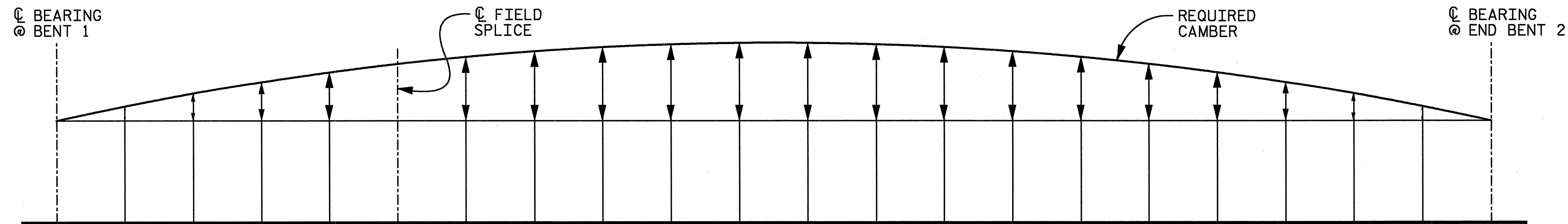


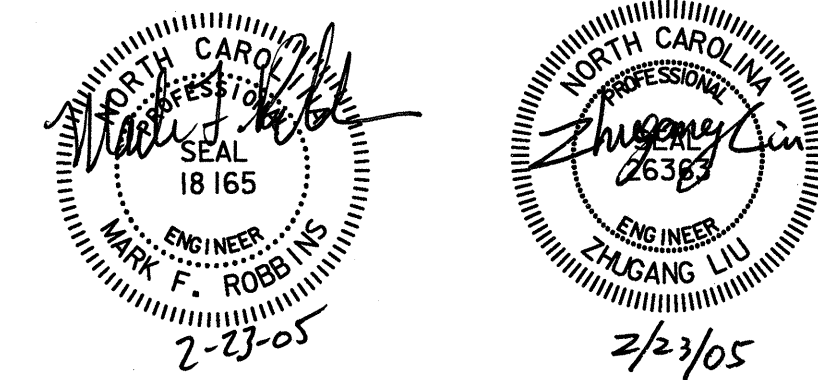
02/23/2005 10:30:45 AM n:\p\proj\3109-300\station\struct\final\3109-300\_camber\_b.dgn david.lowe@ry



