

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

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN A																					
GIRDER #2																					
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	0.007	0.010	0.013	0.015	0.017	0.019	0.020	0.020	0.019	0.018	0.016	0.014	0.012	0.010	0.007	0.005	0.002	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.013	0.024	0.036	0.046	0.055	0.061	0.067	0.070	0.072	0.071	0.069	0.064	0.059	0.052	0.043	0.034	0.025	0.017	0.007
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.004	0.007	0.011	0.014	0.016	0.018	0.020	0.021	0.021	0.021	0.020	0.018	0.016	0.014	0.011	0.008	0.005	0.002	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.021	0.038	0.057	0.073	0.086	0.096	0.106	0.111	0.113	0.112	0.109	0.102	0.093	0.082	0.069	0.055	0.040	0.027	0.011
VERTICAL CURVE ORDINATE	↑	0.000	0.072	0.137	0.195	0.245	0.287	0.321	0.348	0.368	0.379	0.383	0.376	0.368	0.349	0.322	0.287	0.245	0.195	0.138	0.073
REQUIRED CAMBER	↑	0	1/8"	2/8"	3"	3 3/16"	4 1/2"	5"	5 7/16"	5 3/4"	5 7/8"	5 5/16"	5 3/16"	5 5/8"	5 5/16"	4 7/8"	4 1/4"	3 5/8"	2 3/16"	2"	1"

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN B																					
GIRDER #2																					
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	-0.003	-0.003	-0.004	-0.004	-0.004	-0.005	-0.005	-0.005	-0.005	-0.005	-0.004	-0.004	-0.004	-0.003	-0.003	-0.002	-0.001
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	-0.004	-0.007	-0.010	-0.012	-0.014	-0.016	-0.017	-0.018	-0.018	-0.018	-0.017	-0.017	-0.016	-0.014	-0.013	-0.010	-0.007	-0.004	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.004	-0.004	-0.004	-0.003	-0.002	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	-0.006	-0.011	-0.016	-0.019	-0.022	-0.025	-0.026	-0.028	-0.028	-0.028	-0.027	-0.026	-0.024	-0.022	-0.020	-0.016	-0.011	-0.006	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.032	0.060	0.085	0.107	0.125	0.140	0.152	0.160	0.165	0.167	0.165	0.160	0.152	0.140	0.125	0.107	0.085	0.060	0.032
REQUIRED CAMBER	↑	0	5/16"	9/16"	1 3/16"	1 1/16"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 5/8"	1 5/8"	1 1/2"	1 3/8"	1 1/4"	1 1/16"	1 3/16"	9/16"	5/16"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN C																					
GIRDER #2																					
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	0.007	0.010	0.013	0.015	0.017	0.019	0.020	0.021	0.021	0.021	0.020	0.018	0.016	0.014	0.011	0.007	0.004
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.008	0.017	0.026	0.036	0.045	0.054	0.062	0.068	0.072	0.075	0.075	0.074	0.071	0.066	0.058	0.049	0.038	0.027	0.014
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.003	0.005	0.008	0.011	0.014	0.017	0.019	0.021	0.022	0.023	0.023	0.022	0.021	0.020	0.017	0.015	0.012	0.008	0.004
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.013	0.027	0.041	0.057	0.072	0.086	0.098	0.108	0.114	0.119	0.119	0.117	0.112	0.104	0.091	0.078	0.061	0.042	0.022
VERTICAL CURVE ORDINATE	↑	0.000	0.076	0.143	0.203	0.254	0.298	0.334	0.361	0.381	0.393	0.397	0.393	0.381	0.361	0.334	0.298	0.254	0.203	0.143	0.076
REQUIRED CAMBER	↑	0	1/16"	2/16"	2 5/16"	3 3/4"	4 7/16"	5 1/16"	5 1/2"	5 7/8"	6 1/16"	6 3/16"	6 1/8"	6"	5 11/16"	5 1/4"	4 11/16"	4"	3 3/16"	2 1/4"	1 3/16"

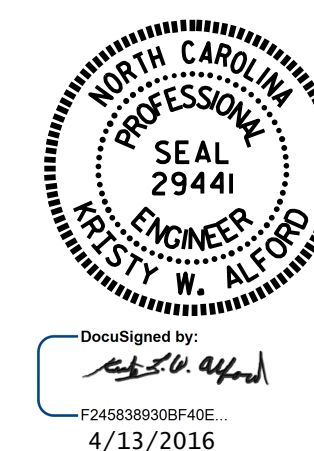
* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. B-5121/B-5317

WAKE COUNTY

STATION: 20+19.94 -FLYOVER-

SHEET 2 OF 6



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-68
1			3			TOTAL SHEETS 110
2			4			