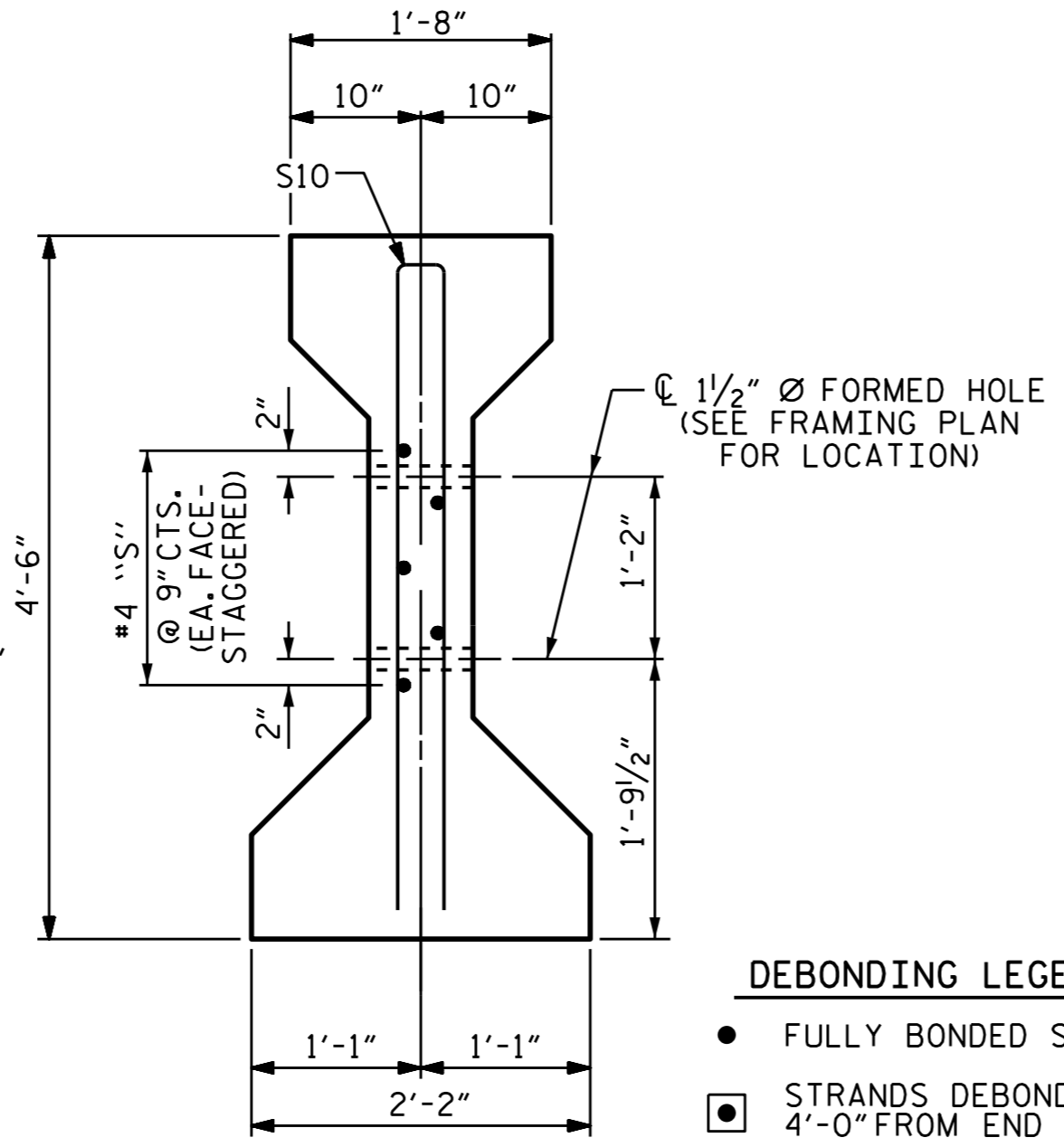


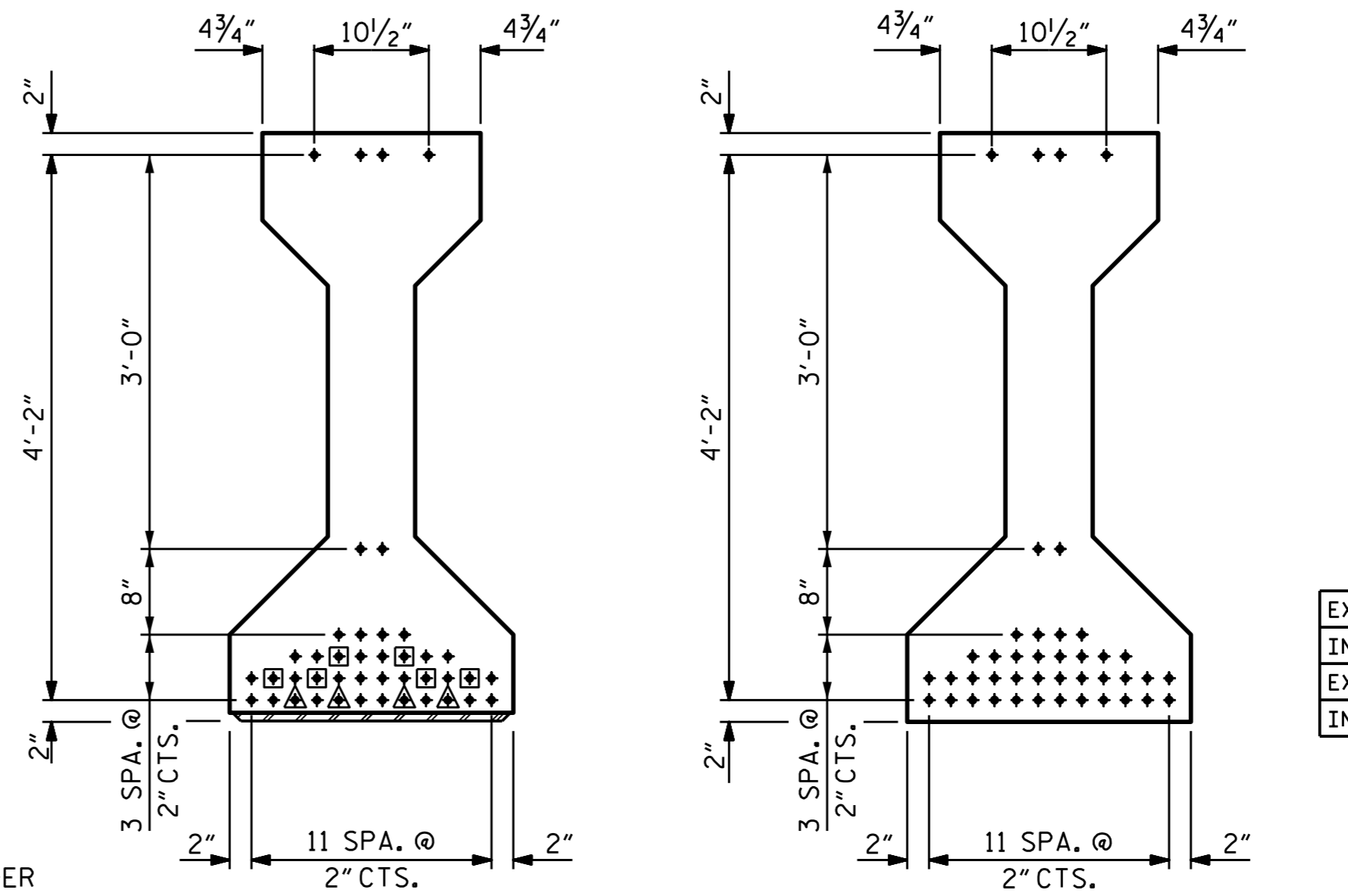
SECTION A-A

SECTION B-B

