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DEAD LOAD DEFLECTION TABLE FOR GIRDERS

SPAN A

0.6" Ø LOW RELAXATION — GIRDER 1 (EXTERIOR)

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	0.029	0.058	0.085	0.109	0.131	0.150	0.165	0.175	0.182	0.184	0.182	0.175	0.165	0.150	0.131	0.109	0.085	0.058	0.029	0.000
FINAL CAMBER ↑	0"	1/4"	1/2"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 5/8"	1 11/16"	1 5/8"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	1/2"	1/4"	0"

GIRDER 2 (INTERIOR)

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	0.032	0.064	0.094	0.121	0.146	0.166	0.183	0.195	0.202	0.204	0.202	0.195	0.183	0.166	0.146	0.121	0.094	0.064	0.032	0.000
FINAL CAMBER ↑	0"	1/4"	7/16"	11/16"	7/8"	1"	1 3/16"	1 5/16"	1 3/8"	1 7/16"	1 7/16"	1 7/16"	1 3/8"	1 5/16"	1 3/16"	1"	7/8"	11/16"	7/16"	1/4"	0"

GIRDER 3 (INTERIOR)

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	0.032	0.064	0.094	0.121	0.146	0.166	0.183	0.195	0.202	0.204	0.202	0.195	0.183	0.166	0.146	0.121	0.094	0.064	0.032	0.000
FINAL CAMBER ↑	0"	1/4"	7/16"	11/16"	7/8"	1"	1 3/16"	1 5/16"	1 3/8"	1 7/16"	1 7/16"	1 7/16"	1 3/8"	1 5/16"	1 3/16"	1"	7/8"	11/16"	7/16"	1/4"	0"

GIRDER 4 (EXTERIOR)

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	0.028	0.056	0.082	0.105	0.127	0.144	0.159	0.169	0.175	0.178	0.175	0.169	0.159	0.144	0.127	0.105	0.082	0.056	0.028	0.000
FINAL CAMBER ↑	0"	5/16"	9/16"	13/16"	1 1/16"	1 1/4"	1 7/16"	1 9/16"	1 11/16"	1 3/4"	1 3/4"	1 3/4"	1 11/16"	1 9/16"	1 7/16"	1 1/4"	1 1/16"	13/16"	9/16"	5/16"	0"

SPAN B

0.6" Ø LOW RELAXATION — GIRDER 1 (EXTERIOR)

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	0.376	0.390	0.394	0.390	0.376	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.041	0.080	0.118	0.152	0.182	0.208	0.229	0.244	0.253	0.256	0.253	0.244	0.229	0.208	0.182	0.152	0.118	0.080	0.041	0.000
FINAL CAMBER ↑	0"	1/4"	1/2"	3/4"	1"	1 3/16"	1 3/8"	1 1/2"	1 9/16"	1 5/8"	1 5/8"	1 5/8"	1 9/16"	1 1/2"	1 3/8"	1 3/16"	1"	3/4"	1/2"	1/4"	0"

GIRDER 2 (INTERIOR)

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	0.376	0.390	0.394	0.390	0.376	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.045	0.089	0.130	0.168	0.202	0.230	0.253	0.270	0.280	0.283	0.280	0.270	0.253	0.230	0.202	0.168	0.130	0.089	0.045	0.000
FINAL CAMBER ↑	0"	3/16"	7/16"	5/8"	13/16"	15/16"	1 1/16"	1 3/16"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 3/16"	1 1/16"	15/16"	13/16"	5/8"	7/16"	3/16"	0"

GIRDER 3 (INTERIOR)

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	0.376	0.390	0.394	0.390	0.376	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.045	0.089	0.130	0.168	0.202	0.230	0.253	0.270	0.280	0.283	0.280	0.270	0.253	0.230	0.202	0.168	0.130	0.089	0.045	0.000
FINAL CAMBER ↑	0"	3/16"	7/16"	5/8"	13/16"	15/16"	1 1/16"	1 3/16"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 3/16"	1 1/16"	15/16"	13/16"	5/8"	7/16"	3/16"	0"

GIRDER 4 (EXTERIOR)

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	0.376	0.390	0.394	0.390	0.376	0.353	0.321	0.281	0.234	0.181	0.124	0.063	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.039	0.077	0.112	0.145	0.174	0.198	0.218	0.232	0.241	0.244	0.241	0.232	0.218	0.198	0.174	0.145	0.112	0.077	0.039	0.000
FINAL CAMBER ↑	0"	5/16"	9/16"	13/16"	1 1/16"	1 5/16"	1 1/2"	1 5/8"	1 3/4"	1 13/16"	1 13/16"	1 13/16"	1 3/4"	1 5/8"	1 1/2"	1 5/16"	1 1/16"	13/16"	9/16"	5/16"	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).

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

SHEET 1 OF 2

NORTH CAROLINA PROFESSIONAL SEAL 039313 ENGINEER JUSTIN MARK ROBINSON
DocuSigned by: Justin Robinson
3/9/2017

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

DEAD LOAD DEFLECTION SPANS A & B

RIGHT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-17
1			3			TOTAL SHEETS
2			4			36

DRAWN BY : PDS DATE : 11/2016
CHECKED BY : TLC DATE : 01/2017
DESIGN ENGINEER OF RECORD: MAL DATE : 11/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3/8/2017
X:\P\1031709001 R-2707C Bridges\Structures\Working DGN\402_033_R2707C_SMU_DL17_S2-17.dgn
leblancm

STR. #2