

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
	SPAN "A"																				
	GIRDER #3																				
	TWENTIETH POINTS BETWEEN C GIRDER	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.005	0.009	0.012	0.015	0.018	0.020	0.020	0.020	0.020	0.019	0.017	0.014	0.011	0.009	0.006	0.004	0.002	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.021	0.040	0.056	0.070	0.081	0.088	0.092	0.091	0.087	0.081	0.073	0.062	0.048	0.036	0.026	0.016	0.007	0.001	0.001	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.003	0.006	0.008	0.010	0.012	0.013	0.014	0.014	0.014	0.013	0.012	0.010	0.008	0.006	0.005	0.003	0.001	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.029	0.055	0.076	0.095	0.111	0.121	0.126	0.125	0.120	0.112	0.101	0.086	0.068	0.051	0.036	0.022	0.010	0.002	0.001	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
REQUIRED CAMBER	0	3/8"	5/8"	15/16"	1/8"	15/16"	17/16"	1/2"	1/2"	17/16"	13/16"	13/16"	1"	13/16"	5/8"	7/16"	1/4"	1/8"	0	0	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
	SPAN "B"																				
	GIRDER #3																				
	TWENTIETH POINTS BETWEEN C GIRDER	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.002	0.005	0.009	0.014	0.019	0.024	0.030	0.034	0.038	0.040	0.041	0.041	0.041	0.038	0.035	0.030	0.023	0.016	0.009	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.009	0.022	0.038	0.057	0.078	0.100	0.124	0.145	0.161	0.172	0.178	0.179	0.176	0.168	0.152	0.130	0.102	0.071	0.038	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.001	0.003	0.006	0.009	0.012	0.015	0.018	0.021	0.023	0.024	0.025	0.025	0.025	0.023	0.021	0.018	0.014	0.010	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.012	0.030	0.052	0.080	0.109	0.139	0.172	0.200	0.221	0.236	0.244	0.246	0.241	0.229	0.207	0.177	0.140	0.097	0.051	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
REQUIRED CAMBER	0	1/8"	3/8"	5/8"	15/16"	15/16"	11/16"	2/16"	23/8"	25/8"	213/16"	215/16"	215/16"	27/8"	23/4"	21/2"	21/8"	11/16"	13/16"	5/8"	0

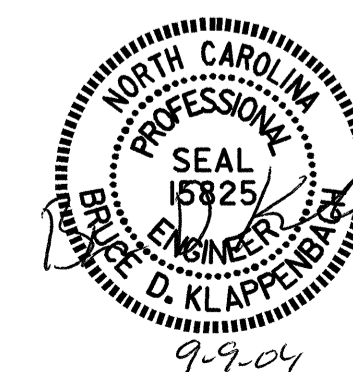
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
	SPAN "A"																				
	GIRDER #4																				
	TWENTIETH POINTS BETWEEN C GIRDER	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.005	0.009	0.013	0.016	0.018	0.020	0.021	0.021	0.021	0.019	0.017	0.015	0.012	0.009	0.007	0.004	0.002	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.022	0.041	0.057	0.071	0.081	0.089	0.093	0.093	0.090	0.083	0.074	0.063	0.050	0.038	0.027	0.017	0.009	0.001	0.001	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.003	0.006	0.009	0.011	0.012	0.014	0.014	0.015	0.014	0.013	0.012	0.011	0.009	0.007	0.005	0.003	0.002	0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.030	0.056	0.078	0.097	0.112	0.122	0.128	0.129	0.125	0.116	0.103	0.088	0.070	0.053	0.038	0.025	0.013	0.002	0.001	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
REQUIRED CAMBER	0	3/8"	11/16"	15/16"	13/16"	15/16"	17/16"	19/16"	19/16"	1/2"	13/8"	1/4"	11/16"	7/8"	5/8"	7/16"	5/16"	1/8"	0	0	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
	SPAN "B"																				
	GIRDER #4																				
	TWENTIETH POINTS BETWEEN C GIRDER	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.002	0.005	0.009	0.013	0.018	0.023	0.028	0.032	0.036	0.039	0.041	0.041	0.040	0.037	0.034	0.029	0.023	0.016	0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.008	0.021	0.036	0.054	0.074	0.095	0.116	0.134	0.150	0.163	0.172	0.173	0.169	0.160	0.146	0.125	0.099	0.068	0.035	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.001	0.003	0.006	0.008	0.011	0.014	0.017	0.020	0.022	0.024	0.025	0.025	0.024	0.023	0.020	0.017	0.014	0.009	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.011	0.029	0.050	0.076	0.104	0.133	0.161	0.186	0.208	0.226	0.237	0.238	0.233	0.220	0.200	0.172	0.136	0.093	0.048	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
REQUIRED CAMBER	0	1/8"	3/8"	5/8"	15/16"	1/4"	15/16"	15/16"	2/4"	21/2"	211/16"	213/16"	27/8"	213/16"	25/8"	23/8"	21/16"	15/16"	11/8"	5/16"	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).

PROJECT NO. U-0620
CUMBERLAND COUNTY
 STATION: 161+95.29 -L-

SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO. 105B	
SUPERSTRUCTURE STRUCTURAL STEEL DETAILS DEFLECTION TABLES (RIGHT LANE)						TOTAL SHEETS 129	
REVISIONS							
NO.	BY:	DATE:	NO.	BY:	DATE:		
1			3				
2			4				

DRAWN BY : M. G. SHAIKH DATE : 6-29-04
 CHECKED BY : G. M. PATTERSON DATE : 9-9-04

09-SEP-2004 09:11
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 mshalkh

STR #3

NC006