

Appendix A

Load Calculations

Project Trump Taj Mahal
 Engineer Stephen Reichwein
 Date 4/8/2008

Seismic Loads Per ASCE 7-05 Equivalent Lateral Force Procedure

| Input | |
|-------------------------|---------|
| Occupancy Category | I |
| Importance Factor | 1.00 |
| Soil Site Class | D |
| Seismic Design Category | B |
| F_a | 1.600 |
| F_v | 2.400 |
| S_8 | 0.191 |
| S_1 | 0.061 |
| S_{D8} | 0.204 |
| S_{D1} | 0.0876 |
| R | 3.3 |
| Ω | 2.5 |
| C_d | 3.3 |
| T_s | 0.319 |
| h_n | 434.830 |
| X | 0.750 |
| C_l | 0.020 |
| T_a | 1.904 |
| T_L | 6.0 |
| C_u | 1.7 |
| T (ETABS) | 4.3 |
| $T_a \times C_u$ | 3.2 |
| C_s | 0.0100 |
| k | 2.0 |
| Base Shear (V_b) | 718.5 |

$$T_s = C_d \times h_n^{\alpha}$$

$$\begin{aligned} T \leq T_L & \quad \min \\ C_s = S_{D1} / (T (R / I)) & \quad 0.0093 \\ C_s = S_{D8} / (R / I) & \quad 0.0628 \end{aligned}$$

$$\begin{aligned} T > T_L & \quad \min \\ C_s = S_{D1} \times T_L / (T^2 (R / I)) & \\ C_s = S_{D8} / (R / I) & \end{aligned}$$

$C_{\min} = .01$

Max Deflection 0.020 x h_n

Use Minimum

kips

| Level | Weight of Level (kips) | Elevation Height (feet) | $w_i h_i^{\alpha}$ | $(w_i h_i^{\alpha}) / \sum w_i h_i^{\alpha} \times V$ Shear Per Floor (kips) | Overspinning Moment |
|----------|------------------------|-------------------------|--------------------|---|---------------------|
| Sign | 500 | 496.00 | 123008000 | 17.00 | 8430.67 |
| Roof | 1400 | 460.00 | 296240000 | 40.93 | 16829.93 |
| 40 | 2100 | 437.58 | 402105652 | 55.56 | 24313.51 |
| 39 | 1750 | 422.58 | 312508685.8 | 43.18 | 18248.25 |
| 38 | 1750 | 412.17 | 297292862.8 | 41.08 | 16931.86 |
| 37 | 1750 | 401.75 | 282455359.4 | 39.03 | 15680.24 |
| 36 | 1750 | 391.33 | 267997654.6 | 37.03 | 14491.87 |
| 35 | 1750 | 380.92 | 253921081.6 | 35.09 | 13365.22 |
| 34 | 1750 | 370.50 | 240222937.6 | 33.19 | 12298.43 |
| 33 | 1750 | 360.08 | 226804592.1 | 31.35 | 11289.97 |
| 32 | 1750 | 349.67 | 213867269.1 | 29.57 | 10338.30 |
| 31 | 1750 | 339.25 | 201408484.4 | 27.83 | 9441.58 |
| 30 | 1750 | 328.83 | 189228498.3 | 26.15 | 8598.27 |
| 29 | 1750 | 318.42 | 177431425.3 | 24.52 | 7808.81 |
| 28 | 1750 | 308.00 | 166012000 | 22.94 | 7085.41 |
| 27 | 1750 | 297.58 | 154972373.3 | 21.41 | 6372.49 |
| 26 | 1750 | 287.17 | 144313550.3 | 19.94 | 5726.49 |
| 25 | 1750 | 276.75 | 134033484.4 | 18.52 | 5125.64 |
| 24 | 1750 | 266.33 | 124133217.1 | 17.15 | 4668.36 |
| 23 | 1750 | 255.92 | 114613044.1 | 15.84 | 4053.00 |
| 22 | 1750 | 245.50 | 105472937.5 | 14.57 | 3577.99 |
| 21 | 1750 | 235.08 | 96712029.56 | 13.38 | 3141.58 |
| 20 | 1750 | 224.67 | 88331706.56 | 12.21 | 2742.22 |
| 19 | 1750 | 214.25 | 80330359.38 | 11.10 | 2378.20 |
| 18 | 1750 | 203.83 | 72708810.81 | 10.05 | 2047.90 |
| 17 | 1750 | 193.42 | 65467737.81 | 9.05 | 1749.72 |
| 16 | 1750 | 183.00 | 58805750 | 8.10 | 1481.97 |
| 15 | 1750 | 172.58 | 52123560.81 | 7.20 | 1243.02 |
| 14 | 1750 | 162.17 | 46021737.81 | 6.36 | 1031.27 |
| 13 | 1750 | 151.75 | 40299109.38 | 5.57 | 845.03 |
| 12 | 1750 | 141.33 | 34966279.56 | 4.83 | 682.68 |
| 11 | 1750 | 130.92 | 29993708.56 | 4.14 | 542.59 |
| 10 | 1750 | 120.50 | 25410437.5 | 3.51 | 423.10 |
| 9 | 1750 | 110.08 | 21206867.06 | 2.93 | 322.59 |
| 8 | 1750 | 99.67 | 17383644.06 | 2.40 | 239.41 |
| 7 | 1750 | 89.25 | 13930734.38 | 1.93 | 171.91 |
| 6 | 1750 | 78.83 | 10875623.31 | 1.50 | 118.47 |
| 5 | 1750 | 68.42 | 8191660.306 | 1.13 | 77.44 |
| 4 | 2000 | 58.00 | 6728000 | 0.93 | 53.92 |
| 3 | 2400 | 28.00 | 1622400 | 0.22 | 5.83 |
| 2 | 2200 | 16.00 | 563200 | 0.08 | 1.25 |
| Σ | 71850 | | 5199717054 | 718.5 | 245854.47 |

Project Trump Taj Mahal - AE 481W
 Engineer Stephen Reichwein
 Date 4/8/2008

Wind Pressure Per ASCE 7-05 MWFRS Procedure 2

| | | |
|---------------------------------|--------|------|
| Basic Wind Speed | 114.00 | mph |
| Importance Factor | 1.00 | |
| Occupancy Category | II | |
| Exposure Category | C | |
| Directionality Factor (K_d) | 0.85 | |
| Gust Factor (G) N/S | 1.01 | |
| Gust Factor (G) E/W | 1.05 | |
| $C_{g,windward}$ | 0.80 | |
| $C_{g,leeward}$ | 0.50 | |
| K_H | 1.00 | |
| Z_L | 900 | ft |
| d | 9.5 | |
| Base Shear N/S | 3725 | kips |
| Base Shear E/W | 3865 | kips |

