

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES.

EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

ALL PRESTRESSED STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 7500 PSI.

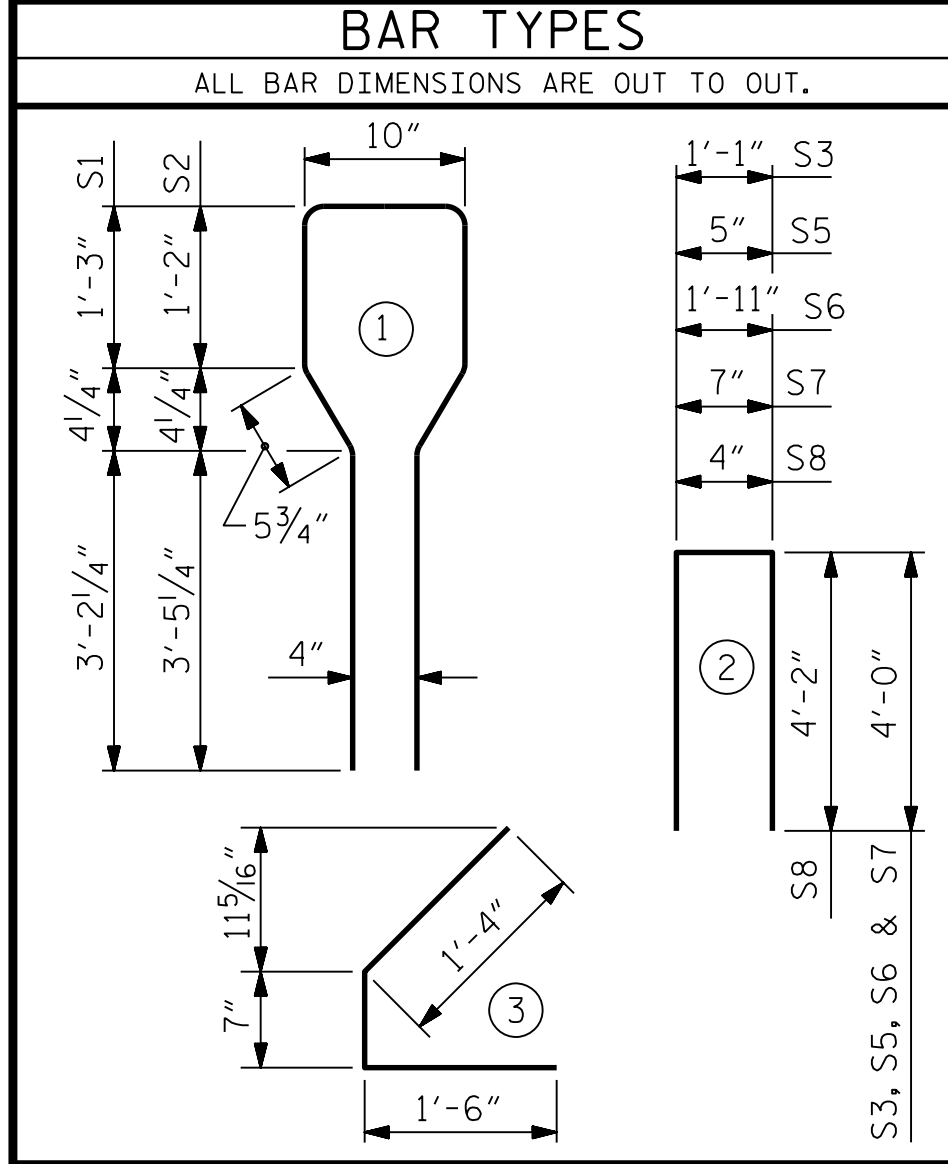
DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TOP SURFACE OF THE GIRDER SHALL BE RAKED TO A DEPTH OF 1/4" EXCEPT IN THE AREA BETWEEN THE STIRRUP AND THE EDGE OF THE GIRDER.

