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DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	SPAN A																					
0.6″ Ø LOW RELAXATION	GIRDER AG1 & AG4											GIRDER AG2 & AG3										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0
CAMBER (GIRDER ALONE IN PLACE) ↑	0	0.081	0.143	0.185	0.210	0.218	0.210	0.185	0.143	0.081	0	0	0.081	0.143	0.185	0.210	0.218	0.210	0.185	0.143	0.081	0
✳ DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.028	0.054	0.074	0.087	0.091	0.087	0.074	0.054	0.028	0	0	0.029	0.056	0.078	0.091	0.096	0.091	0.078	0.056	0.029	0
FINAL CAMBER ↑	0	5/8″	11/16″	15/16″	1 1/2″	1 1/2″	1 1/2″	1 5/16″	11/16″	5/8″	0	0	5/8″	11/16″	15/16″	1 7/16″	1 7/16″	1 7/16″	1 5/16″	11/16″	5/8″	0

	SPAN B																					
0.6″ Ø LOW RELAXATION	GIRDER BG1 & BG4											GIRDER BG2 & BG3										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0
CAMBER (GIRDER ALONE IN PLACE) ↑	0	0.043	0.074	0.095	0.107	0.111	0.107	0.095	0.074	0.043	0	0	0.043	0.074	0.095	0.107	0.111	0.107	0.095	0.074	0.043	0
✳ DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.015	0.029	0.040	0.047	0.049	0.047	0.040	0.029	0.015	0	0	0.015	0.030	0.042	0.049	0.052	0.049	0.042	0.030	0.015	0
FINAL CAMBER ↑	0	5/16″	9/16″	11/16″	3/4″	3/4″	3/4″	11/16″	9/16″	5/16″	0	0	5/16″	1/2″	5/8″	11/16″	11/16″	11/16″	5/8″	1/2″	5/16″	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

	SPAN C & D																					
0.6″ Ø LOW RELAXATION	GIRDERS CG1, CG4, DG1, & DG4																					
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0	0.070	0.134	0.189	0.237	0.277	0.309	0.334	0.351	0.362	0.365	0.362	0.351	0.334	0.309	0.277	0.237	0.189	0.134	0.070	0	
✳ DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.025	0.051	0.076	0.099	0.119	0.136	0.150	0.160	0.166	0.168	0.166	0.160	0.150	0.136	0.119	0.099	0.076	0.051	0.025	0	
FINAL CAMBER ↑	0	9/16″	1″	1 3/8″	1 5/8″	1 7/8″	2 1/16″	2 3/16″	2 5/16″	2 3/8″	2 3/8″	2 3/8″	2 5/16″	2 3/16″	2 1/16″	1 7/8″	1 5/8″	1 3/8″	1″	9/16″	0	
0.6″ Ø LOW RELAXATION	GIRDERS CG2, CG3, DG2, & DG3																					
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0	0.070	0.134	0.189	0.237	0.277	0.309	0.334	0.351	0.362	0.365	0.362	0.351	0.334	0.309	0.277	0.237	0.189	0.134	0.070	0	
✳ DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.026	0.054	0.080	0.104	0.125	0.143	0.158	0.168	0.175	0.177	0.175	0.168	0.158	0.143	0.125	0.104	0.080	0.054	0.026	0	
FINAL CAMBER ↑	0	9/16″	15/16″	1 5/16″	1 5/8″	1 13/16″	2″	2 1/8″	2 3/16″	2 1/4″	2 1/4″	2 1/4″	2 3/16″	2 1/8″	2″	1 13/16″	1 5/8″	1 5/16″	15/16″	9/16″	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. U-2579B
FORSYTH COUNTY
STATION: 28+50.16 -Y5-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE

DEAD LOAD DEFLECTION AND GIRDER CAMBER

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LICENSURE NO. C-2521

NORTH CAROLINA PROFESSIONAL SEAL 029908 ENGINEER MARK A. AVERETTE
DocuSigned by: Mark Averette
8/15/2014

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-682
1			3					TOTAL SHEETS
2			4					S-707

DRAWN BY: R. SEALEY DATE: 3-14
CHECKED BY: M. AVERETTE DATE: 3-14
DESIGN ENGINEER OF RECORD: M. AVERETTE DATE: 3-14

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