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DEAD LOAD DEFLECTION TABLE

0.6" Ø LOW RELAXATION	SPANS A & C											SPAN B										
	EXTERIOR GIRDERS											EXTERIOR GIRDERS										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.017	0.032	0.044	0.052	0.055	0.052	0.044	0.032	0.017	0.0	0.0	0.063	0.118	0.162	0.190	0.199	0.190	0.162	0.118	0.063	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.006	0.013	0.018	0.022	0.023	0.022	0.018	0.013	0.006	0.0	0.0	0.038	0.074	0.103	0.121	0.128	0.121	0.103	0.074	0.038	0.0
FINAL CAMBER ↑	0.0	1/8"	1/4"	5/16"	3/8"	3/8"	3/8"	5/16"	1/4"	1/8"	0.0	0.0	5/16"	1/2"	11/16"	13/16"	7/8"	13/16"	11/16"	1/2"	5/16"	0.0
	INTERIOR GIRDERS											INTERIOR GIRDERS										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.017	0.032	0.044	0.052	0.055	0.052	0.044	0.032	0.017	0.0	0.0	0.063	0.118	0.162	0.190	0.199	0.190	0.162	0.118	0.063	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.007	0.014	0.020	0.024	0.025	0.024	0.020	0.014	0.007	0.0	0.0	0.041	0.082	0.114	0.134	0.141	0.134	0.114	0.082	0.041	0.0
FINAL CAMBER ↑	0.0	1/8"	3/16"	5/16"	5/16"	3/8"	5/16"	5/16"	3/16"	1/8"	0.0	0.0	1/4"	7/16"	9/16"	11/16"	11/16"	11/16"	9/16"	7/16"	1/4"	0.0

* INCLUDES FUTURE WEARING SURFACE

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

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 AT EXPANSION BEARINGS.

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.

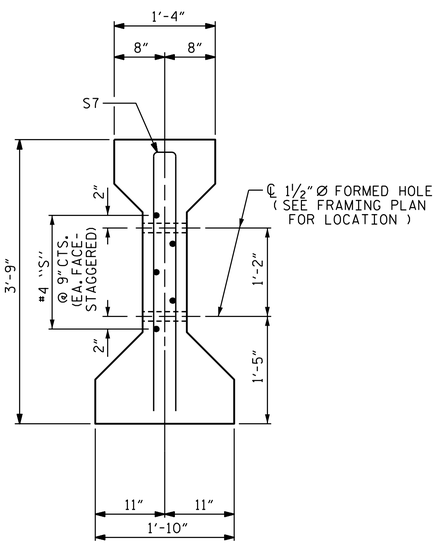
THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4500 PSI FOR SPAN A & C AND 6300 PSI FOR SPAN B.

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".

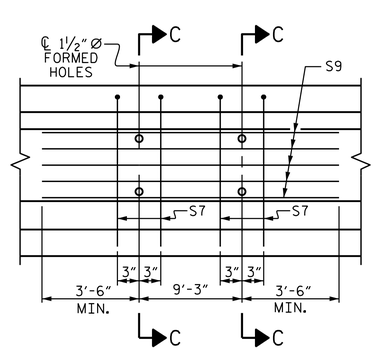
ALL REINFORCING STEEL SHALL BE GRADE 60.

AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

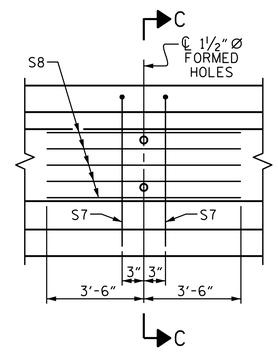


SECTION C-C

(S1 BARS NOT SHOWN)



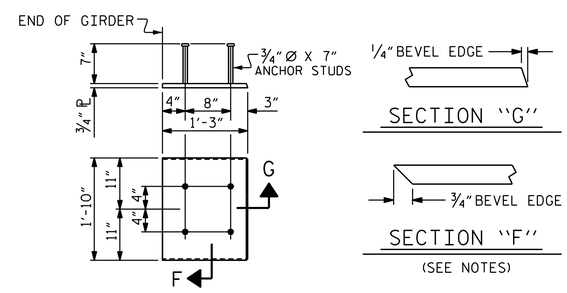
INTERIOR GIRDER



EXTERIOR GIRDER

PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDERS



EMBEDDED PLATE "B-1" DETAILS

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

PROJECT NO. I-0914BB

WARREN COUNTY

STATION: 197+54.33 -L-

SHEET 3 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS

(NORTHBOUND LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-49
1			3			TOTAL SHEETS
2			4			72

PLANS PREPARED BY:
Hatch Mott MacDonald
PO Box 700 Fuquay-Varina, NC 27526
(919) 552-2253
www.hatchmott.com
LICENSE NO. F-0669

NORTH CAROLINA PROFESSIONAL SEAL 20532 ENGINEER
J. E. MONDOLFI
9FD29B1FC2FB4D0... 10/17/2014

DRAWN BY: J. T. WILLIAMS DATE: 4-2014
CHECKED BY: J. E. MONDOLFI DATE: 4-2014
DESIGN ENGINEER OF RECORD: J. E. MONDOLFI DATE: 4-2014

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