

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

NOTES

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 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.

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

BEVEL EDGES OF PLATE "B-1" TO GIVE CLOSE FIT BUT NOT TIGHT FIT TO STEEL CASTING FORM.

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 6,400 PSI FOR SPANS A & C GIRDERS AND NOT LESS THAN 5,000 PSI FOR SPAN B GIRDERS.

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.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" Ø LOW RELAXATION	SPANS A & C												SPAN B									
	GIRDERS A1, A4, C1, & C4												GIRDERS B1 & B4									
	TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.016	0.030	0.041	0.048	0.050	0.048	0.041	0.030	0.016	0.000	0.000	0.024	0.045	0.062	0.072	0.076	0.072	0.062	0.045	0.024	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	-0.006	-0.013	-0.019	-0.022	-0.023	-0.022	-0.019	-0.013	-0.006	0.000	0.000	-0.010	-0.020	-0.028	-0.033	-0.035	-0.033	-0.028	-0.020	-0.010	0.000
FINAL CAMBER ↑	0"	1/8"	3/16"	1/4"	5/16"	5/16"	5/16"	1/4"	3/16"	1/8"	0"	0"	3/16"	5/16"	7/16"	7/16"	1/2"	7/16"	7/16"	5/16"	3/16"	0"

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

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" Ø LOW RELAXATION	SPANS A & C												SPAN B									
	GIRDERS A2, A3, C2, & C3												GIRDERS B2 & B3									
	TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.016	0.030	0.041	0.048	0.050	0.048	0.041	0.030	0.016	0.000	0.000	0.024	0.045	0.062	0.072	0.076	0.072	0.062	0.045	0.024	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	-0.008	-0.016	-0.023	-0.027	-0.028	-0.027	-0.023	-0.016	-0.008	0.000	0.000	-0.012	-0.024	-0.034	-0.040	-0.042	-0.040	-0.034	-0.024	-0.012	0.000
FINAL CAMBER ↑	0"	1/8"	3/16"	3/16"	1/4"	1/4"	1/4"	3/16"	3/16"	1/8"	0"	0"	1/8"	1/4"	5/16"	3/8"	7/16"	3/8"	5/16"	1/4"	1/8"	0"

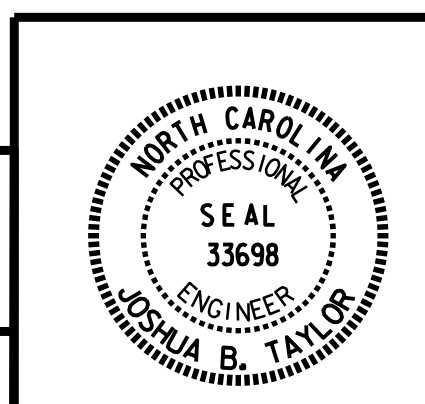
* INCLUDES FUTURE WEARING SURFACE
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. R-2915B
ASHE COUNTY
STATION: 198+64.50 -L-

SHEET 3 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AASHTO TYPE II
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
DETAILS
(NBL)



CDM Smith
4000 Glenwood Avenue, Suite 400
Raleigh, NC 27612-3228
NC COA No. F-1255

CDM SMITH
DRAWN BY : B. WADSWORTH DATE : 06-15 DWG. No.
CHECKED BY : J. TAYLOR DATE : 06-15
DESIGN ENGINEER : J. TAYLOR DATE : 06-15

REVISIONS						SHEET No.
No.	BY:	DATE:	No.	BY:	DATE:	S02-15
1			3			TOTAL SHEETS
2			4			34

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