

DEAD LOAD DEFLECTION TABLE FOR GIRDERS, SPAN A

GIRDERS 1 AND 13																					
40TH POINTS	0.00	0.025	0.050	0.075	0.10	0.125	0.150	0.175	0.20	0.225	0.250	0.275	0.30	0.325	0.350	0.375	0.40	0.425	0.450	0.475	0.50
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.084	0.111	0.137	0.163	0.187	0.209	0.232	0.252	0.271	0.288	0.303	0.317	0.328	0.337	0.345	0.350	0.353	0.354
DEFLECTION DUE TO SDL * ↓	0.000	0.021	0.042	0.063	0.083	0.103	0.122	0.140	0.156	0.173	0.189	0.202	0.215	0.226	0.237	0.245	0.252	0.257	0.261	0.264	0.265
FINAL CAMBER ↑	0"	1/16"	3/16"	1/4"	5/16"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	15/16"	1"	1"	1 1/16"	1 1/16"	1 1/16"	1 1/16"

GIRDERS 1 AND 13																					
40TH POINTS	0.50	0.525	0.550	0.575	0.60	0.625	0.650	0.675	0.70	0.725	0.750	0.775	0.80	0.825	0.850	0.875	0.90	0.925	0.950	0.975	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.354	0.353	0.350	0.343	0.337	0.328	0.317	0.303	0.288	0.271	0.252	0.232	0.210	0.187	0.163	0.137	0.111	0.084	0.056	0.028	0.000
DEFLECTION DUE TO SDL * ↓	0.265	0.264	0.261	0.257	0.252	0.245	0.237	0.226	0.215	0.202	0.189	0.173	0.157	0.140	0.122	0.103	0.083	0.063	0.042	0.021	0.000
FINAL CAMBER ↑	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1"	1"	15/16"	15/16"	7/8"	13/16"	3/4"	11/16"	5/8"	9/16"	1/2"	7/16"	5/16"	1/4"	3/16"	1/16"	0"

GIRDER 7																					
40TH POINTS	0.00	0.025	0.050	0.075	0.10	0.125	0.150	0.175	0.20	0.225	0.250	0.275	0.30	0.325	0.350	0.375	0.40	0.425	0.450	0.475	0.50
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.084	0.111	0.137	0.163	0.187	0.209	0.232	0.252	0.271	0.288	0.303	0.317	0.328	0.337	0.345	0.350	0.353	0.354
DEFLECTION DUE TO SDL * ↓	0.000	0.018	0.035	0.052	0.070	0.086	0.102	0.117	0.131	0.145	0.158	0.169	0.180	0.190	0.198	0.205	0.211	0.216	0.219	0.221	0.222
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	13/16"	15/16"	1 1/16"	1 1/8"	1 3/16"	1 1/2"	1 1/16"	1 1/8"	1 1/2"	1 1/2"	1 9/16"	1 9/16"	1 9/16"	1 9/16"

GIRDER 7																					
40TH POINTS	0.50	0.525	0.550	0.575	0.60	0.625	0.650	0.675	0.70	0.725	0.750	0.775	0.80	0.825	0.850	0.875	0.90	0.925	0.950	0.975	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.354	0.353	0.350	0.343	0.337	0.328	0.317	0.303	0.288	0.271	0.252	0.232	0.210	0.187	0.163	0.137	0.111	0.084	0.056	0.028	0.000
DEFLECTION DUE TO SDL * ↓	0.222	0.221	0.219	0.215	0.211	0.205	0.198	0.190	0.180	0.169	0.158	0.145	0.132	0.117	0.102	0.086	0.070	0.052	0.035	0.018	0.000
FINAL CAMBER ↑	1 9/16"	1 9/16"	1 9/16"	1 9/16"	1 1/2"	1 1/2"	1 1/16"	1 3/8"	1 9/16"	1 3/16"	1 1/8"	1 1/16"	1 5/16"	1 3/16"	3/4"	5/8"	1/2"	3/8"	1/4"	1/8"	0"

GIRDER 8																					
40TH POINTS	0.00	0.025	0.050	0.075	0.10	0.125	0.150	0.175	0.20	0.225	0.250	0.275	0.30	0.325	0.350	0.375	0.40	0.425	0.450	0.475	0.50
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.084	0.111	0.137	0.163	0.187	0.209	0.232	0.252	0.271	0.288	0.303	0.317	0.328	0.337	0.345	0.350	0.353	0.354
DEFLECTION DUE TO SDL * ↓	0.000	0.016	0.031	0.046	0.061	0.076	0.090	0.103	0.115	0.128	0.139	0.149	0.158	0.167	0.174	0.180	0.186	0.190	0.193	0.194	0.195
FINAL CAMBER ↑	0"	1/8"	5/16"	7/16"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/16"	1 1/8"	1 5/8"	1 1/16"	1 3/4"	1 13/16"	1 1/8"	1 1/8"	1 7/8"	1 5/16"

GIRDER 8																					
40TH POINTS	0.50	0.525	0.550	0.575	0.60	0.625	0.650	0.675	0.70	0.725	0.750	0.775	0.80	0.825	0.850	0.875	0.90	0.925	0.950	0.975	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.354	0.353	0.350	0.343	0.337	0.328	0.317	0.303	0.288	0.271	0.252	0.232	0.210	0.187	0.163	0.137	0.111	0.084	0.056	0.028	0.000
DEFLECTION DUE TO SDL * ↓	0.195	0.194	0.193	0.189	0.186	0.180	0.174	0.167	0.158	0.149	0.139	0.128	0.116	0.103	0.090	0.076	0.061	0.046	0.031	0.016	0.000
FINAL CAMBER ↑	1 5/16"	1 7/8"	1 7/8"	1 7/8"	1 13/16"	1 3/4"	1 11/16"	1 5/8"	1 9/16"	1 1/16"	1 3/8"	1 1/4"	1 1/8"	1"	7/8"	3/4"	5/8"	7/16"	5/16"	1/8"	0"