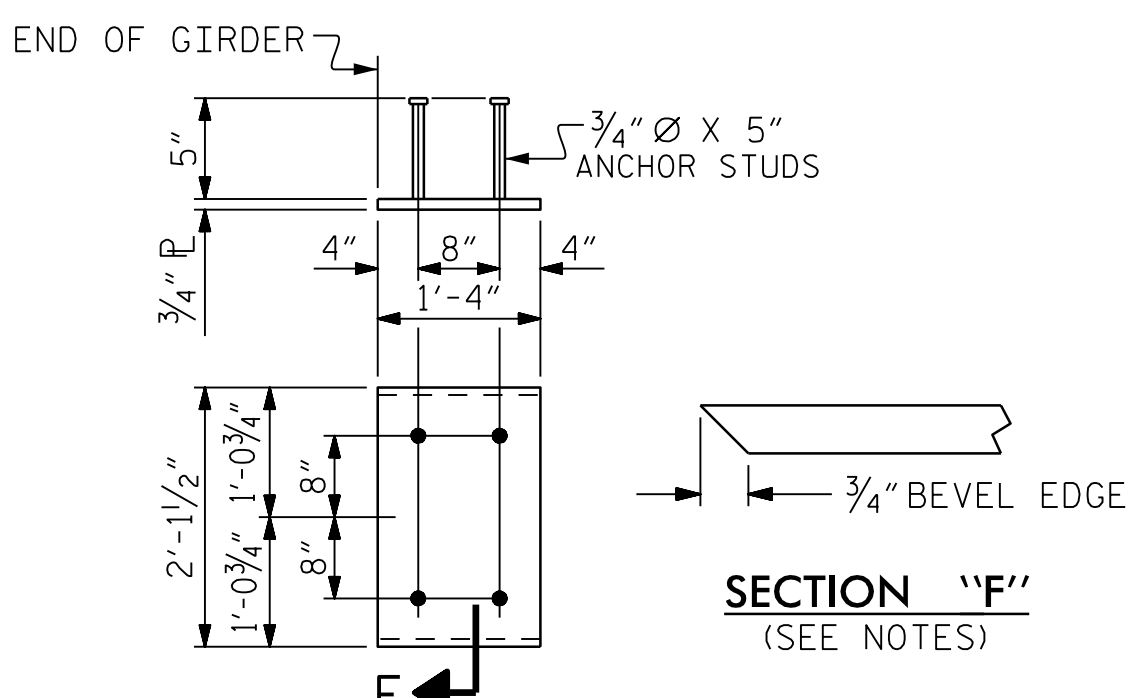
WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 6" OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN 1/2" OF THE THEORETICAL LOCATION SHOWN.

FOR EMBEDDED CLIPS FOR PRESTRESSED CONCRETE GIRDERS, SEE SPECIAL PROVISIONS.

REINFORCING STEEL FOR ONE GIRDER						
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
GDRS. A1 & A2	S1	#5	1	10'-8"	656	
GDRS. A3 - A6	S1	#5	1	10'-8"	645	
	S2	#6	1	11'-0"	133	
	S3	#4	2	9'-1"	24	
	S4	#4	3	3'-5"	164	
	S5	#4	2	8'-5"	34	
	S6	#4	2	9'-11"	13	
	S7	#4	2	8'-7"	23	
GDRS. A1 & A6	S8	#5	2	8'-8"	18	
GDRS. A2 - A5	S8	#5	2	8'-8"	36	
GDRS. A1 & A6	S9	#5	STR.	7'-0"	37	
GDRS. A2 - A5	S10	#5	STR.	12'-1"	67	
	S11	#6	STR.	3'-9"	90	