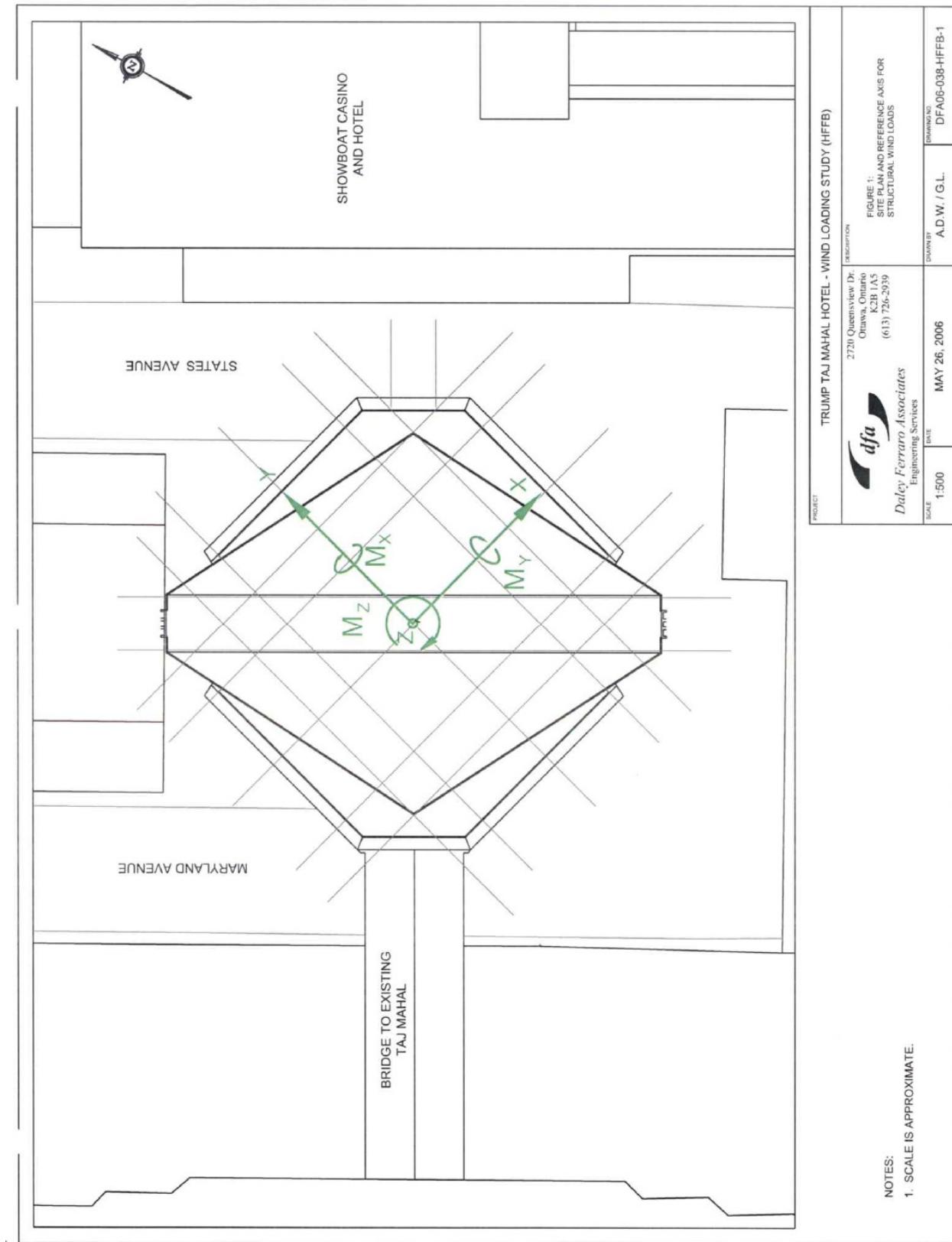
$$K_v = 2.01(z/z_g)^{0.6}$$

$$P = 0.00256 \times K_v \times G \times V^2 \times I \times (K_v C_{p,w} + K_l C_{p,l})$$

| Level | Height (ft) | K_v | K_b | Windward Pressure | Leeward Pressure | Tributary Height | Perimeter N/S (ft) | Perimeter E/W (ft) | Floor Load N/S (kips) | Floor Load E/W (kips) | Ovt Mom N/S | Ovt Mom E/W |
|-------|-------------|-------|-------|-------------------|------------------|------------------|--------------------|--------------------|-----------------------|-----------------------|-------------|-------------|
| 1 | 0.00 | 0.00 | 1.75 | 0 | 25 | 0.00 | 141.25 | 141.25 | | | 2121.26 | 2201.07 |
| 2 | 16.00 | 0.86 | 1.75 | 20 | 25 | 21.00 | 141.25 | 141.25 | 133 | 138 | 19768.92 | 20512.70 |
| 3 | 26.00 | 0.95 | 1.75 | 22 | 25 | 21.00 | 141.25 | 141.25 | 139 | 144 | 5731.50 | 5947.14 |
| 4 | 58.00 | 1.13 | 1.75 | 26 | 25 | 21.21 | 141.25 | 141.25 | 152 | 158 | 14561.39 | 15109.25 |
| 5 | 68.42 | 1.17 | 1.75 | 27 | 25 | 10.42 | 141.25 | 141.25 | 78 | 79 | 32858.39 | 34094.65 |
| 6 | 78.83 | 1.20 | 1.75 | 28 | 25 | 10.42 | 141.25 | 141.25 | 77 | 80 | 25883.04 | 26838.11 |
| 7 | 89.25 | 1.24 | 1.75 | 28 | 25 | 10.42 | 141.25 | 141.25 | 78 | 81 | 40787.20 | 42301.02 |
| 8 | 99.67 | 1.26 | 1.75 | 29 | 25 | 10.42 | 141.25 | 141.25 | 79 | 82 | 51467.72 | 54681.52 |
| 9 | 110.08 | 1.29 | 1.75 | 30 | 25 | 10.42 | 141.25 | 141.25 | 80 | 83 | 49801.52 | 51467.72 |
| 10 | 120.50 | 1.32 | 1.75 | 30 | 26 | 10.42 | 141.25 | 141.25 | 81 | 84 | 60372.84 | 61806.67 |
| 11 | 130.92 | 1.34 | 1.75 | 31 | 25 | 10.42 | 141.25 | 141.25 | 82 | 85 | 70090.37 | 72727.43 |
| 12 | 141.33 | 1.36 | 1.75 | 31 | 25 | 10.42 | 141.25 | 141.25 | 83 | 86 | 81764.02 | 84840.29 |
| 13 | 151.75 | 1.38 | 1.75 | 32 | 25 | 10.42 | 141.25 | 141.25 | 83 | 86 | 94403.44 | 97865.25 |
| 14 | 162.17 | 1.40 | 1.75 | 32 | 25 | 10.42 | 141.25 | 141.25 | 84 | 87 | 108015.89 | 112079.85 |
| 15 | 172.58 | 1.42 | 1.75 | 32 | 25 | 10.42 | 141.25 | 141.25 | 85 | 88 | 122609.92 | 127222.97 |
| 16 | 183.00 | 1.44 | 1.75 | 33 | 25 | 10.42 | 141.25 | 141.25 | 85 | 88 | 138194.02 | 143393.40 |
| 17 | 193.42 | 1.45 | 1.75 | 33 | 25 | 10.42 | 141.25 | 141.25 | 86 | 89 | 154774.01 | 160597.19 |
| 18 | 203.83 | 1.47 | 1.75 | 34 | 25 | 10.42 | 141.25 | 141.25 | 86 | 90 | 172357.52 | 178842.26 |
| 19 | 214.25 | 1.49 | 1.75 | 34 | 25 | 10.42 | 141.25 | 141.25 | 87 | 90 | 190952.25 | 198136.59 |
| 20 | 224.67 | 1.50 | 1.75 | 34 | 25 | 10.42 | 141.25 | 141.25 | 87 | 91 | 210562.87 | 218485.04 |
| 21 | 235.08 | 1.52 | 1.75 | 35 | 25 | 10.42 | 141.25 | 141.25 | 88 | 91 | 231196.38 | 238894.86 |
| 22 | 245.50 | 1.53 | 1.75 | 35 | 25 | 10.42 | 141.25 | 141.25 | 88 | 92 | 252859.92 | 262373.46 |
| 23 | 255.92 | 1.54 | 1.75 | 35 | 25 | 10.42 | 141.25 | 141.25 | 89 | 92 | 275557.19 | 285624.89 |
| 24 | 266.33 | 1.56 | 1.75 | 36 | 25 | 10.42 | 141.25 | 141.25 | 89 | 92 | 290204.75 | 310555.35 |
| 25 | 276.75 | 1.57 | 1.75 | 36 | 25 | 10.42 | 141.25 | 141.25 | 90 | 93 | 324079.31 | 336272.39 |
| 26 | 287.17 | 1.58 | 1.75 | 36 | 25 | 10.42 | 141.25 | 141.25 | 90 | 93 | 349913.76 | 363078.83 |
| 27 | 297.58 | 1.59 | 1.75 | 36 | 25 | 10.42 | 141.25 | 141.25 | 90 | 94 | 376804.30 | 390981.10 |
| 28 | 308.00 | 1.60 | 1.75 | 37 | 25 | 10.42 | 141.25 | 141.25 | 91 | 94 | 404757.38 | 419985.85 |
| 29 | 318.42 | 1.62 | 1.75 | 37 | 25 | 10.42 | 141.25 | 141.25 | 91 | 95 | 433775.09 | 450095.34 |
| 30 | 328.83 | 1.63 | 1.75 | 37 | 25 | 10.42 | 141.25 | 141.25 | 92 | 95 | 463863.45 | 481315.74 |
| 31 | 339.25 | 1.64 | 1.75 | 37 | 25 | 10.42 | 141.25 | 141.25 | 92 | 95 | 496028.64 | 513653.48 |
| 32 | 349.67 | 1.65 | 1.75 | 38 | 25 | 10.42 | 141.25 | 141.25 | 92 | 96 | 527272.14 | 547110.10 |
| 33 | 360.08 | 1.66 | 1.75 | 38 | 25 | 10.42 | 141.25 | 141.25 | 93 | 96 | 560590.74 | 581861.61 |
| 34 | 370.50 | 1.67 | 1.75 | 38 | 25 | 10.42 | 141.25 | 141.25 | 93 | 96 | 596017.46 | 617404.25 |
| 35 | 380.92 | 1.68 | 1.75 | 38 | 25 | 10.42 | 141.25 | 141.25 | 93 | 97 | 630526.19 | 654248.95 |
| 36 | 391.33 | 1.69 | 1.75 | 39 | 25 | 10.42 | 141.25 | 141.25 | 94 | 97 | 667131.56 | 692231.58 |
| 37 | 401.75 | 1.70 | 1.75 | 39 | 25 | 10.42 | 141.25 | 141.25 | 94 | 97 | 704838.51 | 731358.23 |
| 38 | 412.17 | 1.71 | 1.75 | 39 | 25 | 10.42 | 141.25 | 141.25 | 94 | 98 | 743650.33 | 771629.26 |
| 39 | 422.58 | 1.71 | 1.75 | 39 | 25 | 12.71 | 141.25 | 141.25 | 115 | 120 | 792351.32 | 822162.56 |
| 40 | 437.58 | 1.73 | 1.75 | 39 | 25 | 18.71 | 116.25 | 116.25 | 140 | 146 | 853727.65 | 886948.09 |
| Roof | 460.00 | 1.75 | 1.75 | 40 | 25 | 11.21 | 116.25 | 116.25 | 85 | 88 | 892632.82 | 926217.02 |
| | | | | | | | Σ | 3725 | 3865 | | | |

