

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" Ø LOW RELAXATION	SPAN B																				
	GIRDER 1 (EXTERIOR)																				
	FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.030	0.059	0.088	0.117	0.144	0.171	0.197	0.219	0.243	0.265	0.284	0.302	0.318	0.332	0.344	0.354	0.362	0.367	0.370	0.372
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.018	0.035	0.053	0.070	0.086	0.102	0.118	0.131	0.146	0.159	0.170	0.181	0.191	0.199	0.206	0.212	0.217	0.220	0.222	0.223
FINAL CAMBER ↑	0"	1/8"	5/16"	7/16"	9/16"	11/16"	13/16"	15/16"	1 1/16"	1 3/16"	1 1/4"	1 3/8"	1 7/16"	1 1/2"	1 5/8"	1 5/8"	1 11/16"	1 3/4"	1 3/4"	1 3/4"	1 13/16"
GIRDER 1 (EXTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.370	0.367	0.362	0.354	0.344	0.332	0.318	0.302	0.284	0.265	0.243	0.219	0.197	0.171	0.144	0.117	0.088	0.059	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.222	0.220	0.217	0.212	0.206	0.199	0.191	0.181	0.170	0.159	0.146	0.131	0.118	0.102	0.086	0.070	0.053	0.035	0.018	0.000	
FINAL CAMBER ↑	1 3/4"	1 3/4"	1 3/4"	1 11/16"	1 5/8"	1 5/8"	1 1/2"	1 7/16"	1 3/8"	1 1/4"	1 3/16"	1 1/16"	15/16"	13/16"	11/16"	9/16"	7/16"	5/16"	1/8"	0"	
GIRDER 2 (INTERIOR)																					
FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.030	0.059	0.088	0.117	0.144	0.171	0.197	0.219	0.243	0.265	0.284	0.302	0.318	0.332	0.344	0.354	0.362	0.367	0.370	0.372
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.020	0.039	0.059	0.078	0.096	0.114	0.131	0.146	0.163	0.177	0.190	0.202	0.212	0.222	0.230	0.236	0.241	0.245	0.247	0.248
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	7/16"	9/16"	11/16"	13/16"	7/8"	1"	1 1/16"	1 1/8"	1 3/16"	1 1/4"	1 5/16"	1 3/8"	1 7/16"	1 7/16"	1 7/16"	1 1/2"	1 1/2"
GIRDER 2 (INTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
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* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.247	0.245	0.241	0.236	0.230	0.222	0.212	0.202	0.190	0.177	0.163	0.146	0.131	0.114	0.096	0.078	0.059	0.039	0.020	0.000	
FINAL CAMBER ↑	1 1/2"	1 7/16"	1 7/16"	1 7/16"	1 3/8"	1 5/16"	1 1/4"	1 3/16"	1 1/8"	1 1/16"	1"	7/8"	13/16"	11/16"	9/16"	7/16"	3/8"	1/4"	1/8"	0"	
GIRDER 3 (INTERIOR)																					
FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.030	0.059	0.088	0.117	0.144	0.171	0.197	0.219	0.243	0.265	0.284	0.302	0.318	0.332	0.344	0.354	0.362	0.367	0.370	0.372
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.020	0.039	0.059	0.078	0.096	0.114	0.131	0.146	0.163	0.177	0.190	0.202	0.212	0.222	0.230	0.236	0.241	0.245	0.247	0.248
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	7/16"	9/16"	11/16"	13/16"	7/8"	1"	1 1/16"	1 1/8"	1 3/16"	1 1/4"	1 5/16"	1 3/8"	1 7/16"	1 7/16"	1 7/16"	1 1/2"	1 1/2"
GIRDER 3 (INTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.370	0.367	0.362	0.354	0.344	0.332	0.318	0.302	0.284	0.265	0.243	0.219	0.197	0.171	0.144	0.117	0.088	0.059	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.247	0.245	0.241	0.236	0.230	0.222	0.212	0.202	0.190	0.177	0.163	0.146	0.131	0.114	0.096	0.078	0.059	0.039	0.020	0.000	
FINAL CAMBER ↑	1 1/2"	1 7/16"	1 7/16"	1 7/16"	1 3/8"	1 5/16"	1 1/4"	1 3/16"	1 1/8"	1 1/16"	1"	7/8"	13/16"	11/16"	9/16"	7/16"	3/8"	1/4"	1/8"	0"	
GIRDER 4 (EXTERIOR)																					
FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.030	0.059	0.088	0.117	0.144	0.171	0.197	0.219	0.243	0.265	0.284	0.302	0.318	0.332	0.344	0.354	0.362	0.367	0.370	0.372
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.018	0.036	0.054	0.071	0.088	0.104	0.120	0.133	0.148	0.161	0.173	0.184	0.194	0.202	0.209	0.215	0.220	0.223	0.225	0.226
FINAL CAMBER ↑	0"	1/8"	1/4"	7/16"	9/16"	11/16"	13/16"	15/16"	1"	1 1/8"	1 1/4"	1 5/16"	1 7/16"	1 1/2"	1 9/16"	1 5/8"	1 11/16"	1 11/16"	1 3/4"	1 3/4"	1 3/4"
GIRDER 4 (EXTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.370	0.367	0.362	0.354	0.344	0.332	0.318	0.302	0.284	0.265	0.243	0.219	0.197	0.171	0.144	0.117	0.088	0.059	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.225	0.223	0.220	0.215	0.209	0.202	0.194	0.184	0.173	0.161	0.148	0.133	0.120	0.104	0.088	0.071	0.054	0.036	0.018	0.000	
FINAL CAMBER ↑	1 3/4"	1 3/4"	1 11/16"	1 11/16"	1 5/8"	1 9/16"	1 1/2"	1 7/16"	1 5/16"	1 1/4"	1 1/8"	1"	15/16"	13/16"	11/16"	9/16"	7/16"	1/4"	1/8"	0"	

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

PROJECT NO. U-5798A
CUMBERLAND COUNTY
STATION: 76+80.00 -L-

SHEET 2 OF 2

DRAWN BY : MRA DATE : 04/2020
CHECKED BY : MKO DATE : 04/2021
DESIGN ENGINEER OF RECORD: RLB DATE : 09/2021

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE DEAD LOAD DEFLECTIONS LEFT LANE						REVISIONS			SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-17		TOTAL SHEETS		
1			3			43				
2			4							