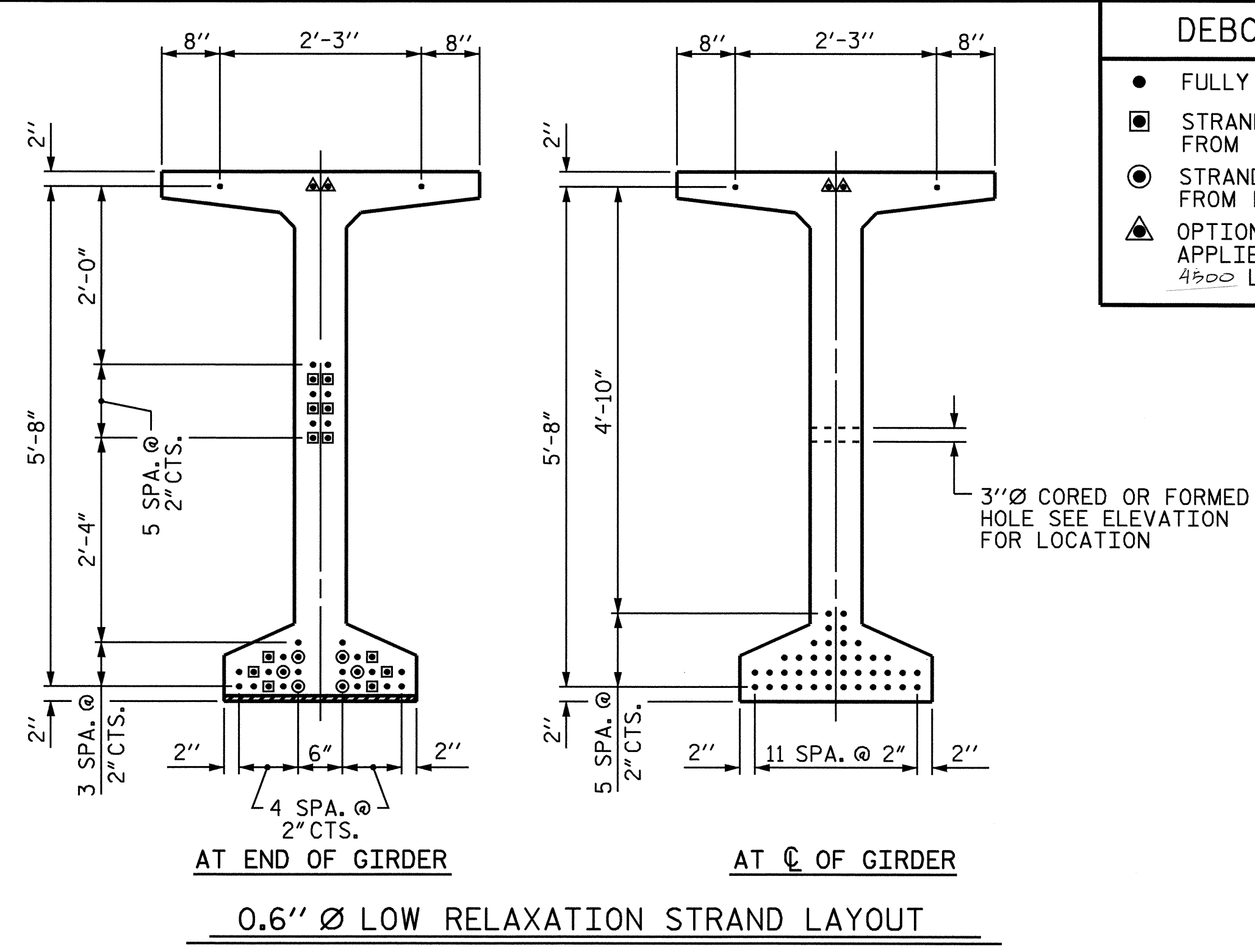


SECTION A-A



AT END OF GIRDER  
AT C. OF GIRDER  
0.6" Ø LOW RELAXATION STRAND LAYOUT

**DEBONDING LEGEND**

- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 2'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ▲ OPTIONAL SLACK STRAND WITH APPLIED PRESTRESS OF 4500 LBS. PER STRAND

