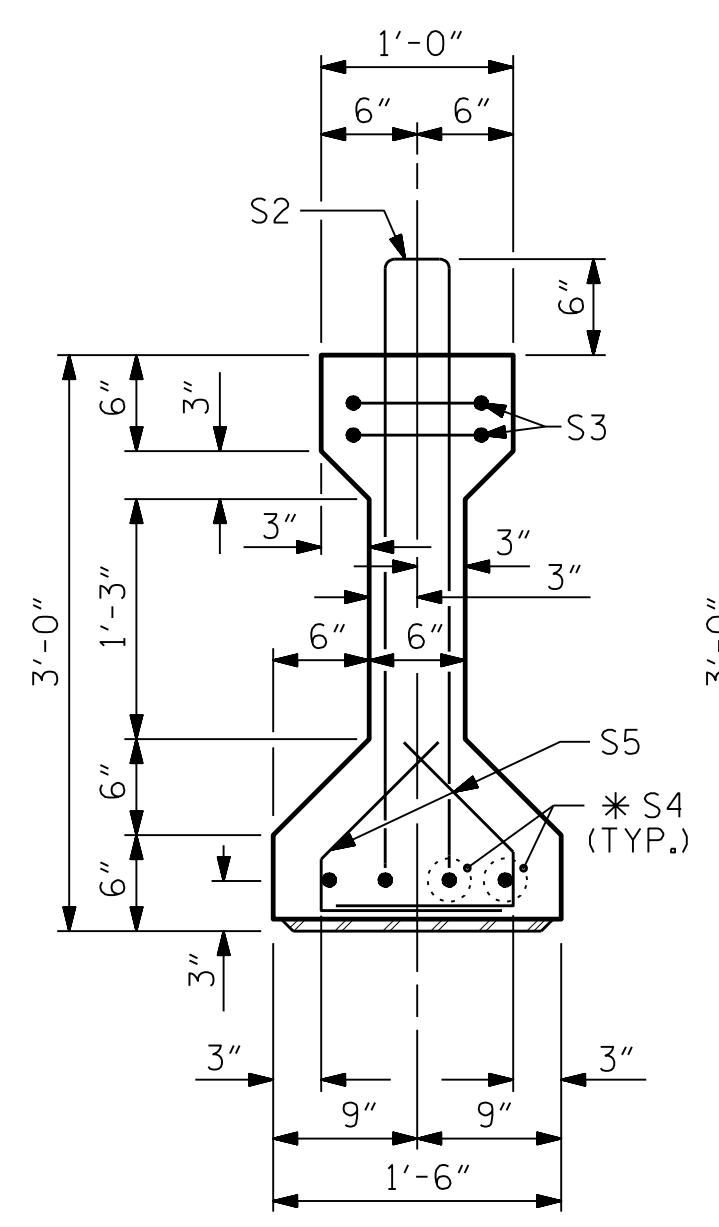
