

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
GIRDER #10																					
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	0.026	0.051	0.074	0.095	0.113	0.129	0.141	0.150	0.156	0.157	0.156	0.150	0.141	0.129	0.113	0.095	0.074	0.051	0.026	0
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.092	0.172	0.247	0.315	0.374	0.424	0.464	0.494	0.512	0.518	0.512	0.494	0.464	0.424	0.374	0.315	0.247	0.172	0.092	0
DEFLECTION DUE TO WEIGHT OF PARAPET AND SIDEWALK ↓	0	0.014	0.026	0.038	0.049	0.059	0.066	0.073	0.078	0.080	0.081	0.080	0.078	0.073	0.066	0.059	0.049	0.038	0.026	0.014	0
TOTAL DEAD LOAD DEFLECTION ↓	0	0.131	0.250	0.360	0.458	0.545	0.619	0.678	0.721	0.747	0.756	0.747	0.721	0.678	0.619	0.545	0.458	0.360	0.250	0.131	0
VERTICAL CURVE ORDINATE ↑	0	0.105	0.199	0.282	0.354	0.415	0.464	0.503	0.531	0.547	0.553	0.547	0.531	0.503	0.464	0.415	0.354	0.282	0.199	0.105	0
REQUIRED CAMBER ↑	0	2 ¹³ / ₁₆ "	5 ³ / ₈ "	7 ¹¹ / ₁₆ "	9 ³ / ₄ "	11 ¹ / ₂ "	13"	14 ³ / ₁₆ "	15"	15 ⁹ / ₁₆ "	15 ¹¹ / ₁₆ "	15 ⁹ / ₁₆ "	15"	14 ³ / ₁₆ "	13"	11 ¹ / ₂ "	9 ³ / ₄ "	7 ¹¹ / ₁₆ "	5 ³ / ₈ "	2 ¹³ / ₁₆ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
GIRDER #11																					
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	0.026	0.051	0.074	0.095	0.113	0.129	0.141	0.150	0.156	0.157	0.156	0.150	0.141	0.129	0.113	0.095	0.074	0.051	0.026	0
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.090	0.168	0.242	0.307	0.365	0.414	0.453	0.482	0.499	0.505	0.499	0.482	0.453	0.414	0.365	0.307	0.242	0.168	0.090	0
DEFLECTION DUE TO WEIGHT OF PARAPET AND SIDEWALK ↓	0	0.019	0.037	0.054	0.069	0.082	0.094	0.103	0.109	0.113	0.114	0.113	0.109	0.103	0.094	0.082	0.069	0.054	0.037	0.019	0
TOTAL DEAD LOAD DEFLECTION ↓	0	0.134	0.256	0.370	0.471	0.560	0.636	0.697	0.741	0.768	0.777	0.768	0.741	0.697	0.636	0.560	0.471	0.370	0.256	0.134	0
VERTICAL CURVE ORDINATE ↑	0	0.105	0.199	0.282	0.354	0.415	0.464	0.503	0.531	0.547	0.553	0.547	0.531	0.503	0.464	0.415	0.354	0.282	0.199	0.105	0
REQUIRED CAMBER ↑	0	2 ⁷ / ₈ "	5 ⁷ / ₁₆ "	7 ¹³ / ₁₆ "	9 ⁷ / ₈ "	11 ¹¹ / ₁₆ "	13 ³ / ₁₆ "	14 ³ / ₈ "	15 ¹ / ₄ "	15 ³ / ₄ "	15 ⁵ / ₁₆ "	15 ³ / ₄ "	15 ¹ / ₄ "	14 ³ / ₈ "	13 ³ / ₁₆ "	11 ¹¹ / ₁₆ "	9 ⁷ / ₈ "	7 ¹³ / ₁₆ "	5 ⁷ / ₁₆ "	2 ⁷ / ₈ "	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).

FABRICATORS SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR STEEL DEAD LOAD FIT UP.

PROJECT NO. B-4490
CUMBERLAND COUNTY
STATION: 29+57.01 -L-

SHEET 3 OF 3



DocuSigned by:
Rusty W. Alford
F2458389300F40E
3/29/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD
DEFLECTIONS

DRAWN BY : A. SORSENGINH DATE : 5/2015
CHECKED BY : J.P. ADAMS DATE : 6/2015
DESIGN ENGINEER OF RECORD : A. SORSENGINH DATE : 9/2015

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-15	
1			3			TOTAL SHEETS	
2			4			84	