Table 4: Load Combinations In Orthogonal Directions

| Load Case | Y-Axis (%) | X-Axis (%) | Z-Axis (%) |
|-----------|------------|------------|------------|
| 1 | +100 | +50 | +50 |
| 2 | +100 | +50 | -50 |
| 3 | +100 | -50 | +50 |
| 4 | +100 | -50 | -50 |
| 5 | -100 | +50 | +50 |
| 6 | -100 | +50 | -50 |
| 7 | -100 | -50 | -50 |
| 8 | -100 | -50 | -50 |
| 9 | +65 | +100 | +60 |
| 10 | +65 | +100 | -60 |
| 11 | -65 | +100 | +60 |
| 12 | -65 | +100 | -60 |
| 13 | +65 | -100 | +60 |
| 14 | +65 | -100 | -60 |
| 15 | -65 | -100 | +60 |
| 16 | -65 | -100 | -60 |
| 17 | +65 | +50 | +60 |
| 18 | +65 | -50 | +60 |
| 19 | -65 | +50 | -60 |
| 20 | -65 | -50 | -60 |



| Level | Height | Load Case 1 | | | Load Case 2 | | | Load Case 3 | | |
|-------|--------|-------------|--------|----------|-------------|--------|-----------|-------------|---------|----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | 139.00 | 95.70 | 10260.00 | 139.00 | 95.70 | -10260.00 | 139.00 | -95.70 | 10260.00 |
| 40 | 437.58 | 169.30 | 116.65 | 15960.00 | 169.30 | 116.65 | -15960.00 | 169.30 | -116.65 | 15960.00 |
| 39 | 422.58 | 103.20 | 71.05 | 9960.00 | 103.20 | 71.05 | -9960.00 | 103.20 | -71.05 | 9960.00 |
| 38 | 412.17 | 96.30 | 66.35 | 9480.00 | 96.30 | 66.35 | -9480.00 | 96.30 | -66.35 | 9480.00 |
| 37 | 401.75 | 100.20 | 69.00 | 10020.00 | 100.20 | 69.00 | -10020.00 | 100.20 | -69.00 | 10020.00 |
| 36 | 391.33 | 97.60 | 67.25 | 9780.00 | 97.60 | 67.25 | -9780.00 | 97.60 | -67.25 | 9780.00 |
| 35 | 380.92 | 95.10 | 65.50 | 9540.00 | 95.10 | 65.50 | -9540.00 | 95.10 | -65.50 | 9540.00 |
| 34 | 370.50 | 92.50 | 63.75 | 9240.00 | 92.50 | 63.75 | -9240.00 | 92.50 | -63.75 | 9240.00 |
| 33 | 360.08 | 90.00 | 62.00 | 9000.00 | 90.00 | 62.00 | -9000.00 | 90.00 | -62.00 | 9000.00 |
| 32 | 349.67 | 87.40 | 60.25 | 8760.00 | 87.40 | 60.25 | -8760.00 | 87.40 | -60.25 | 8760.00 |
| 31 | 339.25 | 84.90 | 58.45 | 8520.00 | 84.90 | 58.45 | -8520.00 | 84.90 | -58.45 | 8520.00 |
| 30 | 328.83 | 82.30 | 56.70 | 8220.00 | 82.30 | 56.70 | -8220.00 | 82.30 | -56.70 | 8220.00 |
| 29 | 318.42 | 79.90 | 55.05 | 7980.00 | 79.90 | 55.05 | -7980.00 | 79.90 | -55.05 | 7980.00 |
| 28 | 308.00 | 77.40 | 53.30 | 7740.00 | 77.40 | 53.30 | -7740.00 | 77.40 | -53.30 | 7740.00 |
| 27 | 297.58 | 74.80 | 51.55 | 7500.00 | 74.80 | 51.55 | -7500.00 | 74.80 | -51.55 | 7500.00 |
| 26 | 287.17 | 72.30 | 49.80 | 7260.00 | 72.30 | 49.80 | -7260.00 | 72.30 | -49.80 | 7260.00 |
| 25 | 276.75 | 69.70 | 48.00 | 6960.00 | 69.70 | 48.00 | -6960.00 | 69.70 | -48.00 | 6960.00 |
| 24 | 266.33 | 65.80 | 45.30 | 6720.00 | 65.80 | 45.30 | -6720.00 | 65.80 | -45.30 | 6720.00 |
| 23 | 255.92 | 63.30 | 43.60 | 6480.00 | 63.30 | 43.60 | -6480.00 | 63.30 | -43.60 | 6480.00 |
| 22 | 245.50 | 60.80 | 41.85 | 6180.00 | 60.80 | 41.85 | -6180.00 | 60.80 | -41.85 | 6180.00 |
| 21 | 235.08 | 58.30 | 40.15 | 5940.00 | 58.30 | 40.15 | -5940.00 | 58.30 | -40.15 | 5940.00 |
| 20 | 224.67 | 55.80 | 38.45 | 5700.00 | 55.80 | 38.45 | -5700.00 | 55.80 | -38.45 | 5700.00 |
| 19 | 214.25 | 53.30 | 36.70 | 5460.00 | 53.30 | 36.70 | -5460.00 | 53.30 | -36.70 | 5460.00 |
| 18 | 203.83 | 50.90 | 35.05 | 5220.00 | 50.90 | 35.05 | -5220.00 | 50.90 | -35.05 | 5220.00 |
| 17 | 193.42 | 48.40 | 33.35 | 4920.00 | 48.40 | 33.35 | -4920.00 | 48.40 | -33.35 | 4920.00 |
| 16 | 183.00 | 45.90 | 31.65 | 4680.00 | 45.90 | 31.65 | -4680.00 | 45.90 | -31.65 | 4680.00 |
| 15 | 172.58 | 43.40 | 29.90 | 4440.00 | 43.40 | 29.90 | -4440.00 | 43.40 | -29.90 | 4440.00 |
| 14 | 162.17 | 40.90 | 28.20 | 4200.00 | 40.90 | 28.20 | -4200.00 | 40.90 | -28.20 | 4200.00 |
| 13 | 151.75 | 38.40 | 26.50 | 3900.00 | 38.40 | 26.50 | -3900.00 | 38.40 | -26.50 | 3900.00 |
| 12 | 141.33 | 35.90 | 24.75 | 3660.00 | 35.90 | 24.75 | -3660.00 | 35.90 | -24.75 | 3660.00 |
| 11 | 130.92 | 33.40 | 23.05 | 3420.00 | 33.40 | 23.05 | -3420.00 | 33.40 | -23.05 | 3420.00 |
| 10 | 120.50 | 31.00 | 21.30 | 3180.00 | 31.00 | 21.30 | -3180.00 | 31.00 | -21.30 | 3180.00 |
| 9 | 110.08 | 28.50 | 19.60 | 2880.00 | 28.50 | 19.60 | -2880.00 | 28.50 | -19.60 | 2880.00 |
| 8 | 99.67 | 26.00 | 17.90 | 2640.00 | 26.00 | 17.90 | -2640.00 | 26.00 | -17.90 | 2640.00 |
| 7 | 89.25 | 23.60 | 16.25 | 2400.00 | 23.60 | 16.25 | -2400.00 | 23.60 | -16.25 | 2400.00 |
| 6 | 78.83 | 21.10 | 14.55 | 2160.00 | 21.10 | 14.55 | -2160.00 | 21.10 | -14.55 | 2160.00 |
| 5 | 68.42 | 18.60 | 12.80 | 1920.00 | 18.60 | 12.80 | -1920.00 | 18.60 | -12.80 | 1920.00 |
| 4 | 58.00 | 29.80 | 20.55 | 2340.00 | 29.80 | 20.55 | -2340.00 | 29.80 | -20.55 | 2340.00 |
| 3 | 26.00 | 9.20 | 6.30 | 900.00 | 9.20 | 6.30 | -900.00 | 9.20 | -6.30 | 900.00 |
| 2 | 16.00 | 6.40 | 4.40 | 600.00 | 6.40 | 4.40 | -600.00 | 6.40 | -4.40 | 600.00 |

