

# DEAD LOAD DEFLECTION TABLE FOR GIRDERS

		SPAN A GIRDERS #1 & #4																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER		0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.002	-0.002	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.003	-0.002	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *		0.000	0.000	0.000	-0.001	-0.002	-0.003	-0.004	-0.006	-0.008	-0.011	-0.013	-0.016	-0.018	-0.019	-0.021	-0.021	-0.020	-0.017	-0.013	-0.007	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL		0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.002	-0.002	-0.003	-0.003	-0.003	-0.004	-0.004	-0.003	-0.003	-0.002	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION		0.000	0.000	0.000	-0.001	-0.002	-0.004	-0.006	-0.008	-0.011	-0.015	-0.018	-0.022	-0.025	-0.026	-0.029	-0.029	-0.027	-0.024	-0.018	-0.010	0.000
REQUIRED CAMBER		0	0	0	0	0	-1/16"	-1/16"	-1/8"	-1/8"	-3/16"	-3/16"	-1/4"	-5/16"	-5/16"	-3/8"	-3/8"	-5/16"	-5/16"	-3/16"	-1/8"	0

		SPAN B GIRDERS #1 & #4																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER		0.000	0.004	0.009	0.015	0.022	0.028	0.033	0.038	0.041	0.043	0.044	0.043	0.040	0.036	0.031	0.025	0.019	0.013	0.007	0.003	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *		0.000	0.019	0.044	0.073	0.104	0.134	0.161	0.183	0.199	0.209	0.211	0.205	0.193	0.174	0.150	0.122	0.092	0.062	0.036	0.015	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL		0.000	0.004	0.008	0.013	0.019	0.024	0.029	0.033	0.036	0.038	0.038	0.037	0.035	0.032	0.027	0.022	0.017	0.012	0.007	0.003	0.000
TOTAL DEAD LOAD DEFLECTION		0.000	0.027	0.061	0.101	0.145	0.186	0.223	0.254	0.276	0.290	0.293	0.285	0.268	0.242	0.208	0.169	0.128	0.087	0.050	0.021	0.000
REQUIRED CAMBER		0	5/16"	3/4"	13/16"	13/4"	21/4"	21/16"	31/16"	35/16"	31/2"	31/2"	37/16"	33/16"	27/8"	21/2"	2"	17/16"	11/16"	5/8"	1/4"	0

		SPAN C GIRDERS #1 & #4																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER		0.000	-0.001	-0.002	-0.002	-0.002	-0.001	0.000	0.002	0.003	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.005	0.003	0.002	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *		0.000	-0.006	-0.010	-0.010	-0.009	-0.004	0.001	0.008	0.015	0.021	0.026	0.031	0.033	0.035	0.034	0.032	0.028	0.023	0.016	0.008	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL		0.000	-0.001	-0.002	-0.002	-0.001	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.006	0.006	0.006	0.005	0.004	0.003	0.002	0.000	0.000
TOTAL DEAD LOAD DEFLECTION		0.000	-0.008	-0.014	-0.014	-0.012	-0.005	0.002	0.012	0.021	0.030	0.037	0.044	0.046	0.048	0.047	0.045	0.039	0.032	0.022	0.012	0.000
REQUIRED CAMBER		0	-1/8"	-3/16"	-3/16"	-1/8"	-1/16"	0	1/8"	1/4"	3/8"	1/2"	9/16"	9/16"	9/16"	9/16"	7/16"	3/8"	1/4"	1/8"	0	0

		SPAN A GIRDERS #2 & #3																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER		0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.002	-0.002	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.002	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *		0.000	0.000	-0.001	-0.001	-0.002	-0.003	-0.005	-0.007	-0.010	-0.013	-0.016	-0.018	-0.021	-0.023	-0.024	-0.024	-0.023	-0.020	-0.015	-0.009	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL		0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.002	-0.002	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.002	-0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION		0.000	0.000	-0.001	-0.001	-0.002	-0.004	-0.007	-0.009	-0.013	-0.017	-0.021	-0.024	-0.028	-0.030	-0.031	-0.032	-0.030	-0.027	-0.020	-0.012	0.000
REQUIRED CAMBER		0	0	0	0	0	-1/16"	-1/16"	-1/8"	-1/8"	-3/16"	-1/4"	-5/16"	-5/16"	-3/8"	-3/8"	-3/8"	-3/8"	-5/16"	-1/4"	-1/8"	0