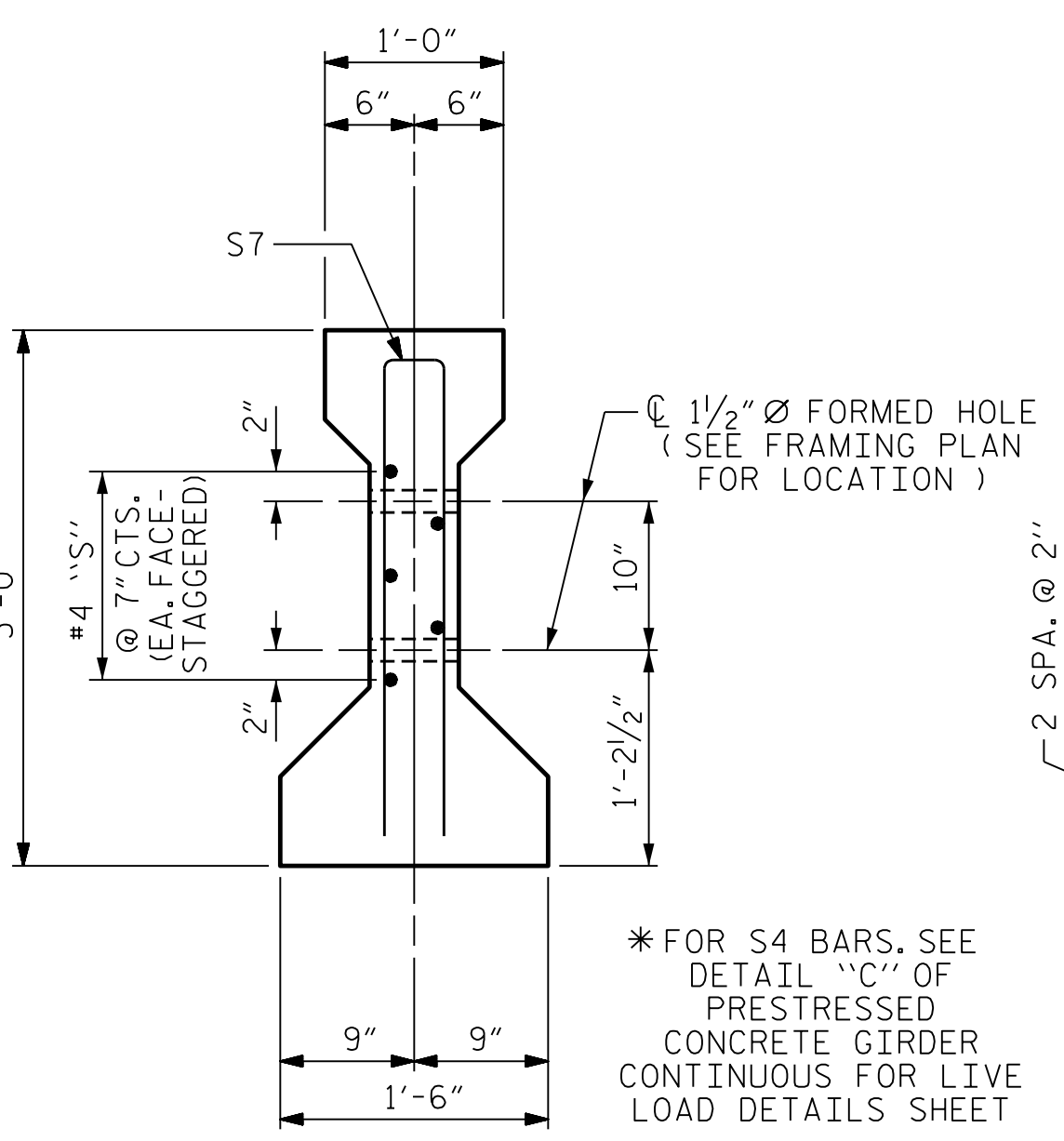