GIRDERS 2, 3, 4, 5, 6, 9, 10, 11, AND 12																					
40TH POINTS	0.00	0.025	0.050	0.075	0.10	0.125	0.150	0.175	0.20	0.225	0.250	0.275	0.30	0.325	0.350	0.375	0.40	0.425	0.450	0.475	0.50
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.028	0.056	0.084	0.111	0.137	0.163	0.187	0.209	0.232	0.252	0.271	0.288	0.303	0.317	0.328	0.337	0.345	0.350	0.353	0.354
DEFLECTION DUE TO SDL * ↓	0.000	0.020	0.040	0.059	0.078	0.097	0.115	0.132	0.147	0.163	0.178	0.191	0.203	0.214	0.223	0.231	0.238	0.243	0.247	0.249	0.250
FINAL CAMBER ↑	0"	1/8"	3/16"	5/16"	3/8"	1/2"	9/16"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1 1/16"	1 1/8"	1 3/16"	1 3/16"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

GIRDERS 2, 3, 4, 5, 6, 9, 10, 11, AND 12																					
40TH POINTS	0.50	0.525	0.550	0.575	0.60	0.625	0.650	0.675	0.70	0.725	0.750	0.775	0.80	0.825	0.850	0.875	0.90	0.925	0.950	0.975	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.354	0.353	0.350	0.345	0.337	0.328	0.317	0.303	0.288	0.271	0.252	0.232	0.210	0.187	0.163	0.137	0.111	0.084	0.056	0.028	0.000
DEFLECTION DUE TO SDL * ↓	0.250	0.249	0.247	0.243	0.238	0.231	0.223	0.214	0.203	0.191	0.178	0.163	0.148	0.132	0.115	0.097	0.078	0.059	0.040	0.020	0.000
FINAL CAMBER ↑	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 13/16"	1 3/16"	1 1/8"	1 1/16"	1"	15/16"	7/8"	13/16"	3/4"	11/16"	9/16"	1/2"	3/8"	5/16"	3/16"	1/8"	0"

DEAD LOAD DEFLECTION TABLE FOR GIRDERS, SPAN B

GIRDERS 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, AND 13																					
TWENTIETH POINTS	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.029	0.057	0.083	0.107	0.129	0.147	0.162	0.172	0.178	0.181	0.178	0.172	0.162	0.147	0.129	0.107	0.083	0.057	0.029	0.000
DEFLECTION DUE TO SDL * ↓	0.000	0.015	0.030	0.043	0.056	0.067	0.077	0.084	0.090	0.093	0.094	0.093	0.090	0.084	0.077	0.067	0.056	0.043	0.030	0.015	0.000
FINAL CAMBER ↑	0"	3/16"	5/16"	1/2"	5/8"	3/4"	13/16"	15/16"	1"	1"	1 1/16"	1"	1"	15/16"	13/16"	3/4"	5/8"	1/2"	5/16"	3/16"	0"

GIRDERS 7 AND 8																					
TWENTIETH POINTS	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.029	0.057	0.083	0.107	0.129	0.147	0.162	0.172	0.178	0.181	0.178	0.172	0.162	0.147	0.129	0.107	0.083	0.057	0.029	0.000
DEFLECTION DUE TO SDL * ↓	0.000	0.012	0.025	0.036	0.046	0.056	0.064	0.070	0.075	0.078	0.079	0.078	0.075	0.070	0.064	0.056	0.047	0.036	0.025	0.012	0.000
FINAL CAMBER ↑	0"	3/16"	3/8"	9/16"	3/4"	7/8"	1"	1 1/8"	1 3/16"	1 3/16"	1 1/4"	1 3/16"	1 3/16"	1 1/8"	1"	7/8"	3/4"	9/16"	3/8"	3/16"	0"

↑ = UPWARD CAMBER

↓ = DOWNWARD DEFLECTION

* INCLUDES FUTURE WEARING SURFACE IN SUPERIMPOSED DEAD LOAD.

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN INCHES (FRACTION FORM).

SDL = SUPERIMPOSED DEAD LOAD

PROJECT NO. B-3186/B-5898
HAYWOOD COUNTY
STATION: 42+71.13 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD DEFLECTIONS
AND CAMBER ORDINATES



Kent Dickens 1/25/2022

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--

SHEET NO. SOI-27
TOTAL SHEETS 59

DES BY: <u>B. ROGERS</u>	DATE: <u>03/21</u>	DWG BY: <u>D. CARTER</u>	DATE: <u>03/21</u>
DES CHK: <u>K. DICKENS</u>	DATE: <u>03/21</u>	CHK BY: <u>K. DICKENS</u>	DATE: <u>06/21</u>



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.PHT
PENTABLE: NCDOT STRUCTURES DEFAULT PEN.TBI
USER: PPEPERSO
DATE: 1/25/2022
TIME: 8:29:46 AM
FILE: ... \401.130.B5898B3186.SMU.DL_027_430168.dgn