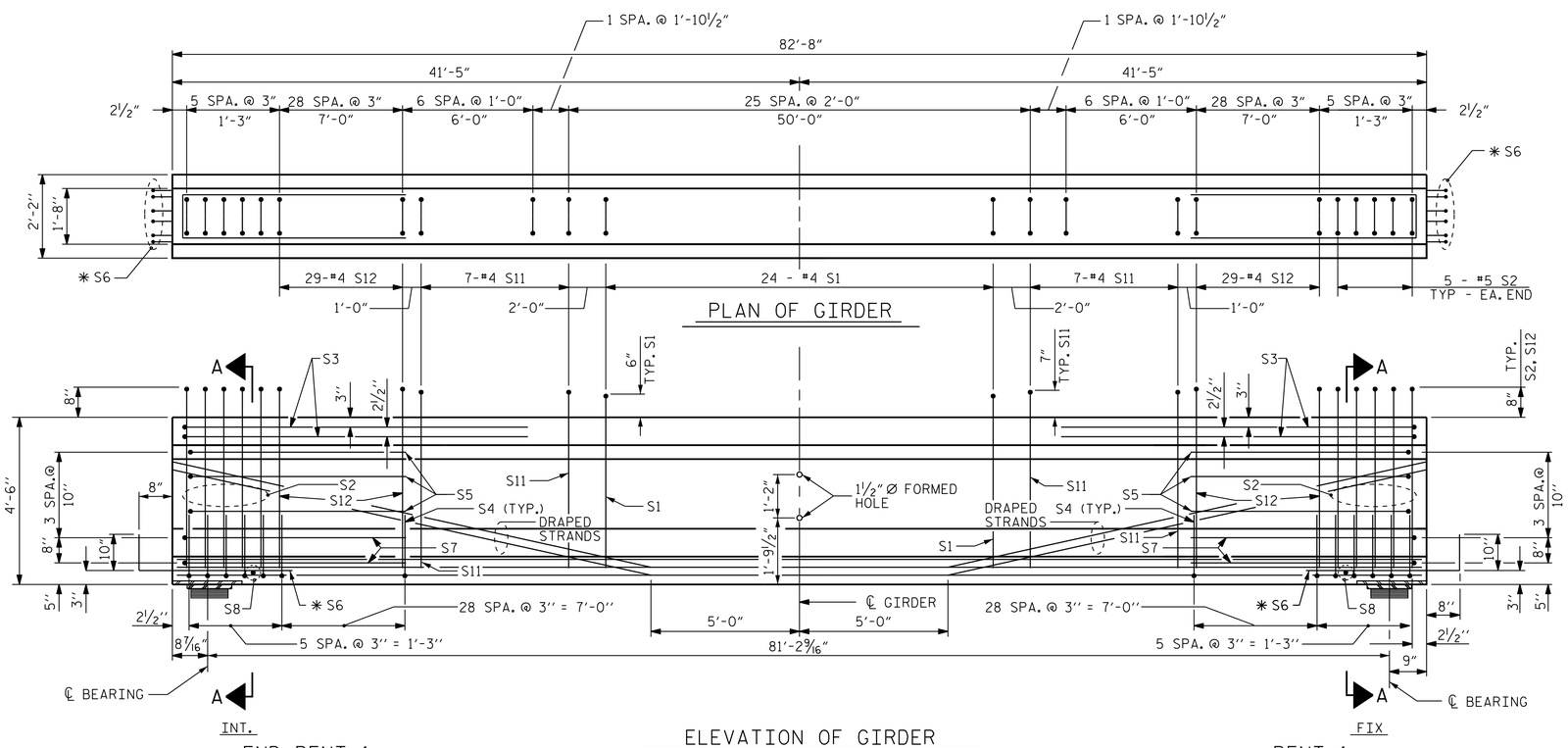
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	24	#4	1	10'-8"	171
S2	10	#5	1	11'-0"	115
S3	4	#4	2	41'-1"	110
S4	136	#4	3	3'-5"	311
S5	6	#4	2	8'-5"	34
✱ S6	12	#5	STR	3'-8"	46
S7	4	#4	2	8'-7"	23
S8	2	#3	STR	1'-10"	2
S9	2	#5	2	8'-8"	18
S10	5	#4	STR	7'-0"	23
S11	14	#4	1	10'-10"	101
S12	58	#4	1	11'-0"	426

✱ NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



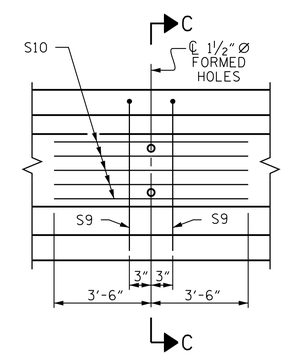


END BENT 1

ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

BENT 1



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1-4

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	8000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
	1380	16.8	28

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	82'-8"	330'-8"

PROJECT NO. R-0623

MONTGOMERY COUNTY

STATION: 123+82.50 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

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

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S-57
1			3				TOTAL SHEETS
2			4				82

NORTH CAROLINA PROFESSIONAL SEAL 13406 ENGINEER JOSEPH T. KELVINGTON

DocuSigned by: Joseph T. Kelvington 847C9D37807774AF... 3/28/2014

DESIGN ENGINEER OF RECORD: J. T. KELVINGTON		DATE : 03-11-14	
ASSEMBLED BY : J. B. GEILE		DATE : 12-04-13	
CHECKED BY : J. T. KELVINGTON		DATE : 12-05-13	
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	

Stantec

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STR. #2

STD. NO. PCG6

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