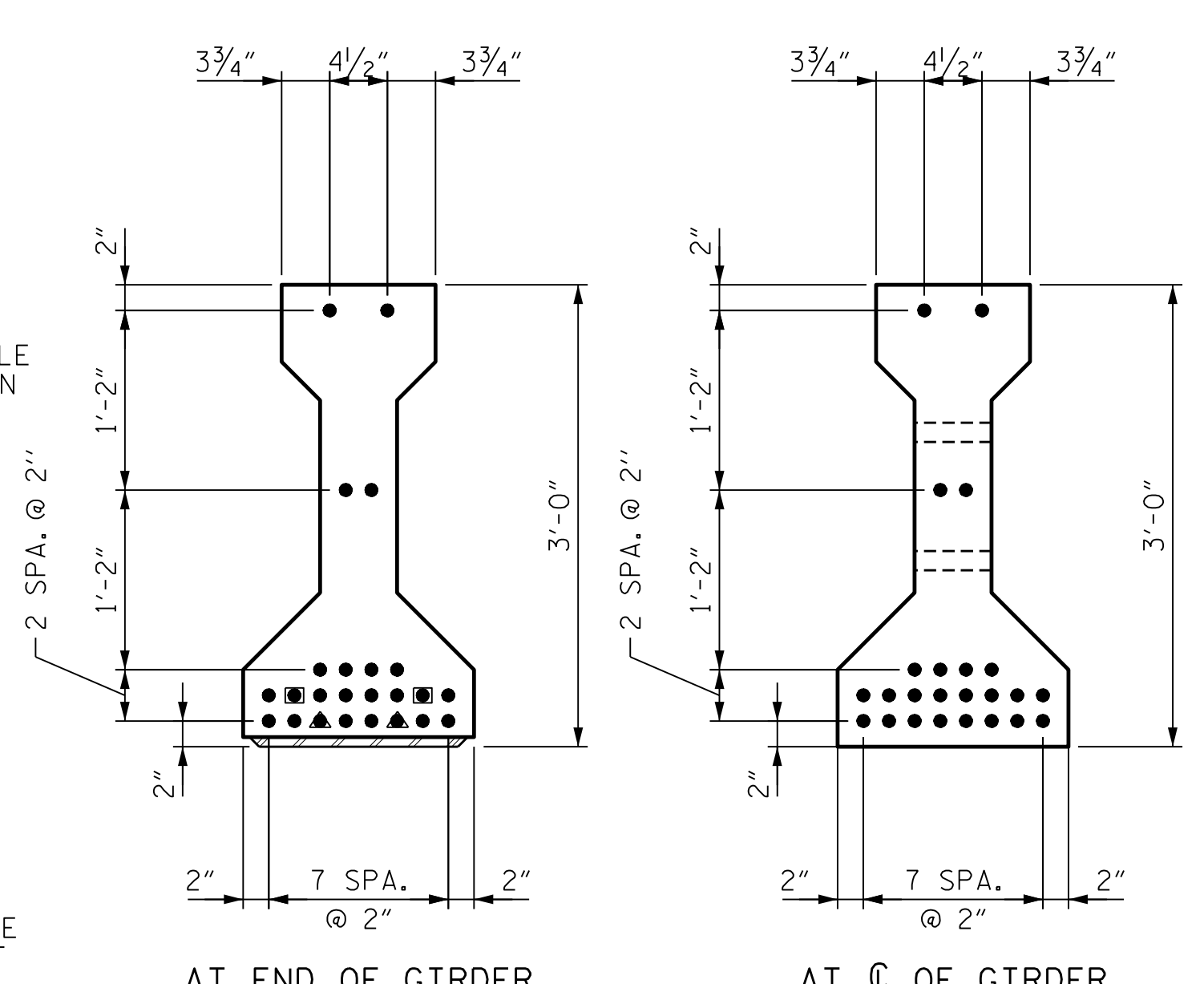
PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.PH
 USER: dcarter DATE: 2/19/2018 TIME: 1:43:17 PM
 FILE: ...structures\dgm\Final\CAD\0551



