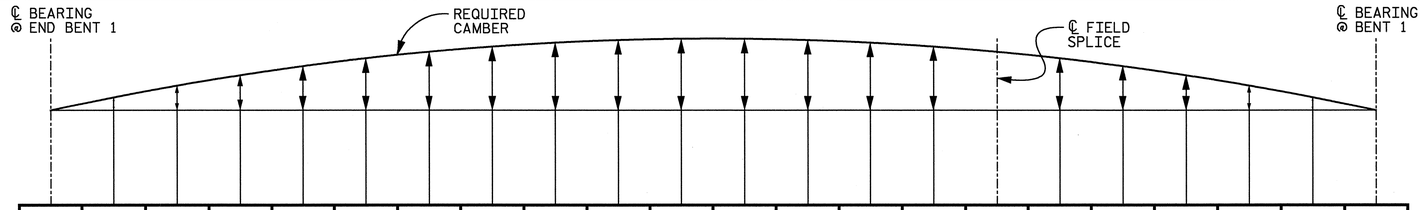

		1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	F.S.	1.15	1.16	1.17	1.18	1.19	1.20
GIRDER 1	DEFLECTION DUE TO WT. OF STEEL	0.000	0.005	0.009	0.013	0.016	0.019	0.021	0.022	0.022	0.022	0.021	0.019	0.017	0.014	0.011	0.011	0.008	0.005	0.003	0.001	0.000	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.016	0.030	0.043	0.054	0.063	0.069	0.073	0.074	0.073	0.069	0.063	0.056	0.047	0.037	0.036	0.027	0.018	0.010	0.005	0.001	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.001	0.003	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.003	0.003	0.003	0.002	0.001	0.000	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.022	0.042	0.060	0.075	0.087	0.096	0.101	0.102	0.101	0.096	0.088	0.078	0.065	0.051	0.050	0.038	0.025	0.014	0.006	0.001	0.000
	VERTICAL CURVE ORDINATE	0.000	0.005	0.008	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.022	0.022	0.022	0.020	0.019	0.019	0.016	0.015	0.011	0.008	0.004	0.000
	SUPERELEVATION ORDINATE	0.000	-0.008	-0.015	-0.023	-0.031	-0.039	-0.046	-0.054	-0.059	-0.055	-0.050	-0.045	-0.040	-0.035	-0.030	-0.029	-0.025	-0.020	-0.015	-0.010	-0.005	0.000
	REQUIRED CAMBER	0	19	35	49	58	65	68	67	64	68	68	65	60	50	40	40	29	20	10	4	0	0
GIRDER 2	DEFLECTION DUE TO WT. OF STEEL	0.000	0.005	0.009	0.013	0.016	0.019	0.021	0.022	0.022	0.022	0.021	0.019	0.017	0.014	0.011	0.011	0.008	0.005	0.003	0.001	0.000	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.017	0.033	0.048	0.060	0.069	0.076	0.080	0.081	0.080	0.076	0.069	0.061	0.051	0.041	0.040	0.030	0.020	0.011	0.005	0.001	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.001	0.002	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.001	0.000	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.023	0.044	0.065	0.080	0.093	0.103	0.108	0.109	0.108	0.103	0.093	0.083	0.069	0.055	0.054	0.040	0.027	0.015	0.006	0.001	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.008	0.012	0.015	0.017	0.018	0.020	0.021	0.022	0.022	0.022	0.021	0.020	0.019	0.018	0.017	0.013	0.011	0.007	0.004	0.000
	SUPERELEVATION ORDINATE	0.000	-0.007	-0.014	-0.020	-0.027	-0.034	-0.041	-0.048	-0.054	-0.061	-0.059	-0.053	-0.047	-0.041	-0.035	-0.035	-0.029	-0.023	-0.018	-0.012	-0.006	0.000
	REQUIRED CAMBER	0	20	38	57	68	76	80	80	76	69	66	62	57	48	38	37	27	17	9	1	-1	0
GIRDER 3	DEFLECTION DUE TO WT. OF STEEL	0.000	0.005	0.009	0.013	0.016	0.019	0.021	0.022	0.022	0.022	0.021	0.019	0.017	0.014	0.011	0.011	0.008	0.005	0.003	0.001	0.000	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.017	0.033	0.048	0.060	0.069	0.076	0.080	0.081	0.080	0.076	0.069	0.061	0.051	0.041	0.040	0.030	0.020	0.011	0.005	0.001	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.001	0.002	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.001	0.000	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.023	0.044	0.065	0.080	0.093	0.103	0.108	0.109	0.108	0.103	0.093	0.083	0.069	0.055	0.054	0.040	0.027	0.015	0.006	0.001	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.009	0.012	0.014	0.016	0.019	0.020	0.021	0.022	0.022	0.022	0.022	0.020	0.018	0.018	0.016	0.014	0.011	0.008	0.005	0.000
	SUPERELEVATION ORDINATE	0.000	-0.006	-0.012	-0.017	-0.023	-0.029	-0.035	-0.040	-0.046	-0.052	-0.058	-0.059	-0.052	-0.046	-0.039	-0.039	-0.033	-0.026	-0.020	-0.013	-0.007	0.000
	REQUIRED CAMBER	0	21	41	60	71	80	87	88	84	78	67	56	53	43	34	33	23	15	6	1	-1	0
GIRDER 4	DEFLECTION DUE TO WT. OF STEEL	0.000	0.005	0.009	0.013	0.016	0.019	0.021	0.022	0.022	0.022	0.021	0.019	0.017	0.014	0.011	0.011	0.008	0.005	0.003	0.001	0.000	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.017	0.033	0.048	0.060	0.069	0.076	0.080	0.081	0.080	0.076	0.069	0.061	0.051	0.041	0.040	0.030	0.020	0.011	0.005	0.001	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.001	0.002	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.001	0.000	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.023	0.044	0.065	0.080	0.093	0.103	0.108	0.109	0.108	0.103	0.093	0.083	0.069	0.055	0.054	0.040	0.027	0.015	0.006	0.001	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.007	0.011	0.014	0.016	0.018	0.020	0.021	0.021	0.022	0.022	0.020	0.020	0.018	0.018	0.016	0.014	0.011	0.008	0.004	0.000
	SUPERELEVATION ORDINATE	0.000	-0.003	-0.006	-0.009	-0.012	-0.015	-0.018	-0.021	-0.025	-0.028	-0.031	-0.034	-0.037	-0.033	-0.028	-0.028	-0.023	-0.019	-0.014	-0.009	-0.005	0.000
	REQUIRED CAMBER	0	24	45	67	82	94	103	107	105	101	94	81	66	56	45	44	33	22	12	5	0	0
GIRDER 5	DEFLECTION DUE TO WT. OF STEEL	0.000	0.005	0.009	0.013	0.016	0.019	0.021	0.022	0.022	0.022	0.021	0.019	0.017	0.014	0.011	0.011	0.008	0.005	0.003	0.001	0.000	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.017	0.033	0.048	0.060	0.069	0.076	0.080	0.081	0.080	0.076	0.069	0.061	0.051	0.041	0.040	0.030	0.020	0.011	0.005	0.001	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.001	0.002	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.001	0.000	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.023	0.044	0.065	0.080	0.093	0.103	0.108	0.109	0.108	0.103	0.093	0.083	0.069	0.055	0.054	0.040	0.027	0.015	0.006	0.001	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.008	0.011	0.014	0.016	0.018	0.019	0.020	0.021	0.021	0.022	0.021	0.020	0.018	0.018	0.016	0.014	0.011	0.008	0.004	0.000
	SUPERELEVATION ORDINATE	0.000	-0.001	-0.002	-0.003	-0.004	-0.005	-0.006	-0.007	-0.008	-0.009	-0.010	-0.011	-0.012	-0.013	-0.013	-0.013	-0.011	-0.009	-0.006	-0.004	-0.002	0.000
	REQUIRED CAMBER	0	26	50	73	90	104	115	120	121	120	114	104	92	76	60	59	45	32	20	10	3	0
GIRDER 6	DEFLECTION DUE TO WT. OF STEEL	0.000	0.005	0.009	0.013	0.016	0.019	0.021	0.022	0.022	0.022	0.021	0.019	0.017	0.014	0.011	0.011	0.008	0.005	0.003	0.001	0.000	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.016	0.030	0.043	0.054	0.063	0.069	0.073	0.074	0.073	0.069	0.063	0.056	0.047	0.037	0.036	0.027	0.018	0.010	0.005	0.001	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.001	0.003	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.004	0.003	0.003	0.003	0.002	0.001	0.000	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.022	0.042	0.060	0.075	0.087	0.096	0.101	0.102	0.101	0.096	0.088	0.078	0.065	0.051	0.050	0.038	0.025	0.014	0.006	0.001	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.009	0.011	0.015	0.017	0.019	0.020	0.022	0.022	0.022	0.022	0.021	0.021	0.019	0.019	0.017	0.014	0.012	0.008	0.005	0.000
	SUPERELEVATION ORDINATE	0.000	0.000	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.003	0.002	0.001	0.000
	REQUIRED CAMBER	0	26	52	72	91	106	117	124	127	126	122	114	103	91	75	74	60	43	29	16	7	0