| Level | Height | Load Case 4 | | | Load Case 5 | | | Load Case 6 | | |
|-------|--------|-------------|---------|-----------|-------------|--------|----------|-------------|--------|-----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | 139.00 | -95.70 | -10260.00 | -139.00 | 95.70 | 10260.00 | -139.00 | 95.70 | -10260.00 |
| 40 | 437.58 | 169.30 | -116.65 | -15960.00 | -169.30 | 116.65 | 15960.00 | -169.30 | 116.65 | -15960.00 |
| 39 | 422.58 | 103.20 | -71.05 | -9960.00 | -103.20 | 71.05 | 9960.00 | -103.20 | 71.05 | -9960.00 |
| 38 | 412.17 | 96.30 | -66.35 | -9480.00 | -96.30 | 66.35 | 9480.00 | -96.30 | 66.35 | -9480.00 |
| 37 | 401.75 | 100.20 | -69.00 | -10020.00 | -100.20 | 69.00 | 10020.00 | -100.20 | 69.00 | -10020.00 |
| 36 | 391.33 | 97.60 | -67.25 | -9780.00 | -97.60 | 67.25 | 9780.00 | -97.60 | 67.25 | -9780.00 |
| 35 | 380.92 | 95.10 | -65.50 | -9540.00 | -95.10 | 65.50 | 9540.00 | -95.10 | 65.50 | -9540.00 |
| 34 | 370.50 | 92.50 | -63.75 | -9240.00 | -92.50 | 63.75 | 9240.00 | -92.50 | 63.75 | -9240.00 |
| 33 | 360.08 | 90.00 | -62.00 | -9000.00 | -90.00 | 62.00 | 9000.00 | -90.00 | 62.00 | -9000.00 |
| 32 | 349.67 | 87.40 | -60.25 | -8760.00 | -87.40 | 60.25 | 8760.00 | -87.40 | 60.25 | -8760.00 |
| 31 | 339.25 | 84.90 | -58.45 | -8520.00 | -84.90 | 58.45 | 8520.00 | -84.90 | 58.45 | -8520.00 |
| 30 | 328.83 | 82.30 | -56.70 | -8220.00 | -82.30 | 56.70 | 8220.00 | -82.30 | 56.70 | -8220.00 |
| 29 | 318.42 | 79.90 | -55.05 | -7980.00 | -79.90 | 55.05 | 7980.00 | -79.90 | 55.05 | -7980.00 |
| 28 | 308.00 | 77.40 | -53.30 | -7740.00 | -77.40 | 53.30 | 7740.00 | -77.40 | 53.30 | -7740.00 |
| 27 | 297.58 | 74.80 | -51.55 | -7500.00 | -74.80 | 51.55 | 7500.00 | -74.80 | 51.55 | -7500.00 |
| 26 | 287.17 | 72.30 | -49.80 | -7260.00 | -72.30 | 49.80 | 7260.00 | -72.30 | 49.80 | -7260.00 |
| 25 | 276.75 | 69.70 | -48.00 | -6960.00 | -69.70 | 48.00 | 6960.00 | -69.70 | 48.00 | -6960.00 |
| 24 | 266.33 | 65.80 | -45.30 | -6720.00 | -65.80 | 45.30 | 6720.00 | -65.80 | 45.30 | -6720.00 |
| 23 | 255.92 | 63.30 | -43.60 | -6480.00 | -63.30 | 43.60 | 6480.00 | -63.30 | 43.60 | -6480.00 |
| 22 | 245.50 | 60.80 | -41.85 | -6180.00 | -60.80 | 41.85 | 6180.00 | -60.80 | 41.85 | -6180.00 |
| 21 | 235.08 | 58.30 | -40.15 | -5940.00 | -58.30 | 40.15 | 5940.00 | -58.30 | 40.15 | -5940.00 |
| 20 | 224.67 | 55.80 | -38.45 | -5700.00 | -55.80 | 38.45 | 5700.00 | -55.80 | 38.45 | -5700.00 |
| 19 | 214.25 | 53.30 | -36.70 | -5460.00 | -53.30 | 36.70 | 5460.00 | -53.30 | 36.70 | -5460.00 |
| 18 | 203.83 | 50.90 | -35.05 | -5220.00 | -50.90 | 35.05 | 5220.00 | -50.90 | 35.05 | -5220.00 |
| 17 | 193.42 | 48.40 | -33.35 | -4920.00 | -48.40 | 33.35 | 4920.00 | -48.40 | 33.35 | -4920.00 |
| 16 | 183.00 | 45.90 | -31.65 | -4680.00 | -45.90 | 31.65 | 4680.00 | -45.90 | 31.65 | -4680.00 |
| 15 | 172.58 | 43.40 | -29.90 | -4440.00 | -43.40 | 29.90 | 4440.00 | -43.40 | 29.90 | -4440.00 |
| 14 | 162.17 | 40.90 | -28.20 | -4200.00 | -40.90 | 28.20 | 4200.00 | -40.90 | 28.20 | -4200.00 |
| 13 | 151.75 | 38.40 | -26.50 | -3900.00 | -38.40 | 26.50 | 3900.00 | -38.40 | 26.50 | -3900.00 |
| 12 | 141.33 | 35.90 | -24.75 | -3660.00 | -35.90 | 24.75 | 3660.00 | -35.90 | 24.75 | -3660.00 |
| 11 | 130.92 | 33.40 | -23.05 | -3420.00 | -33.40 | 23.05 | 3420.00 | -33.40 | 23.05 | -3420.00 |
| 10 | 120.50 | 31.00 | -21.30 | -3180.00 | -31.00 | 21.30 | 3180.00 | -31.00 | 21.30 | -3180.00 |
| 9 | 110.08 | 28.50 | -19.60 | -2880.00 | -28.50 | 19.60 | 2880.00 | -28.50 | 19.60 | -2880.00 |
| 8 | 99.67 | 26.00 | -17.90 | -2640.00 | -26.00 | 17.90 | 2640.00 | -26.00 | 17.90 | -2640.00 |
| 7 | 89.25 | 23.60 | -16.25 | -2400.00 | -23.60 | 16.25 | 2400.00 | -23.60 | 16.25 | -2400.00 |
| 6 | 78.83 | 21.10 | -14.55 | -2160.00 | -21.10 | 14.55 | 2160.00 | -21.10 | 14.55 | -2160.00 |
| 5 | 68.42 | 18.60 | -12.80 | -1920.00 | -18.60 | 12.80 | 1920.00 | -18.60 | 12.80 | -1920.00 |
| 4 | 58.00 | 29.80 | -20.55 | -2340.00 | -29.80 | 20.55 | 2340.00 | -29.80 | 20.55 | -2340.00 |
| 3 | 26.00 | 9.20 | -6.30 | -900.00 | -9.20 | 6.30 | 900.00 | -9.20 | 6.30 | -900.00 |
| 2 | 16.00 | 6.40 | -4.40 | -600.00 | -6.40 | 4.40 | 600.00 | -6.40 | 4.40 | -600.00 |