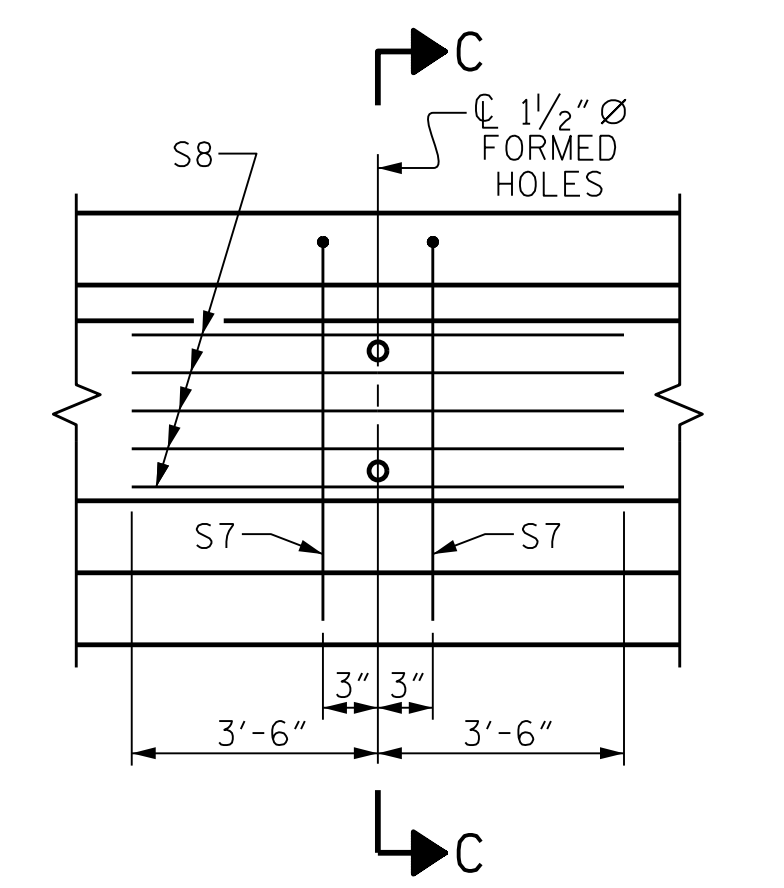
SECTION B-B



SECTION C-C
(S1 BARS NOT SHOWN)

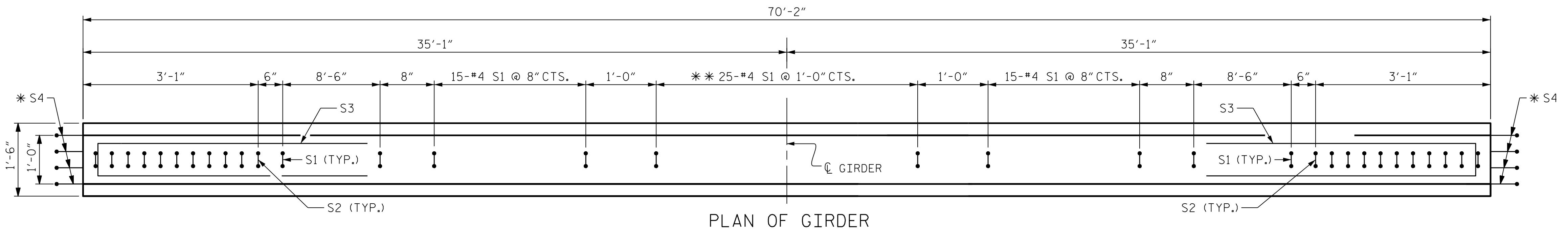


0.6" Ø LOW RELAXATION STRAND LAYOUT

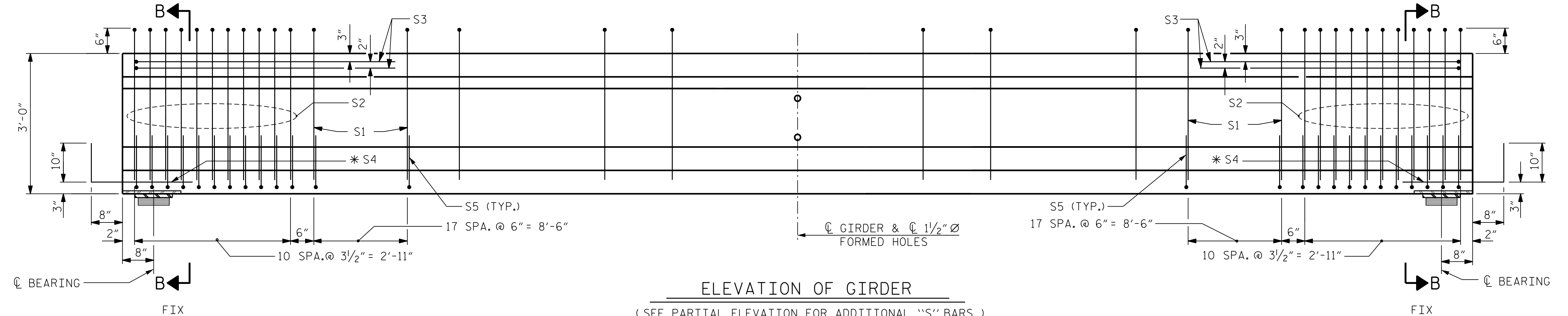


PARTIAL ELEVATION
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER NOS. BG1 TO BG6

- DEBONDING LEGEND
- FULLY BONDED STRANDS
 - ◻ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
 - ◼ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER



PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)
 *FOR S4 BARS SEE DETAIL "C" OF "PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS" SHEET.
 ** THE #4 S1 BAR AT CL GIRDER MAY BE SHIFTED AS NECESSARY TO AVOID THE 1/2" Ø FORMED HOLES.

