DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	SPAN B GIRDER #4																				
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	0.003	0.006	0.009	0.013	0.017	0.022	0.025	0.028	0.031	0.032	0.033	0.032	0.030	0.027	0.023	0.018	0.013	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.002	0.008	0.017	0.028	0.040	0.053	0.065	0.077	0.086	0.093	0.097	0.099	0.096	0.091	0.082	0.070	0.055	0.038	0.020	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL ↓	0.000	0.000	0.001	0.002	0.003	0.004	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.007	0.006	0.004	0.002	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.003	0.012	0.025	0.040	0.058	0.076	0.093	0.110	0.124	0.134	0.140	0.142	0.138	0.130	0.118	0.100	0.079	0.055	0.028	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.017	0.032	0.046	0.057	0.067	0.075	0.081	0.085	0.088	0.089	0.088	0.085	0.080	0.074	0.065	0.055	0.043	0.029	0.015	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	1/4"	1/2"	7/8"	1 3/16"	1 1/2"	1 13/16"	2 1/8"	2 5/16"	2 9/16"	2 11/16"	2 3/4"	2 11/16"	2 5/8"	2 7/16"	2 3/16"	1 7/8"	1 7/16"	1"	1/2"	0

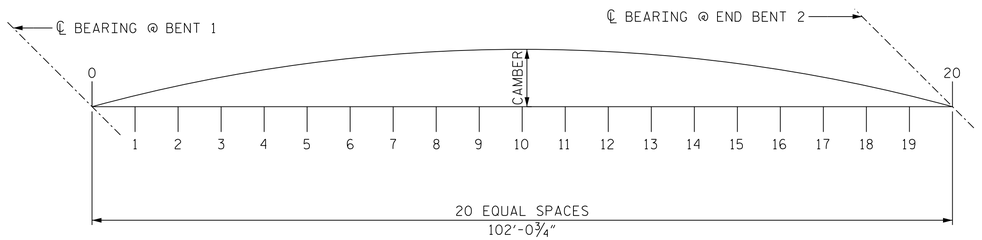
DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	SPAN B GIRDER #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	0.001	0.003	0.006	0.009	0.013	0.017	0.022	0.025	0.028	0.031	0.032	0.033	0.032	0.030	0.027	0.023	0.018	0.013	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.002	0.008	0.017	0.028	0.040	0.053	0.065	0.077	0.086	0.093	0.098	0.099	0.097	0.091	0.082	0.070	0.056	0.038	0.020	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL ↓	0.000	0.000	0.001	0.003	0.004	0.006	0.008	0.010	0.012	0.013	0.014	0.015	0.015	0.014	0.014	0.012	0.010	0.008	0.006	0.003	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.003	0.012	0.026	0.042	0.060	0.079	0.097	0.114	0.128	0.138	0.145	0.146	0.143	0.135	0.122	0.104	0.082	0.057	0.029	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.017	0.031	0.044	0.055	0.065	0.072	0.078	0.081	0.084	0.084	0.082	0.079	0.074	0.067	0.058	0.047	0.035	0.024	0.012	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	1/4"	1/2"	13/16"	1 3/16"	1 1/2"	1 13/16"	2 1/16"	2 5/16"	2 9/16"	2 11/16"	2 3/4"	2 11/16"	2 5/8"	2 7/16"	2 1/8"	1 13/16"	1 7/16"	15/16"	1/2"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	SPAN B GIRDER #6																				
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	0.003	0.006	0.009	0.013	0.017	0.022	0.025	0.028	0.031	0.032	0.033	0.032	0.030	0.027	0.023	0.018	0.013	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0.000	0.002	0.008	0.017	0.028	0.040	0.053	0.065	0.077	0.087	0.094	0.098	0.099	0.097	0.091	0.083	0.070	0.056	0.038	0.020	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL ↓	0.000	0.001	0.002	0.004	0.006	0.009	0.011	0.014	0.016	0.018	0.020	0.020	0.021	0.020	0.019	0.017	0.015	0.011	0.008	0.004	0.000
TOTAL DEAD LOAD DEFLECTION ↓	0.000	0.004	0.013	0.027	0.044	0.062	0.082	0.101	0.119	0.133	0.144	0.151	0.152	0.149	0.140	0.127	0.108	0.085	0.059	0.030	0.000
VERTICAL CURVE ORDINATE ↑	0.000	0.016	0.030	0.042	0.052	0.060	0.067	0.072	0.075	0.076	0.076	0.073	0.069	0.063	0.055	0.046	0.037	0.028	0.018	0.009	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	1/4"	1/2"	13/16"	1 1/8"	1 1/2"	1 13/16"	2 1/16"	2 5/16"	2 1/2"	2 5/8"	2 11/16"	2 11/16"	2 9/16"	2 3/8"	2 1/16"	1 3/4"	1 3/8"	15/16"	1/2"	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).



SCHEMATIC CAMBER ORDINATES

SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.

DRAWN BY : G.C. MORRIS DATE : 08-19
CHECKED BY : W.S. ARAFAT DATE : 11-19
DESIGN ENGINEER OF RECORD: O. PUIGCERVER DATE : 09-19

NORTH CAROLINA PROFESSIONAL SEAL 17230 ENGINEER WAEL S. ARAFAT
DocuSigned by: Wael Arafat 7807F1ACBAB54A2...
4/9/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PARRISH & PARTNERS
Parrish and Partners of North Carolina, PLLC
421 Fayetteville St. #1100
Raleigh, NC 27601
NC License #P-1212

PROJECT NO. BR-0047
STOKES COUNTY
STATION: 18+27.98 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

DEAD LOAD DEFLECTIONS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
1			3			TOTAL SHEETS
2			4			39