| Level | Height | Load Case 7 | | | Load Case 8 | | | Load Case 9 | | |
|-------|--------|-------------|---------|----------|-------------|---------|-----------|-------------|--------|----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | -139.00 | -95.70 | 10260.00 | -139.00 | -95.70 | -10260.00 | 90.35 | 191.40 | 12312.00 |
| 40 | 437.58 | -169.30 | -116.65 | 15960.00 | -169.30 | -116.65 | -15960.00 | 110.05 | 233.30 | 19152.00 |
| 39 | 422.58 | -103.20 | -71.05 | 9960.00 | -103.20 | -71.05 | -9960.00 | 67.08 | 142.10 | 11952.00 |
| 38 | 412.17 | -96.30 | -66.35 | 9480.00 | -96.30 | -66.35 | -9480.00 | 62.60 | 132.70 | 11376.00 |
| 37 | 401.75 | -100.20 | -69.00 | 10020.00 | -100.20 | -69.00 | -10020.00 | 65.13 | 138.00 | 12024.00 |
| 36 | 391.33 | -97.60 | -67.25 | 9780.00 | -97.60 | -67.25 | -9780.00 | 63.44 | 134.50 | 11736.00 |
| 35 | 380.92 | -95.10 | -65.50 | 9540.00 | -95.10 | -65.50 | -9540.00 | 61.82 | 131.00 | 11448.00 |
| 34 | 370.50 | -92.50 | -63.75 | 9240.00 | -92.50 | -63.75 | -9240.00 | 60.13 | 127.50 | 11088.00 |
| 33 | 360.08 | -90.00 | -62.00 | 9000.00 | -90.00 | -62.00 | -9000.00 | 58.50 | 124.00 | 10800.00 |
| 32 | 349.67 | -87.40 | -60.25 | 8760.00 | -87.40 | -60.25 | -8760.00 | 56.81 | 120.50 | 10512.00 |
| 31 | 339.25 | -84.90 | -58.45 | 8520.00 | -84.90 | -58.45 | -8520.00 | 55.19 | 116.90 | 10224.00 |
| 30 | 328.83 | -82.30 | -56.70 | 8220.00 | -82.30 | -56.70 | -8220.00 | 53.50 | 113.40 | 9864.00 |
| 29 | 318.42 | -79.90 | -55.05 | 7980.00 | -79.90 | -55.05 | -7980.00 | 51.94 | 110.10 | 9576.00 |
| 28 | 308.00 | -77.40 | -53.30 | 7740.00 | -77.40 | -53.30 | -7740.00 | 50.31 | 106.60 | 9288.00 |
| 27 | 297.58 | -74.80 | -51.55 | 7500.00 | -74.80 | -51.55 | -7500.00 | 48.62 | 103.10 | 9000.00 |
| 26 | 287.17 | -72.30 | -49.80 | 7260.00 | -72.30 | -49.80 | -7260.00 | 47.00 | 99.60 | 8712.00 |
| 25 | 276.75 | -69.70 | -48.00 | 6960.00 | -69.70 | -48.00 | -6960.00 | 45.31 | 96.00 | 8352.00 |
| 24 | 266.33 | -65.80 | -45.30 | 6720.00 | -65.80 | -45.30 | -6720.00 | 42.77 | 90.60 | 8064.00 |
| 23 | 255.92 | -63.30 | -43.60 | 6480.00 | -63.30 | -43.60 | -6480.00 | 41.15 | 87.20 | 7776.00 |
| 22 | 245.50 | -60.80 | -41.85 | 6180.00 | -60.80 | -41.85 | -6180.00 | 39.52 | 83.70 | 7416.00 |
| 21 | 235.08 | -58.30 | -40.15 | 5940.00 | -58.30 | -40.15 | -5940.00 | 37.90 | 80.30 | 7128.00 |
| 20 | 224.67 | -55.80 | -38.45 | 5700.00 | -55.80 | -38.45 | -5700.00 | 36.27 | 76.90 | 6840.00 |
| 19 | 214.25 | -53.30 | -36.70 | 5460.00 | -53.30 | -36.70 | -5460.00 | 34.65 | 73.40 | 6552.00 |
| 18 | 203.83 | -50.90 | -35.05 | 5220.00 | -50.90 | -35.05 | -5220.00 | 33.09 | 70.10 | 6264.00 |
| 17 | 193.42 | -48.40 | -33.35 | 4920.00 | -48.40 | -33.35 | -4920.00 | 31.46 | 66.70 | 5904.00 |
| 16 | 183.00 | -45.90 | -31.65 | 4680.00 | -45.90 | -31.65 | -4680.00 | 29.84 | 63.30 | 5616.00 |
| 15 | 172.58 | -43.40 | -29.90 | 4440.00 | -43.40 | -29.90 | -4440.00 | 28.21 | 59.80 | 5328.00 |
| 14 | 162.17 | -40.90 | -28.20 | 4200.00 | -40.90 | -28.20 | -4200.00 | 26.59 | 56.40 | 5040.00 |
| 13 | 151.75 | -38.40 | -26.50 | 3900.00 | -38.40 | -26.50 | -3900.00 | 24.96 | 53.00 | 4680.00 |
| 12 | 141.33 | -35.90 | -24.75 | 3660.00 | -35.90 | -24.75 | -3660.00 | 23.34 | 49.50 | 4392.00 |
| 11 | 130.92 | -33.40 | -23.05 | 3420.00 | -33.40 | -23.05 | -3420.00 | 21.71 | 46.10 | 4104.00 |
| 10 | 120.50 | -31.00 | -21.30 | 3180.00 | -31.00 | -21.30 | -3180.00 | 20.15 | 42.60 | 3816.00 |
| 9 | 110.08 | -28.50 | -19.60 | 2880.00 | -28.50 | -19.60 | -2880.00 | 18.53 | 39.20 | 3456.00 |
| 8 | 99.67 | -26.00 | -17.90 | 2640.00 | -26.00 | -17.90 | -2640.00 | 16.90 | 35.80 | 3168.00 |
| 7 | 89.25 | -23.60 | -16.25 | 2400.00 | -23.60 | -16.25 | -2400.00 | 15.34 | 32.50 | 2880.00 |
| 6 | 78.83 | -21.10 | -14.55 | 2160.00 | -21.10 | -14.55 | -2160.00 | 13.72 | 29.10 | 2592.00 |
| 5 | 68.42 | -18.60 | -12.80 | 1920.00 | -18.60 | -12.80 | -1920.00 | 12.09 | 25.60 | 2304.00 |
| 4 | 58.00 | -29.80 | -20.55 | 2340.00 | -29.80 | -20.55 | -2340.00 | 19.37 | 41.10 | 2808.00 |
| 3 | 26.00 | -9.20 | -6.30 | 900.00 | -9.20 | -6.30 | -900.00 | 5.98 | 12.60 | 1080.00 |
| 2 | 16.00 | -6.40 | -4.40 | 600.00 | -6.40 | -4.40 | -600.00 | 4.16 | 8.80 | 720.00 |