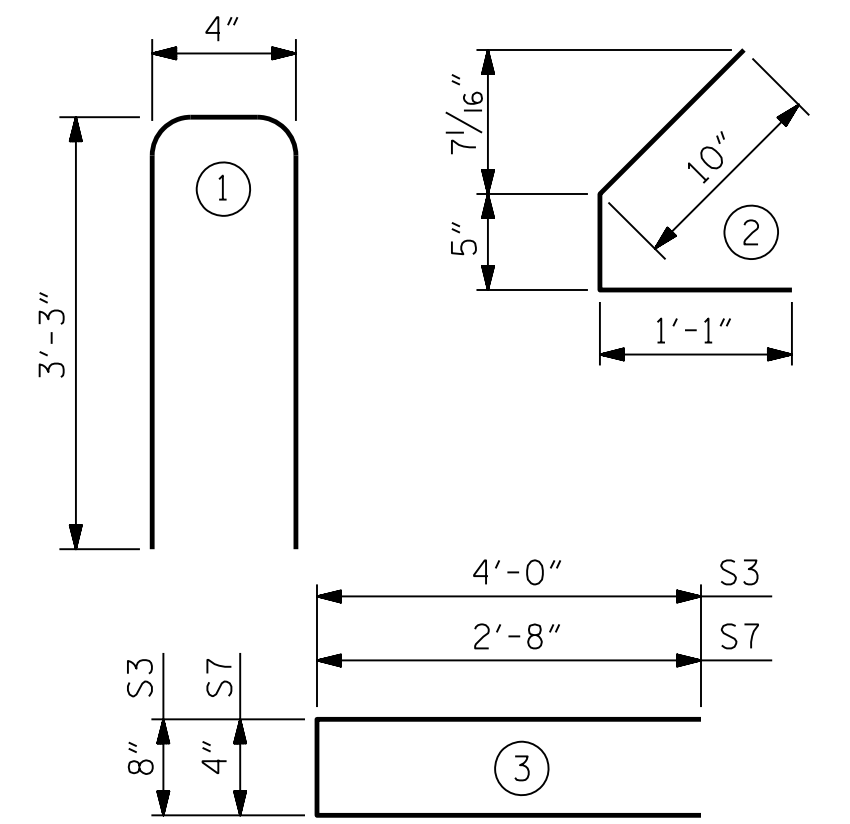
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	91	#4	1	6'-10"	415
S2	22	#5	1	6'-10"	157
S3	4	#4	3	8'-8"	23
*S4	8	#5	STR	3'-8"	31
S5	116	#4	2	2'-4"	181
S7	2	#5	3	5'-8"	12
S8	5	#4	STR	7'-0"	23

* 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

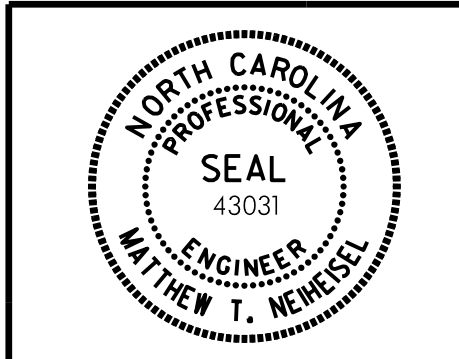
REINFORCING STEEL	9500 PSI CONCRETE	0.6" Ø L. R. STRANDS
LB.	C.Y.	No.
842	6.7	24

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
6	70'-2"	421'-0"

PROJECT NO. B-5352
 ROCKINGHAM COUNTY
 STATION: P.O.T. 22+16.89 -L-

SHEET 2 OF 5



DocuSigned by:
 Matthew T. Neiheisel
 2/20/2018
 84E318F9E30749E

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUPERSTRUCTURE
 AASHTO TYPE II
 PRESTRESSED CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD
 SPAN B

REVISIONS				SHEET NO.	
BY:	DATE:	NO.	BY:	DATE:	S-14
		3			TOTAL SHEETS
		4			37

DRAWN BY: D. H. CARTER DATE: FEB 2018
 CHECKED BY: M. T. NEIHEISEL DATE: FEB 2018
 DESIGN ENGINEER OF RECORD: M. T. NEIHEISEL DATE: FEB 2018

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