

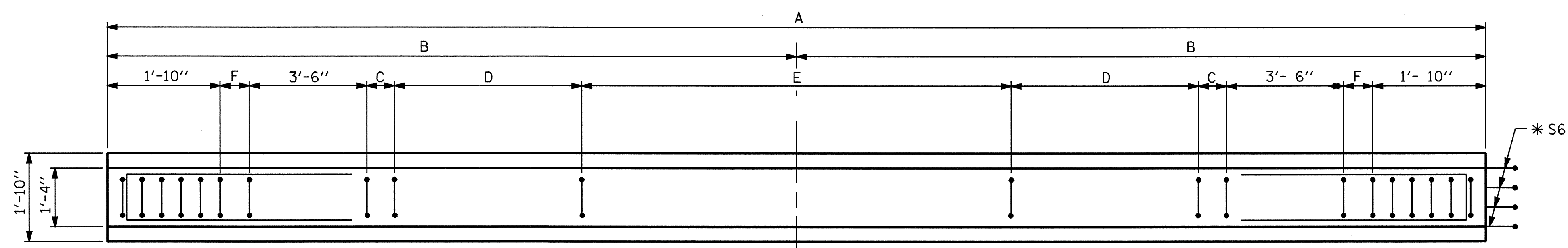
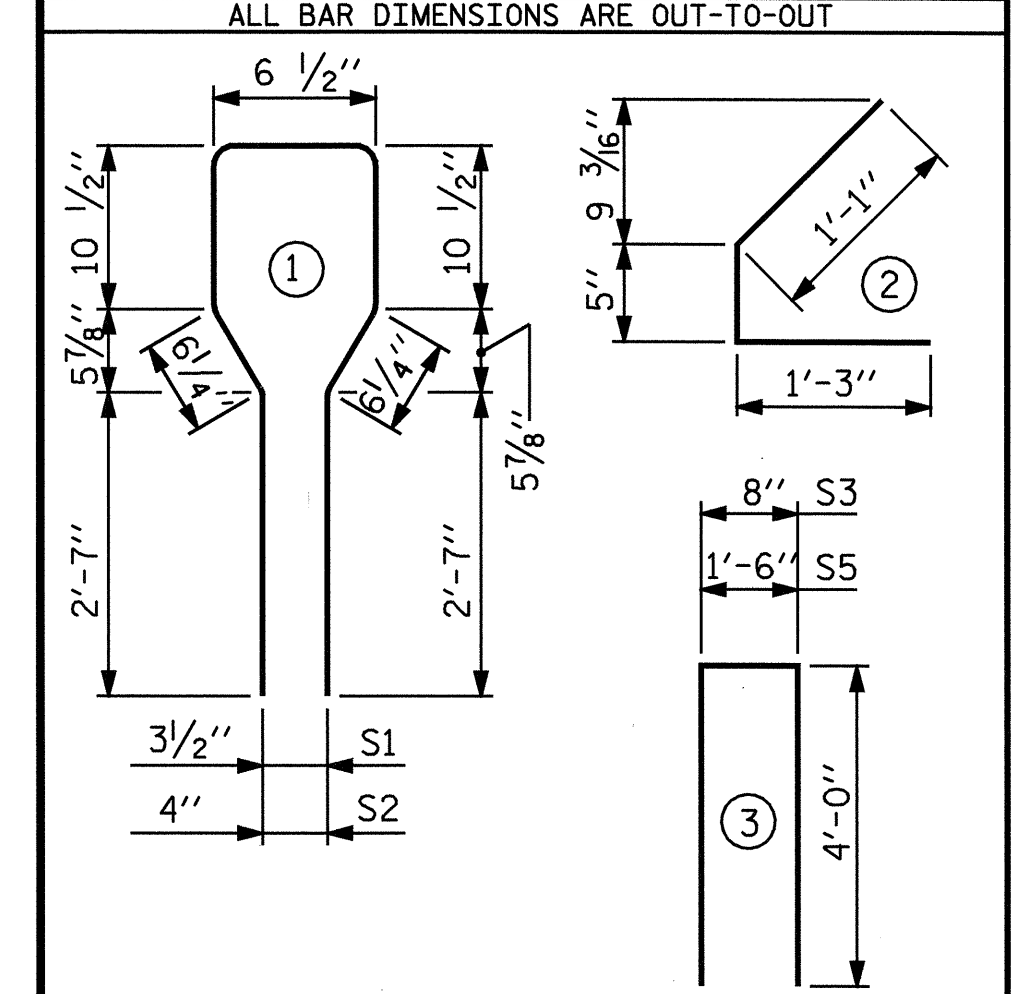
GIRDERS 1-2
 GIRDERS 3-4

