

28-OCT-09  
14:12:36

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

PROB. NO. LL01

32.00' CURB-TO-CURB; 5 BEAMS; 140.16' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
35.250	3.625	3.625	17.625	5	68.760	2	1	8.000	0

  

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
4.125	6.750	6.750	6.750	6.750															

  

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
17.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1852	81.493
2	0.8148	56.027
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	1.1852	81.493
2	1.4074	96.773
3	1.1111	76.400
4	0.2963	20.373
5	0.0000	0.000

LIVE LOAD CASE # 3 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	0.8148	56.027
5	1.1852	81.493

LIVE LOAD CASE # 4 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.2963	20.373
3	1.1111	76.400
4	1.4074	96.773
5	1.1852	81.493

LIVE LOAD CASE # 5 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4444	30.560
3	1.1111	76.400
4	0.4444	30.560
5	0.0000	0.000

LIVE LOAD CASE # 6 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.9630	66.213
2	1.4815	101.867
3	1.1111	76.400
4	0.4444	30.560
5	0.0000	0.000

LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.1852	12.733
2	1.1111	76.400
3	1.4074	96.773
4	1.1111	76.400
5	0.1852	12.733

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1852	81.493
2	0.8148	56.027
3	0.0000	0.000
4	0.8148	56.027
5	1.1852	81.493

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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

32.00' CURB-TO-CURB; 5 BEAMS; 140.16' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
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35.250 3.625 3.625 17.625 5 68.760 LL-32-5-140.OUT  
 2 1 8.000 0  
 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20  
 4.125 6.750 6.750 6.750 6.750

XCOL1 XCOL2 XCOL3 XCOL4 XCOL5  
 17.625

		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	81.493	56.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	2	2	81.493	96.773	76.400	20.373	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	3	1	0.000	0.000	0.000	56.027	81.493	0.000	0.000	0.000	0.000	0.000
LL CASE	4	2	0.000	20.373	76.400	96.773	81.493	0.000	0.000	0.000	0.000	0.000
LL CASE	5	1	0.000	30.560	76.400	30.560	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	6	2	66.213	101.867	76.400	30.560	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	7	2	12.733	76.400	96.773	76.400	12.733	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	81.493	56.027	0.000	56.027	81.493	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	81493	56026	0	0	0	0	0
61LL	2	2	81493	96773	0	76400	0	20373	0
61LL	3	1	0	0	0	0	56026	81493	0
61LL	4	2	0	20373	0	76400	0	96773	81493
61LL	5	1	0	30560	0	76400	0	30560	0
61LL	6	2	66213	101866	0	76400	0	30560	0
61LL	7	2	12733	76400	0	96773	0	76400	12733
61LL	8	2	81493	56026	0	0	56026	81493	0