

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
	SPAN A																				
	GIRDER #1																				
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 STEEL	0.000	0.006	0.011	0.016	0.020	0.024	0.027	0.030	0.032	0.033	0.034	0.033	0.032	0.030	0.028	0.024	0.020	0.016	0.011	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.023	0.045	0.065	0.083	0.099	0.112	0.123	0.131	0.136	0.137	0.136	0.131	0.124	0.113	0.100	0.084	0.066	0.045	0.024	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.008	0.010	0.012	0.014	0.015	0.016	0.017	0.017	0.017	0.016	0.015	0.014	0.012	0.010	0.008	0.006	0.003	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.032	0.062	0.089	0.113	0.135	0.153	0.168	0.179	0.186	0.188	0.186	0.179	0.169	0.155	0.136	0.114	0.090	0.062	0.033	0.000
VERTICAL CURVE ORDINATE	0.000	0.001	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	0.001	0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	31	60	87	111	133	152	167	178	185	187	185	178	168	154	135	114	90	62	33	0

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN METERS, EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN MILLIMETERS.

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 STEEL	0.000	0.006	0.011	0.016	0.020	0.024	0.028	0.030	0.032	0.033	0.033	0.033	0.032	0.030	0.027	0.024	0.020	0.016	0.011	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.024	0.046	0.066	0.084	0.100	0.113	0.124	0.132	0.136	0.137	0.136	0.131	0.123	0.112	0.099	0.083	0.065	0.045	0.023	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.008	0.010	0.012	0.014	0.015	0.016	0.017	0.017	0.017	0.016	0.015	0.014	0.012	0.010	0.008	0.006	0.003	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.033	0.063	0.090	0.114	0.136	0.155	0.169	0.180	0.186	0.187	0.186	0.179	0.168	0.153	0.135	0.113	0.089	0.062	0.032	0.000
VERTICAL CURVE ORDINATE	0.000	0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	32	62	89	113	135	155	169	180	186	187	186	179	168	153	135	113	89	62	32	0

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN METERS, EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN MILLIMETERS.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
	SPAN A																				
	GIRDER #3																				
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 STEEL	0.000	0.006	0.011	0.017	0.021	0.025	0.028	0.031	0.033	0.034	0.034	0.034	0.032	0.030	0.028	0.024	0.020	0.016	0.011	0.006	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.025	0.047	0.068	0.087	0.103	0.117	0.128	0.135	0.140	0.141	0.139	0.134	0.126	0.115	0.101	0.084	0.066	0.045	0.023	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.003	0.006	0.009	0.011	0.013	0.015	0.016	0.017	0.018	0.018	0.017	0.017	0.016	0.014	0.013	0.011	0.008	0.006	0.003	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.034	0.064	0.094	0.119	0.141	0.160	0.175	0.185	0.192	0.193	0.190	0.183	0.172	0.157	0.138	0.115	0.090	0.062	0.032	0.000
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	34	64	94	119	141	160	175	185	192	193	190	183	172	157	138	115	90	62	32	0

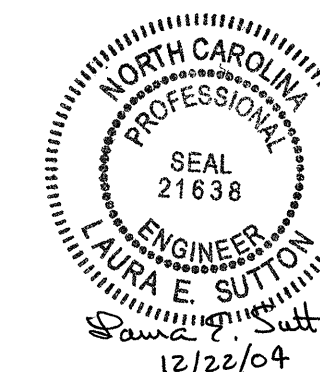
* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN METERS, EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN MILLIMETERS.

PROJECT NO. R-0977A
CHEROKEE COUNTY
STATION: 18+31.299-LC1B2-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD
DEFLECTIONS



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-61
2			4			230

DRAWN BY : A.S. CALLAWAY DATE : 6/23/04
CHECKED BY : W.D. CRUTCHER DATE : 9/20/04