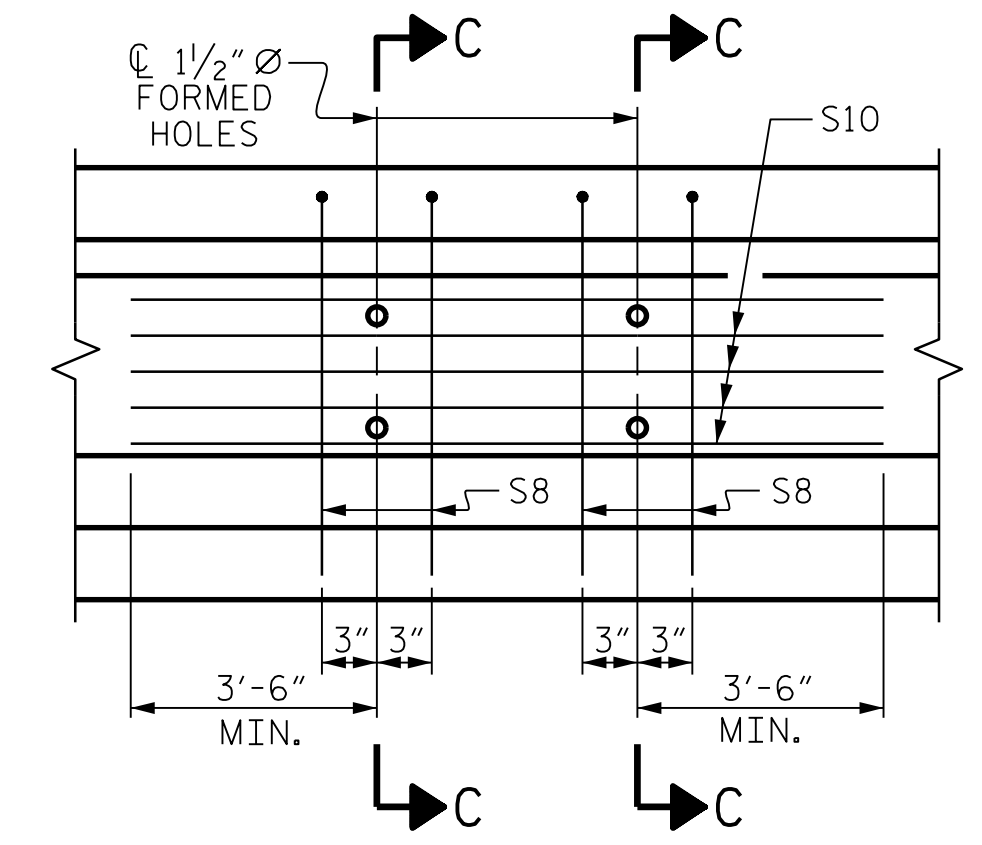


GIRDER	A	B	C	D	E	REINFORCING STEEL (LBS.)	7500 PSI CONCRETE (C.Y.)
A1	88'-11 3/8"	44'-5 1/16"	2 SPA. @ 1'-0"	1'-6 3/16"	34 SPA. @ 2'-0"	1192	18.0
A2	88'-4 11/16"	44'-2 3/8"	2 SPA. @ 1'-0"	1'-2 7/8"	34 SPA. @ 2'-0"	1240	17.9
A3	87'-10 7/16"	43'-11 1/4"	2 SPA. @ 1'-0"	1'-11 1/16"	33 SPA. @ 2'-0"	1229	17.8
A4	87'-4 9/16"	43'-8 1/4"	2 SPA. @ 1'-0"	1'-8 3/4"	33 SPA. @ 2'-0"	1229	17.7
A5	86'-10 15/16"	43'-5 3/8"	2 SPA. @ 1'-0"	1'-5 1/16"	33 SPA. @ 2'-0"	1229	17.6
A6	86'-5 1/2"	43'-2 3/4"	2 SPA. @ 1'-0"	1'-3 5/16"	33 SPA. @ 2'-0"	1189	17.5
TOTAL	525'-11 1/2"					TOTAL = 7,300	TOTAL = 106.5



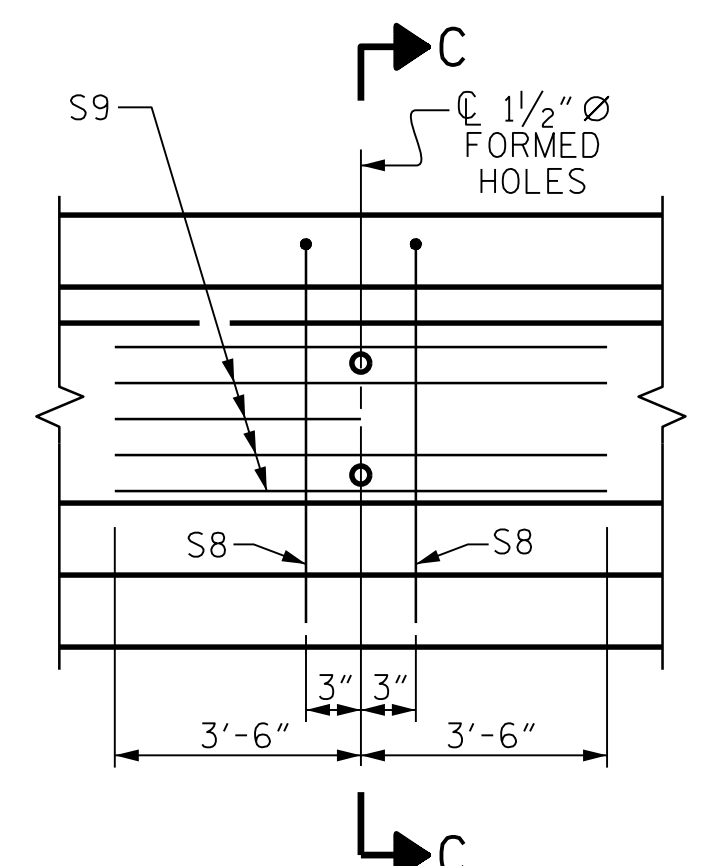
EMBEDDED PLATE "B-1" DETAILS

TWO EMBEDDED PLATES "B-1" ARE REQUIRED FOR EACH GIRDER.



