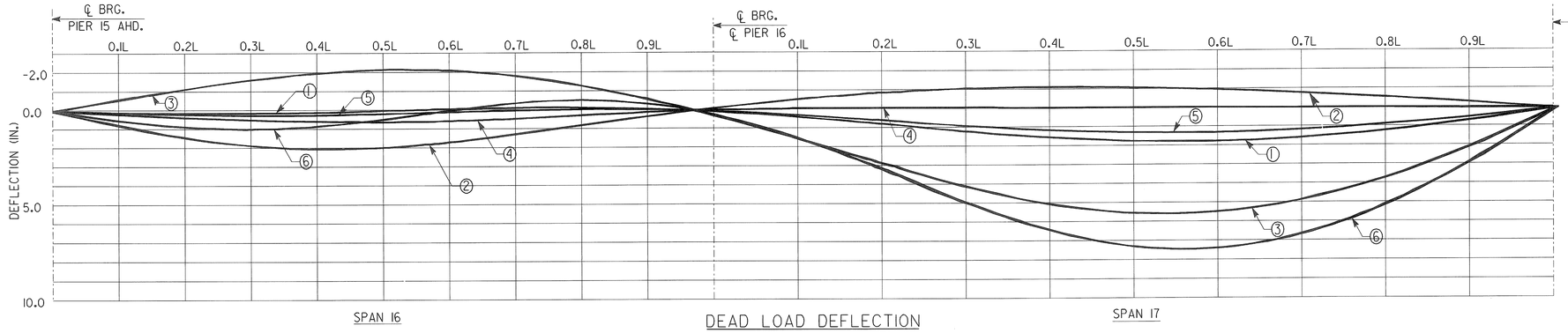
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BHNLB-9073-00(016) BRNLB-9073-00(018)	165	444



① DEAD LOAD DEFLECTION DUE TO WEIGHT OF GIRDER AND CROSS FRAMES.
② DEAD LOAD DEFLECTION DUE TO WEIGHT OF POUR 1
③ DEAD LOAD DEFLECTION DUE TO WEIGHT OF POUR 2
④ DEAD LOAD DEFLECTION DUE TO WEIGHT OF POUR 3
⑤ DEAD LOAD DEFLECTION DUE TO WEIGHT OF PARAPET AND SIDEWALK.
⑥ TOTAL DEAD LOAD DEFLECTION ①+②+③+④+⑤

DEAD LOAD DEFLECTION

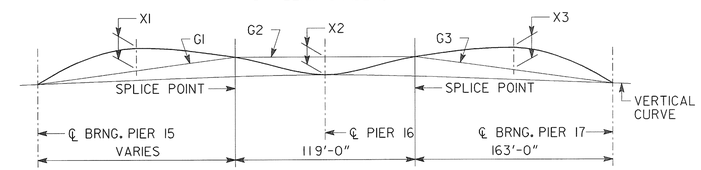
BEAM 1 SHOWN
SEE TABLE FOR OTHER BEAM DEFLECTIONS

CONTINUOUS GIRDER DEFLECTION TABLE (IN.)