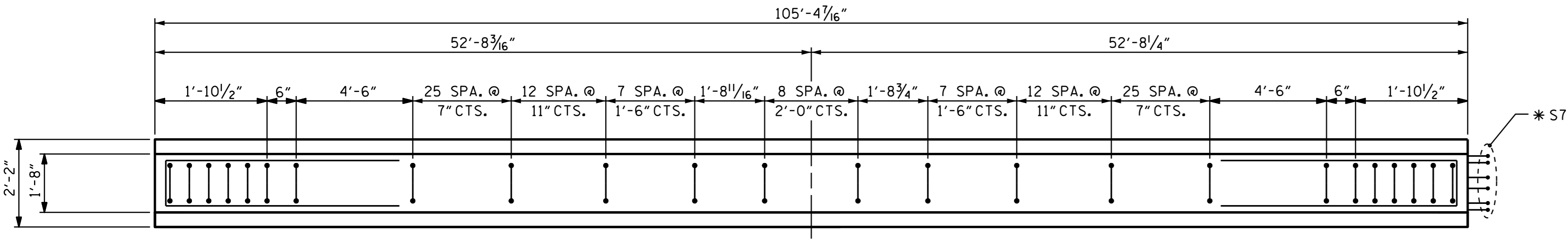


SECTION C-C  
(S1 BARS NOT SHOWN)

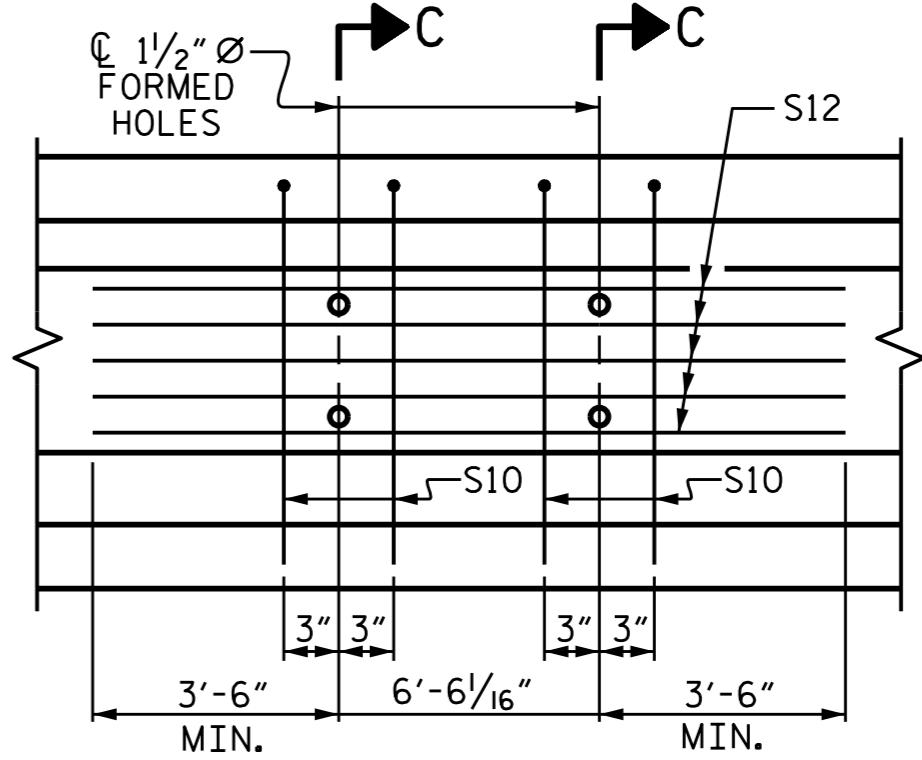
- DEBONDING LEGEND**
- FULLY BONDED STRANDS
  - ◻ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
  - ▲ STRANDS DEBONDED FOR 16'-0" FROM END OF GIRDER



