

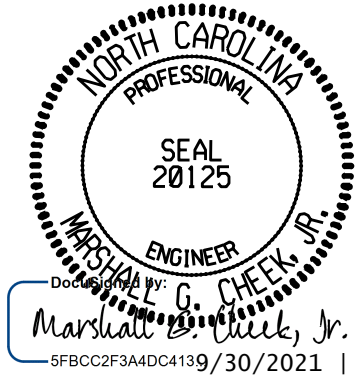
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																																										
SPAN A																																										
GIRDER #10																																										
FORTIETH POINTS	CL BRG.	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	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	0.002	0.003	0.004	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.011	0.010	0.009	0.008	0.007	0.006	0.005	0.004	0.003	0.002	0.001	0.000	-0.001	-0.002	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.002	-0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.005	0.010	0.015	0.020	0.024	0.028	0.032	0.035	0.038	0.040	0.042	0.043	0.044	0.045	0.044	0.044	0.042	0.041	0.039	0.036	0.033	0.030	0.027	0.023	0.020	0.016	0.012	0.009	0.006	0.003	0.000	-0.003	-0.005	-0.006	-0.007	-0.007	-0.007	-0.006	-0.003	0.000	
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.001	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.004	0.004	0.003	0.003	0.002	0.002	0.001	0.001	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.008	0.015	0.021	0.029	0.035	0.040	0.046	0.050	0.055	0.058	0.061	0.062	0.064	0.065	0.063	0.063	0.061	0.059	0.056	0.051	0.047	0.043	0.038	0.033	0.028	0.023	0.017	0.013	0.008	0.004	-0.001	-0.005	-0.008	-0.010	-0.011	-0.012	-0.011	-0.009	-0.004	0.000	
REQUIRED CAMBER	0	1/16"	3/16"	1/4"	5/16"	7/16"	1/2"	9/16"	5/8"	11/16"	11/16"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1/2"	11/16"	11/16"	5/8"	5/8"	1/2"	7/16"	3/8"	5/16"	1/4"	3/16"	1/8"	1/16"	1/16"	0	-1/16"	-1/16"	-1/8"	-1/8"	-1/8"	-1/8"	-1/8"	-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	0.006	0.009	0.013	0.017	0.022	0.027	0.032	0.036	0.041	0.046	0.051	0.055	0.060	0.064	0.067	0.070	0.073	0.075	0.077	0.078	0.078	0.078	0.077	0.075	0.073	0.070	0.066	0.062	0.058	0.053	0.047	0.041	0.035	0.029	0.022	0.015	0.007	0.000	
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.006	0.013	0.022	0.032	0.043	0.054	0.066	0.079	0.092	0.104	0.117	0.129	0.141	0.152	0.162	0.171	0.180	0.187	0.193	0.197	0.200	0.202	0.202	0.202	0.198	0.194	0.188	0.181	0.172	0.162	0.150	0.137	0.123	0.108	0.091	0.074	0.056	0.038	0.019	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.001	0.002	0.003	0.004	0.005	0.007	0.009	0.010	0.012	0.013	0.015	0.016	0.018	0.019	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.023	0.022	0.021	0.019	0.018	0.016	0.015	0.013	0.011	0.009	0.007	0.005	0.002	0.000	
TOTAL DEAD LOAD DEFLECTION	0.000	0.010	0.021	0.034	0.049	0.065	0.083	0.102	0.121	0.140	0.158	0.178	0.196	0.214	0.231	0.246	0.259	0.272	0.283	0.292	0.298	0.303	0.305	0.305	0.299	0.293	0.284	0.273	0.259	0.243	0.226	0.206	0.185	0.162	0.137	0.112	0.085	0.058	0.028	0.000	
REQUIRED CAMBER	0	1/8"	1/4"	3/8"	1/2"	5/8"	1"	1 1/8"	1 1/4"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 1/4"	2 3/8"	2 1/2"	2 5/8"	2 3/4"	2 7/8"	3"	3 1/8"	3 1/4"	3 1/2"	3 3/8"	3 1/2"	3 1/4"	3 1/8"	2 5/8"	2 1/2"	2 1/4"	2 1/8"	1 5/8"	1 1/2"	1 1/4"	1"	3/4"	1/2"	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 10 OF 11

 MARSHALL G. CHEEK, JR. PROFESSIONAL ENGINEER SEAL 20125 SFBC02F34MDC0419/30/2021 1:43 PM EDT	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH		SUPERSTRUCTURE DEAD LOAD DEFLECTIONS		SHEET NO. S-36
	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED				TOTAL SHEETS 79
TGS ENGINEERS 706 HILLSBOROUGH STREET SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		REVISIONS		NO. BY: DATE: NO. BY: DATE:	
		1 3 2 4			

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