

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																																									
SPAN A																																									
GIRDER #8																																									
FORTIETH POINTS	CL BRG.	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	CL BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.007	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.007	0.007	0.006	0.005	0.004	0.003	0.002	0.001	0.000	-0.001	-0.002	-0.003	-0.004	-0.005	-0.006	-0.006	-0.007	-0.007	-0.006	-0.006	-0.005	-0.004	-0.002	0.000	
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.004	0.009	0.013	0.016	0.020	0.023	0.026	0.029	0.031	0.032	0.033	0.034	0.034	0.034	0.033	0.032	0.030	0.028	0.025	0.023	0.019	0.016	0.013	0.009	0.006	0.003	0.000	-0.003	-0.006	-0.009	-0.011	-0.012	-0.013	-0.014	-0.014	-0.013	-0.011	-0.008	-0.005	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.003	0.003	0.002	0.002	0.001	0.001	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.006	0.012	0.018	0.023	0.028	0.033	0.037	0.041	0.044	0.046	0.047	0.049	0.048	0.048	0.047	0.045	0.043	0.040	0.035	0.032	0.027	0.022	0.018	0.012	0.008	0.003	-0.001	-0.006	-0.010	-0.015	-0.017	-0.019	-0.021	-0.022	-0.021	-0.020	-0.017	-0.013	-0.008	0.000
REQUIRED CAMBER	0	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	1/2"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	1/2"	1/2"	7/16"	3/8"	5/16"	1/4"	3/16"	1/8"	1/16"	1/16"	0	-1/16"	-1/8"	-3/16"	-3/16"	-1/4"	-1/4"	-1/4"	-1/4"	-1/4"	-3/16"	-3/16"	-1/16"	0

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FORTIETH POINTS	CL BRG.	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	CL BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.003	0.007	0.012	0.016	0.022	0.027	0.033	0.039	0.044	0.050	0.056	0.061	0.066	0.071	0.076	0.080	0.083	0.086	0.089	0.090	0.091	0.092	0.092	0.092	0.089	0.087	0.084	0.081	0.077	0.072	0.067	0.061	0.054	0.047	0.040	0.033	0.025	0.017	0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.008	0.017	0.028	0.041	0.054	0.068	0.082	0.097	0.112	0.127	0.142	0.156	0.170	0.182	0.194	0.204	0.214	0.221	0.228	0.233	0.236	0.237	0.237	0.237	0.231	0.226	0.218	0.209	0.199	0.187	0.173	0.158	0.141	0.123	0.105	0.085	0.064	0.043	0.022	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.001	0.002	0.004	0.005	0.007	0.009	0.011	0.013	0.015	0.016	0.018	0.020	0.022	0.023	0.024	0.026	0.027	0.028	0.028	0.029	0.029	0.029	0.029	0.029	0.028	0.027	0.026	0.025	0.024	0.022	0.021	0.019	0.017	0.015	0.013	0.010	0.008	0.005	0.003	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.012	0.026	0.044	0.062	0.083	0.104	0.126	0.149	0.171	0.193	0.216	0.237	0.258	0.276	0.294	0.310	0.324	0.335	0.345	0.352	0.356	0.358	0.358	0.358	0.348	0.340	0.328	0.315	0.300	0.281	0.261	0.238	0.212	0.185	0.158	0.128	0.097	0.065	0.033	0.000
REQUIRED CAMBER	0	1/8"	3/16"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/16"	2 1/16"	2 5/16"	2 9/16"	2 7/8"	3 1/16"	3 5/16"	3 1/2"	3 11/16"	3 7/8"	4"	4 1/8"	4 1/4"	4 1/4"	4 5/16"	4 5/16"	4 5/16"	4 3/16"	4 1/16"	3 15/16"	3 13/16"	3 3/8"	3 3/8"	2 7/8"	2 9/16"	2 1/4"	1 7/8"	1 1/2"	1 3/16"	1 3/16"	3/8"	0	

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM). EXCEPT "REQUIRED CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. R-2566BA
WATAUGA COUNTY
 STATION: 164+30.00 -L-
 SHEET 8 OF 11

9/30/2021 | 1:43 PM EDT

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
DEAD LOAD DEFLECTIONS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TGS ENGINEERS
 706 HILLSBOROUGH STREET
 SUITE 200
 RALEIGH, NC 27603
 PH (919) 773-8887
 CORP. LICENSE NO.: C-0275

DRAWN BY : ZCS DATE : 06/21
 CHECKED BY : MGC DATE : 06/21
 DESIGN ENGINEER OF RECORD: RDE DATE : 09/21