

12-NOV-09  
17:15:46

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

PROB. NO. LL01

41.03' 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										
44.280	3.625	3.625	22.140	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
3.625	7.406	7.406	7.406	7.406	7.406														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
22.140																			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1898	81.750
2	0.8102	55.662
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	1.1898	81.750
2	1.4599	100.304
3	1.1898	81.750
4	0.1604	11.021
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	1.1898	81.750
2	1.4599	100.304
3	1.4893	102.326
4	1.3503	92.771
5	0.5107	35.086
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	0.8102	55.662
6	1.1898	81.750

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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	0.1604	11.021
4	1.1898	81.750
5	1.4599	100.304
6	1.1898	81.750

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.5107	35.086
3	1.3503	92.771
4	1.4893	102.326
5	1.4599	100.304
6	1.1898	81.750

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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	0.4051	27.831
3	1.1898	81.750
4	0.4051	27.831
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	0.7553	51.896
2	1.5949	109.581
3	1.2447	85.516
4	0.4051	27.831
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	0.7553	51.896
2	1.5949	109.581
3	1.2995	89.283
4	1.5949	109.581
5	0.7553	51.896
6	0.0000	0.000

LIVE LOAD CASE # 10                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.5802	39.864
3	1.4198	97.548
4	1.4198	97.548
5	0.5802	39.864
6	0.0000	0.000

LIVE LOAD CASE # 11                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0508	72.194
2	1.5294	105.081
3	1.4198	97.548
4	1.4198	97.548
5	0.5802	39.864
6	0.0000	0.000

LIVE LOAD CASE # 12                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1898	81.750
2	0.8102	55.662
3	0.0000	0.000
4	0.0000	0.000
5	0.8102	55.662
6	1.1898	81.750

LIVE LOAD CASE # 13                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1898	81.750
2	1.4599	100.304
3	1.1898	81.750
4	0.1604	11.021
5	0.8102	55.662
6	1.1898	81.750

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

PROB. NO. LL01

41.03' 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						
44.280	3.625	3.625	22.140	6	68.706	3	1		0	3.625	7.406	7.406	7.406	7.406	7.406																				
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																															
22.140																																			
		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	81.750	55.662	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 2	2	2	81.750	100.304	81.750	11.021	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 3	3	3	81.750	100.304	102.326	92.771	35.086	0.000	0.000	0.000	0.000	0.000																							
LL CASE 4	4	1	0.000	0.000	0.000	0.000	55.662	81.750	0.000	0.000	0.000	0.000																							
LL CASE 5	5	2	0.000	0.000	11.021	81.750	100.304	81.750	0.000	0.000	0.000	0.000																							
LL CASE 6	6	3	0.000	35.086	92.771	102.326	100.304	81.750	0.000	0.000	0.000	0.000																							
LL CASE 7	7	1	0.000	27.831	81.750	27.831	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 8	8	2	51.896	109.581	85.516	27.831	0.000	0.000	0.000	0.000	0.000	0.000																							
LL CASE 9	9	3	51.896	109.581	89.283	109.581	51.896	0.000	0.000	0.000	0.000	0.000																							
LL CASE 10	10	2	0.000	39.864	97.548	97.548	39.864	0.000	0.000	0.000	0.000	0.000																							
LL CASE 11	11	3	72.194	105.081	97.548	97.548	39.864	0.000	0.000	0.000	0.000	0.000																							
LL CASE 12	12	2	81.750	55.662	0.000	0.000	55.662	81.750	0.000	0.000	0.000	0.000																							
LL CASE 13	13	3	81.750	100.304	81.750	11.021	55.662	81.750	0.000	0.000	0.000	0.000																							

FOR PIER PROGRAM INPUT

61LL 1	1	1	81749	55662	0	0	0	0	0	0	0	0
61LL 2	2	2	81749	100303	0	81749	11021	0	0	0	0	0
61LL 3	3	3	81749	100303	0	102326	92770	0	35085	0	0	0
61LL 4	4	1	0	0	0	0	0	0	55662	81749	0	0
61LL 5	5	2	0	0	0	11021	81749	0	100303	81749	0	0
61LL 6	6	3	0	35085	0	92770	102326	0	100303	81749	0	0
61LL 7	7	1	0	27831	0	81749	27831	0	0	0	0	0
61LL 8	8	2	51895	109580	0	85516	27831	0	0	0	0	0
61LL 9	9	3	51895	109580	0	89282	109580	0	51895	0	0	0
61LL10	10	2	0	39863	0	97548	97548	0	39863	0	0	0
61LL11	11	3	72194	105081	0	97548	97548	0	39863	0	0	0
61LL12	12	2	81749	55662	0	0	0	0	55662	81749	0	0
61LL13	13	3	81749	100303	0	81749	11021	0	55662	81749	0	0