1/2" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.153	41,300	30,980

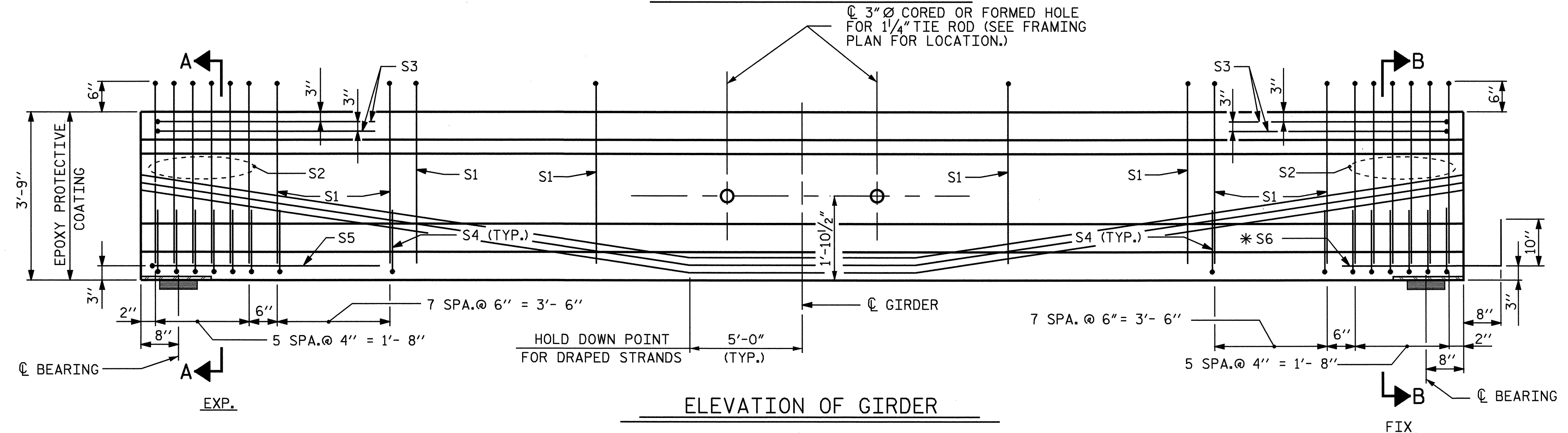
REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	55	#4	1	8'-6"	312
S1	57	#4	1	8'-6"	324
S2	12	#6	1	8'-6"	153
S3	4	#4	3	8'-8"	23
S4	56	#4	2	2'-9"	103
S5	1	#4	3	9'-6"	6
*S6	4	#5	STR	3'-8"	15

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

BAR TYPES



PLAN OF GIRDER



ELEVATION OF GIRDER

GIRDER DIMENSIONS						
GIRDER	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F
A1	61'-9 1/4"	30'-10 5/8"	0	10 SPA. @ 8" = 6'-8"	20 SPA. @ 1'-10" = 36'-8"	6 5/8"
A2	62'-1"	31'-0 1/2"	0	10 SPA. @ 8" = 6'-8"	20 SPA. @ 1'-10" = 36'-8"	8 1/2"
A3	62'-4 7/8"	31'-2 7/16"	4 7/16"	10 SPA. @ 8" = 6'-8"	20 SPA. @ 1'-10" = 36'-8"	6"
A4	62'-9"	31'-4 1/2"	6 1/2"	10 SPA. @ 8" = 6'-8"	20 SPA. @ 1'-10" = 36'-8"	6"

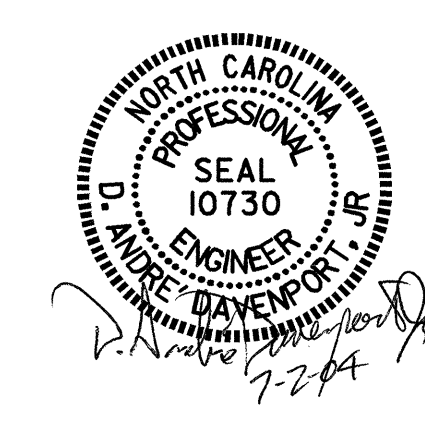
QUANTITIES FOR ONE GIRDER			
SPAN	REINFORCING STEEL LB.	5,000 PSI CONCRETE C.Y.	1/2" Ø L.R. STRANDS No.
GIRDER 1	612	8.9	22
GIRDER 2	612	8.9	22
GIRDER 3	624	9.0	22
GIRDER 4	624	9.0	22

GIRDERS REQUIRED		
SPAN A	NUMBER	LENGTH
GIRDER 1	1	61'-9 1/4"
GIRDER 2	1	62'-1"
GIRDER 3	1	62'-4 7/8"
GIRDER 4	1	62'-9"
TOTAL LENGTH	4	249'-0 1/8"

PROJECT NO. B-3506
 RANDOLPH COUNTY
 STATION: 17+97.50-L-
 SHEET 1 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

AASHTO TYPE III
 PRESTRESSED CONCRETE
 GIRDER CONTINUOUS
 FOR LIVE LOAD
 SPAN A



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

ASSEMBLED BY : H. T. BARBOUR DATE : 12-05-03
 CHECKED BY : D. A. DAVENPORT DATE : 3-04
 DRAWN BY : ELR 8/91 REV. 2/6/97 EEM/RCW
 CHECKED BY : GRP 8/91 REV. 7/17/98 RWW/LES
 REV. 10/17/00 RWW/LES