

19-OCT-09
16:40:21

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

PROB. NO. LL01

60.24' CURB-TO-CURB; 8 BEAMS; 125.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
63.490	3.625	3.625	31.745	8	63.737	5	3	5.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.253	8.141	8.141	8.141	8.141	8.141	8.141	8.141												

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
12.000	19.745	19.745		

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	0.8284	52.800
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.2630	80.499
4	0.0111	0.705
5	0.0000	0.000
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.7606	112.215
4	1.2740	81.204
5	0.2394	15.259
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 4 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.7606	112.215
4	1.5433	98.365
5	1.5024	95.758
6	0.4678	29.813
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 5 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.7606	112.215
4	1.5433	98.365
5	1.5433	98.365
6	1.7307	110.313
7	0.6961	44.368
8	0.0000	0.000

LIVE LOAD CASE # 6 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	0.0000	0.000
6	0.0000	0.000
7	0.8291	52.847
8	1.1709	74.627

LIVE LOAD CASE # 7 2 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	0.0114	0.728
6	1.2630	80.499
7	1.5547	99.093
8	1.1709	74.627

LIVE LOAD CASE # 8 3 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	0.2398	15.282
5	1.2744	81.227
6	1.7602	112.192
7	1.5547	99.093
8	1.1709	74.627

LIVE LOAD CASE # 9 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.4681	29.837
4	1.5028	95.782
5	1.5433	98.365
6	1.7602	112.192
7	1.5547	99.093
8	1.1709	74.627

LIVE LOAD CASE # 10 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6965	44.391
3	1.7311	110.336
4	1.5433	98.365
5	1.5433	98.365
6	1.7602	112.192
7	1.5547	99.093
8	1.1709	74.627

LIVE LOAD CASE # 11 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.3685	23.487
4	1.2630	80.499
5	0.3685	23.487
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
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1	0.0000	0.000
2	0.5969	38.042
3	1.6315	103.987
4	1.4031	89.432
5	0.3685	23.487
6	0.0000	0.000
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.5969	38.042
3	1.6315	103.987
4	1.5433	98.365
5	1.6315	103.987
6	0.5969	38.042
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 14 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9134	58.217
2	1.6835	107.298
3	1.6315	103.987
4	1.5433	98.365
5	1.6315	103.987
6	0.5969	38.042
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 15 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9134	58.217
2	1.6835	107.298
3	1.6315	103.987
4	1.5433	98.365
5	1.6315	103.987
6	1.6835	107.298
7	0.9134	58.217
8	0.0000	0.000

LIVE LOAD CASE # 16 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.4829	30.776
4	1.5175	96.721

5 1.5171 96.698
 6 0.4825 30.753
 7 0.0000 0.000
 8 0.0000 0.000

LIVE LOAD CASE # 17 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.7112	45.331
3	1.7459	111.276
4	1.5433	98.365
5	1.5171	96.698
6	0.4825	30.753
7	0.0000	0.000
8	0.0000	0.000

LIVE LOAD CASE # 18 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.7112	45.331
3	1.7459	111.276
4	1.5433	98.365
5	1.5433	98.365
6	1.7455	111.252
7	0.7108	45.307
8	0.0000	0.000

LIVE LOAD CASE # 19 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1421	72.795
2	1.5691	100.009
3	1.7459	111.276
4	1.5433	98.365
5	1.5433	98.365
6	1.7455	111.252
7	0.7108	45.307
8	0.0000	0.000

LIVE LOAD CASE # 20 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	0.8284	52.800
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000
7	0.8291	52.847
8	1.1709	74.627

LIVE LOAD CASE # 21 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.2630	80.499
4	0.0111	0.705
5	0.0000	0.000
6	0.0000	0.000
7	0.8291	52.847
8	1.1709	74.627

LIVE LOAD CASE # 22 4 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.2630	80.499
4	0.0111	0.705
5	0.0114	0.728
6	1.2630	80.499
7	1.5547	99.093
8	1.1709	74.627

LIVE LOAD CASE # 23 5 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1716	74.674
2	1.5544	99.070
3	1.7606	112.215
4	1.2740	81.204
5	0.2508	15.987
6	1.2630	80.499
7	1.5547	99.093
8	1.1709	74.627

19-OCT-09 16:40:21 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

60.24' CURB-TO-CURB; 8 BEAMS; 125.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
63.490	3.625	3.625	31.745	8	63.737	5	3	5.000	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.253	8.141	8.141	8.141	8.141	8.141	8.141	8.141												
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
12.000	19.745	19.745																	
	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	74.674	52.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	2	74.674	99.070	80.499	0.705	0.000	0.000	0.000	0.000	0.000								