		SPAN 16											SPAN 17									
		END	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ PIER 16	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	END
GIRDER 1	①	0.0	0.07	0.11	0.11	0.07	0.00	-0.09	-0.15	-0.17	-0.12	0.0	0.29	0.67	1.10	1.46	1.68	1.71	1.54	1.18	0.65	0.0
	②	0.0	0.74	1.36	1.79	1.99	1.95	1.71	1.32	0.88	0.42	0.0	-0.48	-0.87	-1.09	-1.17	-1.14	-1.02	-0.83	-0.59	-0.31	0.0
	③	0.0	-0.60	-1.15	-1.63	-1.98	-2.18	-2.18	-1.94	-1.47	-0.80	0.0	1.24	2.59	3.91	4.92	5.46	5.45	4.84	3.67	2.02	0.0
	④	0.0	0.17	0.32	0.45	0.54	0.58	0.55	0.44	0.28	0.13	0.0	-0.07	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.01	0.0
	⑤	0.0	0.10	0.18	0.22	0.21	0.16	0.08	-0.01	-0.07	-0.07	0.0	0.21	0.51	0.83	1.09	1.24	1.25	1.12	0.85	0.47	0.0
	⑥	0.0	0.48	0.82	0.94	0.83	0.51	0.07	-0.34	-0.55	-0.44	0.0	1.18	2.81	4.67	6.22	7.18	7.35	6.64	5.10	2.82	0.0
GIRDER 2	①	0.0	0.06	0.09	0.09	0.05	-0.02	-0.10	-0.16	-0.18	-0.12	0.0	0.29	0.68	1.11	1.46	1.68	1.72	1.55	1.19	0.66	0.0
	②	0.0	0.71	1.31	1.73	1.92	1.89	1.65	1.28	0.85	0.41	0.0	-0.47	-0.85	-1.07	-1.15	-1.12	-1.00	-0.81	-0.57	-0.30	0.0
	③	0.0	-0.58	-1.13	-1.60	-1.94	-2.14	-2.13	-1.89	-1.43	-0.78	0.0	1.22	2.57	3.88	4.89	5.43	5.42	4.82	3.66	2.01	0.0
	④	0.0	0.15	0.29	0.41	0.49	0.52	0.49	0.39	0.25	0.11	0.0	-0.06	-0.06	-0.05	-0.03	-0.02	-0.02	-0.01	-0.01	0.00	0.0
	⑤	0.0	0.09	0.16	0.19	0.18	0.13	0.06	-0.02	-0.08	-0.07	0.0	0.21	0.51	0.84	1.10	1.25	1.26	1.13	0.86	0.47	0.0
	⑥	0.0	0.43	0.73	0.83	0.70	0.38	-0.03	-0.41	-0.59	-0.45	0.0	1.19	2.85	4.71	6.26	7.22	7.38	6.67	5.12	2.83	0.0
GIRDER 3	①	0.0	0.05	0.08	0.07	0.03	-0.04	-0.12	-0.17	-0.18	-0.12	0.0	0.29	0.68	1.11	1.47	1.69	1.72	1.55	1.19	0.66	0.0
	②	0.0	0.68	1.26	1.66	1.85	1.82	1.60	1.24	0.82	0.40	0.0	-0.46	-0.83	-1.05	-1.12	-1.09	-0.98	-0.80	-0.56	-0.29	0.0
	③	0.0	-0.57	-1.11	-1.56	-1.90	-2.09	-2.08	-1.85	-1.40	-0.76	0.0	1.21	2.55	3.85	4.85	5.40	5.39	4.79	3.64	2.00	0.0
	④	0.0	0.14	0.26	0.37	0.44	0.46	0.44	0.35	0.22	0.10	0.0	-0.04	-0.03	-0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.0
	⑤	0.0	0.08	0.15	0.17	0.16	0.11	0.04	-0.04	-0.08	-0.07	0.0	0.22	0.52	0.84	1.10	1.25	1.27	1.13	0.86	0.47	0.0
	⑥	0.0	0.38	0.64	0.71	0.57	0.26	-0.13	-0.47	-0.62	-0.47	0.0	1.21	2.88	4.75	6.31	7.26	7.42	6.70	5.14	2.84	0.0
GIRDER 4	①	0.0	0.04	0.06	0.05	0.00	-0.06	-0.14	-0.18	-0.19	-0.13	0.0	0.30	0.69	1.12	1.48	1.69	1.73	1.56	1.19	0.66	0.0
	②	0.0	0.65	1.21	1.60	1.78	1.75	1.54	1.19	0.79	0.38	0.0	-0.45	-0.82	-1.03	-1.10	-1.07	-0.96	-0.78	-0.55	-0.29	0.0
	③	0.0	-0.56	-1.08	-1.53	-1.86	-2.05	-2.04	-1.80	-1.36	-0.74	0.0	1.20	2.52	3.82	4.82	5.37	5.36	4.77	3.62	1.99	0.0
	④	0.0	0.12	0.23	0.32	0.38	0.41	0.38	0.30	0.19	0.08	0.0	-0.03	-0.01	0.02	0.04	0.05	0.05	0.04	0.03	0.02	0.0
	⑤	0.0	0.07	0.13	0.15	0.13	0.09	0.02	-0.05	-0.09	-0.08	0.0	0.22	0.53	0.85	1.11	1.26	1.27	1.14	0.86	0.47	0.0
	⑥	0.0	0.33	0.54	0.59	0.44	0.14	-0.23	-0.54	-0.65	-0.48	0.0	1.23	2.91	4.79	6.35	7.30	7.45	6.73	5.16	2.86	0.0
GIRDER 5	①	0.0	0.03	0.04	0.03	-0.02	-0.08	-0.15	-0.19	-0.19	-0.13	0.0	0.30	0.69	1.12	1.48	1.70	1.73	1.56	1.20	0.66	0.0
	②	0.0	0.63	1.16	1.53	1.71	1.68	1.48	1.15	0.76	0.37	0.0	-0.44	-0.80	-1.01	-1.08	-1.05	-0.94	-0.76	-0.54	-0.28	0.0
	③	0.0	-0.55	-1.06	-1.50	-1.82	-2.00	-1.99	-1.76	-1.32	-0.72	0.0	1.18	2.50	3.79	4.79	5.34	5.34	4.75	3.61	1.98	0.0
	④	0.0	0.10	0.20	0.28	0.33	0.35	0.33	0.26	0.16	0.07	0.0	-0.01	0.02	0.06	0.08	0.08	0.08	0.07	0.05	0.03	0.0
	⑤	0.0	0.06	0.11	0.13	0.11	0.06	0.00	-0.07	-0.10	-0.08	0.0	0.22	0.53	0.86	1.12	1.27	1.28	1.14	0.87	0.48	0.0
	⑥	0.0	0.28	0.45	0.47	0.31	0.01	-0.33	-0.61	-0.68	-0.49	0.0	1.25	2.94	4.83	6.39	7.34	7.49	6.76	5.18	2.87	0.0
GIRDER 6	①	0.0	0.02	0.03	0.01	-0.04	-0.11	-0.17	-0.21	-0.19	-0.13	0.0	0.30	0.70	1.13	1.49	1.71	1.74	1.57	1.20	0.66	0.0
	②	0.0	0.60	1.11	1.47	1.64	1.62	1.42	1.10	0.73	0.36	0.0	-0.43	-0.78	-0.98	-1.05	-1.03	-0.92	-0.75	-0.53	-0.28	0.0
	③	0.0	-0.54	-1.04	-1.47	-1.78	-1.95	-1.94	-1.71	-1.28	-0.70	0.0	1.17	2.47	3.76	4.76	5.31	5.31	4.72	3.59	1.98	0.0
	④	0.0	0.09	0.17	0.23	0.28	0.29	0.27	0.22	0.13	0.05	0.0	0.00	0.05	0.09	0.11	0.12	0.11	0.09	0.07	0.04	0.0
	⑤	0.0	0.06	0.09	0.11	0.09	0.04	-0.02	-0.08	-0.11	-0.08	0.0	0.23	0.54	0.87	1.13	1.28	1.29	1.15	0.87	0.48	0.0
	⑥	0.0	0.23	0.36	0.35	0.18	-0.11	-0.44	-0.68	-0.72	-0.50	0.0	1.27	2.97	4.86	6.43	7.38	7.53	6.79	5.20	2.88	0.0