▲ DENOTES INCLUSION OF SLAB, BUILDUPS AND STAY-IN-PLACE FORMS.

SCHEMATIC CAMBER ORDINATES - SPAN "A"

NOTES:

1. VALUES ARE SHOWN IN METERS, EXCEPT "REQUIRED CAMBER" WHICH IS GIVEN IN MILLIMETERS.
2. SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.
3. FOR GIRDER DESIGNATIONS, SEE "FRAMING PLAN AND GIRDER DETAILS SPAN 'A'" SHEET.
4. DEFLECTIONS IN THE DOWNWARD DIRECTION ARE POSITIVE. A REQUIRED CAMBER IN THE UPWARD DIRECTION IS POSITIVE.

NORTH CAROLINA PROFESSIONAL SEAL 18165 ENGINEER MARK F. ROBBINS
2-21-05

NORTH CAROLINA PROFESSIONAL SEAL 36362 ENGINEER ZHILIANG LIU
2/18/05

PROJECT NO. R-2552C

JOHNSTON COUNTY

STATION: POT 148+08.446 -L2-
POT 23+96.446 -Y4-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CAMBER AND DEFLECTIONS

-LEFT LANE-

REVISIONS	NO.	BY	DATE
	1		
	2		
	3		
	4		

SHEET NO. S-336
TOTAL SHEETS 431

RALPH WHITEHEAD ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX 35624 CHARLOTTE, N.C. 28235

DRAWN BY LGH, DDL DATE 8-04
CHECKED BY GO/ZAL DATE 12-04
DWG. NO. D-1749.15