

R:\Structures\04_Station\05 RFC Bridge Plans\401_051_B5808_SMU_DL2_029_120051.dgn

3/6/2023 10:40:45 AM

HensleSC

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDER 1

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
◆▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.015	0.029	0.043	0.058	0.069	0.080	0.087	0.095	0.097	0.099	0.097	0.095	0.087	0.080	0.069	0.058	0.043	0.029	0.015	0.000
FINAL CAMBER	↑ 0"	0 ⁵ / ₁₆ "	0 ⁵ / ₈ "	0 ⁷ / ₈ "	1 ¹ / ₁₆ "	1 ¹ / ₄ "	1 ³ / ₈ "	1 ⁷ / ₁₆ "	1 ⁹ / ₁₆ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ³ / ₈ "	1 ¹ / ₄ "	1 ¹ / ₁₆ "	0 ⁷ / ₈ "	0 ⁵ / ₈ "	0 ⁵ / ₁₆ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDERS 2 & 3

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
◆▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.016	0.033	0.049	0.065	0.078	0.090	0.098	0.106	0.109	0.112	0.109	0.106	0.098	0.090	0.078	0.065	0.049	0.033	0.016	0.000
FINAL CAMBER	↑ 0"	0 ⁵ / ₁₆ "	0 ⁵ / ₈ "	0 ¹³ / ₁₆ "	1"	1 ¹ / ₈ "	1 ¹ / ₄ "	1 ⁹ / ₁₆ "	1 ⁷ / ₁₆ "	1 ¹ / ₁₆ "	1 ¹ / ₁₆ "	1 ¹ / ₁₆ "	1 ¹ / ₁₆ "	1 ⁵ / ₁₆ "	1 ¹ / ₄ "	1 ¹ / ₈ "	1"	0 ¹³ / ₁₆ "	0 ⁵ / ₈ "	0 ⁵ / ₁₆ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDER 4

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
◆▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.013	0.027	0.040	0.052	0.062	0.072	0.079	0.085	0.087	0.089	0.087	0.085	0.079	0.072	0.062	0.052	0.040	0.027	0.013	0.000
FINAL CAMBER	↑ 0"	0 ⁵ / ₁₆ "	0 ¹¹ / ₁₆ "	0 ⁷ / ₈ "	1 ¹ / ₈ "	1 ⁵ / ₁₆ "	1 ¹ / ₂ "	1 ⁹ / ₁₆ "	1 ¹¹ / ₁₆ "	1 ¹¹ / ₁₆ "	1 ³ / ₄ "	1 ¹¹ / ₁₆ "	1 ¹¹ / ₁₆ "	1 ⁹ / ₁₆ "	1 ¹ / ₂ "	1 ⁵ / ₁₆ "	1 ¹ / ₈ "	0 ⁷ / ₈ "	0 ¹¹ / ₁₆ "	0 ⁵ / ₁₆ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDER 5

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
◆▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.016	0.032	0.047	0.062	0.074	0.085	0.093	0.100	0.103	0.106	0.103	0.100	0.093	0.085	0.074	0.062	0.047	0.032	0.016	0.000
FINAL CAMBER	↑ 0"	0 ⁵ / ₁₆ "	0 ⁵ / ₈ "	0 ¹³ / ₁₆ "	1"	1 ³ / ₁₆ "	1 ⁵ / ₁₆ "	1 ³ / ₈ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ⁹ / ₁₆ "	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ³ / ₈ "	1 ⁵ / ₁₆ "	1 ³ / ₁₆ "	1"	0 ¹³ / ₁₆ "	0 ⁵ / ₈ "	0 ⁵ / ₁₆ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDERS 6 & 7

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
◆▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.019	0.037	0.055	0.074	0.088	0.103	0.112	0.121	0.124	0.128	0.124	0.121	0.112	0.103	0.088	0.074	0.055	0.037	0.019	0.000
FINAL CAMBER	↑ 0"	0 ¹ / ₄ "	0 ³ / ₁₆ "	0 ¹¹ / ₁₆ "	0 ⁷ / ₈ "	1"	1 ¹ / ₈ "	1 ³ / ₁₆ "	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ³ / ₁₆ "	1 ¹ / ₈ "	1"	0 ⁷ / ₈ "	0 ¹¹ / ₁₆ "	0 ³ / ₁₆ "	0 ¹ / ₄ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDERS 8 & 9

