

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
	SPAN A											SPAN B										
	GIRDER 5											GIRDER 5										
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	0.032	0.041	0.044	0.041	0.033	0.022	0.011	0.002	0	0	0.009	0.026	0.045	0.062	0.072	0.075	0.067	0.051	0.028	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	0.040	0.051	0.055	0.051	0.041	0.027	0.014	0.002	0	0	0.011	0.032	0.056	0.077	0.089	0.093	0.083	0.063	0.045	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	1/8"	2/16"	2 5/8"	3"	3/16"	2 3/16"	2 3/8"	1 3/4"	7/8"	0	0	1/8"	2 3/16"	3/16"	3 5/8"	3 7/8"	3 13/16"	3 3/8"	2 9/16"	1 9/16"	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 6											GIRDER 6										
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	0.032	0.041	0.044	0.042	0.034	0.022	0.011	0.002	0	0	0.009	0.027	0.046	0.063	0.073	0.075	0.068	0.052	0.028	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	0.040	0.051	0.055	0.052	0.042	0.027	0.014	0.002	0	0	0.011	0.033	0.057	0.078	0.090	0.093	0.084	0.064	0.035	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	1/8"	2/16"	2 5/8"	3"	3/16"	2 7/8"	2 3/8"	1 3/4"	7/8"	0	0	1/8"	2 3/16"	3/16"	3 11/16"	3 5/16"	3 13/16"	3 3/8"	2 9/16"	1 7/16"	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 7											GIRDER 7										
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	0.032	0.042	0.045	0.042	0.034	0.022	0.011	0.002	0	0	0.009	0.027	0.047	0.063	0.074	0.076	0.069	0.052	0.028	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	0.040	0.052	0.056	0.052	0.042	0.027	0.014	0.002	0	0	0.011	0.033	0.058	0.078	0.091	0.094	0.085	0.064	0.035	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	1/8"	2/16"	2 11/16"	3"	3/16"	2 7/8"	2 3/8"	1 3/4"	7/8"	0	0	1/8"	2 3/16"	3/16"	3 11/16"	3 5/16"	3 7/8"	3 1/16"	2 9/16"	1 7/16"	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 8											GIRDER 8										
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	0.018	0.033	0.042	0.045	0.043	0.035	0.023	0.011	0.002	0	0	0.010	0.027	0.047	0.064	0.075	0.077	0.070	0.053	0.029	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	0.009	0.008	0.006	0.003	0
TOTAL DEAD LOAD DEFLECTION	0	0.024	0.045	0.057	0.062	0.058	0.047	0.031	0.015	0.002	0	0	0.013	0.036	0.064	0.087	0.101	0.104	0.094	0.071	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"	2/8"	2 3/4"	3/16"	3/8"	2 7/8"	2 1/16"	1 3/4"	7/8"	0	0	1 3/16"	2/4"	3 3/16"	3 3/4"	4 1/16"	4"	3 1/2"	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 ).

PROJECT NO. U-3308  
DURHAM COUNTY  
STATION: 16+42.70-LALT-

SHEET 2 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.					S1-22
TOTAL SHEETS					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