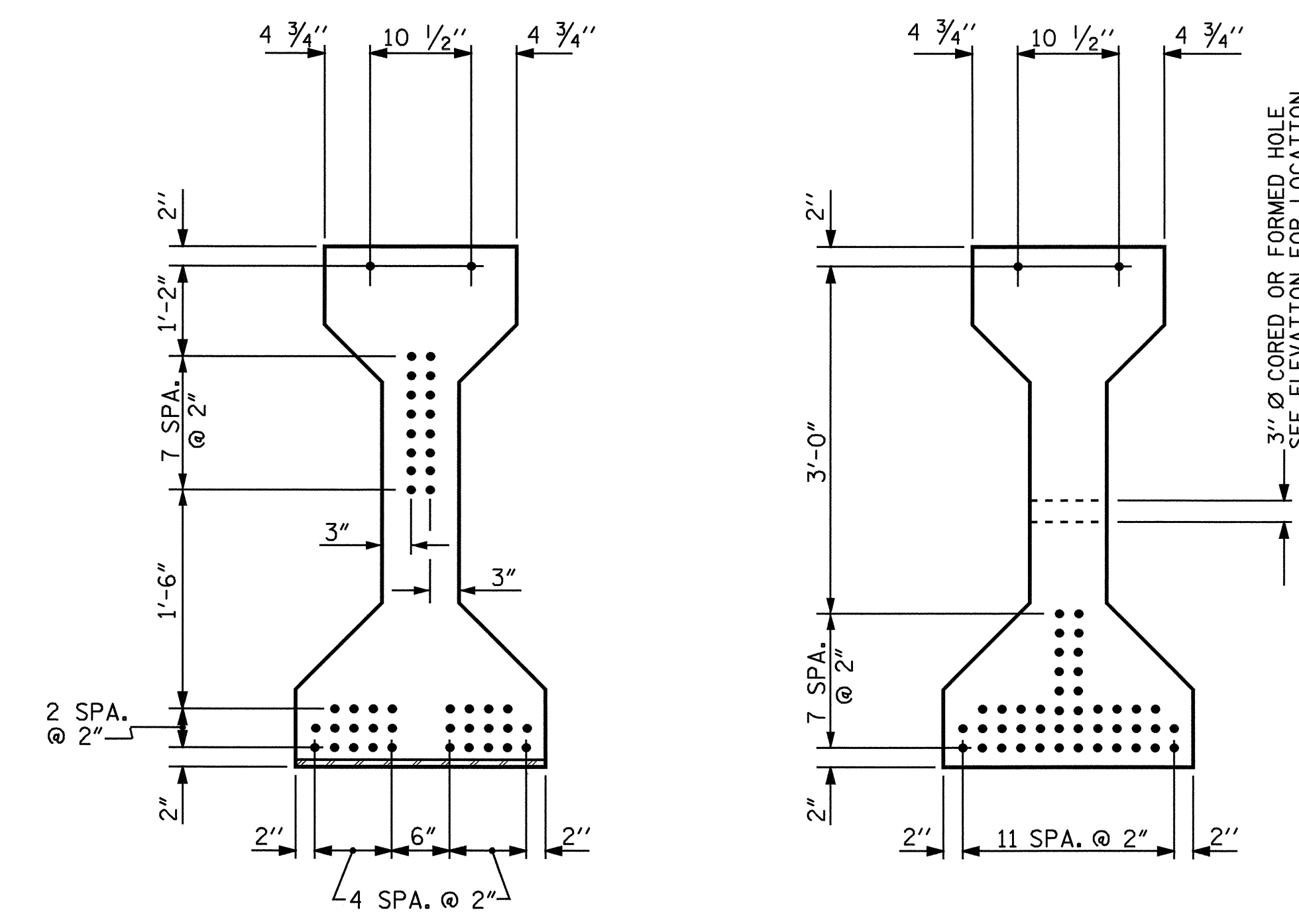


* FOR S7 BARS, SEE
 DETAIL "A" OF
 PRESTRESSED
 CONCRETE GIRDER
 CONTINUOUS FOR LIVE
 LOAD DETAILS SHEET

SECTION A-A

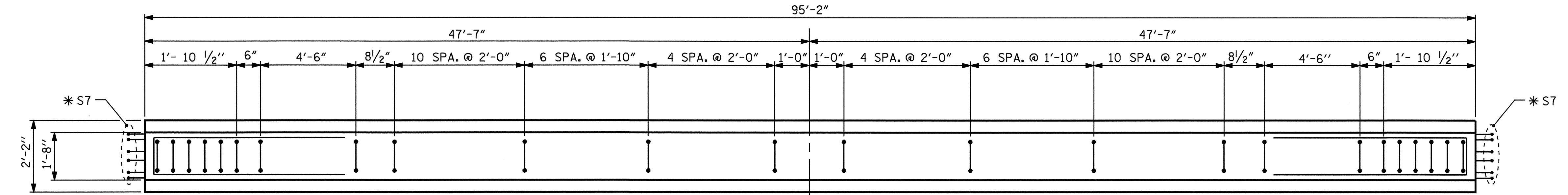


AT END OF GIRDER

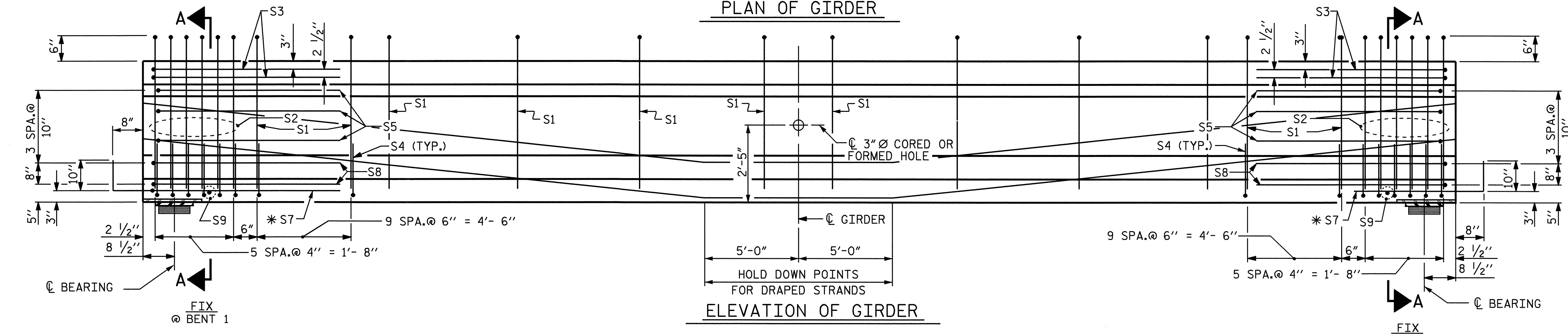
AT \mathcal{C} OF GIRDER

1/2" \mathcal{O} LOW RELAXATION STRAND LAYOUT

THE CONTRACTORS ATTENTION IS CALLED TO THE FACT
 THAT THE CONCRETE STRENGTH IS 8000 PSI.
 THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 21.3 KN.



