

DEAD LOAD DEFLECTION TABLE FOR GIRDERS OF SPAN A

0.6" Ø LOW-RELAXATION		GIRDER 1																			
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.082	0.106	0.127	0.145	0.159	0.169	0.176	0.178	0.176	0.169	0.159	0.145	0.137	0.106	0.082	0.056	0.028	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.012	0.024	0.035	0.046	0.055	0.063	0.069	0.074	0.076	0.076	0.076	0.074	0.069	0.063	0.054	0.046	0.034	0.023	0.012	0.000
FINAL CAMBER ↑	0	3/16"	3/8"	9/16"	3/4"	7/8"	1"	1 1/16"	1 1/8"	1 3/16"	1 3/8"	1 3/8"	1 1/8"	1 1/16"	1"	7/8"	3/4"	9/16"	3/8"	3/16"	0

0.6" Ø LOW-RELAXATION		GIRDER 2																			
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.082	0.106	0.127	0.145	0.159	0.169	0.176	0.176	0.176	0.169	0.159	0.145	0.127	0.106	0.082	0.056	0.028	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.015	0.030	0.044	0.058	0.069	0.080	0.087	0.094	0.096	0.098	0.096	0.093	0.086	0.079	0.068	0.057	0.043	0.029	0.015	0.000
FINAL CAMBER ↑	0	3/16"	5/16"	7/16"	9/16"	1 1/16"	1 3/16"	7/8"	1 5/16"	1 5/16"	1 5/16"	1 5/16"	1 5/16"	7/8"	1 3/16"	1 1/16"	9/16"	7/16"	5/16"	3/16"	0

0.6" Ø LOW-RELAXATION		GIRDER 3																			
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.082	0.106	0.127	0.145	0.159	0.169	0.176	0.178	0.176	0.169	0.159	0.145	0.127	0.106	0.082	0.056	0.028	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.017	0.033	0.049	0.065	0.077	0.090	0.098	0.106	0.108	0.111	0.108	0.105	0.097	0.089	0.077	0.065	0.049	0.033	0.016	0.000
FINAL CAMBER ↑	0	1/8"	1/4"	3/8"	1/2"	5/8"	1 1/16"	3/4"	3/4"	1 3/16"	1 3/16"	1 3/16"	3/4"	3/4"	1 1/16"	5/8"	1/2"	3/8"	1/4"	1/8"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS OF SPAN B

0.6" Ø LOW-RELAXATION		GIRDER 1																			
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.082	0.106	0.127	0.145	0.159	0.169	0.176	0.178	0.176	0.169	0.159	0.145	0.127	0.106	0.082	0.056	0.028	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.012	0.024	0.036	0.048	0.057	0.066	0.072	0.077	0.079	0.081	0.079	0.077	0.072	0.066	0.057	0.048	0.036	0.024	0.012	0.000
FINAL CAMBER ↑	0	3/16"	3/8"	9/16"	1 1/16"	1 3/16"	1 5/16"	1 1/16"	1 1/8"	1 3/16"	1 3/16"	1 3/16"	1 1/8"	1 1/16"	1 5/16"	7/8"	1 1/16"	9/16"	3/8"	3/16"	0

0.6" Ø LOW-RELAXATION		GIRDER 2																			
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.029	0.056	0.083	0.107	0.128	0.146	0.161	0.171	0.178	0.180	0.178	0.171	0.161	0.146	0.128	0.107	0.083	0.056	0.029	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.015	0.031	0.045	0.060	0.072	0.083	0.090	0.098	0.100	0.103	0.100	0.098	0.090	0.083	0.072	0.060	0.045	0.031	0.015	0.000
FINAL CAMBER ↑	0	3/16"	5/16"	7/16"	9/16"	1 1/16"	3/4"	1 3/16"	7/8"	1 5/16"	1 5/16"	1 5/16"	7/8"	1 3/16"	3/4"	1 1/16"	9/16"	7/16"	5/16"	3/16"	0

0.6" Ø LOW-RELAXATION		GIRDER 3																				
TWENTIETH POINTS	BRG.	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	BRG.	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.029	0.056	0.083	0.107	0.128	0.146	0.161	0.171	0.178	0.1860	0.178	0.171	0.161	0.146	0.128	0.107	0.083	0.056	0.029	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.017	0.036	0.051	0.068	0.081	0.094	0.102	0.110	0.113	0.116	0.113	0.110	0.102	0.094	0.080	0.067	0.051	0.034	0.017	0.000	
FINAL CAMBER ↑	0	1/8"	1/4"	3/8"	1/2"	9/16"	5/8"	1 1/16"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1 1/16"	5/8"	9/16"	1/2"	3/8"	1/4"	1/8"	0

* INCLUDES FUTURE WEARING SURFACE IN SUPERIMPOSED DEAD LOAD.

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

PROJECT NO. U-5748
WAKE COUNTY
 STATION: 24+88.00 -L-

SHEET 1 OF 2

DRAWN BY : D.R. DRUM DATE : 06/2021
 CHECKED BY : J.C. MORRISON DATE : 06/2021
 DESIGNED BY : G.L. HAMILTON DATE : 11/2020
 DESIGN CHECKED BY : J.C. MORRISON DATE : 11/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUPERSTRUCTURE					
DEAD LOAD DEFLECTIONS (NORTHBOUND LANES)					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					TOTAL SHEETS 119

DATE: 2/10/2023 TIME: 12:36:07 PM
 USER: c:\pwworking\john.morrison\AECOM\DS21\MA_2020\Documents\60609754-U-5748-Upon_MIT1900-CAD_615910_CAD\70_MCDOT_TIP\Structures\04_Drawings\401_049_U-5748_S1-U-24_S1(02).DWG