

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	0.116	0.144	0.170	0.196	0.219	0.243	0.264	0.284	0.301	0.317	0.331	0.343	0.353	0.361	0.366	0.369	0.371
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.019	0.038	0.056	0.074	0.092	0.109	0.125	0.140	0.155	0.169	0.181	0.192	0.202	0.211	0.219	0.225	0.230	0.234	0.236	0.237
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	15/16"	1 1/16"	1 1/8"	1 1/4"	1 5/16"	1 3/8"	1 7/16"	1 1/2"	1 9/16"	1 9/16"	1 5/8"	1 5/8"	
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) ↑	0.369	0.366	0.361	0.353	0.343	0.331	0.317	0.301	0.284	0.264	0.243	0.219	0.196	0.170	0.144	0.116	0.088	0.059	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.236	0.234	0.230	0.225	0.219	0.211	0.202	0.192	0.181	0.169	0.155	0.140	0.125	0.109	0.092	0.074	0.056	0.038	0.019	0.000	
FINAL CAMBER ↑	1 5/8"	1 9/16"	1 9/16"	1 9/16"	1 1/2"	1 7/16"	1 3/8"	1 5/16"	1 1/4"	1 1/8"	1 1/16"	15/16"	7/8"	3/4"	5/8"	1/2"	3/8"	1/4"	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	0.116	0.144	0.170	0.196	0.219	0.243	0.264	0.284	0.301	0.317	0.331	0.343	0.353	0.361	0.366	0.369	0.371
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.021	0.041	0.062	0.082	0.101	0.120	0.138	0.154	0.170	0.186	0.199	0.212	0.223	0.233	0.241	0.248	0.253	0.257	0.259	0.260
FINAL CAMBER ↑	0"	1/8"	3/16"	5/16"	7/16"	1/2"	5/8"	11/16"	13/16"	7/8"	15/16"	1"	1 1/16"	1 1/8"	1 3/16"	1 1/4"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 5/16"
GIRDER 2 (INTERIOR)																					
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* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.259	0.257	0.253	0.248	0.241	0.233	0.223	0.212	0.199	0.186	0.170	0.154	0.138	0.120	0.101	0.082	0.062	0.041	0.021	0.000	
FINAL CAMBER ↑	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 1/4"	1 3/16"	1 1/8"	1 1/16"	1"	15/16"	7/8"	13/16"	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	0.030	0.059	0.088	0.116	0.144	0.170	0.196	0.219	0.243	0.264	0.284	0.301	0.317	0.331	0.343	0.353	0.361	0.366	0.369	0.371
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.021	0.041	0.062	0.082	0.101	0.120	0.138	0.154	0.170	0.186	0.199	0.212	0.223	0.233	0.241	0.248	0.253	0.257	0.259	0.260
FINAL CAMBER ↑	0"	1/8"	3/16"	5/16"	7/16"	1/2"	5/8"	11/16"	13/16"	7/8"	15/16"	1"	1 1/16"	1 1/8"	1 3/16"	1 1/4"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 5/16"
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* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.259	0.257	0.253	0.248	0.241	0.233	0.223	0.212	0.199	0.186	0.170	0.154	0.138	0.120	0.101	0.082	0.062	0.041	0.021	0.000	
FINAL CAMBER ↑	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 1/4"	1 3/16"	1 1/8"	1 1/16"	1"	15/16"	7/8"	13/16"	11/16"	5/8"	1/2"	7/16"	5/16"	3/16"	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	0.116	0.144	0.170	0.196	0.219	0.243	0.264	0.284	0.301	0.317	0.331	0.343	0.353	0.361	0.366	0.369	0.371
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.019	0.037	0.055	0.073	0.091	0.107	0.124	0.138	0.153	0.167	0.179	0.190	0.200	0.209	0.216	0.222	0.227	0.231	0.233	0.234
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 5/16"	1 7/16"	1 1/2"	1 1/2"	1 9/16"	1 5/8"	1 5/8"	1 5/8"	1 5/8"
GIRDER 4 (EXTERIOR)																					
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* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.233	0.231	0.227	0.222	0.216	0.209	0.200	0.190	0.179	0.167	0.153	0.138	0.124	0.107	0.091	0.073	0.055	0.037	0.019	0.000	
FINAL CAMBER ↑	1 5/8"	1 5/8"	1 5/8"	1 9/16"	1 1/2"	1 1/2"	1 7/16"	1 5/16"	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"	

\* 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).

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



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

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUPERSTRUCTURE  
DEAD LOAD  
DEFLECTIONS  
RIGHT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S2-17
2			4			TOTAL SHEETS 43