

28-OCT-09  
17:01:01

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

42.46' CURB-TO-CURB; 6 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
45.710	3.625	3.625	22.855	6	68.706	3	1	*****	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.423	7.773	7.773	7.773	7.773	7.773														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
22.855																			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1761	80.807
2	0.8239	56.605
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1761	80.807
2	1.5114	103.841
3	1.2281	84.378
4	0.0844	5.798
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1761	80.807
2	1.5114	103.841
3	1.6291	111.929
4	1.3125	90.176
5	0.3709	25.483
6	0.0000	0.000

LIVE LOAD CASE # 4 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.8241	56.623
6	1.1759	80.789

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LIVE LOAD CASE # 5                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0845	5.807
4	1.2281	84.378
5	1.5115	103.850
6	1.1759	80.789

LIVE LOAD CASE # 6                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3710	25.492
3	1.3126	90.185
4	1.6290	111.920
5	1.5115	103.850
6	1.1759	80.789

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LIVE LOAD CASE # 7                    1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3860	26.517
3	1.2281	84.378
4	0.3860	26.517
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6725	46.202
2	1.6140	110.895
3	1.3275	91.210
4	0.3860	26.517
5	0.0000	0.000
6	0.0000	0.000

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LIVE LOAD CASE # 9                    3 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.6725          46.202
2       1.6140          110.895
3       1.4270          98.043
4       1.6140          110.895
5       0.6725          46.202
6       0.0000          0.000
    
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LIVE LOAD CASE # 10                    2 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.0000           0.000
2       0.5293           36.364
3       1.4709           101.057
4       1.4707           101.048
5       0.5291           36.355
6       0.0000           0.000
    
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LIVE LOAD CASE # 11                    3 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.8596           59.063
2       1.6696           114.713
3       1.4709           101.057
4       1.4707           101.048
5       0.5291           36.355
6       0.0000           0.000
    
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LIVE LOAD CASE # 12                    2 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       1.1761           80.807
2       0.8239           56.605
3       0.0000           0.000
4       0.0000           0.000
5       0.8241           56.623
6       1.1759           80.789
    
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LIVE LOAD CASE # 13                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1761	80.807
2	1.5114	103.841
3	1.2281	84.378
4	0.0844	5.798
5	0.8241	56.623
6	1.1759	80.789

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GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
SUMMARY OF THE LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

42.46' CURB-TO-CURB; 6 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH *****	SKEW ANGLE	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
45.710	3.625	3.625	22.855	6	68.706	3	1		0	3.423	7.773	7.773	7.773	7.773	7.773														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																									
22.855																													
		NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10																	
LL CASE 1	1	1	80.807	56.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 2	2	2	80.807	103.841	84.378	5.798	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 3	3	3	80.807	103.841	111.929	90.176	25.483	0.000	0.000	0.000	0.000	0.000																	
LL CASE 4	4	1	0.000	0.000	0.000	0.000	56.623	80.789	0.000	0.000	0.000	0.000																	
LL CASE 5	5	2	0.000	0.000	5.807	84.378	103.850	80.789	0.000	0.000	0.000	0.000																	
LL CASE 6	6	3	0.000	25.492	90.185	111.920	103.850	80.789	0.000	0.000	0.000	0.000																	
LL CASE 7	7	1	0.000	26.517	84.378	26.517	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 8	8	2	46.202	110.895	91.210	26.517	0.000	0.000	0.000	0.000	0.000	0.000																	
LL CASE 9	9	3	46.202	110.895	98.043	110.895	46.202	0.000	0.000	0.000	0.000	0.000																	
LL CASE 10	10	2	0.000	36.364	101.057	101.048	36.355	0.000	0.000	0.000	0.000	0.000																	
LL CASE 11	11	3	59.063	114.713	101.057	101.048	36.355	0.000	0.000	0.000	0.000	0.000																	
LL CASE 12	12	2	80.807	56.605	0.000	0.000	56.623	80.789	0.000	0.000	0.000	0.000																	
LL CASE 13	13	3	80.807	103.841	84.378	5.798	56.623	80.789	0.000	0.000	0.000	0.000																	

FOR PIER PROGRAM INPUT

61LL 1	1	80806	56605	0	0	0	0	0	0	0
61LL 2	2	80806103841	0	84377	5798	0	0	0	0	0
61LL 3	3	80806103841	0111928	90176	0	25483	0	0	0	0
61LL 4	1	0	0	0	0	56622	80789	0	0	0
61LL 5	2	0	0	5807	84377	0103850	80789	0	0	0
61LL 6	3	0	25491	0	90184111920	0103850	80789	0	0	0
61LL 7	1	0	26517	0	84377	26517	0	0	0	0
61LL 8	2	46201110894	0	91210	26517	0	0	0	0	0
61LL 9	3	46201110894	0	98042110894	0	46201	0	0	0	0
61LL10	2	0	36363	0101056101048	0	36355	0	0	0	0
61LL11	3	59062114713	0101056101048	0	36355	0	0	0	0	0
61LL12	2	80806	56605	0	0	0	56623	80788	0	0
61LL13	3	80806103841	0	84377	5798	0	56623	80788	0	0