

04-NOV-09
10:31:54

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

PROB. NO. LL01

36.00' CURB-TO-CURB; 5 BEAMS; 147.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
39.250	3.625	3.625	19.625	5	71.135	3	1	8.000	25

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
21.715				

LIVE LOAD CASE # 1 1 TRUCKS

* *
* *
* *
*** **
* *

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	88.919
2	0.7500	53.351
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

* * * *
* * * *
* * * *
*** ** * *
* * * *

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	88.919
2	1.5000	106.702
3	1.2500	88.919
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

* * * * *
* * * * *
* * * * *
*** ** * * *
* * * * *

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	88.919
2	1.5000	106.702
3	1.7500	124.486
4	1.2500	88.919
5	0.2500	17.784

LIVE LOAD CASE # 4 1 TRUCKS

* *
* *
* *
*** **
* *

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.0000	0.000
3	0.0000	0.000
4	0.7500	53.351
5	1.2500	88.919

□

LIVE LOAD CASE # 5 2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *

```

```

-----
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	1.2500	88.919
4	1.5000	106.702
5	1.2500	88.919

LIVE LOAD CASE # 6 3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** ** ** ** **
*   *   *   *   *   *

```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.2500	17.784
2	1.2500	88.919
3	1.7500	124.486
4	1.5000	106.702
5	1.2500	88.919

□

LIVE LOAD CASE # 7 1 TRUCKS

```

*   *
*   *
*   *
*** **
*   *

```

```

-----
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3750	26.676
3	1.2500	88.919
4	0.3750	26.676
5	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *

```

```

-----
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I

```

BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	44.459
2	1.6250	115.594
3	1.3750	97.811
4	0.3750	26.676
5	0.0000	0.000

□

LIVE LOAD CASE # 9 3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** *
*   *   *   *   *   *

```

```

-----
I   I   I   I   I

```

```

I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	44.459
2	1.6250	115.594
3	1.5000	106.702
4	1.6250	115.594
5	0.6250	44.459

LIVE LOAD CASE # 10 2 TRUCKS

```

*      *      *      *
*      *      *      *
*      *      *      *
***    ***    ***    ***
*      *      *      *
    
```

```

I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	1.2500	88.919
3	1.5000	106.702
4	1.2500	88.919
5	0.0000	0.000

LIVE LOAD CASE # 11 2 TRUCKS

```

*      *      *      *
*      *      *      *
*      *      *      *
***    ***    ***    ***
*      *      *      *
    
```

```

I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	88.919
2	0.7500	53.351
3	0.0000	0.000
4	0.7500	53.351
5	1.2500	88.919

LIVE LOAD CASE # 12 3 TRUCKS

```

*      *      *      *
*      *      *      *
*      *      *      *
***    ***    ***    ***
*      *      *      *
    
```

```

I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
I      I      I      I      I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	88.919
2	1.5000	106.702
3	1.2500	88.919
4	0.7500	53.351
5	1.2500	88.919

04-NOV-09
10:31:54

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

36.00' CURB-TO-CURB; 5 BEAMS; 147.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
39.250	3.625	3.625	19.625	5	71.135	3	1	8.000	25										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
21.715																			

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	88.919	53.351	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE 2	2	88.919	106.702	88.919	0.000	0.000	0.000	0.000	0.000	0.000

LL-36-5-147.OUT

LL CASE	3	3	88.919	106.702	124.486	88.919	17.784	0.000	0.000	0.000	0.000	0.000
LL CASE	4	1	0.000	0.000	0.000	53.351	88.919	0.000	0.000	0.000	0.000	0.000
LL CASE	5	2	0.000	0.000	88.919	106.702	88.919	0.000	0.000	0.000	0.000	0.000
LL CASE	6	3	17.784	88.919	124.486	106.702	88.919	0.000	0.000	0.000	0.000	0.000
LL CASE	7	1	0.000	26.676	88.919	26.676	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	44.459	115.594	97.811	26.676	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	9	3	44.459	115.594	106.702	115.594	44.459	0.000	0.000	0.000	0.000	0.000
LL CASE	10	2	0.000	88.919	106.702	88.919	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	11	2	88.919	53.351	0.000	53.351	88.919	0.000	0.000	0.000	0.000	0.000
LL CASE	12	3	88.919	106.702	88.919	53.351	88.919	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	88918	53351	0	0	0	0	0
61LL	2	2	88918	106702	0	88918	0	0	0
61LL	3	3	88918	106702	0124486	0	88918	17783	0
61LL	4	1	0	0	0	0	0	53351	88918
61LL	5	2	0	0	0	88918	0106702	88918	0
61LL	6	3	17783	88918	0124486	0106702	88918	0	0
61LL	7	1	0	26675	0	88918	0	26675	0
61LL	8	2	44459115594	0	97810	0	26675	0	0
61LL	9	3	44459115594	0106702	0115594	44459	0	0	0
61LL10	2	0	88918	0106702	0	88918	0	0	0
61LL11	2	88918	53351	0	0	53351	88918	0	0
61LL12	3	88918	106702	0	88918	0	53351	88918	0