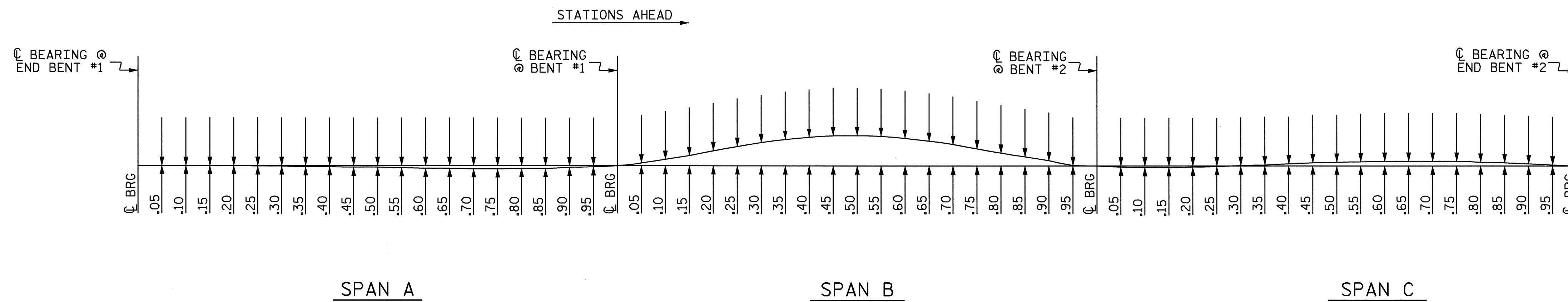
  

		SPAN B GIRDERS #2 & #3																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER		0.000	0.004	0.009	0.015	0.022	0.028	0.033	0.038	0.041	0.043	0.044	0.043	0.040	0.036	0.031	0.025	0.019	0.013	0.007	0.003	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *		0.000	0.022	0.052	0.086	0.123	0.158	0.190	0.216	0.236	0.247	0.249	0.243	0.228	0.206	0.177	0.144	0.109	0.074	0.042	0.018	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL		0.000	0.003	0.008	0.013	0.018	0.024	0.028	0.032	0.035	0.037	0.037	0.036	0.034	0.031	0.027	0.022	0.017	0.011	0.007	0.003	0.000
TOTAL DEAD LOAD DEFLECTION		0.000	0.029	0.069	0.114	0.163	0.210	0.251	0.286	0.312	0.327	0.330	0.322	0.302	0.273	0.235	0.191	0.145	0.098	0.056	0.024	0.000
REQUIRED CAMBER		0	3/8"	13/16"	13/8"	115/16"	21/2"	3"	37/16"	33/4"	315/16"	315/16"	37/8"	35/8"	31/4"	213/16"	25/16"	13/4"	13/16"	11/16"	5/16"	0

		SPAN C GIRDERS #2 & #3																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER		0.000	-0.001	-0.002	-0.002	-0.002	-0.001	0.000	0.002	0.003	0.005	0.006	0.007	0.007	0.007	0.006	0.005	0.003	0.002	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *		0.000	-0.007	-0.011	-0.012	-0.010	-0.005	0.002	0.009	0.017	0.025	0.031	0.036	0.040	0.041	0.040	0.038	0.033	0.027	0.019	0.010	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL		0.000	-0.001	-0.002	-0.002	-0.001	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.006	0.006	0.006	0.005	0.004	0.003	0.002	0.000	0.000
TOTAL DEAD LOAD DEFLECTION		0.000	-0.009	-0.015	-0.016	-0.013	-0.006	0.003	0.013	0.023	0.034	0.042	0.049	0.053	0.054	0.053	0.051	0.044	0.036	0.025	0.013	0.000
REQUIRED CAMBER		0	-1/8"	-3/16"	-3/16"	-1/8"	-1/16"	0	1/8"	1/4"	3/8"	1/2"	9/16"	5/8"	5/8"	5/8"	5/8"	1/2"	7/16"	5/16"	1/8"	0

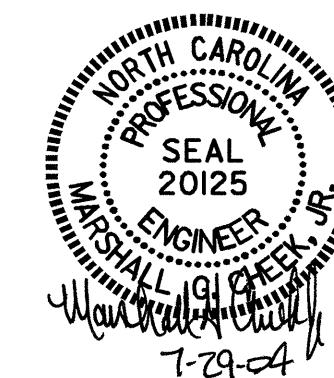
\* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.  
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "REQUIRED CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).



## SCHEMATIC CAMBER ORDINATES

SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.

PROJECT NO. B-4010  
ASHE COUNTY  
 STATION: 20+93.60-L-



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUPERSTRUCTURE					
DEAD LOAD DEFLECTION TABLES					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-16
					TOTAL SHEETS 37

DRAWN BY: L.L. MURPHY DATE: 04-04  
 CHECKED BY: D. HODGE DATE: 06-04