

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
	SPAN A											SPAN B										
	GIRDER 1											GIRDER 1										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.004	0.008	0.010	0.011	0.010	0.008	0.005	0.003	0.000	0	0	0.002	0.006	0.011	0.015	0.017	0.018	0.016	0.012	0.007	0
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.016	0.030	0.039	0.042	0.039	0.032	0.021	0.010	0.002	0	0	0.009	0.025	0.043	0.059	0.069	0.071	0.064	0.049	0.026	0
DEFLECTION DUE TO WEIGHT OF PARAPET & SIDEWALK	0	0.004	0.008	0.010	0.011	0.011	0.009	0.006	0.003	0.001	0	0	0.002	0.007	0.012	0.016	0.019	0.019	0.017	0.013	0.007	0
TOTAL DEAD LOAD DEFLECTION	0	0.025	0.046	0.059	0.064	0.060	0.048	0.032	0.015	0.003	0	0	0.013	0.038	0.066	0.090	0.105	0.108	0.097	0.074	0.040	0
VERTICAL CURVE ORDINATE	0	0.073	0.130	0.170	0.195	0.203	0.195	0.170	0.130	0.073	0	0	0.085	0.151	0.199	0.227	0.236	0.227	0.199	0.151	0.085	0
REQUIRED CAMBER	0	1 3/16"	2 1/8"	2 3/4"	3 1/8"	3 1/8"	2 5/16"	2 7/16"	1 3/4"	1 5/16"	0	0	1 3/16"	2 1/4"	3 3/16"	3 3/16"	4 1/16"	4"	3 3/16"	2 11/16"	1 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).

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
	SPAN A											SPAN B										
	GIRDER 2											GIRDER 2										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.004	0.008	0.010	0.011	0.010	0.008	0.005	0.003	0.000	0	0	0.002	0.006	0.011	0.015	0.017	0.018	0.016	0.012	0.007	0
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.017	0.030	0.039	0.042	0.040	0.032	0.021	0.010	0.002	0	0	0.009	0.025	0.044	0.060	0.070	0.072	0.065	0.049	0.027	0
DEFLECTION DUE TO WEIGHT OF PARAPET & SIDEWALK	0	0.003	0.006	0.008	0.008	0.008	0.006	0.004	0.002	0.000	0	0	0.002	0.005	0.009	0.012	0.013	0.014	0.012	0.009	0.005	0
TOTAL DEAD LOAD DEFLECTION	0	0.024	0.044	0.057	0.061	0.057	0.046	0.031	0.015	0.002	0	0	0.013	0.036	0.064	0.087	0.100	0.104	0.093	0.070	0.039	0
VERTICAL CURVE ORDINATE	0	0.073	0.130	0.170	0.195	0.203	0.195	0.170	0.130	0.073	0	0	0.085	0.151	0.199	0.227	0.236	0.227	0.199	0.151	0.085	0
REQUIRED CAMBER	0	1 3/16"	2 1/16"	2 3/4"	3 1/16"	3 1/8"	2 7/16"	2 7/16"	1 3/4"	7/8"	0	0	1 3/16"	2 1/4"	3 1/8"	3 3/4"	4 1/16"	4"	3 1/2"	2 5/8"	1 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).

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
	SPAN A											SPAN B										
	GIRDER 3											GIRDER 3										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.004	0.008	0.010	0.011	0.010	0.008	0.005	0.003	0.000	0	0	0.002	0.006	0.011	0.015	0.017	0.018	0.016	0.012	0.007	0
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.017	0.031	0.040	0.043	0.040	0.032	0.021	0.010	0.002	0	0	0.009	0.026	0.044	0.060	0.071	0.073	0.066	0.050	0.027	0
DEFLECTION DUE TO WEIGHT OF PARAPET & SIDEWALK	0	0.002	0.004	0.005	0.006	0.005	0.004	0.003	0.001	0.000	0	0	0.001	0.003	0.006	0.008	0.009	0.010	0.009	0.007	0.004	0
TOTAL DEAD LOAD DEFLECTION	0	0.023	0.043	0.055	0.060	0.055	0.044	0.029	0.014	0.002	0	0	0.012	0.035	0.061	0.083	0.097	0.101	0.091	0.069	0.038	0
VERTICAL CURVE ORDINATE	0	0.073	0.130	0.170	0.195	0.203	0.195	0.170	0.130	0.073	0	0	0.085	0.151	0.199	0.227	0.236	0.227	0.199	0.151	0.085	0
REQUIRED CAMBER	0	1 1/8"	2 1/16"	2 11/16"	3 1/16"	3 1/8"	2 7/8"	2 3/8"	1 3/4"	7/8"	0	0	1 3/16"	2 1/4"	3 1/8"	3 3/4"	4"	3 15/16"	3 1/2"	2 5/8"	1 1/2"	0

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
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DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
	SPAN A											SPAN B										
	GIRDER 4											GIRDER 4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.004	0.008	0.010	0.011	0.010	0.008	0.005	0.003	0.000	0	0	0.002	0.006	0.011	0.015	0.017	0.018	0.016	0.012	0.007	0
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.017	0.031	0.040	0.043	0.041	0.033	0.022	0.010	0.002	0	0	0.009	0.026	0.045	0.061	0.071	0.074	0.067	0.050	0.027	0
DEFLECTION DUE TO WEIGHT OF PARAPET & SIDEWALK	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
TOTAL DEAD LOAD DEFLECTION	0	0.021	0.039	0.050	0.054	0.051	0.041	0.027	0.013	0.002	0	0	0.011	0.032	0.056	0.076	0.088	0.092	0.083	0.062	0.034	0
VERTICAL CURVE ORDINATE	0	0.073	0.130	0.170	0.195	0.203	0.195	0.170	0.130	0.073	0	0	0.085	0.151	0.199	0.227	0.236	0.227	0.199	0.151	0.085	0
REQUIRED CAMBER	0	1 1/8"	2"	2 5/8"	3"	3 1/16"	2 3/16"	2 3/8"	1 1/16"	7/8"	0	0	1 1/8"	2 3/16"	3 1/16"	3 5/8"	3 7/8"	3 13/16"	3 3/8"	2 9/16"	1 7/16"	0

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
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PROJECT NO. U-3308
DURHAM COUNTY
STATION: 16+42.70-LALT-

SHEET 1 OF 3



DocuSigned by:
Donald R. Smith, Jr.
EDC87706174B490
4/1/2016

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUPERSTRUCTURE DEAD LOAD DEFLECTIONS					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					TOTAL SHEETS
S1-21					47

DRAWN BY : P.S. ADKINS DATE : 12-5-13
CHECKED BY : J.D. HAWK DATE : 9-5-14
DESIGN ENGINEER OF RECORD: D.R. SMITH DATE : 11-22-14

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED