

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN A - GIRDERS 1 & 10																						
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	0.007	0.014	0.019	0.024	0.028	0.031	0.032	0.032	0.031	0.028	0.025	0.021	0.016	0.012	0.007	0.004	0.001	-0.001	-0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.022	0.044	0.063	0.078	0.091	0.099	0.102	0.102	0.097	0.089	0.077	0.063	0.048	0.033	0.019	0.008	0.000	-0.005	-0.005	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET **	↓	0.000	0.003	0.007	0.009	0.012	0.014	0.015	0.016	0.016	0.015	0.014	0.012	0.010	0.008	0.006	0.003	0.002	0.000	-0.001	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.032	0.065	0.091	0.114	0.133	0.145	0.150	0.150	0.143	0.131	0.114	0.094	0.072	0.051	0.029	0.014	0.001	-0.007	-0.007	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.028	0.054	0.076	0.096	0.112	0.125	0.136	0.143	0.148	0.149	0.148	0.143	0.136	0.125	0.112	0.096	0.076	0.054	0.028	0.000
REQUIRED CAMBER	↑	0	3/4"	1 1/16"	2"	2 1/2"	2 5/16"	3 1/4"	3 7/16"	3 1/2"	3 1/2"	3 3/8"	3 3/8"	2 7/8"	2 1/2"	2 1/8"	1 11/16"	1 5/16"	1 5/16"	9/16"	1/4"	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).
 ** DEFLECTION DUE TO WEIGHT OF SIDEWALK ON RIGHT SIDE IS NEGLIGIBLE.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN A - GIRDERS 2, 3, 8, & 9																						
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	0.007	0.014	0.020	0.026	0.030	0.032	0.034	0.034	0.032	0.030	0.026	0.022	0.017	0.012	0.008	0.004	0.001	-0.001	-0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.022	0.044	0.063	0.078	0.091	0.099	0.102	0.102	0.097	0.089	0.077	0.063	0.048	0.033	0.019	0.008	0.000	-0.005	-0.005	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET **	↓	0.000	0.002	0.005	0.007	0.009	0.010	0.011	0.011	0.011	0.011	0.010	0.009	0.008	0.006	0.004	0.003	0.001	0.000	0.000	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.031	0.063	0.090	0.113	0.131	0.142	0.147	0.147	0.140	0.129	0.112	0.093	0.071	0.049	0.030	0.013	0.001	-0.006	-0.007	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.028	0.054	0.076	0.096	0.112	0.125	0.136	0.143	0.148	0.149	0.148	0.143	0.136	0.125	0.112	0.096	0.076	0.054	0.028	0.000
REQUIRED CAMBER	↑	0	3/4"	1 3/8"	2"	2 1/2"	2 7/8"	3 3/16"	3 3/8"	3 1/2"	3 7/16"	3 5/16"	3 1/8"	2 13/16"	2 1/2"	2 1/8"	1 11/16"	1 5/16"	1 5/16"	9/16"	1/4"	0

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DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN A - GIRDERS 4 THRU 7																						
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	0.007	0.014	0.020	0.026	0.030	0.032	0.034	0.034	0.032	0.030	0.026	0.022	0.017	0.012	0.008	0.004	0.001	-0.001	-0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.022	0.044	0.063	0.078	0.091	0.099	0.102	0.102	0.097	0.089	0.077	0.063	0.048	0.033	0.019	0.008	0.000	-0.005	-0.005	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET **	↓	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.029	0.059	0.084	0.105	0.122	0.133	0.138	0.138	0.131	0.120	0.104	0.086	0.066	0.046	0.027	0.012	0.001	-0.006	-0.006	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.028	0.054	0.076	0.096	0.112	0.125	0.136	0.143	0.148	0.149	0.148	0.143	0.136	0.125	0.112	0.096	0.076	0.054	0.028	0.000
REQUIRED CAMBER	↑	0	1 1/16"	1 3/8"	1 5/16"	2 7/16"	2 13/16"	3 1/8"	3 5/16"	3 3/8"	3 3/8"	3 1/4"	3"	2 3/4"	2 7/16"	2 1/16"	1 11/16"	1 5/16"	1 5/16"	9/16"	1/4"	0

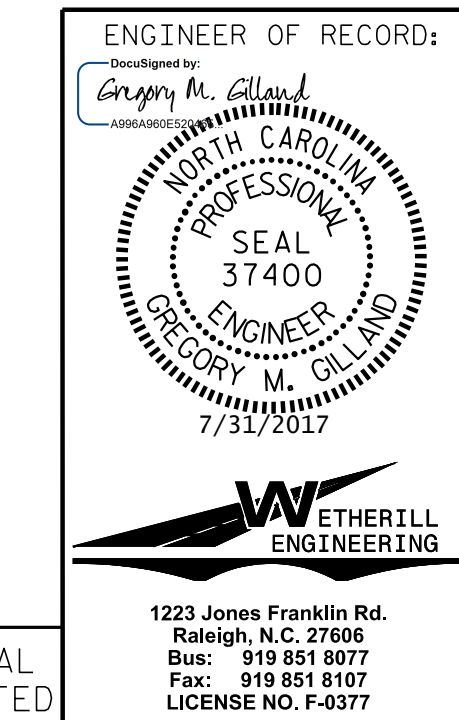
* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).
 ** DEFLECTION DUE TO WEIGHT OF SIDEWALK ON RIGHT SIDE IS NEGLIGIBLE.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN B - GIRDERS 1 & 10																						
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	0.003	0.008	0.015	0.023	0.032	0.042	0.051	0.059	0.066	0.071	0.074	0.074	0.072	0.068	0.061	0.052	0.041	0.028	0.014	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.013	0.032	0.056	0.086	0.118	0.152	0.184	0.213	0.237	0.255	0.265	0.266	0.259	0.243	0.219	0.186	0.147	0.101	0.052	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET **	↓	0.000	0.002	0.005	0.009	0.013	0.018	0.023	0.028	0.032	0.035	0.038	0.039	0.039	0.038	0.036	0.032	0.027	0.021	0.015	0.008	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.018	0.045	0.080	0.122	0.168	0.217	0.263	0.304	0.338	0.364	0.378	0.379	0.369	0.347	0.312	0.265	0.209	0.144	0.074	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.036	0.069	0.097	0.122	0.143	0.160	0.173	0.183	0.189	0.191	0.189	0.183	0.173	0.160	0.143	0.122	0.097	0.069	0.036	0.000
REQUIRED CAMBER	↑	0	5/8"	1 3/8"	2 1/8"	2 5/16"	3 3/4"	4 1/2"	5 1/4"	5 13/16"	6 5/16"	6 5/8"	6 13/16"	6 3/4"	6 1/2"	6 1/16"	5 7/16"	4 5/8"	3 11/16"	2 9/16"	1 5/16"	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).
 ** DEFLECTION DUE TO WEIGHT OF SIDEWALK ON RIGHT SIDE IS NEGLIGIBLE.

PROJECT NO. I-5506
WAKE COUNTY
 STATION: 50+61.09 -L-

SHEET 1 OF 2



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
 DEAD LOAD
 DEFLECTION TABLES

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			TOTAL SHEETS
2			4			46

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

DRAWN BY: D. HODGE DATE: 8/16
 CHECKED BY: B.C. HUNT DATE: 10/16

\$FILE\$ \$DATE\$ \$TIME\$