| Level | Height | Load Case 10 | | | Load Case 11 | | | Load Case 12 | | |
|-------|--------|--------------|--------|-----------|--------------|--------|----------|--------------|--------|-----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | 90.35 | 191.40 | 12312.00 | 90.35 | 191.40 | 12312.00 | 90.35 | 191.40 | 12312.00 |
| 40 | 437.58 | 110.05 | 233.30 | -19152.00 | -110.05 | 233.30 | 19152.00 | -110.05 | 233.30 | -19152.00 |
| 39 | 422.58 | 67.08 | 142.10 | -11952.00 | -67.08 | 142.10 | 11952.00 | -67.08 | 142.10 | -11952.00 |
| 38 | 412.17 | 62.60 | 132.70 | -11376.00 | -62.60 | 132.70 | 11376.00 | -62.60 | 132.70 | -11376.00 |
| 37 | 401.75 | 65.13 | 138.00 | -12024.00 | -65.13 | 138.00 | 12024.00 | -65.13 | 138.00 | -12024.00 |
| 36 | 391.33 | 63.44 | 134.50 | -11736.00 | -63.44 | 134.50 | 11736.00 | -63.44 | 134.50 | -11736.00 |
| 35 | 380.92 | 61.82 | 131.00 | -11448.00 | -61.82 | 131.00 | 11448.00 | -61.82 | 131.00 | -11448.00 |
| 34 | 370.50 | 60.13 | 127.50 | -11000.00 | -60.13 | 127.50 | 11000.00 | -60.13 | 127.50 | -11000.00 |
| 33 | 360.08 | 58.50 | 124.00 | -10800.00 | -58.50 | 124.00 | 10800.00 | -58.50 | 124.00 | -10800.00 |
| 32 | 349.67 | 56.81 | 120.50 | -10512.00 | -56.81 | 120.50 | 10512.00 | -56.81 | 120.50 | -10512.00 |
| 31 | 339.25 | 55.19 | 116.90 | -10224.00 | -55.19 | 116.90 | 10224.00 | -55.19 | 116.90 | -10224.00 |
| 30 | 328.83 | 53.50 | 113.40 | -9864.00 | -53.50 | 113.40 | 9864.00 | -53.50 | 113.40 | -9864.00 |
| 29 | 318.42 | 51.94 | 110.10 | -9576.00 | -51.94 | 110.10 | 9576.00 | -51.94 | 110.10 | -9576.00 |
| 28 | 308.00 | 50.31 | 106.60 | -9288.00 | -50.31 | 106.60 | 9288.00 | -50.31 | 106.60 | -9288.00 |
| 27 | 297.58 | 48.62 | 103.10 | -9000.00 | -48.62 | 103.10 | 9000.00 | -48.62 | 103.10 | -9000.00 |
| 26 | 287.17 | 47.00 | 99.60 | -8712.00 | -47.00 | 99.60 | 8712.00 | -47.00 | 99.60 | -8712.00 |
| 25 | 276.75 | 45.31 | 96.00 | -8352.00 | -45.31 | 96.00 | 8352.00 | -45.31 | 96.00 | -8352.00 |
| 24 | 266.33 | 42.77 | 90.60 | -8064.00 | -42.77 | 90.60 | 8064.00 | -42.77 | 90.60 | -8064.00 |
| 23 | 255.92 | 41.15 | 87.20 | -7776.00 | -41.15 | 87.20 | 7776.00 | -41.15 | 87.20 | -7776.00 |
| 22 | 245.50 | 39.52 | 83.70 | -7416.00 | -39.52 | 83.70 | 7416.00 | -39.52 | 83.70 | -7416.00 |
| 21 | 235.08 | 37.90 | 80.30 | -7128.00 | -37.90 | 80.30 | 7128.00 | -37.90 | 80.30 | -7128.00 |
| 20 | 224.67 | 36.27 | 76.90 | -6840.00 | -36.27 | 76.90 | 6840.00 | -36.27 | 76.90 | -6840.00 |
| 19 | 214.25 | 34.65 | 73.40 | -6552.00 | -34.65 | 73.40 | 6552.00 | -34.65 | 73.40 | -6552.00 |
| 18 | 203.83 | 33.09 | 70.10 | -6264.00 | -33.09 | 70.10 | 6264.00 | -33.09 | 70.10 | -6264.00 |
| 17 | 193.42 | 31.46 | 66.70 | -5904.00 | -31.46 | 66.70 | 5904.00 | -31.46 | 66.70 | -5904.00 |
| 16 | 183.00 | 29.84 | 63.30 | -5616.00 | -29.84 | 63.30 | 5616.00 | -29.84 | 63.30 | -5616.00 |
| 15 | 172.58 | 28.21 | 59.80 | -5328.00 | -28.21 | 59.80 | 5328.00 | -28.21 | 59.80 | -5328.00 |
| 14 | 162.17 | 26.59 | 56.40 | -5040.00 | -26.59 | 56.40 | 5040.00 | -26.59 | 56.40 | -5040.00 |
| 13 | 151.75 | 24.96 | 53.00 | -4680.00 | -24.96 | 53.00 | 4680.00 | -24.96 | 53.00 | -4680.00 |
| 12 | 141.33 | 23.34 | 49.50 | -4392.00 | -23.34 | 49.50 | 4392.00 | -23.34 | 49.50 | -4392.00 |
| 11 | 130.92 | 21.71 | 46.10 | 4104.00 | 21.71 | 46.10 | 4104.00 | 21.71 | 46.10 | 4104.00 |
| 10 | 120.50 | 20.15 | 42.60 | -3816.00 | -20.15 | 42.60 | 3816.00 | -20.15 | 42.60 | -3816.00 |
| 9 | 110.08 | 18.53 | 39.20 | -3456.00 | -18.53 | 39.20 | 3456.00 | -18.53 | 39.20 | -3456.00 |
| 8 | 99.67 | 16.90 | 35.80 | -3168.00 | -16.90 | 35.80 | 3168.00 | -16.90 | 35.80 | -3168.00 |
| 7 | 89.25 | 15.34 | 32.50 | -2880.00 | -15.34 | 32.50 | 2880.00 | -15.34 | 32.50 | -2880.00 |
| 6 | 78.83 | 13.72 | 29.10 | -2592.00 | -13.72 | 29.10 | 2592.00 | -13.72 | 29.10 | -2592.00 |
| 5 | 68.42 | 12.09 | 25.60 | -2304.00 | -12.09 | 25.60 | 2304.00 | -12.09 | 25.60 | -2304.00 |
| 4 | 50.00 | 19.37 | 41.10 | -2808.00 | -19.37 | 41.10 | 2808.00 | -19.37 | 41.10 | -2808.00 |
| 3 | 26.00 | 5.98 | 12.60 | -1080.00 | -5.98 | 12.60 | 1080.00 | -5.98 | 12.60 | -1080.00 |
| 2 | 16.00 | 4.16 | 8.80 | -720.00 | -4.16 | 8.80 | 720.00 | -4.16 | 8.80 | -720.00 |

