

**SECTION "F"**  
(SEE NOTES)

**EMBEDDED PLATE "B-1" DETAILS  
FOR AASHTO TYPE III 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 4,600 PSI. FOR SPANS A & C AND 5,600 PSI. FOR SPAN B

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

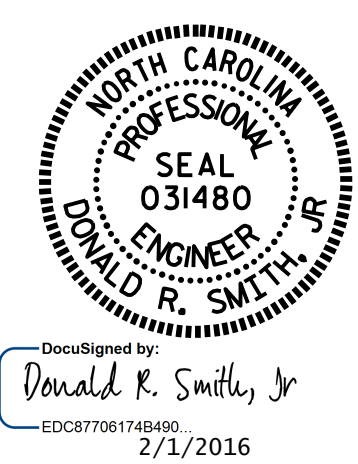
THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																							
0.6" Ø LOW RELAXATION	SPAN A & SPAN C																						
	GIRDERS 1 & 4											GIRDERS 2 & 3											
	TENTH POINTS	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.0
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.034	0.065	0.088	0.103	0.109	0.103	0.088	0.065	0.034	0.000	0.000	0.034	0.065	0.088	0.103	0.109	0.103	0.088	0.065	0.034	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.020	0.038	0.052	0.061	0.064	0.061	0.052	0.038	0.020	0.000	0.000	0.023	0.044	0.060	0.070	0.074	0.070	0.060	0.044	0.023	0.000
FINAL CAMBER	↑	0	3/16"	5/16"	7/16"	1/2"	9/16"	1/2"	7/16"	5/16"	3/16"	0	0	1/8"	1/4"	5/16"	3/8"	7/16"	3/8"	5/16"	1/4"	1/8"	0
0.6" Ø LOW RELAXATION	SPAN B																						
	GIRDERS 1 & 4											GIRDERS 2 & 3											
	TENTH POINTS	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.0
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.045	0.086	0.118	0.138	0.145	0.138	0.118	0.086	0.045	0.000	0.000	0.045	0.086	0.118	0.138	0.145	0.138	0.118	0.086	0.045	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.026	0.050	0.068	0.080	0.084	0.080	0.068	0.050	0.026	0.000	0.000	0.030	0.057	0.078	0.092	0.096	0.092	0.078	0.057	0.030	0.000
FINAL CAMBER	↑	0	1/4"	7/16"	5/8"	11/16"	3/4"	11/16"	5/8"	7/16"	1/4"	0	0	3/16"	3/8"	1/2"	9/16"	5/8"	3/4"	1/2"	3/8"	1/4"	0

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

PROJECT NO. B-5142  
IREDELL COUNTY  
STATION: 22+06.00 -L-

SHEET 3 OF 3



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

ASSEMBLED BY : K.D. LAYNE	DATE : 4-29-15
CHECKED BY : J.D. HAWK	DATE : 5-12-15
DRAWN BY : ELR 11/91	REV. 10/1/11
CHECKED BY : GRP 11/91	REV. 1/15
MAA/GM	DESIGN ENGINEER OF RECORD:
MAA/TMG	T. H. CARROLL
MAA/TMG	DATE : 8-18-15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
	1			3			S-14
	2			4			TOTAL SHEETS 38