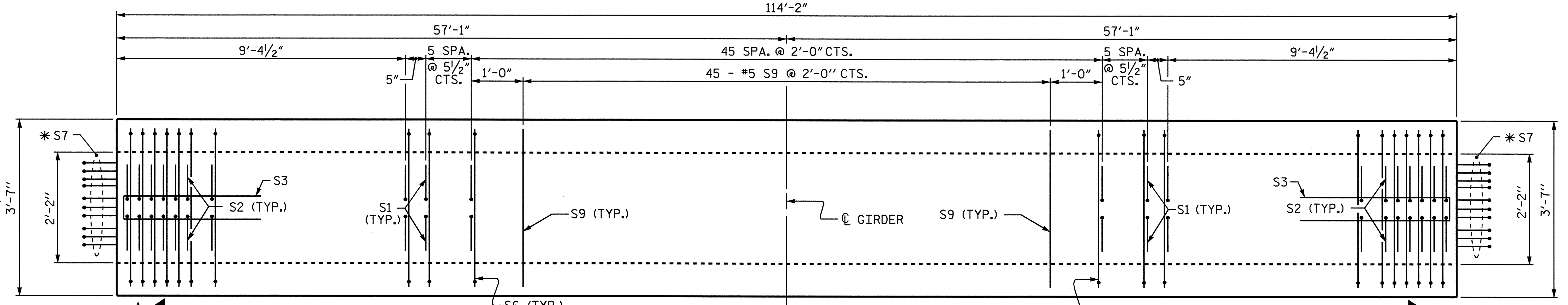
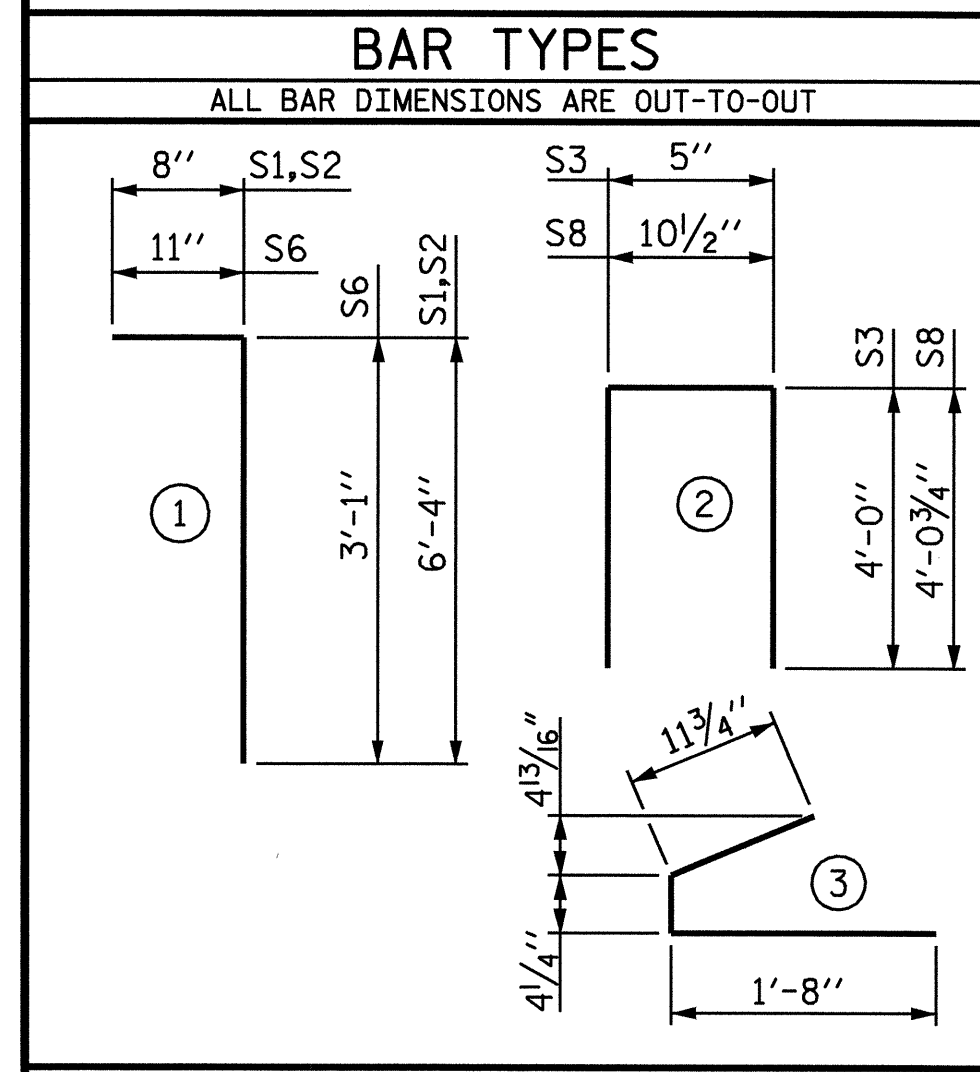
**0.6" Ø L.R. GRADE 270 STRANDS**

