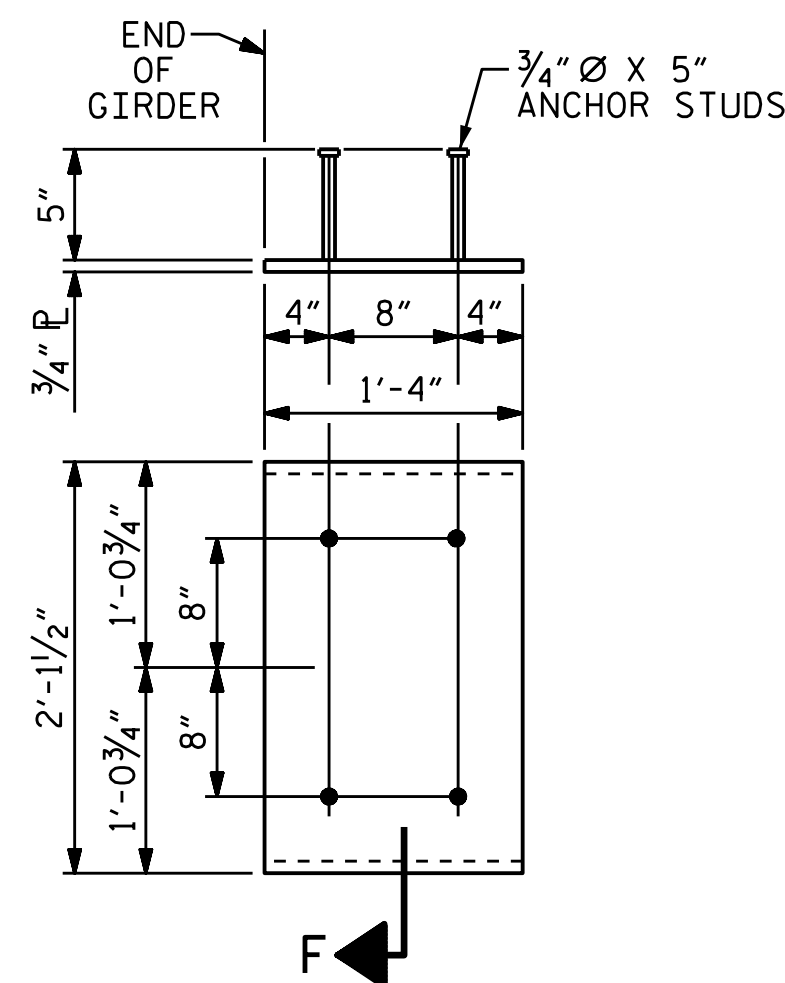


DETAIL "A"



EMBEDDED PLATE "B-1" DETAILS
FOR AASHTO TYPE IV GIRDER
(2 REQ'D PER GIRDER)

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.

ALL REINFORCING STEEL SHALL BE GRADE 60.

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.

AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING 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 4,000 PSI FOR SPAN A AND 5,800 FOR SPANS B AND C.

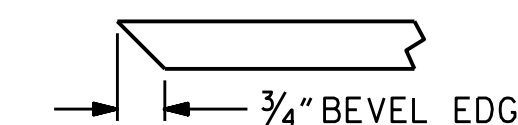
DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".

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

DEAD LOAD DEFLECTION TABLE FOR GIRDERS												
0.6" Ø LOW RELAXATION	SPAN A											
	GIRDERS 1 THROUGH 9											
TENTH POINTS	CL BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL BRG.	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.014	0.026	0.036	0.042	0.044	0.042	0.036	0.026	0.014	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.010	0.018	0.025	0.029	0.031	0.029	0.025	0.018	0.010	0.000
FINAL CAMBER	↑	0	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	0

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



SECTION "F"
(SEE NOTES)

DEAD LOAD DEFLECTION TABLE FOR GIRDERS												
0.6" Ø LOW RELAXATION	SPAN B											
	GIRDERS 1 THROUGH 9											
TENTH POINTS	CL BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL BRG.	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.054	0.103	0.141	0.165	0.173	0.165	0.141	0.103	0.054	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.040	0.075	0.102	0.120	0.126	0.120	0.102	0.075	0.040	0.000
FINAL CAMBER	↑	0	3/16"	5/16"	7/16"	9/16"	9/16"	9/16"	7/16"	5/16"	3/16"	0

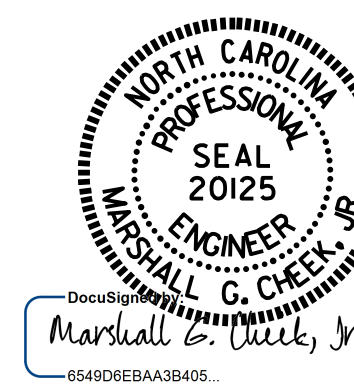
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).
* INCLUDES FUTURE WEARING SURFACE

DEAD LOAD DEFLECTION TABLE FOR GIRDERS												
0.6" Ø LOW RELAXATION	SPAN C											
	GIRDERS 1 THROUGH 9											
TENTH POINTS	CL BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL BRG.	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.054	0.103	0.141	0.165	0.173	0.165	0.141	0.103	0.054	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.038	0.072	0.099	0.116	0.122	0.116	0.099	0.072	0.038	0.000
FINAL CAMBER	↑	0	3/16"	3/8"	1/2"	5/8"	5/8"	5/8"	1/2"	3/8"	3/16"	0

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

PROJECT NO. U-2579C
FORSYTH COUNTY
STATION: 473+70.00 -L-

SHEET 4 OF 4



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
DETAILS
(LEFT LANE)

ASSEMBLED BY : J. K. BOWLES	DATE : 2/23/16
CHECKED BY : N. D'AIUTO	DATE : 3/17/16
DRAWN BY : ELR 11/91	REV. 10/1/11 MAA/GM
CHECKED BY : GRP 11/91	REV. 1/15 MAA/TMG
	REV. 2/15 MAA/TMG

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S3-14	
1			3			TOTAL SHEETS 33	
2			4				