

05-NOV-09  
09:19:49

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

PROB. NO. LL01

44.40' 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
47.650	3.625	3.625	23.825	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
3.655	8.068	8.068	8.068	8.068	8.068														

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
23.825				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2600	86.572
2	0.7400	50.840
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	1.2600	86.572
2	1.5248	104.762
3	1.2152	83.490
4	0.0000	0.000
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	1.2600	86.572
2	1.5248	104.762
3	1.7400	119.546
4	1.2563	86.317
5	0.2189	15.039
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	0.7400	50.840
6	1.2600	86.572

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	0.0000	0.000
4	1.2152	83.490
5	1.5248	104.762
6	1.2600	86.572

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.2189	15.039
3	1.2563	86.317
4	1.7400	119.546
5	1.5248	104.762
6	1.2600	86.572

LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3718	25.548
3	1.2563	86.317
4	0.3718	25.548
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	0.6113	42.000
2	1.6282	111.864
3	1.3887	95.412
4	0.3718	25.548
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6113	42.000
2	1.6282	111.864
3	1.5211	104.507
4	1.6282	111.864
5	0.6113	42.000
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	0.4916	33.774
3	1.5084	103.638
4	1.5084	103.638
5	0.4916	33.774
6	0.0000	0.000

LIVE LOAD CASE # 11 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.7310	50.227
2	1.7479	120.091
3	1.5211	104.507
4	1.5084	103.638
5	0.4916	33.774
6	0.0000	0.000

LIVE LOAD CASE # 12 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2600	86.572
2	0.7400	50.840
3	0.0000	0.000
4	0.0000	0.000
5	0.7400	50.840
6	1.2600	86.572

LIVE LOAD CASE # 13 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2600	86.572
2	1.5248	104.762
3	1.2152	83.490
4	0.0000	0.000
5	0.7400	50.840
6	1.2600	86.572

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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

44.40' 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
47.650	3.625	3.625	23.825	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
3.655	8.068	8.068	8.068	8.068	8.068														

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
23.825				

	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	86.572	50.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 2	2	86.572	104.762	83.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 3	3	86.572	104.762	119.546	86.317	15.039	0.000	0.000	0.000	0.000	0.000
LL CASE 4	1	0.000	0.000	0.000	0.000	50.840	86.572	0.000	0.000	0.000	0.000
LL CASE 5	2	0.000	0.000	0.000	83.490	104.762	86.572	0.000	0.000	0.000	0.000
LL CASE 6	3	0.000	15.039	86.317	119.546	104.762	86.572	0.000	0.000	0.000	0.000
LL CASE 7	1	0.000	25.548	86.317	25.548	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 8	2	42.000	111.864	95.412	25.548	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 9	3	42.000	111.864	104.507	111.864	42.000	0.000	0.000	0.000	0.000	0.000
LL CASE 10	2	0.000	33.774	103.638	103.638	33.774	0.000	0.000	0.000	0.000	0.000
LL CASE 11	3	50.227	120.091	104.507	103.638	33.774	0.000	0.000	0.000	0.000	0.000
LL CASE 12	2	86.572	50.840	0.000	0.000	50.840	86.572	0.000	0.000	0.000	0.000
LL CASE 13	3	86.572	104.762	83.490	0.000	50.840	86.572	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1	86572	50839	0	0	0	0	0	0
61LL 2 2	86572104762	0	83489	0	0	0	0	0
61LL 3 3	86572104762	0119545	86316	0	15039	0	0	0
61LL 4 1	0	0	0	0	0	50839	86572	0
61LL 5 2	0	0	0	0	83489	0104762	86572	0
61LL 6 3	0	15039	0	86316119545	0104762	86572	0	0
61LL 7 1	0	25547	0	86316	25547	0	0	0
61LL 8 2	42000111864	0	95411	25547	0	0	0	0
61LL 9 3	42000111864	0104506111864	0	42000	0	0	0	0
61LL10 2	0	33773	0103638103638	0	33773	0	0	0
61LL11 3	50226120090	0104506103638	0	33773	0	0	0	0
61LL12 2	86572	50839	0	0	0	50839	86572	0
61LL13 3	86572104762	0	83489	0	0	50839	86572	0