

05-NOV-09
15:32:21

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; 139.00' 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	68.376	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
3.625	7.000	7.000	7.000	7.000															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
17.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	78.144
2	0.8571	58.608
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	1.1429	78.144
2	1.4286	97.680
3	1.1429	78.144
4	0.2857	19.536
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	0.8571	58.608
5	1.1429	78.144

LIVE LOAD CASE # 4 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.2857	19.536
3	1.1429	78.144
4	1.4286	97.680
5	1.1429	78.144

LIVE LOAD CASE # 5 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4286	29.304
3	1.1429	78.144
4	0.4286	29.304
5	0.0000	0.000

LIVE LOAD CASE # 6 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8571	58.608
2	1.5714	107.448
3	1.1429	78.144
4	0.4286	29.304
5	0.0000	0.000

LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.1429	9.768
2	1.1429	78.144
3	1.4286	97.680
4	1.1429	78.144
5	0.1429	9.768

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	78.144
2	0.8571	58.608
3	0.0000	0.000
4	0.8571	58.608
5	1.1429	78.144

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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

32.00' CURB-TO-CURB; 5 BEAMS; 139.00' 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 68.376 LL-32-5-139.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
 3.625 7.000 7.000 7.000 7.000

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	78.144	58.608	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	2	2	78.144	97.680	78.144	19.536	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	3	1	0.000	0.000	0.000	58.608	78.144	0.000	0.000	0.000	0.000	0.000
LL CASE	4	2	0.000	19.536	78.144	97.680	78.144	0.000	0.000	0.000	0.000	0.000
LL CASE	5	1	0.000	29.304	78.144	29.304	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	6	2	58.608	107.448	78.144	29.304	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	7	2	9.768	78.144	97.680	78.144	9.768	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	78.144	58.608	0.000	58.608	78.144	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	78144	58608	0	0	0	0	0
61LL	2	2	78144	97680	0	78144	0	19536	0
61LL	3	1	0	0	0	0	58608	78144	0
61LL	4	2	0	19536	0	78144	0	97680	78144
61LL	5	1	0	29304	0	78144	0	29304	0
61LL	6	2	58608	107448	0	78144	0	29304	0
61LL	7	2	9768	78144	0	97680	0	78144	9768
61LL	8	2	78144	58608	0	0	0	58608	78144