

12-NOV-09
17:04:50

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

PROB. NO. LL01

38.67' 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
41.920	3.625	3.625	20.960	5	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
3.626	8.667	8.667	8.667	8.667															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
20.960				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.3078	89.856
2	0.6922	47.556
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	1.3078	89.856
2	1.6925	116.286
3	0.9997	68.682
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	1.3078	89.856
2	1.6925	116.286
3	1.6924	116.278
4	1.3073	89.816
5	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	0.6922	47.556
5	1.3078	89.856

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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	0.9997	68.682
4	1.6925	116.286
5	1.3078	89.856

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	1.3073	89.816
3	1.6924	116.278
4	1.6925	116.286
5	1.3078	89.856

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LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3461	23.782
3	1.3077	89.848
4	0.3461	23.782
5	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.4999	34.349
2	1.6539	113.630
3	1.5001	103.063
4	0.3461	23.782
5	0.0000	0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	0.4999	34.349		
2	1.6539	113.630		
3	1.6924	116.278		
4	1.6539	113.630		
5	0.4999	34.349		

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	0.0000	0.000		
2	1.1538	79.273		
3	1.6924	116.278		
4	1.1538	79.273		
5	0.0000	0.000		

LIVE LOAD CASE # 11 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	1.3078	89.856		
2	0.6922	47.556		
3	0.0000	0.000		
4	0.6922	47.556		
5	1.3078	89.856		

LIVE LOAD CASE # 12 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	1.3078	89.856		
2	1.6925	116.286		
3	0.9997	68.682		
4	0.6922	47.556		
5	1.3078	89.856		

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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

38.67' 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																																																																																																																																		
41.920	3.625	3.625	20.960	5	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	3.626	8.667	8.667	8.667	8.667																XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																20.960																					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	89.856	47.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
3.626	8.667	8.667	8.667	8.667																XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																20.960																					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	89.856	47.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000																												
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																20.960																					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	89.856	47.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000																																																
20.960																					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	89.856	47.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000																																																																				
	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	89.856	47.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000																																																																																								
LL CASE 1	1	89.856	47.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000																																																																																																												
LL CASE 2	2	89.856	116.286	68.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000																																																																																																																																

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LL CASE	3	3	89.856	116.286	116.278	89.816	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	4	1	0.000	0.000	0.000	47.556	89.856	0.000	0.000	0.000	0.000	0.000
LL CASE	5	2	0.000	0.000	68.682	116.286	89.856	0.000	0.000	0.000	0.000	0.000
LL CASE	6	3	0.000	89.816	116.278	116.286	89.856	0.000	0.000	0.000	0.000	0.000
LL CASE	7	1	0.000	23.782	89.848	23.782	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	34.349	113.630	103.063	23.782	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	9	3	34.349	113.630	116.278	113.630	34.349	0.000	0.000	0.000	0.000	0.000
LL CASE	10	2	0.000	79.273	116.278	79.273	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	11	2	89.856	47.556	0.000	47.556	89.856	0.000	0.000	0.000	0.000	0.000
LL CASE	12	3	89.856	116.286	68.682	47.556	89.856	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	89856	47555	0	0	0	0	0
61LL	2	2	89856	116285	0	68682	0	0	0
61LL	3	3	89856	116285	0	116277	0	89816	0
61LL	4	1	0	0	0	0	0	47555	89856
61LL	5	2	0	0	0	68682	0	116285	89856
61LL	6	3	0	89816	0	116277	0	116285	89856
61LL	7	1	0	23781	0	89848	0	23781	0
61LL	8	2	34349	113630	0	103062	0	23781	0
61LL	9	3	34349	113630	0	116277	0	113630	34349
61LL	10	2	0	79273	0	116277	0	79273	0
61LL	11	2	89856	47555	0	0	0	47555	89856
61LL	12	3	89856	116285	0	68682	0	47555	89856