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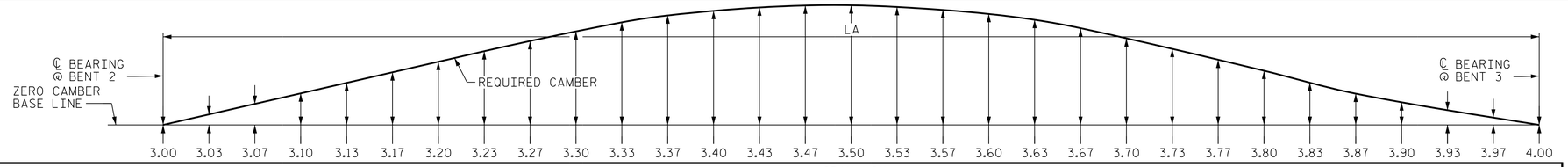

NOTES

SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.

VALUES GIVEN ARE AT THIRTIETH POINTS BETWEEN CENTERLINE OF BEARINGS.

DEFLECTIONS AND ORDINATES ARE IN FEET (DECIMAL FORM).

REQUIRED CAMBER VALUES ARE IN INCHES (FRACTION FORM).

DOWNWARD DEFLECTION IS INDICATED WITH A "-" SIGN.

GIRDER	LA
1	230.606′
2	231.366′
3	232.127′
4	232.887′

SPAN "C"

GIRDER 1

30TH POINTS	3.00	3.03	3.07	3.10	3.13	3.17	3.20	3.23	3.27	3.30	3.33	3.37	3.40	3.43	3.47	3.50	3.53	3.57	3.60	3.63	3.67	3.70	3.73	3.77	3.80	3.83	3.87	3.90	3.93	3.97	4.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.009	-0.018	-0.030	-0.042	-0.054	-0.067	-0.079	-0.091	-0.102	-0.111	-0.119	-0.125	-0.129	-0.131	-0.132	-0.131	-0.128	-0.123	-0.117	-0.109	-0.099	-0.088	-0.077	-0.064	-0.052	-0.040	-0.029	-0.019	-0.010	-0.002
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	-0.023	-0.050	-0.082	-0.117	-0.154	-0.193	-0.230	-0.265	-0.297	-0.324	-0.345	-0.362	-0.373	-0.379	-0.379	-0.374	-0.364	-0.348	-0.328	-0.303	-0.273	-0.240	-0.206	-0.170	-0.135	-0.102	-0.071	-0.044	-0.022	-0.005
DEFLECTION DUE TO WT. OF BARRIER RAIL	0.000	-0.003	-0.006	-0.009	-0.013	-0.017	-0.021	-0.025	-0.029	-0.032	-0.035	-0.038	-0.040	-0.041	-0.042	-0.042	-0.042	-0.041	-0.039	-0.037	-0.034	-0.031	-0.028	-0.024	-0.020	-0.016	-0.013	-0.009	-0.006	-0.003	-0.001
TOTAL DEAD LOAD DEFLECTION	0.000	-0.034	-0.074	-0.121	-0.172	-0.226	-0.281	-0.335	-0.386	-0.431	-0.470	-0.502	-0.526	-0.543	-0.552	-0.553	-0.546	-0.532	-0.511	-0.482	-0.446	-0.404	-0.357	-0.307	-0.255	-0.204	-0.154	-0.109	-0.068	-0.034	-0.008
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING ✳✳	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0″	7/16″	7/8″	1 7/16″	2 1/16″	2 11/16″	3 3/8″	4″	4 5/8″	5 3/16″	5 5/8″	6″	6 5/16″	6 1/2″	6 5/8″	6 5/8″	6 9/16″	6 3/8″	6 1/8″	5 13/16″	5 3/8″	4 13/16″	4 1/4″	3 11/16″	3 1/16″	2 7/16″	1 7/8″	1 5/16″	13/16″	7/16″	1/16″

SPAN "C"

