

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" Ø LOW RELAXATION	SPAN A																				
	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	0.061	0.090	0.120	0.148	0.175	0.202	0.225	0.250	0.272	0.292	0.310	0.326	0.341	0.353	0.363	0.371	0.377	0.380	0.381
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.023	0.045	0.067	0.089	0.110	0.130	0.150	0.167	0.185	0.202	0.216	0.230	0.242	0.253	0.262	0.269	0.275	0.280	0.282	0.283
FINAL CAMBER ↑	0"	1/8"	3/16"	1/4"	3/8"	7/16"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1 1/16"	1 1/16"	1 1/8"	1 1/8"	1 3/16"	1 3/16"	1 3/16"
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) ↑	0.380	0.377	0.371	0.363	0.353	0.341	0.326	0.310	0.292	0.272	0.250	0.225	0.202	0.175	0.148	0.120	0.090	0.061	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.282	0.280	0.275	0.269	0.262	0.253	0.242	0.230	0.216	0.202	0.185	0.167	0.150	0.130	0.110	0.089	0.067	0.045	0.023	0.000	
FINAL CAMBER ↑	1 3/16"	1 3/16"	1 1/8"	1 1/8"	1 1/16"	1 1/16"	1"	15/16"	7/8"	13/16"	3/4"	11/16"	5/8"	9/16"	7/16"	3/8"	1/4"	3/16"	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	0.021	0.042	0.062	0.083	0.102	0.121	0.139	0.155	0.172	0.188	0.201	0.214	0.225	0.235	0.244	0.250	0.256	0.260	0.262	0.263
FINAL CAMBER ↑	0"	1/8"	3/16"	5/16"	7/16"	1/2"	5/8"	11/16"	3/4"	7/8"	15/16"	1"	1 1/16"	1 1/8"	1 3/16"	1 3/16"	1 1/4"	1 1/4"	1 5/16"	1 5/16"	1 5/16"
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	
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. ↓	0.262	0.260	0.256	0.250	0.244	0.235	0.225	0.214	0.201	0.188	0.172	0.155	0.139	0.121	0.102	0.083	0.062	0.042	0.021	0.000	
FINAL CAMBER ↑	1 5/16"	1 5/16"	1 1/4"	1 1/4"	1 3/16"	1 3/16"	1 1/8"	1 1/16"	1"	15/16"	7/8"	3/4"	11/16"	5/8"	1/2"	7/16"	5/16"	3/16"	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	0.029	0.057	0.085	0.112	0.139	0.165	0.189	0.211	0.235	0.255	0.274	0.291	0.307	0.320	0.332	0.341	0.348	0.354	0.357	0.358
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.018	0.035	0.052	0.069	0.085	0.101	0.116	0.130	0.144	0.157	0.168	0.179	0.188	0.197	0.204	0.210	0.214	0.217	0.219	0.220
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/16"	1 3/16"	1 1/4"	1 3/8"	1 7/16"	1 1/2"	1 9/16"	1 9/16"	1 5/8"	1 5/8"	1 5/8"	1 5/8"
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) ↑	0.357	0.354	0.348	0.341	0.332	0.320	0.307	0.291	0.274	0.255	0.235	0.211	0.189	0.165	0.139	0.112	0.085	0.057	0.029	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.219	0.217	0.214	0.210	0.204	0.197	0.188	0.179	0.168	0.157	0.144	0.130	0.116	0.101	0.085	0.069	0.052	0.035	0.018	0.000	
FINAL CAMBER ↑	1 5/8"	1 5/8"	1 5/8"	1 9/16"	1 9/16"	1 1/2"	1 7/16"	1 3/8"	1 1/4"	1 3/16"	1 1/16"	1"	7/8"	3/4"	5/8"	1/2"	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	0.027	0.054	0.081	0.107	0.132	0.157	0.181	0.201	0.224	0.243	0.261	0.278	0.292	0.305	0.316	0.325	0.332	0.337	0.340	0.341
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.013	0.026	0.039	0.052	0.065	0.077	0.088	0.098	0.109	0.119	0.127	0.135	0.142	0.149	0.154	0.158	0.162	0.164	0.166	0.166
FINAL CAMBER ↑	0"	3/16"	5/16"	1/2"	11/16"	13/16"	15/16"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 13/16"	1 7/8"	1 15/16"	2"	2 1/16"	2 1/16"	2 1/8"	2 1/8"
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) ↑	0.340	0.337	0.332	0.325	0.316	0.305	0.292	0.278	0.261	0.243	0.224	0.201	0.181	0.157	0.132	0.107	0.081	0.054	0.027	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.166	0.164	0.162	0.158	0.154	0.149	0.142	0.135	0.127	0.119	0.109	0.098	0.088	0.077	0.065	0.052	0.039	0.026	0.013	0.000	
FINAL CAMBER ↑	2 1/8"	2 1/16"	2 1/16"	2"	1 15/16"	1 7/8"	1 13/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 1/4"	1 1/8"	15/16"	13/16"	11/16"	1/2"	5/16"	3/16"	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 1 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
RIGHT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-16
1			3			TOTAL SHEETS
2			4			43