

DEAD LOAD DEFLECTION AND CAMBER ORDINATES

	SPAN A																				SPAN B																				
	GIRDER G1R																																								
20TH POINTS	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.65	1.7	1.75	1.8	1.85	1.9	1.95	2.0	2.05	2.1	2.15	2.2	2.25	2.3	2.35	2.4	2.45	2.5	2.55	2.6	2.65	2.7	2.75	2.8	2.85	2.9	2.95	3.0
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.004	0.007	0.010	0.012	0.014	0.015	0.016	0.016	0.015	0.014	0.012	0.010	0.007	0.005	0.003	0.001	0.000	-0.001	-0.001	0.000	0.002	0.005	0.009	0.013	0.018	0.022	0.027	0.030	0.033	0.035	0.037	0.036	0.035	0.033	0.030	0.025	0.020	0.014	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.025	0.049	0.070	0.089	0.103	0.114	0.120	0.121	0.118	0.111	0.099	0.086	0.071	0.053	0.038	0.024	0.013	0.004	0.000	0.000	0.007	0.017	0.032	0.049	0.069	0.089	0.110	0.128	0.143	0.154	0.160	0.161	0.157	0.148	0.132	0.113	0.090	0.062	0.032	0.000
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	0.000	0.004	0.007	0.010	0.013	0.015	0.017	0.018	0.018	0.018	0.017	0.016	0.014	0.012	0.010	0.007	0.005	0.003	0.001	0.000	0.000	0.001	0.003	0.005	0.008	0.011	0.014	0.018	0.020	0.022	0.024	0.025	0.025	0.024	0.022	0.020	0.016	0.013	0.009	0.004	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.033	0.062	0.090	0.113	0.132	0.146	0.154	0.155	0.151	0.142	0.127	0.110	0.090	0.068	0.048	0.030	0.016	0.005	0.000	0.000	0.010	0.025	0.046	0.070	0.098	0.125	0.154	0.179	0.199	0.213	0.221	0.222	0.216	0.202	0.181	0.155	0.122	0.084	0.043	0.000
VERTICAL CURVE ORDINATE	0.000	0.050	0.095	0.135	0.170	0.199	0.223	0.241	0.255	0.263	0.265	0.263	0.255	0.241	0.223	0.199	0.170	0.135	0.095	0.050	0.000	0.060	0.114	0.161	0.202	0.237	0.265	0.288	0.303	0.313	0.316	0.313	0.303	0.288	0.265	0.237	0.202	0.161	0.114	0.060	0.000
REQUIRED CAMBER	0"	15/16"	1 1/8"	2 1/16"	3 3/8"	3 5/16"	4 7/16"	4 3/4"	4 15/16"	4 5/8"	4 1/2"	4 1/16"	4 3/8"	3 5/16"	3 1/2"	2 5/8"	2 3/8"	1 3/16"	1 3/16"	5/8"	0"	1 3/16"	1 1/16"	2 1/2"	3 1/4"	4"	4 1/16"	5 5/16"	5 13/16"	6 1/8"	6 3/8"	6 7/16"	6 5/16"	6 1/16"	5 5/8"	5"	4 5/16"	3 3/8"	2 3/8"	1 1/4"	0"

