

DEAD LOAD DEFLECTION TABLE FOR EXTERIOR GIRDERS 1 & 5																					
SPAN A																					
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	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.002	0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.002	0.003	0.005	0.006	0.008	0.010	0.012	0.014	0.016	0.018	0.019	0.020	0.021	0.021	0.020	0.018	0.016	0.012	0.007	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.001	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.002	0.003	0.007	0.008	0.010	0.012	0.016	0.018	0.021	0.023	0.025	0.026	0.028	0.027	0.024	0.021	0.016	0.009	0.000	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
ORDINATE DUE TO SUPERELEVATION	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	0	-1/16"	-1/16"	-1/8"	-1/8"	-1/8"	-3/16"	-3/16"	-1/2"	-1/4"	-5/16"	-5/16"	-5/16"	-5/16"	-5/16"	-1/4"	-3/16"	-1/8"	0	0

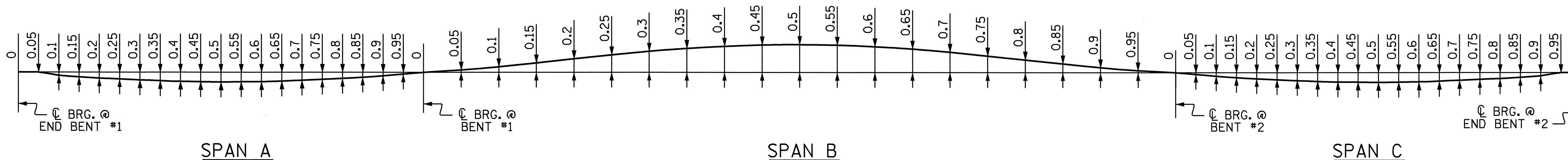
\* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.  
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).  
 SIGN CONVENTION FOR DEAD LOAD DEFLECTION  $\begin{matrix} + \\ \uparrow \\ 0 \\ \downarrow \\ - \end{matrix}$

DEAD LOAD DEFLECTION TABLE FOR EXTERIOR GIRDERS 1 & 5																					
SPAN B																					
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	-0.008	-0.014	-0.019	-0.025	-0.030	-0.035	-0.039	-0.041	-0.041	-0.041	-0.039	-0.035	-0.030	-0.025	-0.019	-0.014	-0.008	-0.004	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	-0.019	-0.044	-0.071	-0.101	-0.131	-0.158	-0.182	-0.200	-0.211	-0.215	-0.211	-0.200	-0.182	-0.158	-0.131	-0.101	-0.071	-0.044	-0.019	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	-0.003	-0.006	-0.010	-0.014	-0.018	-0.022	-0.025	-0.028	-0.029	-0.030	-0.029	-0.028	-0.025	-0.022	-0.018	-0.014	-0.010	-0.006	-0.003	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	-0.026	-0.058	-0.095	-0.134	-0.174	-0.210	-0.242	-0.267	-0.281	-0.286	-0.281	-0.267	-0.242	-0.210	-0.174	-0.134	-0.095	-0.058	-0.026	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
ORDINATE DUE TO SUPERELEVATION	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	5/16"	1 1/16"	1 1/8"	1 5/8"	2 1/16"	2 1/2"	2 7/8"	3 3/16"	3 3/8"	3 7/16"	3 3/8"	3 3/16"	2 7/8"	2 1/2"	2 1/16"	1 5/8"	1 1/8"	1 1/16"	5/16"	0

\* 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).  
 SIGN CONVENTION FOR DEAD LOAD DEFLECTION  $\begin{matrix} + \\ \uparrow \\ 0 \\ \downarrow \\ - \end{matrix}$

DEAD LOAD DEFLECTION TABLE FOR EXTERIOR GIRDERS 1 & 5																					
SPAN C																					
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	0.003	0.003	0.003	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.007	0.012	0.016	0.018	0.020	0.021	0.021	0.020	0.019	0.018	0.016	0.014	0.012	0.010	0.008	0.006	0.005	0.003	0.002	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.009	0.016	0.021	0.024	0.027	0.028	0.028	0.026	0.025	0.023	0.021	0.018	0.016	0.012	0.010	0.008	0.007	0.003	0.002	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
ORDINATE DUE TO SUPERELEVATION	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"	-3/16"	-1/4"	-5/16"	-5/16"	-5/16"	-5/16"	-5/16"	-5/16"	-1/4"	-1/4"	-3/16"	-3/16"	-1/8"	-1/8"	-1/8"	-1/16"	-1/16"	0	0

\* 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).  
 SIGN CONVENTION FOR DEAD LOAD DEFLECTION  $\begin{matrix} + \\ \uparrow \\ 0 \\ \downarrow \\ - \end{matrix}$



SCHEMATIC CAMBER ORDINATES

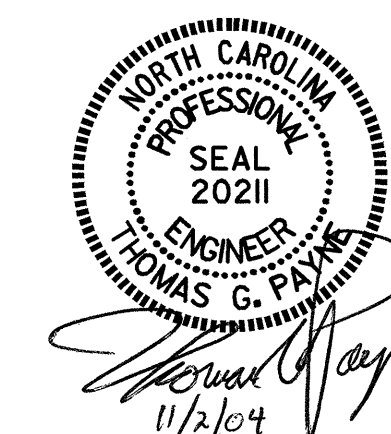
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 CHECKED BY : K.D. LAYNE DATE : 6/04

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PROJECT NO. R-2911D  
 ROWAN COUNTY  
 STATION: 304+22.00-L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 DEAD LOAD DEFLECTIONS  
 (RIGHT LANE)



REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-102	
1			3			TOTAL SHEETS 120	
2			4				