	CAMBERS (IN.)			CAMBER GRADES (%)		
	X1	X2	X3	G1	G2	G3
GIRDER 1	2.5	-0.4	3.4	-1.2690	-2.2230	-2.7333
GIRDER 2	2.3	-0.2	4.4	-1.2343	-2.1761	-2.8506
GIRDER 3	2.2	0.0	5.6	-1.2000	-2.1270	-2.9306
GIRDER 4	2.1	0.1	5.6	-1.1661	-2.0756	-2.9324
GIRDER 5	1.9	0.3	5.6	-1.1328	-2.0220	-2.9341
GIRDER 6	1.8	0.4	5.6	-1.1000	-1.9661	-2.9360

G = BEAM GRADE %



CAMBER ORDINATE SHOWN INCLUDES DEAD LOAD DEFLECTION DUE TO THE BEAM, SLAB, COPING, RAILING AND SIDEWALK, AND INCLUDES THE VERTICAL CURVE ORDINATE.

BEAM GRADE AND CAMBER ORDINATE DIAGRAM

LOCATION OF GRADE AND CAMBER ORDINATE IS AT TOP OF WEB

BRIDGE NO. 1

Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD, BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770)424-1668

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

CONTINUOUS GIRDER DETAILS
SPRING STREET VIADUCT OVER
CSX TRANSPORTATION

FULTON COUNTY — BHNLB-9073-00(016) BRNLB-9073-00(018)

NO SCALE — JULY 2013

DRAWING NO.	REVISIONS	BY	DATE
35 - 048			
BRIDGE SHEET 48 OF 79			

DESIGNED KAK — CHECKED RLF/GBL — REVIEWED WMD/DLC
DRAWN JRL — DESIGN GROUP SWW — APPROVED BFR

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JA: 2011044 \ BRIDGE \ BRIDGE 1 \ SSI GRD2.DGN