	GIRDER G2R																																								
20TH POINTS	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.65	1.7	1.75	1.8	1.85	1.9	1.95	2.0	2.05	2.1	2.15	2.2	2.25	2.3	2.35	2.4	2.45	2.5	2.55	2.6	2.65	2.7	2.75	2.8	2.85	2.9	2.95	3.0
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.004	0.007	0.010	0.012	0.014	0.016	0.016	0.016	0.016	0.014	0.013	0.010	0.008	0.005	0.003	0.001	0.000	-0.001	-0.001	0.000	0.002	0.005	0.009	0.013	0.018	0.023	0.027	0.031	0.034	0.036	0.037	0.037	0.036	0.033	0.030	0.025	0.020	0.014	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.026	0.049	0.071	0.089	0.103	0.114	0.121	0.123	0.120	0.113	0.101	0.088	0.073	0.055	0.039	0.025	0.013	0.005	0.000	0.000	0.006	0.017	0.033	0.052	0.074	0.095	0.117	0.135	0.150	0.161	0.168	0.169	0.164	0.155	0.139	0.119	0.094	0.065	0.034	0.000
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	0.000	0.002	0.003	0.004	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.005	0.005	0.003	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.003	0.004	0.005	0.007	0.008	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.008	0.006	0.005	0.003	0.002	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.031	0.059	0.085	0.106	0.124	0.136	0.144	0.146	0.142	0.133	0.119	0.103	0.084	0.063	0.043	0.027	0.014	0.004	-0.001	0.000	0.009	0.023	0.045	0.069	0.097	0.124	0.152	0.175	0.194	0.207	0.215	0.216	0.210	0.197	0.176	0.151	0.119	0.082	0.043	0.000
VERTICAL CURVE ORDINATE	0.000	0.050	0.095	0.135	0.170	0.199	0.223	0.241	0.255	0.263	0.265	0.263	0.255	0.241	0.223	0.199	0.170	0.135	0.095	0.050	0.000	0.060	0.114	0.161	0.202	0.237	0.265	0.288	0.303	0.313	0.316	0.313	0.303	0.288	0.265	0.237	0.202	0.161	0.114	0.060	0.000
REQUIRED CAMBER	0"	15/16"	1 7/8"	2 5/8"	3 5/16"	3 3/8"	4 5/16"	4 5/8"	4 13/16"	4 7/8"	4 3/4"	4 9/16"	4 5/16"	3 7/8"	3 3/16"	2 7/8"	2 3/8"	1 3/16"	1 3/16"	5/8"	0"	1 3/16"	1 5/8"	2 1/2"	3 1/4"	4"	4 1/16"	5 1/4"	5 3/4"	6 1/16"	6 1/4"	6 5/16"	6 1/4"	5 15/16"	5 9/16"	4 5/16"	4 1/4"	3 3/8"	2 3/8"	1 1/4"	0"

	GIRDER G3R																																								
20TH POINTS	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.65	1.7	1.75	1.8	1.85	1.9	1.95	2.0	2.05	2.1	2.15	2.2	2.25	2.3	2.35	2.4	2.45	2.5	2.55	2.6	2.65	2.7	2.75	2.8	2.85	2.9	2.95	3.0
DEFLECTION DUE TO WEIGHT OF STEEL	0.000	0.004	0.007	0.010	0.013	0.015	0.016	0.017	0.016	0.016	0.014	0.013	0.010	0.008	0.006	0.003	0.001	0.000	-0.001	-0.001	0.000	0.002	0.005	0.009	0.013	0.018	0.023	0.027	0.031	0.034	0.036	0.037	0.037	0.036	0.034	0.030	0.026	0.020	0.014	0.007	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.025	0.049	0.071	0.089	0.104	0.115	0.121	0.123	0.120	0.112	0.100	0.087	0.072	0.055	0.039	0.025	0.014	0.005	0.000	0.000	0.007	0.018	0.034	0.053	0.076	0.098	0.120	0.138	0.154	0.165	0.171	0.172	0.167	0.157	0.141	0.120	0.095	0.066	0.034	0.000
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	0.000	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.002	0.001	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.030	0.057	0.083	0.104	0.121	0.134	0.140	0.142	0.138	0.129	0.116	0.100	0.082	0.062	0.043	0.027	0.014	0.004	-0.001	0.000	0.010	0.024	0.044	0.068	0.097	0.124	0.151	0.174	0.193	0.207	0.215	0.215	0.209	0.196	0.176	0.150	0.119	0.082	0.043	0.000
VERTICAL CURVE ORDINATE	0.000	0.050	0.095	0.135	0.170	0.199	0.223	0.241	0.255	0.263	0.265	0.263	0.255	0.241	0.223	0.199	0.170	0.135	0.095	0.050	0.000	0.060	0.114	0.161	0.202	0.237	0.265	0.288	0.303	0.313	0.316	0.313	0.303	0.288	0.265	0.237	0.202	0.161	0.114	0.060	0.000
REQUIRED CAMBER	0"	15/16"	1 3/16"	2 5/8"	3 5/16"	3 3/16"	4 1/4"	4 9/16"	4 3/4"	4 13/16"	4 3/4"	4 9/16"	4 1/4"	3 7/8"	3 3/16"	2 7/8"	2 3/8"	1 3/16"	1 3/16"	5/8"	0"	1 3/16"	1 5/8"	2 1/16"	3 1/4"	4"	4 1/16"	5 1/4"	5 3/4"	6 1/16"	6 1/4"	6 5/16"	6 1/4"	5 15/16"	5 9/16"	4 5/16"	4 1/4"	3 3/8"	2 3/8"	1 1/4"	0"

