

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" Ø LOW RELAXATION	SPAN A																				
	GIRDER 1 (EXTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.052	0.102	0.149	0.193	0.231	0.264	0.290	0.309	0.320	0.324	0.320	0.309	0.290	0.264	0.231	0.193	0.149	0.102	0.052	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.026	0.052	0.076	0.098	0.118	0.134	0.148	0.157	0.163	0.165	0.163	0.157	0.148	0.134	0.118	0.098	0.076	0.052	0.026	0.000
FINAL CAMBER ↑	0"	5/16"	5/8"	7/8"	1 1/8"	1 3/8"	1 9/16"	1 11/16"	1 13/16"	1 7/8"	1 15/16"	1 7/8"	1 13/16"	1 11/16"	1 9/16"	1 3/8"	1 1/8"	7/8"	5/8"	5/16"	0"
0.6" Ø LOW RELAXATION	GIRDER 2 (INTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.052	0.102	0.149	0.193	0.231	0.264	0.290	0.309	0.320	0.324	0.320	0.309	0.290	0.264	0.231	0.193	0.149	0.102	0.052	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.029	0.057	0.084	0.109	0.130	0.149	0.163	0.174	0.181	0.183	0.181	0.174	0.163	0.149	0.130	0.109	0.084	0.057	0.029	0.000
FINAL CAMBER ↑	0"	1/4"	9/16"	13/16"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	13/16"	9/16"	1/4"	0"
0.6" Ø LOW RELAXATION	GIRDER 3 (INTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.052	0.102	0.149	0.193	0.231	0.264	0.290	0.309	0.320	0.324	0.320	0.309	0.290	0.264	0.231	0.193	0.149	0.102	0.052	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.029	0.057	0.084	0.109	0.130	0.149	0.164	0.174	0.181	0.183	0.181	0.174	0.164	0.149	0.130	0.109	0.084	0.057	0.029	0.000
FINAL CAMBER ↑	0"	1/4"	9/16"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	9/16"	1/4"	0"
0.6" Ø LOW RELAXATION	GIRDER 4 (INTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.052	0.102	0.149	0.193	0.231	0.264	0.290	0.309	0.320	0.324	0.320	0.309	0.290	0.264	0.231	0.193	0.149	0.102	0.052	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.029	0.057	0.084	0.109	0.130	0.149	0.164	0.174	0.181	0.183	0.181	0.174	0.164	0.149	0.130	0.109	0.084	0.057	0.029	0.000
FINAL CAMBER ↑	0"	1/4"	9/16"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	9/16"	1/4"	0"
0.6" Ø LOW RELAXATION	GIRDER 5 (EXTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.052	0.102	0.149	0.193	0.231	0.264	0.290	0.309	0.320	0.324	0.320	0.309	0.290	0.264	0.231	0.193	0.149	0.102	0.052	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.025	0.049	0.071	0.092	0.111	0.126	0.139	0.148	0.153	0.155	0.153	0.148	0.139	0.126	0.111	0.092	0.071	0.049	0.025	0.000
FINAL CAMBER ↑	0"	5/16"	5/8"	15/16"	1 3/16"	1 7/16"	1 5/8"	1 13/16"	1 15/16"	2"	2"	2"	1 15/16"	1 13/16"	1 5/8"	1 7/16"	1 3/16"	15/16"	5/8"	5/16"	0"
0.6" Ø LOW RELAXATION	SPAN B																				
	GIRDER 1 (EXTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.124	0.181	0.234	0.281	0.321	0.353	0.375	0.390	0.394	0.390	0.375	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.036	0.072	0.105	0.136	0.163	0.186	0.205	0.218	0.226	0.229	0.226	0.218	0.205	0.186	0.163	0.136	0.105	0.072	0.036	0.000
FINAL CAMBER ↑	0"	5/16"	5/8"	15/16"	1 3/16"	1 7/16"	1 5/8"	1 3/4"	1 7/8"	1 15/16"	2"	1 15/16"	1 7/8"	1 3/4"	1 5/8"	1 7/16"	1 3/16"	15/16"	5/8"	5/16"	0"
0.6" Ø LOW RELAXATION	GIRDER 2 (INTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.124	0.181	0.234	0.281	0.321	0.353	0.375	0.390	0.394	0.390	0.375	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.040	0.079	0.116	0.150	0.180	0.206	0.226	0.241	0.250	0.253	0.250	0.241	0.226	0.206	0.180	0.150	0.116	0.079	0.040	0.000
FINAL CAMBER ↑	0"	1/4"	9/16"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	9/16"	1/4"	0"
0.6" Ø LOW RELAXATION	GIRDER 3 (INTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.124	0.181	0.234	0.281	0.321	0.353	0.375	0.390	0.394	0.390	0.375	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.040	0.079	0.116	0.150	0.180	0.206	0.226	0.241	0.250	0.253	0.250	0.241	0.226	0.206	0.180	0.150	0.116	0.079	0.040	0.000
FINAL CAMBER ↑	0"	1/4"	9/16"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	9/16"	1/4"	0"
0.6" Ø LOW RELAXATION	GIRDER 4 (INTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.124	0.181	0.234	0.281	0.321	0.353	0.375	0.390	0.394	0.390	0.375	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.040	0.079	0.116	0.150	0.180	0.206	0.226	0.241	0.250	0.253	0.250	0.241	0.226	0.206	0.180	0.150	0.116	0.079	0.040	0.000
FINAL CAMBER ↑	0"	1/4"	9/16"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	9/16"	1/4"	0"
0.6" Ø LOW RELAXATION	GIRDER 5 (EXTERIOR)																				
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.124	0.181	0.234	0.281	0.321	0.353	0.375	0.390	0.394	0.390	0.375	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.034	0.067	0.098	0.127	0.152	0.173	0.190	0.203	0.211	0.213	0.211	0.203	0.190	0.173	0.152	0.127	0.098	0.067	0.034	0.000
FINAL CAMBER ↑	0"	3/8"	11/16"	1"	1 5/16"	1 9/16"	1 3/4"	1 15/16"	2 1/16"	2 1/8"	2 3/16"	2 1/8"	2 1/16"	1 15/16"	1 3/4"	1 9/16"	1 5/16"	1"	11/16"	3/8"	0"

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

DRAWN BY : MAL DATE : 11/2016
CHECKED BY : JMR DATE : 12/2016
DESIGN ENGINEER OF RECORD: MAL DATE : 11/2016

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



PROJECT NO. R-2707C
CLEVELAND COUNTY
STATION: 384+50.00 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
DEAD LOAD DEFLECTION
SPANS A & B
LEFT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-17
1			3			TOTAL SHEETS
2			4			36