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

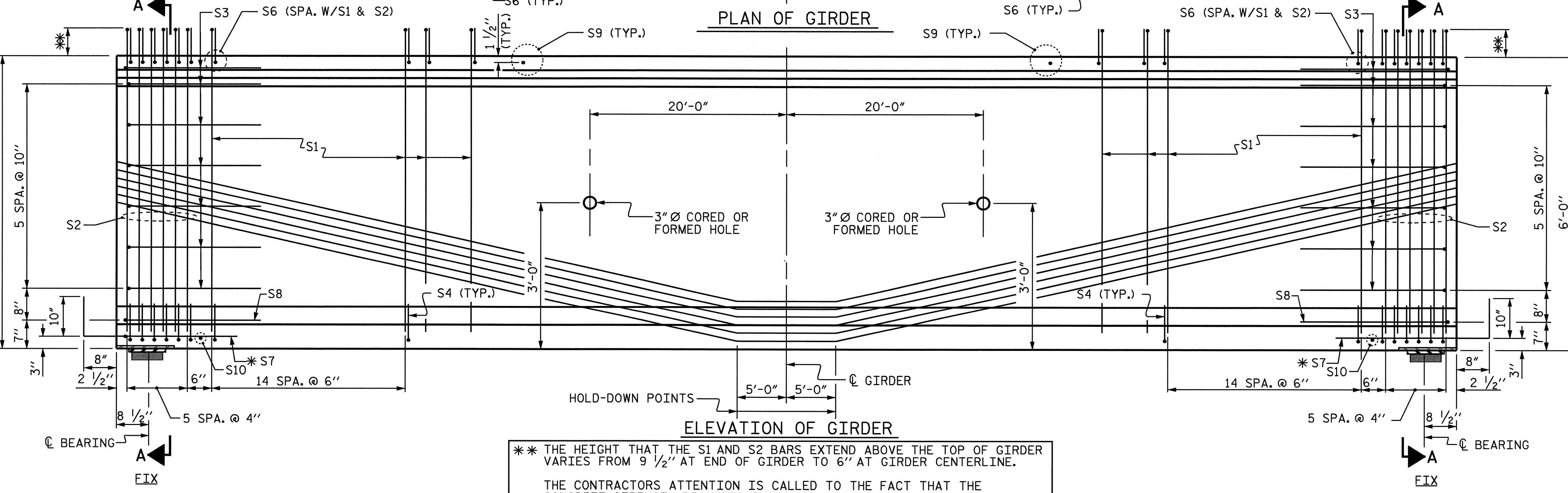
**REINFORCING STEEL FOR ONE GIRDER**

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	172	#4	1	7'-0"	804
S2	24	#5	1	7'-0"	175
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	196	#5	1	4'-0"	818
* S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	45	#5	STR	3'-3"	153
S10	2	#3	STR	1'-10"	1

\* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



PLAN OF GIRDER



ELEVATION OF GIRDER

\*\* THE HEIGHT THAT THE S1 AND S2 BARS EXTEND ABOVE THE TOP OF GIRDER VARIES FROM 9 1/2" AT END OF GIRDER TO 6" AT GIRDER CENTERLINE.  
THE CONTRACTORS ATTENTION IS CALLED TO THE FACT THAT THE CONCRETE STRENGTH REQUIRED IS 8500 PSI.  
THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 28.4 KIPS.

**QUANTITIES FOR ONE GIRDER**

REINFORCING STEEL	8,500 PSI CONCRETE	0.6" Ø L.R. STRANDS
LB.	C.Y.	No.
2293	24.5	42

**GIRDERS REQUIRED**

NUMBER	LENGTH	TOTAL LENGTH
4	114'-2"	456'-8"

PROJECT NO. I-4025A  
YADKIN-SURRY COUNTY  
STATION: 28+95.00 -SBL-

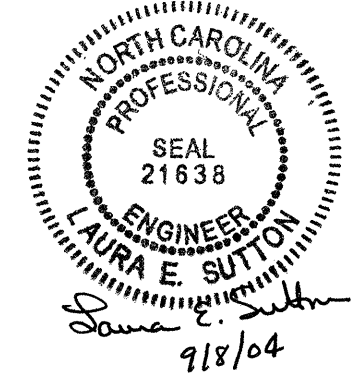
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

72" PRESTRESSED CONCRETE  
MODIFIED BULB TEE  
CONTINUOUS FOR LIVE LOAD

SPAN D  
STAGE II

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

TOTAL SHEETS: 18



EDITED BY : T.A. WALTER  
CHECKED BY : M.A. ALLEN  
DATE : 5/11/04  
DATE : 7/9/04