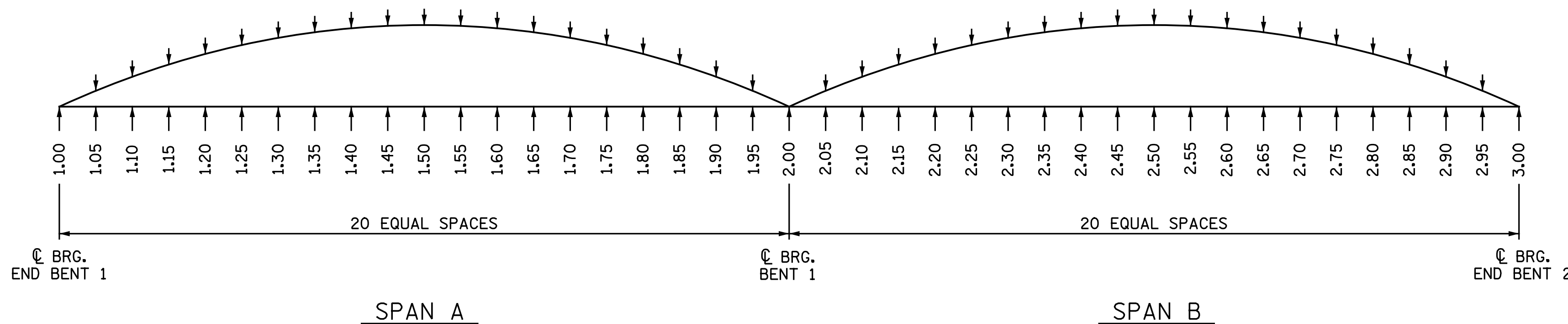
* INCLUDES SLAB, BUILDUPS, AND STAY-IN-PLACE FORMS. DEFLECTIONS BASED ON SLAB POUR SEQUENCE SHOWN ON "BILL OF MATERIAL" SHEET.

NOTES:

- VALUES GIVEN ARE AT TWENTIETH POINTS BETWEEN CENTERLINE OF BEARINGS.
- DEFLECTIONS AND ORDINATES ARE IN FEET (DECIMAL FORM).
- REQUIRED CAMBER VALUES ARE IN INCHES (FRACTION FORM).
- UPWARD DEFLECTIONS AND ORDINATES ARE INDICATED WITH A "-" SIGN.
- UPWARD CAMBERS ARE POSITIVE VALUES.
- SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.

PROJECT NO. U-3330
NASH COUNTY
 STATION: 18+22.61 -Y1-

SHEET 1 OF 2



SCHEMATIC CAMBER ORDINATES

DRAWN BY : C. E. MAYHEW DATE : 8-17-16
 CHECKED BY : B. J. BELL DATE : 9-1-16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE DEAD LOAD DEFLECTION AND CAMBER ORDINATES RIGHT LANES	
	DocuSigned by: 1/27/2017		REVISIONS	
	Michael Baker INTERNATIONAL Michael Baker Engineering 8000 Regency Parkway, Suite 600 Cary, North Carolina 27518 NC License No.: F-1084		NO. <u>1</u> BY: <u> </u> DATE: <u> </u>	NO. <u>3</u> BY: <u> </u> DATE: <u> </u>