DEAD LOAD DEFLECTION TABLE FOR GIRDERS

SPAN A

GIRDERS 1 & 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 ↓	0.000	0.014	0.027	0.039	0.050	0.060	0.068	0.075	0.080	0.083	0.084	0.083	0.080	0.075	0.068	0.060	0.050	0.039	0.027	0.014	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.033	0.090	0.143	0.190	0.232	0.267	0.296	0.317	0.329	0.333	0.329	0.317	0.296	0.267	0.232	0.190	0.143	0.090	0.033	0.000
DEFLECTION DUE TO WEIGHT OF SUPERIMPOSED DEAD LOAD ↓	0.000	0.013	0.025	0.037	0.047	0.056	0.063	0.070	0.074	0.077	0.078	0.077	0.074	0.070	0.063	0.056	0.047	0.037	0.025	0.013	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.060	0.142	0.219	0.287	0.348	0.398	0.441	0.471	0.489	0.495	0.489	0.471	0.441	0.398	0.348	0.287	0.219	0.142	0.060	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.074	0.139	0.197	0.247	0.290	0.325	0.352	0.371	0.383	0.387	0.383	0.371	0.352	0.325	0.290	0.247	0.197	0.139	0.074	0.000
REQUIRED CAMBER ↑	0	1 5/8"	3 3/8"	5"	6 7/16"	7 5/8"	8 11/16"	9 1/2"	10 1/8"	10 7/16"	10 9/16"	10 7/16"	10 1/8"	9 1/2"	8 11/16"	7 5/8"	6 7/16"	5"	3 3/8"	1 5/8"	0

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	0.014	0.027	0.039	0.050	0.060	0.068	0.075	0.080	0.083	0.084	0.083	0.080	0.075	0.068	0.060	0.050	0.039	0.027	0.014	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.013	0.073	0.128	0.178	0.222	0.259	0.289	0.311	0.324	0.328	0.324	0.311	0.289	0.259	0.222	0.178	0.128	0.073	0.013	0.000
DEFLECTION DUE TO WEIGHT OF SUPERIMPOSED DEAD LOAD ↓	0.000	0.009	0.017	0.025	0.031	0.037	0.042	0.047	0.049	0.051	0.052	0.051	0.049	0.047	0.042	0.037	0.031	0.025	0.017	0.009	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.036	0.117	0.192	0.259	0.319	0.369	0.411	0.440	0.458	0.464	0.458	0.440	0.411	0.369	0.319	0.259	0.192	0.117	0.036	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.074	0.139	0.197	0.247	0.290	0.325	0.352	0.371	0.383	0.387	0.383	0.371	0.352	0.325	0.290	0.247	0.197	0.139	0.074	0.000
REQUIRED CAMBER ↑	0	1 5/16"	3 1/16"	4 11/16"	6 1/16"	7 5/16"	8 5/16"	9 1/8"	9 3/4"	10 1/16"	10 3/16"	10 1/16"	9 3/4"	9 1/8"	8 5/16"	7 5/16"	6 1/16"	4 11/16"	3 1/16"	1 5/16"	0

GIRDERS 3 & 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 ↓	0.000	0.014	0.027	0.039	0.050	0.060	0.068	0.075	0.080	0.083	0.084	0.083	0.080	0.075	0.068	0.060	0.050	0.039	0.027	0.014	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.000	0.050	0.105	0.153	0.196	0.232	0.262	0.283	0.296	0.300	0.296	0.283	0.262	0.232	0.196	0.153	0.105	0.050	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SUPERIMPOSED DEAD LOAD ↓	0.000	0.008	0.016	0.023	0.029	0.034	0.039	0.043	0.046	0.047	0.048	0.047	0.046	0.043	0.039	0.034	0.029	0.023	0.016	0.008	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.022	0.093	0.167	0.232	0.290	0.339	0.380	0.409	0.426	0.432	0.426	0.409	0.380	0.339	0.290	0.232	0.167	0.093	0.022	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.074	0.139	0.197	0.247	0.290	0.325	0.352	0.371	0.383	0.387	0.383	0.371	0.352	0.325	0.290	0.247	0.197	0.139	0.074	0.000
REQUIRED CAMBER ↑	0	1 1/8"	2 13/16"	4 3/8"	5 3/4"	6 15/16"	7 15/16"	8 13/16"	9 3/8"	9 11/16"	9 13/16"	9 11/16"	9 3/8"	8 13/16"	7 15/16"	6 15/16"	5 3/4"	4 3/8"	2 13/16"	1 1/8"	0

GIRDERS 4 & 5

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	0.014	0.027	0.039	0.050	0.060	0.068	0.075	0.080	0.083	0.084	0.083	0.080	0.075	0.068	0.060	0.050	0.039	0.027	0.014	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.000	0.027	0.085	0.136	0.182	0.221	0.252	0.274	0.288	0.292	0.288	0.274	0.252	0.221	0.182	0.136	0.085	0.027	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SUPERIMPOSED DEAD LOAD ↓	0.000	0.002	0.003	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.008	0.007	0.006	0.005	0.003	0.002	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.016	0.057	0.129	0.192	0.249	0.297	0.336	0.364	0.381	0.386	0.381	0.364	0.336	0.297	0.249	0.192	0.129	0.057	0.016	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.074	0.139	0.197	0.247	0.290	0.325	0.352	0.371	0.383	0.387	0.383	0.371	0.352	0.325	0.290	0.247	0.197	0.139	0.074	0.000
REQUIRED CAMBER ↑	0	1 1/16"	2 3/8"	3 15/16"	5 1/4"	6 7/16"	7 7/16"	8 1/4"	8 13/16"	9 3/16"	9 1/4"	9 3/16"	8 13/16"	8 1/4"	7 7/16"	6 7/16"	5 1/4"	3 15/16"	2 3/8"	1 1/16"	0

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

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

PROJECT NO. B-4490
CUMBERLAND COUNTY
STATION: 35+23.40 -L-

SHEET 1 OF 2

NORTH CAROLINA PROFESSIONAL SEAL 29441 ENGINEER KRISTY W. ALFORD

DocuSigned by:
F245838930BF40E...

3/29/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD DEFLECTIONS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-56
1			3			TOTAL SHEETS
2			4			84

STR. #2

DRAWN BY : T.L. AVERETTE DATE : 01-15
CHECKED BY : J.P. ADAMS DATE : 07-15
DESIGN ENGINEER OF RECORD: T.L. AVERETTE DATE : 09-15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

29-MAR-2016 09:20
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jpadams