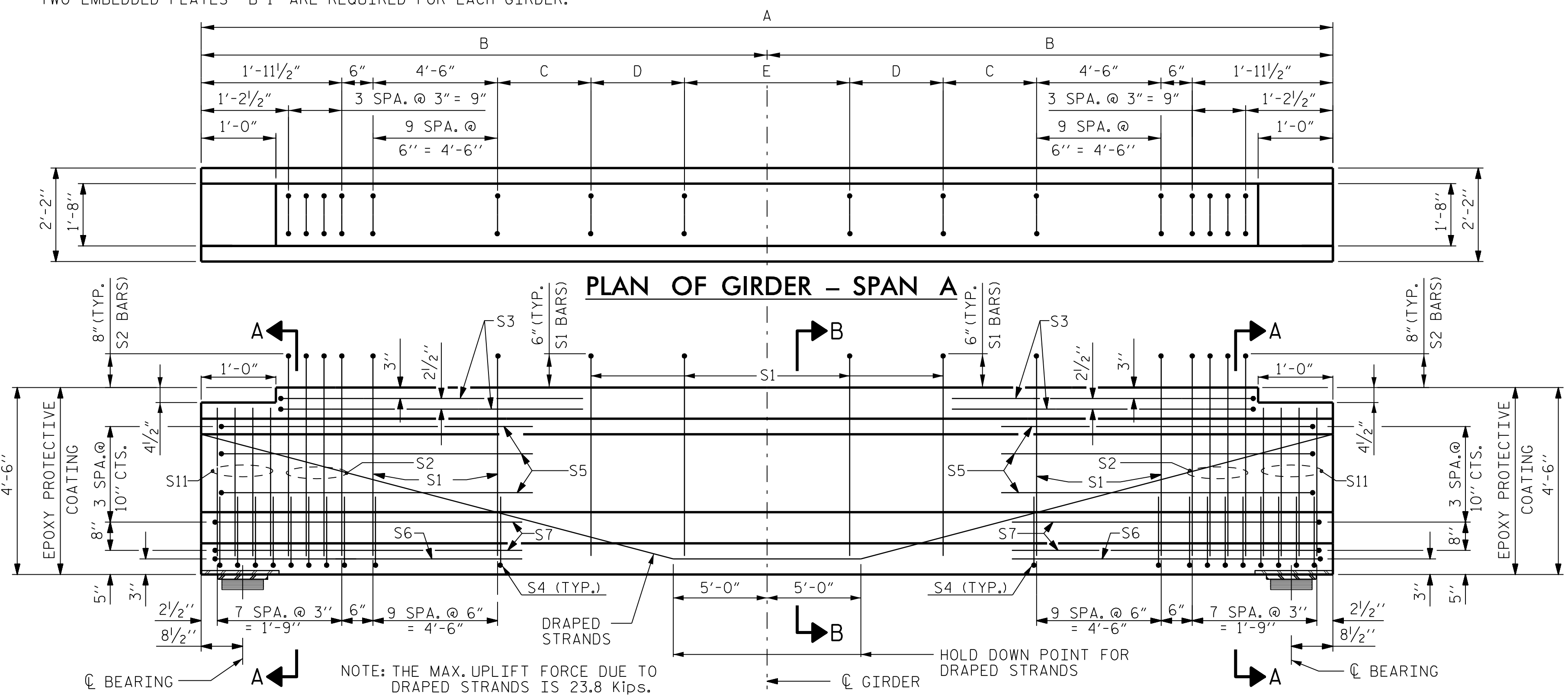
PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDERS A2, A3, A4 & A5



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDERS A1 & A6



ELEVATION OF GIRDER - SPAN A

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

DRAWN BY : T. DETMERS DATE : 7-17
 CHECKED BY : D. DELK DATE : 7-17
 DESIGN ENGINEER : S. PHAN DATE : 7-17

PLANS PREPARED BY : **PARSONS**
 5540 CenterView Drive, Suite 217
 Raleigh, NC 27606-3386
 NC LICENSE No. F-0246
 FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
 029979
 S. PHAN, D. STATE

PROJECT NO. I-4729A
 POLK COUNTY
 STATION: 21+44.22 -RP F-

SHEET 1 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER SPAN A					
REVISIONS					SHEET No.
No.	BY:	DATE:	No.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 31