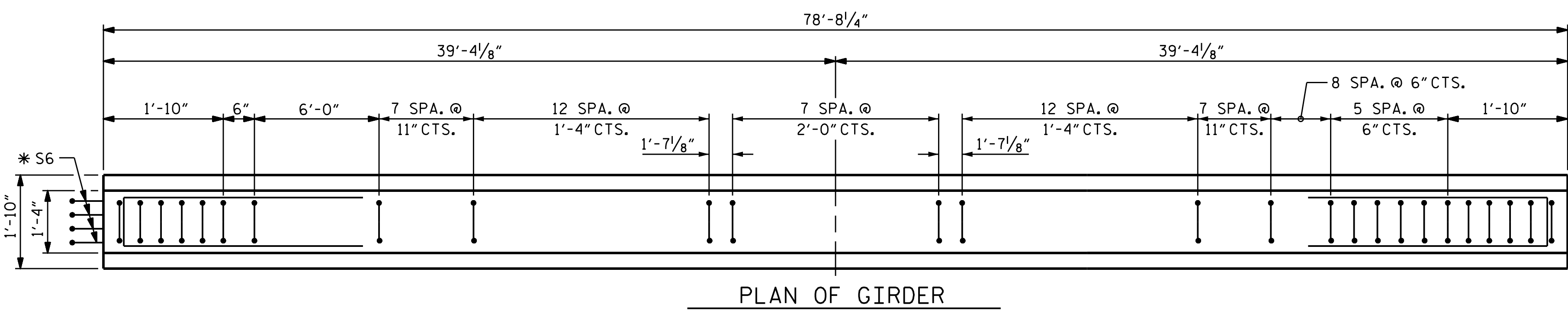
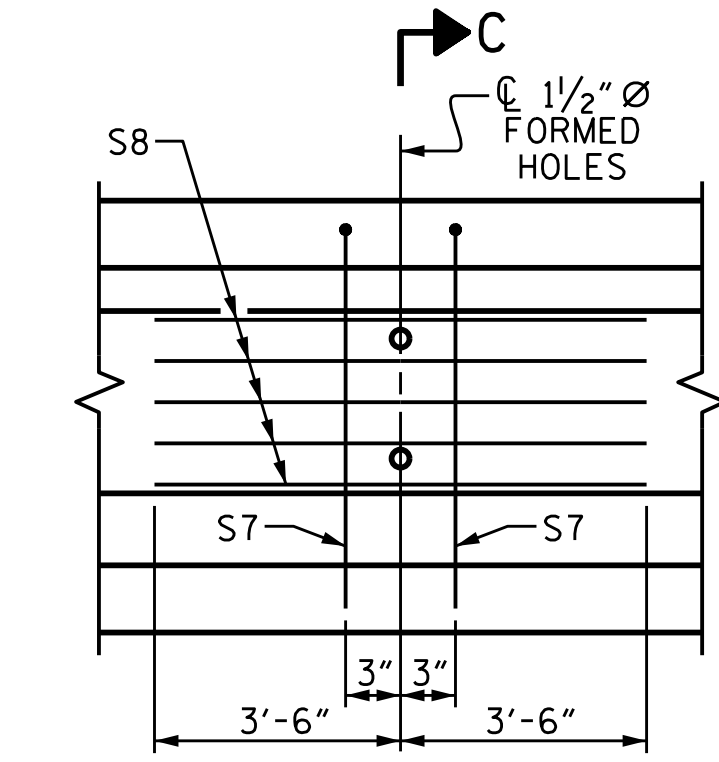