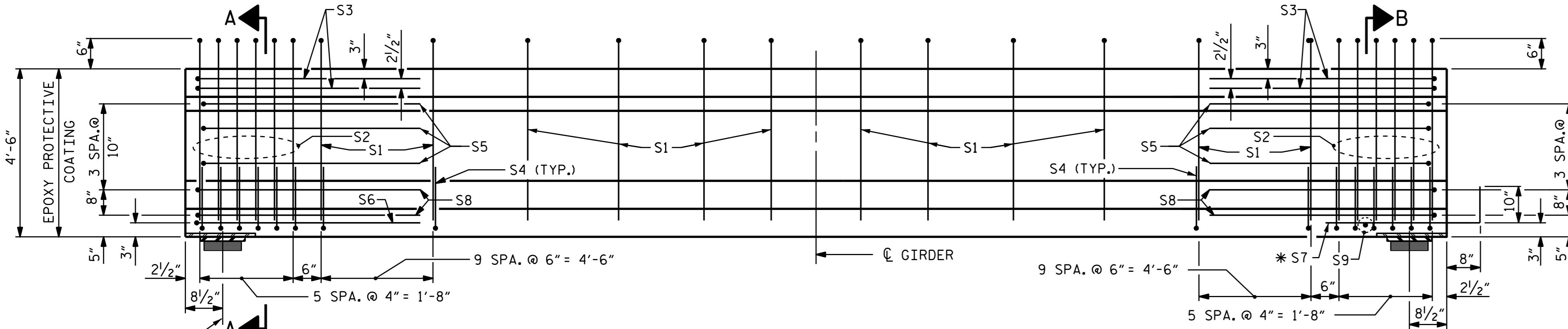
AT END OF GIRDER  
AT C OF GIRDER  
0.6" Ø LOW RELAXATION STRAND LAYOUT  
42 STRANDS, ALL STRAIGHT, 10 DEBONDED