GIRDER 2

30TH POINTS	3.00	3.03	3.07	3.10	3.13	3.17	3.20	3.23	3.27	3.30	3.33	3.37	3.40	3.43	3.47	3.50	3.53	3.57	3.60	3.63	3.67	3.70	3.73	3.77	3.80	3.83	3.87	3.90	3.93	3.97	4.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.009	-0.019	-0.031	-0.044	-0.057	-0.071	-0.084	-0.096	-0.107	-0.117	-0.125	-0.131	-0.135	-0.138	-0.139	-0.137	-0.134	-0.129	-0.123	-0.114	-0.104	-0.092	-0.080	-0.067	-0.053	-0.041	-0.029	-0.018	-0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	-0.024	-0.053	-0.087	-0.124	-0.164	-0.204	-0.244	-0.281	-0.314	-0.343	-0.365	-0.382	-0.394	-0.400	-0.400	-0.394	-0.383	-0.366	-0.345	-0.318	-0.286	-0.252	-0.215	-0.177	-0.140	-0.104	-0.071	-0.042	-0.018	-0.001
DEFLECTION DUE TO WT. OF BARRIER RAIL	0.000	-0.002	-0.005	-0.009	-0.012	-0.016	-0.020	-0.024	-0.027	-0.031	-0.034	-0.036	-0.038	-0.040	-0.040	-0.040	-0.040	-0.039	-0.037	-0.035	-0.032	-0.029	-0.026	-0.022	-0.018	-0.014	-0.011	-0.007	-0.004	-0.002	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	-0.036	-0.078	-0.127	-0.180	-0.237	-0.295	-0.351	-0.404	-0.452	-0.493	-0.526	-0.551	-0.569	-0.578	-0.579	-0.572	-0.556	-0.533	-0.502	-0.464	-0.419	-0.370	-0.317	-0.262	-0.208	-0.155	-0.107	-0.064	-0.028	-0.001
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING ✳✳	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0″	7/16″	15/16″	1 1/2″	2 3/16″	2 13/16″	3 9/16″	4 3/16″	4 7/8″	5 7/16″	5 15/16″	6 5/16″	6 5/8″	6 13/16″	6 15/16″	6 15/16″	6 7/8″	6 11/16″	6 3/8″	6″	5 9/16″	5 1/16″	4 7/16″	3 13/16″	3 1/8″	2 1/2″	1 7/8″	1 5/16″	3/4″	5/16″	0″

SPAN "C"

GIRDER 3

30TH POINTS	3.00	3.03	3.07	3.10	3.13	3.17	3.20	3.23	3.27	3.30	3.33	3.37	3.40	3.43	3.47	3.50	3.53	3.57	3.60	3.63	3.67	3.70	3.73	3.77	3.80	3.83	3.87	3.90	3.93	3.97	4.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.010	-0.021	-0.033	-0.046	-0.060	-0.074	-0.088	-0.101	-0.112	-0.122	-0.131	-0.137	-0.142	-0.144	-0.145	-0.143	-0.140	-0.135	-0.128	-0.118	-0.108	-0.096	-0.082	-0.069	-0.055	-0.042	-0.030	-0.018	-0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	-0.026	-0.056	-0.092	-0.131	-0.172	-0.214	-0.256	-0.295	-0.329	-0.359	-0.382	-0.400	-0.412	-0.418	-0.418	-0.412	-0.400	-0.382	-0.360	-0.331	-0.298	-0.262	-0.223	-0.184	-0.145	-0.108	-0.073	-0.044	-0.019	-0.001
DEFLECTION DUE TO WT. OF BARRIER RAIL	0.000	-0.003	-0.006	-0.009	-0.013	-0.017	-0.021	-0.025	-0.029	-0.033	-0.036	-0.038	-0.040	-0.042	-0.042	-0.043	-0.042	-0.041	-0.039	-0.037	-0.034	-0.031	-0.027	-0.023	-0.019	-0.015	-0.011	-0.008	-0.005	-0.002	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	-0.038	-0.082	-0.133	-0.190	-0.249	-0.309	-0.369	-0.424	-0.474	-0.517	-0.551	-0.577	-0.595	-0.605	-0.605	-0.597	-0.581	-0.556	-0.524	-0.484	-0.437	-0.385	-0.329	-0.272	-0.215	-0.161	-0.111	-0.067	-0.029	-0.001
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING ✳✳	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0″	7/16″	1″	1 5/8″	2 1/4″	3″	3 11/16″	4 7/16″	5 1/16″	5 11/16″	6 3/16″	6 5/8″	6 15/16″	7 1/8″	7 1/4″	7 1/4″	7 3/16″	7″	6 11/16″	6 5/16″	5 13/16″	5 1/4″	4 5/8″	3 15/16″	3 1/4″	2 9/16″	1 15/16″	1 5/16″	13/16″	3/8″	0″

