

NOTES

GIRDER CAMBER PREDICTED USING REFINED METHOD FOR CAMBER, PER NCDOT STRUCTURAL DESIGN MANUAL.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN A																						
GIRDERS 1&2	TWENTIETH POINTS	0.00	0.05	0.1	.15	0.2	.25	0.3	.35	0.4	.45	0.5	.55	0.6	.65	0.7	.75	0.8	.85	0.9	.95	1.00
	CAMBER (GIRDER ALONE IN PLACE) (FT.)	0.000	0.006	0.012	0.017	0.022	0.027	0.031	0.034	0.036	0.037	0.038	0.037	0.036	0.034	0.031	0.027	0.022	0.017	0.012	0.006	0.000
	DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.)	0.000	0.001	0.002	0.004	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.007	0.006	0.005	0.004	0.002	0.001	0.000
	FINAL CAMBER	0"	1/16"	1/8"	3/16"	3/16"	1/4"	5/16"	5/16"	5/16"	5/16"	3/8"	5/16"	5/16"	5/16"	5/16"	1/4"	3/16"	3/16"	1/8"	1/16"	0"
SPAN B&C																						
GIRDERS 1&2	TWENTIETH POINTS	0.00	0.05	0.1	.15	0.2	.25	0.3	.35	0.4	.45	0.5	.55	0.6	.65	0.7	.75	0.8	.85	0.9	.95	0.00
	CAMBER (GIRDER ALONE IN PLACE) (FT.)	0.000	0.016	0.032	0.047	0.060	0.072	0.082	0.091	0.097	0.100	0.101	0.100	0.097	0.091	0.082	0.072	0.060	0.047	0.032	0.016	0.000
	DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.)	0.000	0.009	0.019	0.029	0.038	0.047	0.053	0.059	0.063	0.065	0.066	0.065	0.063	0.059	0.053	0.047	0.038	0.029	0.019	0.009	0.000
	FINAL CAMBER	0"	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	3/8"	3/8"	7/16"	7/16"	7/16"	3/8"	3/8"	3/8"	5/16"	1/4"	3/16"	1/8"	1/16"	0"
SPAN D																						
GIRDERS 1&2	TWENTIETH POINTS	0.00	0.05	0.1	.15	0.2	.25	0.3	.35	0.4	.45	0.5	.55	0.6	.65	0.7	.75	0.8	.85	0.9	.95	1.00
	CAMBER (GIRDER ALONE IN PLACE) (FT.)	0.000	0.007	0.014	0.020	0.026	0.031	0.036	0.039	0.042	0.044	0.044	0.044	0.042	0.039	0.036	0.031	0.026	0.020	0.014	0.007	0.000
	DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.)	0.000	0.002	0.004	0.006	0.008	0.009	0.011	0.012	0.013	0.013	0.014	0.013	0.013	0.012	0.011	0.009	0.008	0.006	0.004	0.002	0.000
	FINAL CAMBER	0"	1/16"	1/8"	3/16"	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"	3/8"	3/8"	3/8"	5/16"	5/16"	1/4"	1/4"	3/16"	1/8"	1/16"	0"

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

PROJECT NO. U-4424
EDGEcombe COUNTY
 STATION: 66+24.84 -L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**GIRDER CAMBER
 AND
 DEFLECTION TABLES**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
1			3			TOTAL SHEETS
2			4			37

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

3/28/2023

DocuSigned by:
 Thomas Harris

WSP USA Inc.
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
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 LICENSE NO. F-0165

DESIGNED BY: J. WHEATLEY DATE : MAR 2023
 DRAWN BY: J. WHEATLEY DATE : MAR 2023
 CHECKED BY: T. KIRSCHBAUM DATE : MAR 2023
 DESIGN ENGINEER OF RECORD: T. HARRIS DATE : MAR 2023

3/28/2023
 J:\188771-06 NCDOT NC 111\U-4424\Structures\Dr-off\ing\DGNS\401_039_U4424_SWL.DL_019.dgn