| Level | Height | Load Case 13 | | | Load Case 14 | | | Load Case 15 | | |
|-------|--------|--------------|---------|----------|--------------|---------|-----------|--------------|---------|----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | 90.35 | -191.40 | 12312.00 | 90.35 | -191.40 | -12312.00 | -90.35 | -191.40 | 12312.00 |
| 40 | 437.58 | 110.05 | -233.30 | 19152.00 | 110.05 | -233.30 | -19152.00 | -110.05 | -233.30 | 19152.00 |
| 39 | 422.58 | 67.08 | -142.10 | 11952.00 | 67.08 | -142.10 | -11952.00 | -67.08 | -142.10 | 11952.00 |
| 38 | 412.17 | 62.60 | -132.70 | 11376.00 | 62.60 | -132.70 | -11376.00 | -62.60 | -132.70 | 11376.00 |
| 37 | 401.75 | 65.13 | -138.00 | 12024.00 | 65.13 | -138.00 | -12024.00 | -65.13 | -138.00 | 12024.00 |
| 36 | 391.33 | 63.44 | -134.50 | 11736.00 | 63.44 | -134.50 | -11736.00 | -63.44 | -134.50 | 11736.00 |
| 35 | 380.92 | 61.82 | -131.00 | 11448.00 | 61.82 | -131.00 | -11448.00 | -61.82 | -131.00 | 11448.00 |
| 34 | 370.50 | 60.13 | -127.50 | 11088.00 | 60.13 | -127.50 | -11088.00 | -60.13 | -127.50 | 11088.00 |
| 33 | 360.08 | 58.50 | -124.00 | 10800.00 | 58.50 | -124.00 | -10800.00 | -58.50 | -124.00 | 10800.00 |
| 32 | 349.67 | 56.81 | -120.50 | 10512.00 | 56.81 | -120.50 | -10512.00 | -56.81 | -120.50 | 10512.00 |
| 31 | 339.25 | 55.19 | -116.90 | 10224.00 | 55.19 | -116.90 | -10224.00 | -55.19 | -116.90 | 10224.00 |
| 30 | 328.83 | 53.50 | -113.40 | 9864.00 | 53.50 | -113.40 | -9864.00 | -53.50 | -113.40 | 9864.00 |
| 29 | 318.42 | 51.94 | -110.10 | 9576.00 | 51.94 | -110.10 | -9576.00 | -51.94 | -110.10 | 9576.00 |
| 28 | 308.00 | 50.31 | -106.60 | 9288.00 | 50.31 | -106.60 | -9288.00 | -50.31 | -106.60 | 9288.00 |
| 27 | 297.58 | 48.62 | -103.10 | 9000.00 | 48.62 | -103.10 | -9000.00 | -48.62 | -103.10 | 9000.00 |
| 26 | 287.17 | 47.00 | -99.60 | 8712.00 | 47.00 | -99.60 | -8712.00 | -47.00 | -99.60 | 8712.00 |
| 25 | 276.75 | 45.31 | -96.00 | 8352.00 | 45.31 | -96.00 | -8352.00 | -45.31 | -96.00 | 8352.00 |
| 24 | 266.33 | 42.77 | -90.60 | 8064.00 | 42.77 | -90.60 | -8064.00 | -42.77 | -90.60 | 8064.00 |
| 23 | 255.92 | 41.15 | -87.20 | 7776.00 | 41.15 | -87.20 | -7776.00 | -41.15 | -87.20 | 7776.00 |
| 22 | 245.50 | 39.52 | -83.70 | 7416.00 | 39.52 | -83.70 | -7416.00 | -39.52 | -83.70 | 7416.00 |
| 21 | 235.08 | 37.90 | -80.30 | 7128.00 | 37.90 | -80.30 | -7128.00 | -37.90 | -80.30 | 7128.00 |
| 20 | 224.67 | 36.27 | -76.90 | 6840.00 | 36.27 | -76.90 | -6840.00 | -36.27 | -76.90 | 6840.00 |
| 19 | 214.25 | 34.65 | -73.40 | 6552.00 | 34.65 | -73.40 | -6552.00 | -34.65 | -73.40 | 6552.00 |
| 18 | 203.83 | 33.09 | -70.10 | 6264.00 | 33.09 | -70.10 | -6264.00 | -33.09 | -70.10 | 6264.00 |
| 17 | 193.42 | 31.46 | -66.70 | 5904.00 | 31.46 | -66.70 | -5904.00 | -31.46 | -66.70 | 5904.00 |
| 16 | 183.00 | 29.84 | -63.30 | 5616.00 | 29.84 | -63.30 | -5616.00 | -29.84 | -63.30 | 5616.00 |
| 15 | 172.58 | 28.21 | -59.80 | 5328.00 | 28.21 | -59.80 | -5328.00 | -28.21 | -59.80 | 5328.00 |
| 14 | 162.17 | 26.59 | -56.40 | 5040.00 | 26.59 | -56.40 | -5040.00 | -26.59 | -56.40 | 5040.00 |
| 13 | 151.75 | 24.96 | -53.00 | 4680.00 | 24.96 | -53.00 | -4680.00 | -24.96 | -53.00 | 4680.00 |
| 12 | 141.33 | 23.34 | -49.50 | 4392.00 | 23.34 | -49.50 | -4392.00 | -23.34 | -49.50 | 4392.00 |
| 11 | 130.92 | 21.71 | -46.10 | 4104.00 | 21.71 | -46.10 | -4104.00 | -21.71 | -46.10 | 4104.00 |
| 10 | 120.50 | 20.15 | -42.60 | 3816.00 | 20.15 | -42.60 | -3816.00 | -20.15 | -42.60 | 3816.00 |
| 9 | 110.08 | 18.53 | -39.20 | 3456.00 | 18.53 | -39.20 | -3456.00 | -18.53 | -39.20 | 3456.00 |
| 8 | 99.67 | 16.90 | -35.80 | 3168.00 | 16.90 | -35.80 | -3168.00 | -16.90 | -35.80 | 3168.00 |
| 7 | 89.25 | 15.34 | -32.50 | 2880.00 | 15.34 | -32.50 | -2880.00 | -15.34 | -32.50 | 2880.00 |
| 6 | 78.83 | 13.72 | -29.10 | 2592.00 | 13.72 | -29.10 | -2592.00 | -13.72 | -29.10 | 2592.00 |
| 5 | 68.42 | 12.09 | -25.60 | 2304.00 | 12.09 | -25.60 | -2304.00 | -12.09 | -25.60 | 2304.00 |
| 4 | 58.00 | 19.37 | -41.10 | 2808.00 | 19.37 | -41.10 | -2808.00 | -19.37 | -41.10 | 2808.00 |
| 3 | 26.00 | 5.98 | -12.60 | 1080.00 | 5.98 | -12.60 | -1080.00 | -5.98 | -12.60 | 1080.00 |
| 2 | 16.00 | 4.16 | -8.80 | 720.00 | 4.16 | -8.80 | -720.00 | -4.16 | -8.80 | 720.00 |

| Level | Height | Load Case 16 | | | Load Case 17 | | | Load Case 18 | | |
|-------|--------|--------------|---------|-----------|--------------|--------|----------|--------------|---------|----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | -90.35 | -191.40 | -12312.00 | 90.35 | 95.70 | 12312.00 | 90.35 | -95.70 | 12312.00 |
| 40 | 437.58 | -110.05 | -233.30 | -19152.00 | 110.05 | 116.65 | 19152.00 | 110.05 | -116.65 | 19152.00 |
| 39 | 422.58 | -67.08 | -142.10 | -11952.00 | 67.08 | 71.05 | 11952.00 | 67.08 | -71.05 | 11952.00 |
| 38 | 412.17 | -62.60 | -132.70 | -11376.00 | 62.60 | 66.35 | 11376.00 | 62.60 | -66.35 | 11376.00 |
| 37 | 401.75 | -65.13 | -138.00 | -12024.00 | 65.13 | 69.00 | 12024.00 | 65.13 | -69.00 | 12024.00 |
| 36 | 391.33 | -63.44 | -134.50 | -11736.00 | 63.44 | 67.25 | 11736.00 | 63.44 | -67.25 | 11736.00 |
| 35 | 380.92 | -61.82 | -131.00 | -11448.00 | 61.82 | 65.50 | 11448.00 | 61.82 | -65.50 | 11448.00 |
| 34 | 370.50 | -60.13 | -127.50 | -11088.00 | 60.13 | 63.75 | 11088.00 | 60.13 | -63.75 | 11088.00 |
| 33 | 360.08 | -58.50 | -124.00 | -10800.00 | 58.50 | 62.00 | 10800.00 | 58.50 | -62.00 | 10800.00 |
| 32 | 349.67 | -56.81 | -120.50 | -10512.00 | 56.81 | 60.25 | 10512.00 | 56.81 | -60.25 | 10512.00 |
| 31 | 339.25 | -55.19 | -116.90 | -10224.00 | 55.19 | 58.45 | 10224.00 | 55.19 | -58.45 | 10224.00 |
| 30 | 328.83 | -53.50 | -113.40 | -9864.00 | 53.50 | 56.70 | 9864.00 | 53.50 | -56.70 | 9864.00 |
| 29 | 318.42 | -51.94 | -110.10 | -9576.00 | 51.94 | 55.05 | 9576.00 | 51.94 | -55.05 | 9576.00 |
| 28 | 308.00 | -50.31 | -106.60 | -9288.00 | 50.31 | 53.30 | 9288.00 | 50.31 | -53.30 | 9288.00 |
| 27 | 297.58 | -48.62 | -103.10 | -9000.00 | 48.62 | 51.55 | 9000.00 | 48.62 | -51.55 | 9000.00 |
| 26 | 287.17 | -47.00 | -99.60 | -8712.00 | 47.00 | 49.80 | 8712.00 | 47.00 | -49.80 | 8712.00 |
| 25 | 276.75 | -45.31 | -96.00 | -8352.00 | 45.31 | 48.00 | 8352.00 | 45.31 | -48.00 | 8352.00 |
| 24 | 266.33 | -42.77 | -90.60 | -8064.00 | 42.77 | 45.30 | 8064.00 | 42.77 | -45.30 | 8064.00 |
| 23 | 255.92 | -41.15 | -87.20 | -7776.00 | 41.15 | 43.60 | 7776.00 | 41.15 | -43.60 | 7776.00 |
| 22 | 245.50 | -39.52 | -83.70 | -7416.00 | 39.52 | 41.85 | 7416.00 | 39.52 | -41.85 | 7416.00 |
| 21 | 235.08 | -37.90 | -80.30 | -7128.00 | 37.90 | 40.15 | 7128.00 | 37.90 | -40.15 | 7128.00 |
| 20 | 224.67 | -36.27 | -76.90 | -6840.00 | 36.27 | 38.45 | 6840.00 | 36.27 | -38.45 | 6840.00 |
| 19 | 214.25 | -34.65 | -73.40 | -6552.00 | 34.65 | 36.70 | 6552.00 | 34.65 | -36.70 | 6552.00 |
| 18 | 203.83 | -33.09 | -70.10 | -6264.00 | 33.09 | 35.05 | 6264.00 | 33.09 | -35.05 | 6264.00 |
| 17 | 193.42 | -31.46 | -66.70 | -5904.00 | 31.46 | 33.35 | 5904.00 | 31.46 | -33.35 | 5904.00 |
| 16 | 183.00 | -29.84 | -63.30 | -5616.00 | 29.84 | 31.65 | 5616.00 | 29.84 | -31.65 | 5616.00 |
| 15 | 172.58 | -28.21 | -59.80 | -5328.00 | 28.21 | 29.90 | 5328.00 | 28.21 | -29.90 | 5328.00 |
| 14 | 162.17 | -26.59 | -56.40 | -5040.00 | 26.59 | 28.20 | 5040.00 | 26.59 | -28.20 | 5040.00 |
| 13 | 151.75 | -24.96 | -53.00 | -4580.00 | 24.96 | 26.50 | 4680.00 | 24.96 | -26.50 | 4680.00 |
| 12 | 141.33 | -23.34 | -49.50 | -4392.00 | 23.34 | 24.75 | 4392.00 | 23.34 | -24.75 | 4392.00 |
| 11 | 130.92 | -21.71 | -46.10 | -4104.00 | 21.71 | 23.05 | 4104.00 | 21.71 | -23.05 | 4104.00 |
| 10 | 120.50 | -20.15 | -42.60 | -3816.00 | 20.15 | 21.30 | 3816.00 | 20.15 | -21.30 | 3816.00 |
| 9 | 110.08 | -18.53 | -39.20 | -3456.00 | 18.53 | 19.60 | 3456.00 | 18.53 | -19.60 | 3456.00 |
| 8 | 99.67 | -16.90 | -35.80 | -3168.00 | 16.90 | 17.90 | 3168.00 | 16.90 | -17.90 | 3168.00 |
| 7 | 89.25 | -15.34 | -32.50 | -2880.00 | 15.34 | 16.25 | 2880.00 | 15.34 | -16.25 | 2880.00 |
| 6 | 78.83 | -13.72 | -29.10 | -2592.00 | 13.72 | 14.55 | 2592.00 | 13.72 | -14.55 | 2592.00 |
| 5 | 68.42 | -12.09 | -25.60 | -2304.00 | 12.09 | 12.80 | 2304.00 | 12.09 | -12.80 | 2304.00 |
| 4 | 58.00 | -19.37 | -41.10 | -2808.00 | 19.37 | 20.55 | 2808.00 | 19.37 | -20.55 | 2808.00 |
| 3 | 26.00 | -5.98 | -12.60 | -1080.00 | 5.98 | 6.30 | 1080.00 | 5.98 | -6.30 | 1080.00 |
| 2 | 16.00 | -4.16 | -8.80 | -720.00 | 4.16 | 4.40 | 720.00 | 4.16 | -4.40 | 720.00 |