SPAN "C"

GIRDER 4

30TH POINTS	3.00	3.03	3.07	3.10	3.13	3.17	3.20	3.23	3.27	3.30	3.33	3.37	3.40	3.43	3.47	3.50	3.53	3.57	3.60	3.63	3.67	3.70	3.73	3.77	3.80	3.83	3.87	3.90	3.93	3.97	4.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	-0.010	-0.021	-0.034	-0.048	-0.063	-0.077	-0.092	-0.105	-0.117	-0.128	-0.136	-0.143	-0.148	-0.150	-0.151	-0.149	-0.146	-0.140	-0.133	-0.123	-0.112	-0.099	-0.086	-0.072	-0.058	-0.044	-0.031	-0.020	-0.010	-0.002
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	-0.027	-0.058	-0.095	-0.136	-0.179	-0.223	-0.266	-0.307	-0.343	-0.373	-0.398	-0.416	-0.428	-0.434	-0.434	-0.428	-0.415	-0.397	-0.373	-0.343	-0.309	-0.271	-0.231	-0.191	-0.151	-0.113	-0.078	-0.048	-0.023	-0.005
DEFLECTION DUE TO WT. OF BARRIER RAIL	0.000	-0.003	-0.007	-0.011	-0.015	-0.020	-0.025	-0.029	-0.034	-0.038	-0.041	-0.044	-0.046	-0.047	-0.048	-0.048	-0.048	-0.047	-0.045	-0.042	-0.039	-0.036	-0.032	-0.027	-0.023	-0.018	-0.014	-0.010	-0.006	-0.003	-0.001
TOTAL DEAD LOAD DEFLECTION	0.000	-0.040	-0.087	-0.140	-0.200	-0.262	-0.325	-0.387	-0.445	-0.498	-0.542	-0.578	-0.605	-0.623	-0.633	-0.633	-0.625	-0.607	-0.582	-0.548	-0.505	-0.456	-0.402	-0.344	-0.285	-0.227	-0.171	-0.119	-0.074	-0.036	-0.007
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUPERELEVATION ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAMBER DUE TO DISSIPATION RESULTING FROM HEAT CURVING ✳✳	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0″	1/2″	1 1/16″	1 11/16″	2 3/8″	3 1/8″	3 7/8″	4 5/8″	5 3/8″	6″	6 1/2″	6 15/16″	7 1/4″	7 1/2″	7 5/8″	7 5/8″	7 1/2″	7 5/16″	7″	6 9/16″	6 1/16″	5 1/2″	4 13/16″	4 1/8″	3 7/16″	2 3/4″	2 1/16″	1 7/16″	7/8″	7/16″	1/16″

✳ = INCLUDES SLAB, BUILDUPS, AND STAY-IN-PLACE FORMS.
✳✳ = HEAT CURVING IS ALLOWED. CAMBER DISSIPATION DUE TO HEAT CURVING IS ZERO FOR ALL GIRDERS.

PROJECT NO. U-2579AB

FORSYTH COUNTY

STATION: 60+66.06 -Y15FLYAC-

SHEET 3 OF 10

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE DEAD LOAD DEFLECTION AND CAMBER ORDINATES SPAN "C"

NORTH CAROLINA PROFESSIONAL SEAL 29589 ENGINEER DOMENIC A. COLETTI

10/15/2021

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS										SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	NO.	BY:	DATE:		S04-065
1	--	--	3	--	--					TOTAL SHEETS
2	--	--	4	--	--					144

DES BY: G. SCHMITZ	DATE: 09/19	DWG BY: B. PETERSON	DATE: 10/19
DES CHK: S. NIFONG	DATE: 10/19	CHK BY: G. SCHMITZ	DATE: 10/19

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt PENTABLE: NCDOT STRUCTURES DEFAULT PEN.tbl
USER: PPETERSO DATE: 10/14/2021 TIME: 4:02:37 PM
FILE: ...\SUPERS