DEAD LOAD DEFLECTION TABLE FOR EXTERIOR GIRDERS 1 & 5

	SPAN A																				
TWENTIETH POINTS	0	.05	.1	.15	.2	.25	.3	.35	.4	.45	.5	.55	.6	.65	.7	.75	.8	.85	.9	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.022	0.044	0.065	0.083	0.099	0.113	0.124	0.132	0.137	0.138	0.137	0.132	0.124	0.113	0.099	0.083	0.065	0.044	0.022	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	0.049	0.124	0.194	0.258	0.314	0.361	0.398	0.425	0.441	0.447	0.441	0.425	0.398	0.361	0.314	0.258	0.194	0.124	0.049	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.005	0.011	0.016	0.020	0.024	0.027	0.030	0.032	0.033	0.033	0.033	0.032	0.030	0.027	0.024	0.020	0.016	0.011	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.076	0.179	0.275	0.361	0.437	0.501	0.552	0.589	0.611	0.618	0.611	0.589	0.552	0.501	0.437	0.361	0.275	0.179	0.076	0.000
VERTICAL CURVE ORDINATE	0.000	0.014	0.026	0.037	0.047	0.055	0.061	0.066	0.070	0.072	0.073	0.072	0.070	0.066	0.061	0.055	0.047	0.037	0.026	0.014	0.000
ORDINATE DUE TO SUPERELEVATION	0.000	-0.001	-0.002	-0.003	-0.003	-0.004	-0.004	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.004	-0.004	-0.003	-0.003	-0.002	-0.001	0.000
REQUIRED CAMBER	0	1 1/16"	2 7/16"	3 11/16"	4 7/8"	5 7/8"	6 11/16"	7 3/8"	7 7/8"	8 1/8"	8 1/4"	8 1/8"	7 7/8"	7 3/8"	6 11/16"	5 7/8"	4 7/8"	3 11/16"	2 7/16"	1 1/16"	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).

DEAD LOAD DEFLECTION TABLE FOR INTERIOR GIRDERS 2 & 4

	SPAN A																				
TWENTIETH POINTS	0	.05	.1	.15	.2	.25	.3	.35	.4	.45	.5	.55	.6	.65	.7	.75	.8	.85	.9	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.022	0.044	0.065	0.083	0.099	0.113	0.124	0.132	0.137	0.138	0.137	0.132	0.124	0.113	0.099	0.083	0.065	0.044	0.022	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	0.050	0.126	0.197	0.261	0.318	0.365	0.403	0.430	0.447	0.452	0.447	0.430	0.403	0.365	0.318	0.261	0.197	0.126	0.050	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.005	0.010	0.015	0.019	0.023	0.026	0.028	0.030	0.031	0.032	0.031	0.030	0.028	0.026	0.023	0.019	0.015	0.010	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.077	0.180	0.277	0.363	0.440	0.504	0.555	0.592	0.615	0.622	0.615	0.592	0.555	0.504	0.440	0.363	0.277	0.180	0.077	0.000
VERTICAL CURVE ORDINATE	0.000	0.014	0.026	0.037	0.047	0.055	0.061	0.066	0.070	0.072	0.073	0.072	0.070	0.066	0.061	0.055	0.047	0.037	0.026	0.014	0.000
ORDINATE DUE TO SUPERELEVATION	0.000	-0.001	-0.002	-0.003	-0.003	-0.004	-0.004	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.004	-0.004	-0.003	-0.003	-0.002	-0.001	0.000
REQUIRED CAMBER	0	1 1/16"	2 7/16"	3 3/4"	4 7/8"	5 7/8"	6 3/4"	7 3/8"	7 7/8"	8 3/16"	8 1/4"	8 3/16"	7 7/8"	7 3/8"	6 3/4"	5 7/8"	4 7/8"	3 3/4"	2 7/16"	1 1/16"	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).

DEAD LOAD DEFLECTION TABLE FOR INTERIOR GIRDER 3

	SPAN A																				
TWENTIETH POINTS	0	.05	.1	.15	.2	.25	.3	.35	.4	.45	.5	.55	.6	.65	.7	.75	.8	.85	.9	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.022	0.044	0.065	0.083	0.099	0.113	0.124	0.132	0.137	0.138	0.137	0.132	0.124	0.113	0.099	0.083	0.065	0.044	0.022	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	0.051	0.128	0.199	0.265	0.322	0.370	0.408	0.436	0.453	0.458	0.453	0.436	0.408	0.370	0.322	0.265	0.199	0.128	0.051	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.005	0.010	0.015	0.019	0.023	0.026	0.028	0.030	0.031	0.032	0.031	0.030	0.028	0.026	0.023	0.019	0.015	0.010	0.005	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.078	0.182	0.279	0.367	0.444	0.509	0.560	0.598	0.621	0.628	0.621	0.598	0.560	0.509	0.444	0.367	0.279	0.182	0.078	0.000
VERTICAL CURVE ORDINATE	0.000	0.014	0.026	0.037	0.047	0.055	0.061	0.066	0.070	0.072	0.073	0.072	0.070	0.066	0.061	0.055	0.047	0.037	0.026	0.014	0.000
ORDINATE DUE TO SUPERELEVATION	0.000	-0.001	-0.002	-0.003	-0.003	-0.004	-0.004	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.004	-0.004	-0.003	-0.003	-0.002	-0.001	0.000
REQUIRED CAMBER	0	1 1/16"	2 1/2"	3 3/4"	4 15/16"	5 15/16"	6 13/16"	7 7/16"	7 15/16"	8 1/4"	8 3/8"	8 1/4"	7 15/16"	7 7/16"	6 13/16"	5 15/16"	4 15/16"	3 3/4"	2 1/2"	1 1/16"	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).

PROJECT NO. R-4903
BLADEN COUNTY
STATION: 46+73.19 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD DEFLECTION TABLES
(LEFT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 10730 ENGINEER ANDRE DAVENPORT
DocuSigned by: D. André Davenport, Jr. 895DC284F664495
10/28/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-49
1			3			TOTAL SHEETS
2			4			92

STR. #2

DRAWN BY : K.D. LAYNE DATE : 8-22-12
CHECKED BY : M. K. BEARD DATE : 10-15-12
DESIGN ENGINEER OF RECORD: T. M. GARRISON DATE : 04/12/13

28-OCT-2014 09:03
R:\Structures\Plans\Str#2\R4903_sd_DL_02.dgn
dddavenport