

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

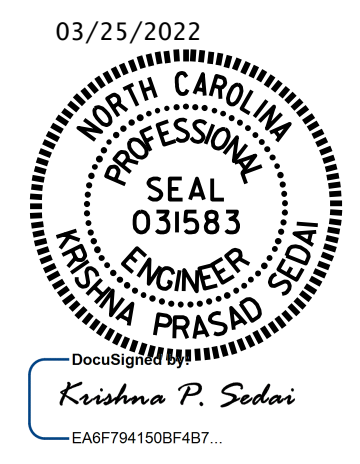
GIRDERS 1 & 4																																									
FOURTIETH POINTS	0	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	0
DEFLECTION DUE TO WEIGHT OF GIRDER ↓	0	0.012	0.024	0.036	0.047	0.058	0.069	0.079	0.088	0.097	0.105	0.112	0.119	0.125	0.131	0.135	0.139	0.142	0.144	0.145	0.146	0.145	0.144	0.142	0.139	0.135	0.131	0.125	0.119	0.112	0.105	0.097	0.088	0.079	0.069	0.058	0.047	0.036	0.024	0.012	0
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.031	0.062	0.100	0.137	0.172	0.206	0.237	0.268	0.295	0.322	0.345	0.368	0.387	0.405	0.419	0.432	0.440	0.448	0.451	0.454	0.451	0.448	0.440	0.432	0.419	0.405	0.387	0.368	0.345	0.322	0.295	0.268	0.237	0.206	0.172	0.137	0.100	0.062	0.031	0
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL ↓	0	0.005	0.011	0.016	0.021	0.026	0.031	0.035	0.039	0.043	0.047	0.050	0.053	0.056	0.058	0.060	0.062	0.063	0.064	0.065	0.065	0.065	0.064	0.063	0.062	0.060	0.058	0.056	0.053	0.050	0.047	0.043	0.039	0.035	0.031	0.026	0.021	0.016	0.011	0.005	0
TOTAL DEAD LOAD DEFLECTION ↓	0	0.048	0.097	0.152	0.205	0.256	0.306	0.351	0.395	0.435	0.474	0.507	0.540	0.568	0.594	0.614	0.633	0.645	0.656	0.661	0.665	0.661	0.656	0.645	0.633	0.614	0.594	0.568	0.540	0.507	0.474	0.435	0.395	0.351	0.306	0.256	0.205	0.152	0.097	0.048	0
REQUIRED CAMBER ↑	0	9/16"	1 3/16"	1 13/16"	2 1/16"	3 1/16"	3 11/16"	4 3/16"	4 3/4"	5 1/4"	5 11/16"	6 1/16"	6 1/2"	6 13/16"	7 1/8"	7 3/8"	7 5/8"	7 3/4"	7 7/8"	7 15/16"	8"	7 15/16"	7 7/8"	7 3/4"	7 5/8"	7 3/8"	7 1/8"	6 13/16"	6 1/2"	6 1/16"	5 11/16"	5 1/4"	4 3/4"	4 3/16"	3 11/16"	3 1/16"	2 7/16"	1 13/16"	1 3/16"	9/16"	0

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GIRDERS 2 & 3																																									
FOURTIETH POINTS	0	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	0
DEFLECTION DUE TO WEIGHT OF GIRDER ↓	0	0.012	0.024	0.036	0.047	0.058	0.069	0.079	0.088	0.097	0.105	0.112	0.119	0.125	0.131	0.135	0.139	0.142	0.144	0.145	0.146	0.145	0.144	0.142	0.139	0.135	0.131	0.125	0.119	0.112	0.105	0.097	0.088	0.079	0.069	0.058	0.047	0.036	0.024	0.012	0
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.032	0.063	0.101	0.138	0.174	0.209	0.240	0.271	0.299	0.326	0.350	0.373	0.392	0.410	0.424	0.437	0.445	0.453	0.456	0.459	0.456	0.453	0.445	0.437	0.424	0.410	0.392	0.373	0.350	0.326	0.299	0.271	0.240	0.209	0.174	0.138	0.101	0.063	0.032	0
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL ↓	0	0.005	0.011	0.016	0.021	0.025	0.030	0.034	0.038	0.042	0.046	0.049	0.052	0.054	0.057	0.059	0.060	0.062	0.063	0.063	0.063	0.063	0.062	0.060	0.059	0.057	0.054	0.052	0.049	0.046	0.042	0.038	0.034	0.030	0.025	0.021	0.016	0.011	0.005	0	
TOTAL DEAD LOAD DEFLECTION ↓	0	0.049	0.098	0.153	0.206	0.257	0.308	0.353	0.397	0.438	0.477	0.511	0.544	0.571	0.598	0.618	0.636	0.649	0.660	0.664	0.668	0.664	0.660	0.649	0.636	0.618	0.598	0.571	0.544	0.511	0.477	0.438	0.397	0.353	0.308	0.257	0.206	0.153	0.098	0.049	0
REQUIRED CAMBER ↑	0	9/16"	1 3/16"	1 13/16"	2 1/2"	3 1/16"	3 11/16"	4 1/4"	4 3/4"	5 1/4"	5 3/4"	6 1/8"	6 1/2"	6 7/8"	7 3/16"	7 1/16"	7 5/16"	7 15/16"	8"	7 15/16"	7 15/16"	7 13/16"	7 5/8"	7 1/16"	7 3/16"	6 7/8"	6 1/2"	6 1/8"	5 3/4"	5 1/4"	4 3/4"	4 1/4"	3 11/16"	3 1/16"	2 1/2"	1 13/16"	1 3/16"	9/16"	0		

* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "REQUIRED CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).
 DEFLECTIONS ARE TAKEN AT FOURTIETH POINTS BETWEEN BEARINGS.

PROJECT NO. B-5772
ROWAN COUNTY
 STATION: 20+91.04 -EL-



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 DEAD LOAD DEFLECTIONS

DRAWN BY : M. G. SHAIKH DATE : 02/2021
 CHECKED BY : A. SORSENGINH DATE : 05/2021
 DESIGN ENGINEER OF RECORD: A. SORSENGINH DATE : 05/2021

NO.	REVISIONS			NO.	REVISIONS			SHEET NO.
	BY:	DATE:	DESCRIPTION		BY:	DATE:	DESCRIPTION	
1				3				S-13
2				4				TOTAL SHEETS 25