

14-SEP-09
16:39:06

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; 5 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	5	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	8.000	8.000	8.000	8.000															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
19.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	85.882
2	0.7500	51.530
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	85.882
2	1.5000	103.059
3	1.2500	85.882
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	85.882
2	1.5000	103.059
3	1.7500	120.236
4	1.2500	85.882
5	0.2500	17.177

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	0.7500	51.530
5	1.2500	85.882

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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	1.2500	85.882
4	1.5000	103.059
5	1.2500	85.882

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.2500	17.177
2	1.2500	85.882
3	1.7500	120.236
4	1.5000	103.059
5	1.2500	85.882

□

LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3750	25.765
3	1.2500	85.882
4	0.3750	25.765
5	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	42.941
2	1.6250	111.647
3	1.3750	94.471
4	0.3750	25.765
5	0.0000	0.000

□

LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	42.941
2	1.6250	111.647
3	1.5000	103.059
4	1.6250	111.647
5	0.6250	42.941

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	1.2500	85.882
3	1.5000	103.059
4	1.2500	85.882
5	0.0000	0.000

LIVE LOAD CASE # 11 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	85.882
2	0.7500	51.530
3	0.0000	0.000
4	0.7500	51.530
5	1.2500	85.882

LIVE LOAD CASE # 12 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	85.882
2	1.5000	103.059
3	1.2500	85.882
4	0.7500	51.530
5	1.2500	85.882

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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

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39.250	3.625	3.625	19.625	5	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	8.000	8.000	8.000	8.000															
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
19.625																			

LL CASE	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10
1	1	85.882	51.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	2	85.882	103.059	85.882	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LL-36-5-140.OUT

LL CASE	3	3	85.882	103.059	120.236	85.882	17.177	0.000	0.000	0.000	0.000	0.000
LL CASE	4	1	0.000	0.000	0.000	51.530	85.882	0.000	0.000	0.000	0.000	0.000
LL CASE	5	2	0.000	0.000	85.882	103.059	85.882	0.000	0.000	0.000	0.000	0.000
LL CASE	6	3	17.177	85.882	120.236	103.059	85.882	0.000	0.000	0.000	0.000	0.000
LL CASE	7	1	0.000	25.765	85.882	25.765	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	42.941	111.647	94.471	25.765	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	9	3	42.941	111.647	103.059	111.647	42.941	0.000	0.000	0.000	0.000	0.000
LL CASE	10	2	0.000	85.882	103.059	85.882	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	11	2	85.882	51.530	0.000	51.530	85.882	0.000	0.000	0.000	0.000	0.000
LL CASE	12	3	85.882	103.059	85.882	51.530	85.882	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	85882	51529	0	0	0	0	0
61LL	2	2	85882	103059	0	85882	0	0	0
61LL	3	3	85882	103059	0120235	0	85882	17176	0
61LL	4	1	0	0	0	0	0	51529	85882
61LL	5	2	0	0	0	85882	0103059	85882	0
61LL	6	3	17176	85882	0120235	0103059	85882	0	0
61LL	7	1	0	25764	0	85882	0	25764	0
61LL	8	2	42941	111647	0	94470	0	25764	0
61LL	9	3	42941	111647	0103059	0111647	42941	0	0
61LL	10	2	0	85882	0103059	0	85882	0	0
61LL	11	2	85882	51529	0	0	0	51529	85882
61LL	12	3	85882	103059	0	85882	0	51529	85882