

NOTE :
ORDINATE DUE TO SUPERELEVATION
IS ZERO FOR EACH GIRDER.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN A																					
GIRDER #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	0.005	0.010	0.015	0.019	0.022	0.025	0.027	0.029	0.029	0.029	0.028	0.026	0.024	0.021	0.017	0.014	0.010	0.006	0.003	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓ 0.000	0.020	0.038	0.053	0.067	0.080	0.090	0.098	0.103	0.105	0.104	0.100	0.095	0.086	0.075	0.063	0.050	0.037	0.023	0.011	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓ 0.000	0.006	0.012	0.016	0.021	0.025	0.028	0.030	0.032	0.032	0.032	0.031	0.030	0.027	0.024	0.020	0.016	0.012	0.008	0.004	0.000
TOTAL DEAD LOAD DEFLECTION	↓ 0.000	0.031	0.060	0.084	0.107	0.127	0.143	0.155	0.164	0.166	0.165	0.159	0.151	0.137	0.120	0.100	0.080	0.059	0.037	0.018	0.000
VERTICAL CURVE ORDINATE	↑ 0.000	0.078	0.147	0.208	0.261	0.306	0.343	0.372	0.392	0.404	0.408	0.404	0.392	0.372	0.343	0.306	0.261	0.208	0.147	0.078	0.000
REQUIRED CAMBER	↑ 0	1 ⁵ / ₁₆ "	2 ¹ / ₂ "	3 ¹ / ₂ "	4 ⁷ / ₁₆ "	5 ³ / ₁₆ "	5 ¹³ / ₁₆ "	6 ⁵ / ₁₆ "	6 ¹¹ / ₁₆ "	6 ¹³ / ₁₆ "	6 ⁷ / ₈ "	6 ³ / ₄ "	6 ¹ / ₂ "	6 ¹ / ₈ "	5 ⁹ / ₁₆ "	4 ⁷ / ₈ "	4 ¹ / ₁₆ "	3 ³ / ₁₆ "	2 ³ / ₁₆ "	1 ¹ / ₈ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN B																					
GIRDER #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	-0.003	-0.004	-0.004	-0.005	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.005	-0.005	-0.004	-0.003	-0.002	-0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓ 0.000	-0.005	-0.009	-0.013	-0.016	-0.019	-0.021	-0.022	-0.023	-0.023	-0.023	-0.023	-0.022	-0.021	-0.020	-0.018	-0.015	-0.012	-0.009	-0.005	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓ 0.000	-0.002	-0.003	-0.004	-0.005	-0.006	-0.006	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.006	-0.006	-0.005	-0.005	-0.004	-0.003	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	↓ 0.000	-0.008	-0.015	-0.021	-0.025	-0.030	-0.033	-0.035	-0.036	-0.036	-0.036	-0.036	-0.035	-0.033	-0.031	-0.028	-0.024	-0.019	-0.014	-0.007	0.000
VERTICAL CURVE ORDINATE	↑ 0.000	0.028	0.053	0.075	0.095	0.111	0.124	0.135	0.142	0.146	0.148	0.146	0.142	0.135	0.124	0.111	0.095	0.075	0.053	0.028	0.000
REQUIRED CAMBER	↑ 0	1/4"	7/16"	5/8"	13/16"	1"	1 ¹ / ₁₆ "	1 ³ / ₁₆ "	1 ¹ / ₄ "	1 ⁵ / ₁₆ "	1 ³ / ₈ "	1 ⁵ / ₁₆ "	1 ⁵ / ₁₆ "	1 ¹ / ₄ "	1 ¹ / ₈ "	1"	7/8"	1 ¹ / ₁₆ "	7/16"	1/4"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN C																					
GIRDER #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	0.002	0.005	0.008	0.011	0.014	0.017	0.019	0.021	0.022	0.023	0.023	0.023	0.022	0.020	0.018	0.015	0.012	0.008	0.004	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓ 0.000	0.009	0.019	0.030	0.041	0.052	0.062	0.071	0.077	0.082	0.084	0.085	0.084	0.080	0.074	0.065	0.055	0.043	0.030	0.016	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓ 0.000	0.003	0.006	0.009	0.013	0.016	0.019	0.021	0.023	0.024	0.025	0.025	0.025	0.024	0.022	0.019	0.016	0.013	0.009	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	↓ 0.000	0.014	0.030	0.047	0.065	0.082	0.098	0.111	0.121	0.128	0.132	0.133	0.132	0.126	0.116	0.102	0.086	0.068	0.047	0.025	0.000
VERTICAL CURVE ORDINATE	↑ 0.000	0.069	0.131	0.186	0.233	0.273	0.306	0.332	0.350	0.361	0.365	0.361	0.350	0.332	0.306	0.273	0.233	0.186	0.131	0.069	0.000
REQUIRED CAMBER	↑ 0	1"	1 ⁵ / ₁₆ "	2 ¹³ / ₁₆ "	3 ³ / ₁₆ "	4 ¹ / ₄ "	4 ⁷ / ₈ "	5 ⁵ / ₁₆ "	5 ⁵ / ₈ "	5 ⁷ / ₈ "	5 ¹⁵ / ₁₆ "	5 ¹⁵ / ₁₆ "	5 ¹³ / ₁₆ "	5 ¹ / ₂ "	5 ¹ / ₁₆ "	4 ¹ / ₂ "	3 ¹³ / ₁₆ "	3 ¹ / ₁₆ "	2 ¹ / ₈ "	1 ¹ / ₈ "	0

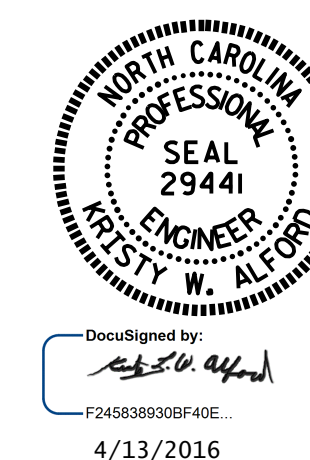
* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT " FINAL CAMBER ", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. B-5121/B-5317

WAKE COUNTY

STATION: 20+19.94 -FLYOVER-

SHEET 4 OF 6



DocuSigned by:
F24583800BF40E
4/13/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD
DEFLECTIONS

DRAWN BY : J.P. ADAMS DATE : 1/2016
CHECKED BY : I.L. AVERETTE DATE : 2/2016
DESIGN ENGINEER OF RECORD: R.L. CHESSON DATE : 2/2016

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-70
1			3			TOTAL SHEETS 110
2			4			