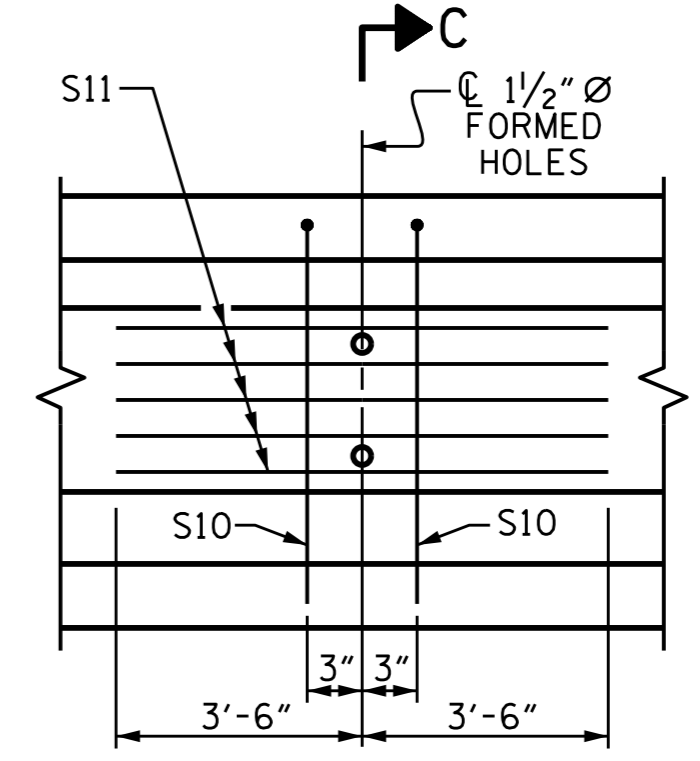
PLAN OF GIRDER



INTERIOR GIRDER



ELEVATION OF GIRDER  
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



EXTERIOR GIRDER

PARTIAL ELEVATION  
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER

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

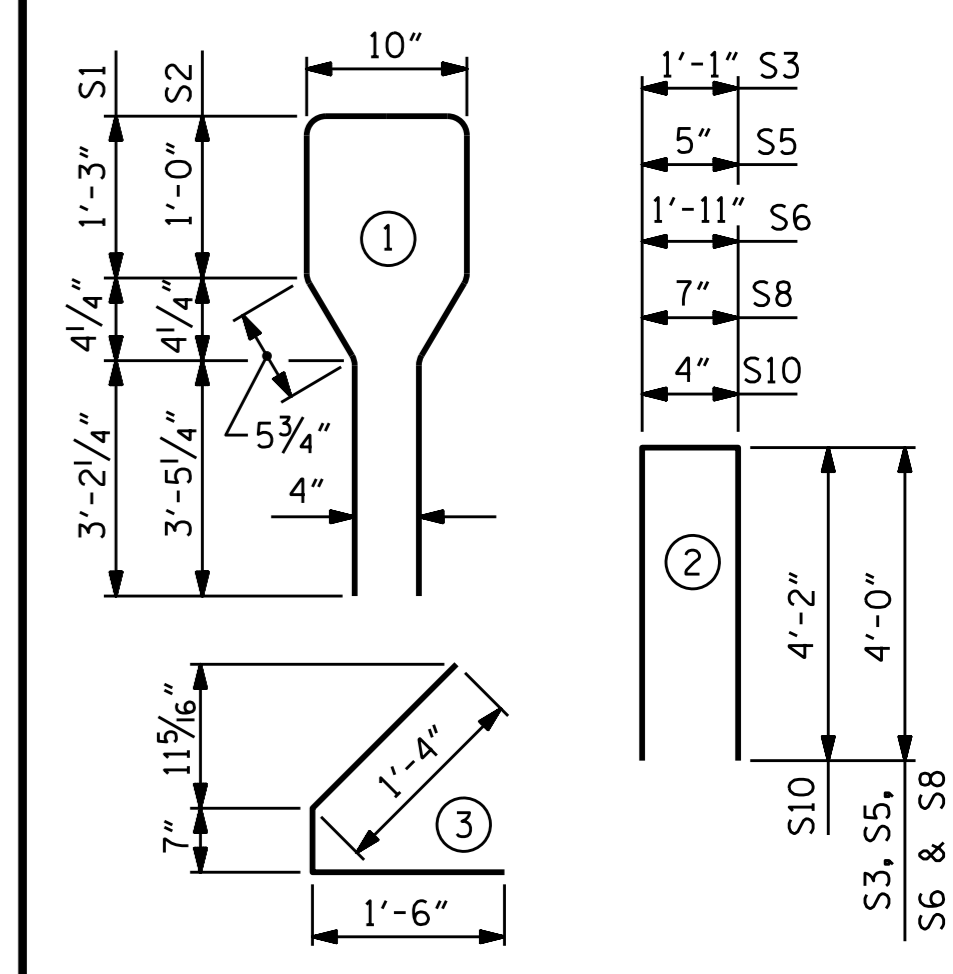
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	117	#5	1	10'-8"	1302
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
S10	4	#5	2	8'-8"	36
S10	8	#5	2	8'-8"	72
S11	10	#4	STR	7'-0"	47
S12	10	#4	STR	13'-6"	90

\*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	8000 PSI CONCRETE	0.6" Ø L. R. STRANDS
LB.	C.Y.	No.
1,997	21.4	42

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	105'-4 7/16"	842.98

PROJECT NO. U-2524D  
GUILFORD COUNTY  
STATION: 25+18.62 -Y6-

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

DESIGN ENGINEER OF RECORD:  
P. K. NEWTON DATE: 5/9/2016

ASSEMBLED BY: P. K. NEWTON DATE: 11/4/15  
CHECKED BY: P. N. HOLDER DATE: 1/7/16

DRAWN BY: ELR 8/91 TLA/GM  
CHECKED BY: GRP 8/91 REV. 10/1/11 MAA/GM  
REV. 1/15 MAA/TMG



DocuSigned by:  
Ting Fang  
7/1/2016

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S1-11
2			4			TOTAL SHEETS 33