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
◆▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.016	0.032	0.048	0.063	0.076	0.088	0.096	0.104	0.106	0.109	0.106	0.104	0.096	0.088	0.076	0.063	0.048	0.032	0.016	0.000
FINAL CAMBER	↑ 0"	0 ⁵ / ₁₆ "	0 ⁵ / ₈ "	0 ¹³ / ₁₆ "	1"	1 ¹ / ₈ "	1 ⁵ / ₁₆ "	1 ³ / ₈ "	1 ⁷ / ₁₆ "	1 ⁷ / ₁₆ "	1 ¹ / ₂ "	1 ⁷ / ₁₆ "	1 ⁷ / ₁₆ "	1 ³ / ₈ "	1 ⁵ / ₁₆ "	1 ¹ / ₈ "	1"	0 ¹³ / ₁₆ "	0 ⁵ / ₈ "	0 ⁵ / ₁₆ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDERS 10 & 11

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.019	0.039	0.057	0.076	0.091	0.106	0.116	0.125	0.128	0.132	0.128	0.125	0.116	0.106	0.091	0.076	0.057	0.039	0.019	0.000
FINAL CAMBER	↑ 0"	0 ¹ / ₄ "	0 ¹ / ₂ "	0 ¹¹ / ₁₆ "	0 ⁷ / ₈ "	0 ¹⁵ / ₁₆ "	1 ¹ / ₁₆ "	1 ¹ / ₈ "	1 ³ / ₁₆ "	1 ³ / ₁₆ "	1 ¹ / ₄ "	1 ³ / ₁₆ "	1 ³ / ₁₆ "	1 ¹ / ₈ "	1 ¹ / ₁₆ "	0 ¹⁵ / ₁₆ "	0 ⁷ / ₈ "	0 ¹¹ / ₁₆ "	0 ¹ / ₂ "	0 ¹ / ₄ "	0"

DEAD LOAD DEFLECTION TABLE FOR SPAN B

GIRDER 12

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	0.041	0.083	0.115	0.147	0.171	0.195	0.209	0.224	0.229	0.233	0.229	0.224	0.209	0.195	0.171	0.147	0.115	0.083	0.041	0.000
▲ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓ 0.000	0.018	0.035	0.052	0.069	0.082	0.096	0.104	0.113	0.116	0.119	0.116	0.113	0.104	0.096	0.082	0.069	0.052	0.035	0.018	0.000
FINAL CAMBER	↑ 0"	0 ⁵ / ₁₆ "	0 ⁹ / ₁₆ "	0 ³ / ₄ "	0 ¹⁵ / ₁₆ "	1 ¹ / ₁₆ "	1 ³ / ₁₆ "	1 ¹ / ₄ "	1 ⁵ / ₁₆ "	1 ³ / ₈ "	1 ³ / ₈ "	1 ³ / ₈ "	1 ⁵ / ₁₆ "	1 ¹ / ₄ "	1 ³ / ₁₆ "	1 ¹ / ₁₆ "	0 ¹⁵ / ₁₆ "	0 ³ / ₄ "	0 ⁹ / ₁₆ "	0 ⁵ / ₁₆ "	0"

↑ - DENOTES UPWARD CAMBER

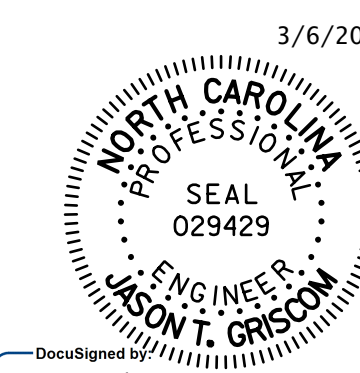
↓ - DENOTES DOWNWARD DEFLECTION

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

◆ DUE TO STAGED CONSTRUCTION, THE DEFLECTION DUE TO SIDEWALK AND CONCRETE MEDIAN ARE NOT INCLUDED.

▲ DUE TO STAGED CONSTRUCTION, THE DEFLECTION DUE TO FUTURE WEARING SURFACE IS NOT INCLUDED.

PROJECT NO. B-5808
CABARRUS COUNTY
 STATION: 20+64.00 -L-



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DEAD LOAD DEFLECTIONS SPAN B					
REVISIONS					SHEET NO. S-29
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS 65					

ASSEMBLED BY : SGH DATE : 12-22
 CHECKED BY : MLO DATE : 12-22
 DESIGN ENGINEER OF RECORD : J. GRISCOM DATE : 3-23