	2.00	2.01	2.02	2.03	2.04	F.S.	2.05	2.06	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.14	2.15	2.16	2.17	2.18	2.19	2.20	
GIRDER 1	DEFLECTION DUE TO WT. OF STEEL	0.000	0.002	0.004	0.006	0.009	0.011	0.012	0.015	0.018	0.020	0.022	0.023	0.024	0.024	0.023	0.021	0.019	0.016	0.013	0.009	0.005	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.006	0.014	0.024	0.035	0.043	0.048	0.061	0.072	0.082	0.090	0.096	0.099	0.099	0.096	0.090	0.081	0.069	0.054	0.037	0.019	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.000	0.001	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.005	0.004	0.003	0.001	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.008	0.019	0.032	0.047	0.057	0.064	0.081	0.095	0.108	0.119	0.126	0.130	0.130	0.126	0.118	0.106	0.090	0.071	0.049	0.025	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.007	0.010	0.013	0.014	0.015	0.017	0.019	0.020	0.020	0.020	0.019	0.019	0.018	0.017	0.015	0.013	0.010	0.007	0.004	0.000
	REQUIRED CAMBER	0	12	26	42	60	71	79	98	114	128	139	146	149	149	144	135	121	103	81	56	29	0
GIRDER 2	DEFLECTION DUE TO WT. OF STEEL	0.000	0.001	0.003	0.005	0.007	0.009	0.010	0.012	0.014	0.016	0.018	0.019	0.019	0.018	0.017	0.015	0.013	0.010	0.007	0.004	0.000	
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.004	0.011	0.019	0.029	0.037	0.039	0.049	0.058	0.066	0.073	0.078	0.080	0.080	0.078	0.073	0.065	0.055	0.043	0.030	0.015	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.000	0.001	0.002	0.002	0.003	0.003	0.004	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	0.005	0.015	0.026	0.038	0.049	0.052	0.065	0.076	0.087	0.096	0.103	0.105	0.105	0.102	0.095	0.085	0.072	0.056	0.039	0.020	0.000
	VERTICAL CURVE ORDINATE	0.000	0.004	0.007	0.009	0.012	0.014	0.014	0.016	0.017	0.018	0.018	0.019	0.019	0.018	0.017	0.015	0.014	0.011	0.010	0.007	0.004	0.000
	REQUIRED CAMBER	0	9	22	35	50	63	66	81	93	105	114	122	124	123	119	110	99	83	66	46	24	0
GIRDER 3	DEFLECTION DUE TO WT. OF STEEL	0.000	0.001	0.002	0.004	0.005	0.007	0.007	0.009	0.011	0.012	0.014	0.014	0.015	0.015	0.014	0.013	0.012	0.010	0.008	0.006	0.003	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.003	0.007	0.013	0.020	0.028	0.029	0.036	0.044	0.050	0.056	0.059	0.062	0.062	0.060	0.056	0.050	0.043	0.034	0.023	0.012	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.002	0.002	0.001	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.004	0.010	0.018	0.027	0.037	0.038	0.048	0.058	0.066	0.074	0.077	0.081	0.081	0.078	0.073	0.066	0.056	0.044	0.031	0.016	0.000
	VERTICAL CURVE ORDINATE	0.000	0.003	0.007	0.009	0.011	0.013	0.013	0.014	0.015	0.016	0.017	0.016	0.017	0.016	0.016	0.014	0.012	0.011	0.009	0.006	0.004	0.000
	REQUIRED CAMBER	0	7	17	27	38	50	51	62	73	82	91	93	98	97	94	87	78	67	53	37	20	0
GIRDER 4	DEFLECTION DUE TO WT. OF STEEL	0.000	0.001	0.001	0.002	0.004	0.005	0.005	0.006	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.010	0.009	0.008	0.006	0.004	0.002	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.001	0.004	0.008	0.012	0.018	0.020	0.024	0.030	0.034	0.038	0.041	0.043	0.044	0.043	0.040	0.036	0.031	0.024	0.017	0.009	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.001	0.001	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.002	0.005	0.011	0.017	0.024	0.026	0.032	0.040	0.046	0.051	0.054	0.057	0.058	0.057	0.053	0.048	0.041	0.032	0.022	0.012	0.000
	VERTICAL CURVE ORDINATE	0.000	0.003	0.005	0.008	0.010	0.012	0.012	0.012	0.014	0.014	0.015	0.015	0.015	0.015	0.014	0.013	0.011	0.010	0.007	0.006	0.003	0.000
	REQUIRED CAMBER	0	5	10	19	27	36	38	44	54	60	66	69	72	73	71	66	59	51	39	28	15	0
GIRDER 5	DEFLECTION DUE TO WT. OF STEEL	0.000	0.000	0.001	0.001	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.005	0.004	0.003	0.001	0.000
	DEFLECTION DUE TO WT. OF SLAB ▲	0.000	0.000	0.000	0.002	0.004	0.008	0.010	0.011	0.015	0.018	0.021	0.023	0.025	0.026	0.025	0.024	0.022	0.019	0.015	0.010	0.005	0.000
	DEFLECTION DUE TO WT. OF RAIL	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.000	0.000
	TOTAL DEAD LOAD DEFLECTION	0.000	0.000	0.001	0.003	0.006	0.012	0.014	0.016	0.021	0.025	0.029	0.032	0.034	0.035	0.034	0.032	0.030	0.026	0.020	0.014	0.006	0.000
	VERTICAL CURVE ORDINATE	0.000	0.002	0.005	0.006	0.008	0.010	0.011	0.011	0.012	0.013	0.013	0.013	0.013	0.013	0.012	0.011	0.010	0.009	0.007	0.004	0.002	0.000
	REQUIRED CAMBER	0	2	6	9	14	22	25	27	33	38	42	45	47	48	46	43	40	35	27	18	8	0

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

**SCHMATIC CAMBER ORDINATES - SPAN "B"**  
(FOR NOTES, SEE SHEET 1 OF 2.)



PROJECT No. R-252C  
JOHNSTON COUNTY  
STATION: POS 16+52.599 -Y4-  
POC 9+28.021 -FLYOVER-

SHEET 2 OF 2

STATE OF NORTH CAROLINA	
DEPARTMENT OF TRANSPORTATION	
RALEIGH	
<b>CAMBER AND DEFLECTIONS</b>	
REVISIONS	SHEET NO. 5-413
NO. 1	TOTAL SHEETS 431
DATE	
BY	
NO. 3	
DATE	
BY	
NO. 4	
DATE	
BY	

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

DRAWN BY LGH, DDL DATE 8-04 DWG. NO.  
CHECKED BY ZAL DATE 12-04 D-1748.18