LL-60-8-125.OUT												
LL CASE 3	3	3	74.674	99.070	112.215	81.204	15.259	0.000	0.000	0.000	0.000	0.000
LL CASE 4	4	4	74.674	99.070	112.215	98.365	95.758	29.813	0.000	0.000	0.000	0.000
LL CASE 5	5	5	74.674	99.070	112.215	98.365	98.365	110.313	44.368	0.000	0.000	0.000
LL CASE 6	6	1	0.000	0.000	0.000	0.000	0.000	0.000	52.847	74.627	0.000	0.000
LL CASE 7	7	2	0.000	0.000	0.000	0.000	0.728	80.499	99.093	74.627	0.000	0.000
LL CASE 8	8	3	0.000	0.000	0.000	15.282	81.227	112.192	99.093	74.627	0.000	0.000
LL CASE 9	9	4	0.000	0.000	29.837	95.782	98.365	112.192	99.093	74.627	0.000	0.000
LL CASE 10	10	5	0.000	44.391	110.336	98.365	98.365	112.192	99.093	74.627	0.000	0.000
LL CASE 11	11	1	0.000	0.000	23.487	80.499	23.487	0.000	0.000	0.000	0.000	0.000
LL CASE 12	12	2	0.000	38.042	103.987	89.432	23.487	0.000	0.000	0.000	0.000	0.000
LL CASE 13	13	3	0.000	38.042	103.987	98.365	103.987	38.042	0.000	0.000	0.000	0.000
LL CASE 14	14	4	58.217	107.298	103.987	98.365	103.987	38.042	0.000	0.000	0.000	0.000
LL CASE 15	15	5	58.217	107.298	103.987	98.365	103.987	107.298	58.217	0.000	0.000	0.000
LL CASE 16	16	2	0.000	0.000	30.776	96.721	96.698	30.753	0.000	0.000	0.000	0.000
LL CASE 17	17	3	0.000	45.331	111.276	98.365	96.698	30.753	0.000	0.000	0.000	0.000
LL CASE 18	18	4	0.000	45.331	111.276	98.365	98.365	111.252	45.307	0.000	0.000	0.000
LL CASE 19	19	5	72.795	100.009	111.276	98.365	98.365	111.252	45.307	0.000	0.000	0.000
LL CASE 20	20	2	74.674	52.800	0.000	0.000	0.000	0.000	52.847	74.627	0.000	0.000
LL CASE 21	21	3	74.674	99.070	80.499	0.705	0.000	0.000	52.847	74.627	0.000	0.000
LL CASE 22	22	4	74.674	99.070	80.499	0.705	0.728	80.499	99.093	74.627	0.000	0.000
LL CASE 23	23	5	74.674	99.070	112.215	81.204	15.987	80.499	99.093	74.627	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1 74674	0	52799	0	0	0	0	0	0	0	0	0	0
62	0	0										
61LL 2 2 74674	0	99069	0	80499	704	0	0	0	0	0	0	0
62	0	0										
61LL 3 3 74674	0	99069	0112215	81203	0	0	15258	0	0	0	0	0
62	0	0										
61LL 4 4 74674	0	99069	0112215	98365	0	0	95758	29813	0	0	0	0
62	0	0										
61LL 5 5 74674	0	99069	0112215	98365	0	0	98365110312	0	44367	0	0	0
62	0	0										
61LL 6 1	0	0	0	0	0	0	0	0	0	0	0	52846
62	0	74627										
61LL 7 2	0	0	0	0	0	0	0	728	80499	0	99093	0
62	0	74627										
61LL 8 3	0	0	0	0	15282	0	0	81227112191	0	99093	0	0
62	0	74627										
61LL 9 4	0	0	0	29836	95781	0	0	98365112191	0	99093	0	0
62	0	74627										
61LL10 5	0	0	44391	0110335	98365	0	0	98365112191	0	99093	0	0
62	0	74627										
61LL11 1	0	0	0	0	23487	80499	0	0	23487	0	0	0
62	0	0										
61LL12 2	0	0	38041	0103986	89432	0	0	23487	0	0	0	0
62	0	0										
61LL13 3	0	0	38041	0103986	98365	0	0103986	38041	0	0	0	0
62	0	0										
61LL14 4 58217	0	0107298	0103986	98365	0	0103986	38041	0	0	0	0	0
62	0	0										
61LL15 5 58217	0	0107298	0103986	98365	0	0103986107298	0	58217	0	0	0	0
62	0	0										
61LL16 2	0	0	0	0	30776	96721	0	0	96697	30752	0	0
62	0	0										
61LL17 3	0	0	45330	0111275	98365	0	0	96697	30752	0	0	0
62	0	0										
61LL18 4	0	0	45330	0111275	98365	0	0	98365111252	0	45307	0	0
62	0	0										
61LL19 5 72795	0	0100009	0111275	98365	0	0	98365111252	0	45307	0	0	0
62	0	0										
61LL20 2 74674	0	52799	0	0	0	0	0	0	0	0	0	52846
62	0	74627										
61LL21 3 74674	0	99069	0	80499	704	0	0	0	0	0	0	52846
62	0	74627										
61LL22 4 74674	0	99069	0	80499	704	0	0	728	80499	0	99093	0
62	0	74627										
61LL23 5 74674	0	99069	0112215	81203	0	0	15987	80499	0	99093	0	0
62	0	74627										