0.6" Ø LOW RELAXATION STRAND LAYOUT

- FULLY BONDED STRANDS
- ▲ STRANDS DEBONDED 12'-0" FROM END OF GIRDER

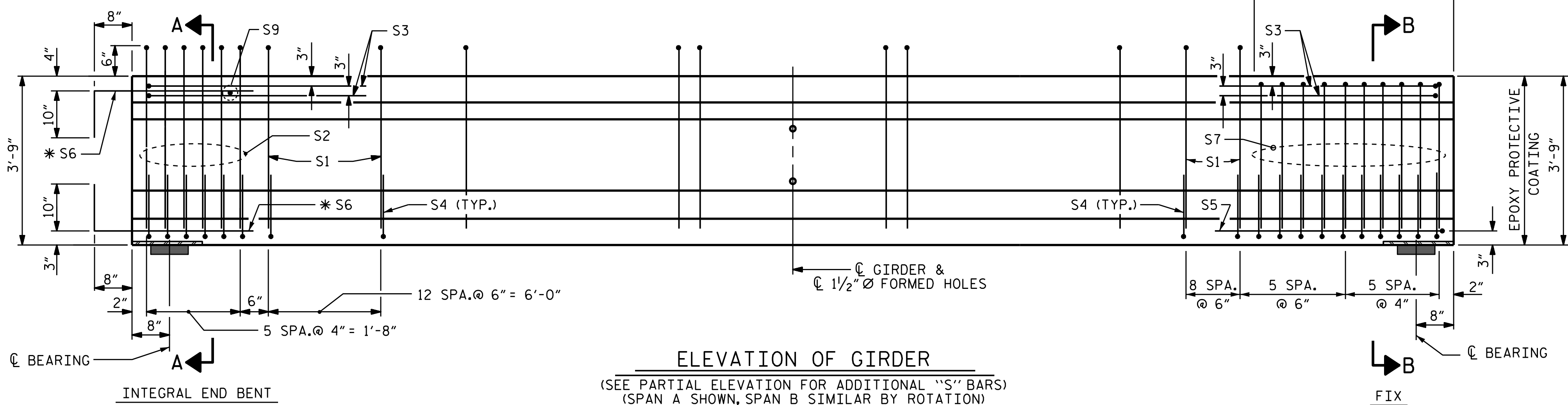


PLAN OF GIRDER



PARTIAL ELEVATION  
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL

\*\*DO NOT RAKE THE TOP OF THE GIRDER IN THIS AREA



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)  
(SPAN A SHOWN, SPAN B SIMILAR BY ROTATION)

0.6" Ø L. R. GRADE 270 STRANDS

AREA (SQ. INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

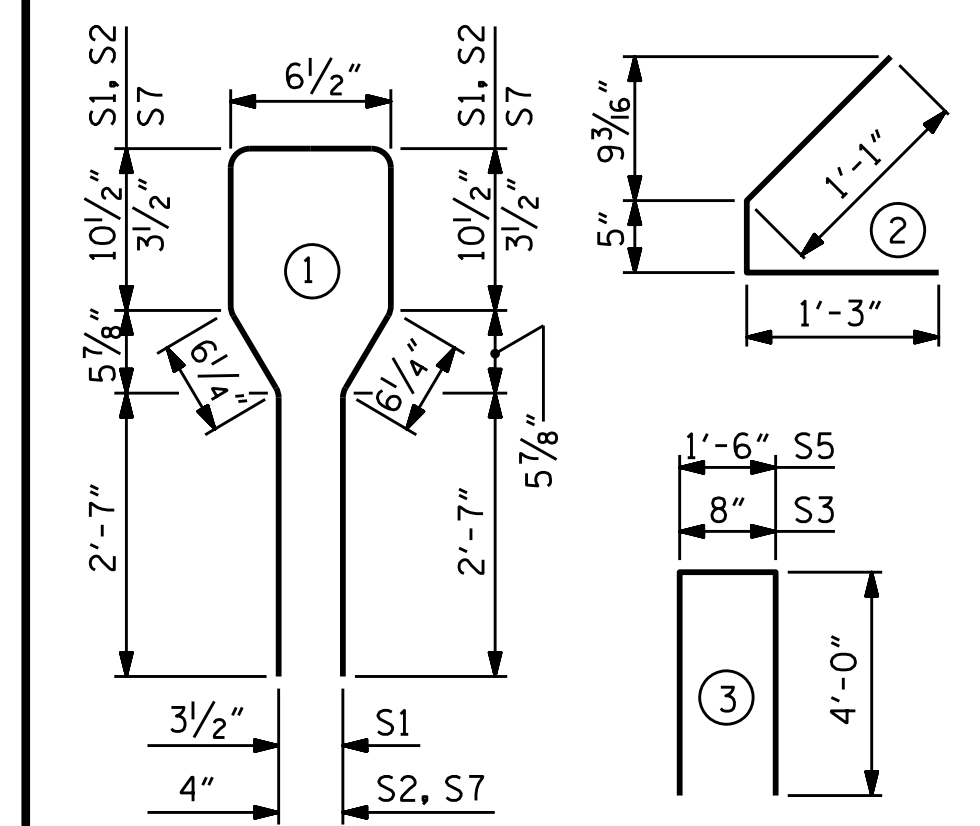
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	68	#4	1	8'-6"	386
S2	6	#6	1	8'-6"	77
S3	4	#4	3	8'-8"	23
S4	76	#4	2	2'-9"	140
S5	1	#4	3	9'-6"	6
*S6	8	#5	STR	3'-8"	31
S7	12	#6	1	7'-4"	132
S8	5	#4	STR	7'-0"	23
S9	1	#4	STR	1'-0"	1

\* NOTE: S6 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.	7500 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
	819	11.3	26

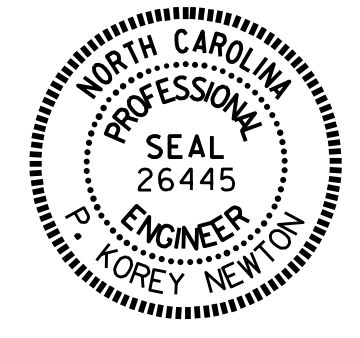
GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
10	78'-8 1/4"	786.88

PROJECT NO. BR-0017  
DUPLIN COUNTY  
STATION: 18+27.00 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
AASHTO TYPE III  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			28

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DESIGN ENGINEER OF RECORD: P. D. BRYANT	DATE: 3/1/21
ASSEMBLED BY: P. K. NEWTON	DATE: 1/15/21
CHECKED BY: M. K. BEARD	DATE: 2/8/21
DRAWN BY: ELR 8/91	REV. 10/1/11 MAA/GM
CHECKED BY: GRP 8/91	REV. 1/15 MAA/TMG
	REV. 12/17 MAA/THC