PLAN OF GIRDER



ELEVATION OF GIRDER

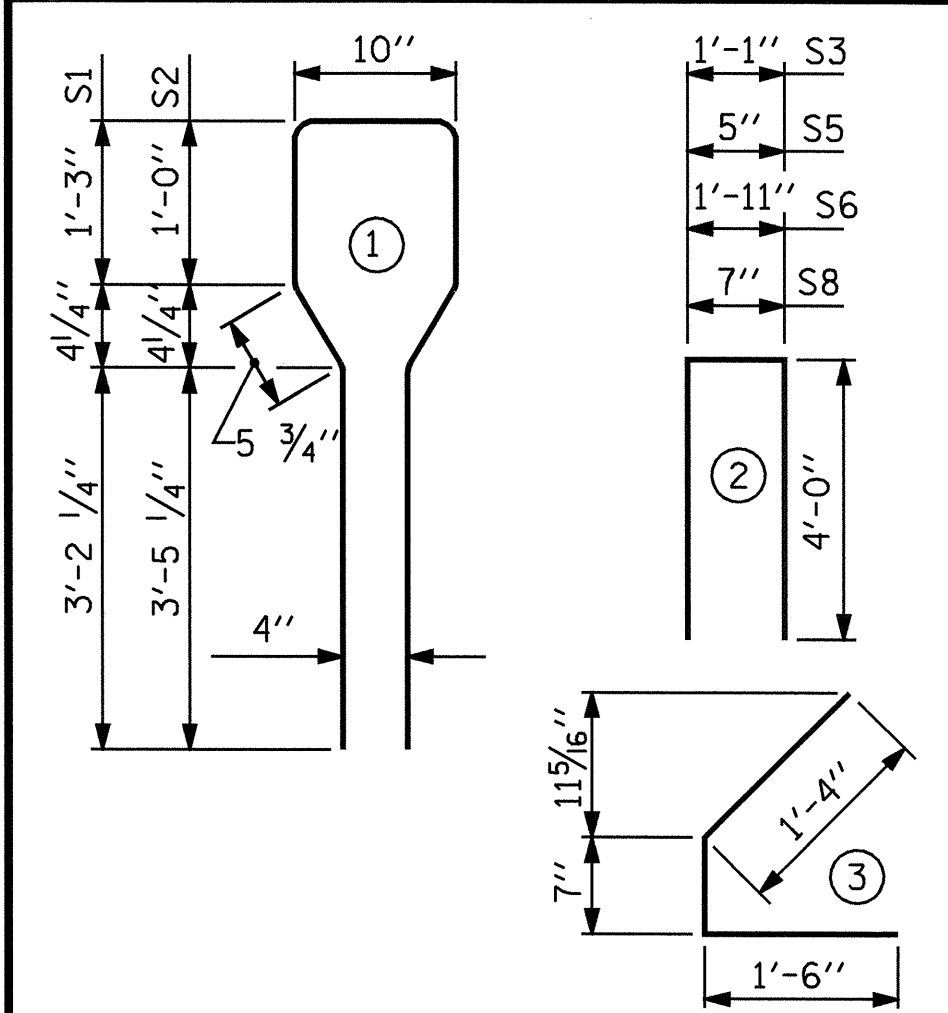
1/2" \mathcal{O} L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.153	41,300	30,980

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	62	#4	1	10'-8"	442
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
*S7	12	#5	STR	3'-8"	46
S8	4	#4	2	8'-7"	23
S9	2	#3	STR	1'-10"	1

* NOTE: 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	8,000 PSI CONCRETE	1/2" \mathcal{O} L.R. STRANDS
LB.	C.Y.	No.
908	19.3	46

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	95'-2"	380'-8"

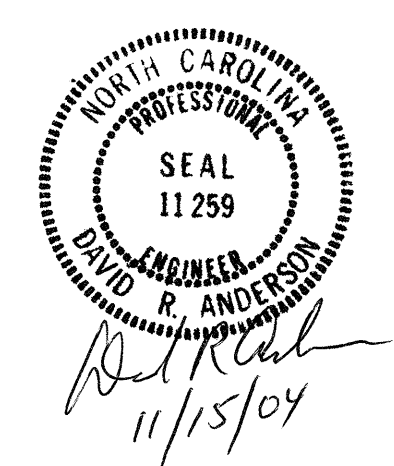
PROJECT NO. B-3350
IREDELL COUNTY
 STATION: 17+33.50 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

AASHTO TYPE IV
 PRESTRESSED CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD

SPAN B



DEAD LOAD DEFLECTION TABLE FOR GIRDERS

1/2" \mathcal{O} LOW RELAXATION TENTH POINTS	SPAN B GIRDERS 1 THRU 4											
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0	.089	.168	.230	.269	.283	.269	.230	.168	.089	0
** DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0	.046	.087	.119	.139	.146	.139	.119	.087	.046	0
FINAL CAMBER	↑	0	1/2"	1"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1"	1/2"	0

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).
 ** INCLUDES FUTURE WEARING SURFACE

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

TOTAL SHEETS: 35