

27-OCT-09
15:08:52

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

PROB. NO. LL01

36.00' 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
39.250	3.625	3.625	19.625	6	68.706	3	1	8.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	6.400	6.400	6.400	6.400	6.400														

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
19.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0625	73.000
2	0.9375	64.412
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	1.0625	73.000
2	1.3750	94.471
3	1.0625	73.000
4	0.5000	34.353
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	1.0625	73.000
2	1.3750	94.471
3	1.0625	73.000
4	1.3750	94.471
5	1.0625	73.000
6	0.0625	4.294

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	0.9375	64.412
6	1.0625	73.000

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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	0.5000	34.353
4	1.0625	73.000
5	1.3750	94.471
6	1.0625	73.000

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0625	4.294
2	1.0625	73.000
3	1.3750	94.471
4	1.0625	73.000
5	1.3750	94.471
6	1.0625	73.000

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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	0.4688	32.206
3	1.0625	73.000
4	0.4688	32.206
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	0.0000	0.000
2	0.4688	32.206
3	1.0625	73.000
4	1.3750	94.471
5	1.0625	73.000
6	0.0313	2.147

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LIVE LOAD CASE # 9 2 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.0000         0.000
2       0.7500         51.529
3       1.2500         85.882
4       1.2500         85.883
5       0.7500         51.530
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       1.0625         73.000
2       0.9375         64.412
3       0.0000         0.000
4       0.0000         0.000
5       0.9375         64.412
6       1.0625         73.000
  
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LIVE LOAD CASE # 11 3 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       1.0625         73.000
2       1.3750         94.471
3       1.0625         73.000
4       0.5000         34.353
5       0.9375         64.412
6       1.0625         73.000
  
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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

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

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39.250	3.625	3.625	19.625	6	68.706	3	1	8.000	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	6.400	6.400	6.400	6.400	6.400														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
19.625																			

	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	73.000	64.412	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 2	2	73.000	94.471	73.000	34.353	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 3	3	73.000	94.471	73.000	94.471	73.000	4.294	0.000	0.000	0.000	0.000
LL CASE 4	1	0.000	0.000	0.000	0.000	64.412	73.000	0.000	0.000	0.000	0.000
LL CASE 5	2	0.000	0.000	34.353	73.000	94.471	73.000	0.000	0.000	0.000	0.000
LL CASE 6	3	4.294	73.000	94.471	73.000	94.471	73.000	0.000	0.000	0.000	0.000
LL CASE 7	1	0.000	32.206	73.000	32.206	0.000	0.000	0.000	0.000	0.000	0.000

LL CASE							LL-36-6-140.OUT					
8	2	0.000	32.206	73.000	94.471	73.000	2.147	0.000	0.000	0.000	0.000	0.000
9	2	0.000	51.529	85.882	85.883	51.530	0.000	0.000	0.000	0.000	0.000	0.000
10	2	73.000	64.412	0.000	0.000	64.412	73.000	0.000	0.000	0.000	0.000	0.000
11	3	73.000	94.471	73.000	34.353	64.412	73.000	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1	73000	64411	0	0	0	0	0	0	0
61LL 2 2	73000	94470	0	73000	34353	0	0	0	0
61LL 3 3	73000	94470	0	73000	94470	0	73000	4294	0
61LL 4 1	0	0	0	0	0	0	64411	73000	0
61LL 5 2	0	0	0	34353	73000	0	94470	73000	0
61LL 6 3	4294	73000	0	94470	73000	0	94470	73000	0
61LL 7 1	0	32205	0	73000	32205	0	0	0	0
61LL 8 2	0	32205	0	73000	94470	0	73000	2147	0
61LL 9 2	0	51529	0	85882	85882	0	51529	0	0
61LL10 2	73000	64411	0	0	0	0	64411	73000	0
61LL11 3	73000	94470	0	73000	34353	0	64411	73000	0