| Level | Height | Load Case 19 | | | Load Case 20 | | |
|-------|--------|--------------|--------|-----------|--------------|---------|-----------|
| | | Fx | Fy | Mz | Fx | Fy | Mz |
| Roof | 460.00 | -90.35 | 95.70 | -12312.00 | -90.35 | -95.70 | -12312.00 |
| 40 | 437.58 | -110.05 | 116.65 | -19152.00 | -110.05 | -116.65 | -19152.00 |
| 39 | 422.58 | -67.08 | 71.05 | -11952.00 | -67.08 | -71.05 | -11952.00 |
| 38 | 412.17 | -62.60 | 66.35 | -11376.00 | -62.60 | -66.35 | -11376.00 |
| 37 | 401.75 | -65.13 | 69.00 | -12024.00 | -65.13 | -69.00 | -12024.00 |
| 36 | 391.33 | -63.44 | 67.25 | -11736.00 | -63.44 | -67.25 | -11736.00 |
| 35 | 380.92 | -61.82 | 65.50 | -11448.00 | -61.82 | -65.50 | -11448.00 |
| 34 | 370.50 | -60.13 | 63.75 | -11088.00 | -60.13 | -63.75 | -11088.00 |
| 33 | 360.08 | -58.50 | 62.00 | -10800.00 | -58.50 | -62.00 | -10800.00 |
| 32 | 349.67 | -56.81 | 60.25 | -10512.00 | -56.81 | -60.25 | -10512.00 |
| 31 | 339.25 | -55.19 | 58.45 | -10224.00 | -55.19 | -58.45 | -10224.00 |
| 30 | 328.83 | -53.50 | 56.70 | -9864.00 | -53.50 | -56.70 | -9864.00 |
| 29 | 318.42 | -51.94 | 55.05 | -9576.00 | -51.94 | -55.05 | -9576.00 |
| 28 | 308.00 | -50.31 | 53.30 | -9288.00 | -50.31 | -53.30 | -9288.00 |
| 27 | 297.58 | -48.62 | 51.55 | -9000.00 | -48.62 | -51.55 | -9000.00 |
| 26 | 287.17 | -47.00 | 49.80 | -8712.00 | -47.00 | -49.80 | -8712.00 |
| 25 | 276.75 | -45.31 | 48.00 | -8352.00 | -45.31 | -48.00 | -8352.00 |
| 24 | 266.33 | -42.77 | 45.30 | -8064.00 | -42.77 | -45.30 | -8064.00 |
| 23 | 255.92 | -41.15 | 43.60 | -7776.00 | -41.15 | -43.60 | -7776.00 |
| 22 | 245.50 | -39.52 | 41.85 | -7416.00 | -39.52 | -41.85 | -7416.00 |
| 21 | 235.08 | -37.90 | 40.15 | -7128.00 | -37.90 | -40.15 | -7128.00 |
| 20 | 224.67 | -36.27 | 38.45 | -6840.00 | -36.27 | -38.45 | -6840.00 |
| 19 | 214.25 | -34.65 | 36.70 | -6552.00 | -34.65 | -36.70 | -6552.00 |
| 18 | 203.83 | -33.09 | 35.05 | -6264.00 | -33.09 | -35.05 | -6264.00 |
| 17 | 193.42 | -31.46 | 33.35 | -5904.00 | -31.46 | -33.35 | -5904.00 |
| 16 | 183.00 | -29.84 | 31.65 | -5616.00 | -29.84 | -31.65 | -5616.00 |
| 15 | 172.58 | -28.21 | 29.90 | -5328.00 | -28.21 | -29.90 | -5328.00 |
| 14 | 162.17 | -26.59 | 28.20 | -5040.00 | -26.59 | -28.20 | -5040.00 |
| 13 | 151.75 | -24.96 | 26.50 | -4680.00 | -24.96 | -26.50 | -4680.00 |
| 12 | 141.33 | -23.34 | 24.75 | -4392.00 | -23.34 | -24.75 | -4392.00 |
| 11 | 130.92 | -21.71 | 23.05 | -4104.00 | -21.71 | -23.05 | -4104.00 |
| 10 | 120.50 | -20.15 | 21.30 | -3816.00 | -20.15 | -21.30 | -3816.00 |
| 9 | 110.08 | -18.53 | 19.60 | -3456.00 | -18.53 | -19.60 | -3456.00 |
| 8 | 99.67 | -16.90 | 17.90 | -3168.00 | -16.90 | -17.90 | -3168.00 |
| 7 | 89.25 | -15.34 | 16.25 | -2880.00 | -15.34 | -16.25 | -2880.00 |
| 6 | 78.83 | -13.72 | 14.55 | -2592.00 | -13.72 | -14.55 | -2592.00 |
| 5 | 68.42 | -12.09 | 12.80 | -2304.00 | -12.09 | -12.80 | -2304.00 |
| 4 | 58.00 | -19.37 | 20.55 | -2808.00 | -19.37 | -20.55 | -2808.00 |
| 3 | 26.00 | -5.98 | 6.30 | -1080.00 | -5.98 | -6.30 | -1080.00 |
| 2 | 16.00 | -4.16 | 4.40 | -720.00 | -4.16 | -4.40 | -720.00 |