# WIND-TUNNEL STUDY OF LAKEWAY CENTER COMPLEX, METAIRIE, LOUISIANA

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WIND ENGINEERING PROGRAM

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## LIST OF SYMBOLS

| Symbol | Definition |
|---|---|
| $U$ | Local mean velocity |
| $D$ | Characteristic dimension (building height, width, etc.) |
| $\nu$, $\rho$ | Kinematic viscosity and density of approach flow |
| $\frac{UD}{\nu}$ | Reynolds number |
| $E$ | Mean voltage |
| $A$, $B$, $n$ | Constants |
| $U_{rms}$ | Root-mean-square of fluctuating velocity |
| $E_{rms}$ | Root-mean-square of fluctuating voltage |
| $U_\infty$ | Reference mean velocity outside the boundary layer |
| $X$, $Y$ | Horizontal coordinates |
| $Z$ | Height above surface |
| $\delta$ | Height of boundary layer |
| $T_u$ | Turbulence intensity $\frac{U_{rms}}{U_\infty}$ or $\frac{U_{rms}}{U}$ |
| $C_{p_{mean}}$ | Mean pressure coefficient, $\frac{(p-p_\infty)_{mean}}{0.5\ \rho\ U_\infty^2}$ |
| $C_{p_{rms}}$ | Root-mean-square pressure coefficient, $\frac{\left((p-p_\infty)-(p-p_\infty)_{mean}\right)_{rms}}{0.5\ \rho\ U_\infty^2}$ |
| $C_{p_{max}}$ | Peak maximum pressure coefficient, $\frac{(p-p_\infty)_{max}}{0.5\ \rho\ U_\infty^2}$ |
| $C_{p_{min}}$ | Peak minimum pressure coefficient, $\frac{(p-p_\infty)_{min}}{0.5\ \rho\ U_\infty^2}$ |
| $(\ )_{min}$ | Minimum value during data record |
| $(\ )_{max}$ | Maximum value during data record |

| Symbol | Definition |
|---|---|
| $p$ | Fluctuating pressure at a pressure tap on the structure |
| $p_\infty$ | Static pressure in the wind tunnel above the model |
| $F_x$, $F_y$ | Forces in X, Y direction |
| $A_R$ | Reference Area |
| $CF_X$ | Force coefficient, X direction, $\frac{F_x}{A_R \; 0.5 \; \rho \; U_\infty^2}$ |
| $CF_Y$ | Force coefficient, X direction, $\frac{F_y}{A_R \; 0.5 \; \rho \; U_\infty^2}$ |

# 1. INTRODUCTION

## 1.1 General

A significant characteristic of modern building design is lighter cladding and more flexible frames. These features produce an increased vulnerability of glass and cladding to wind damage and result in larger deflections of the building frame. In addition, increased use of pedestrian plazas at the base of the buildings has brought about a need to consider the effects of wind and gustiness in the design of these areas.

The building geometry itself may increase or decrease wind loading on the structure. Wind forces may be modified by nearby structures which can produce beneficial shielding or adverse increases in loading. Overestimating loads results in uneconomical design; underestimating may result in cladding or window failures. Tall structures have historically produced unpleasant wind and turbulence conditions at their bases. The intensity and frequency of objectionable winds in pedestrian areas is influenced both by the structure shape and by the shape and position of adjacent structures.

Techniques have been developed for wind-tunnel modeling of proposed structures which allow the prediction of wind pressures on cladding and windows, overall structural loading, and also wind velocities and gusts in pedestrian areas adjacent to the building. Information on sidewalk-level gustiness allows plaza areas to be protected by design changes before the structure is constructed. Accurate knowledge of the intensity and distribution of the pressures on the structure permits adequate but economical selection of cladding strength to meet selected maximum design winds and overall wind loads for the design of the frame for flexural control.

In the Three Lakeway Center complex, the One Lakeway Center and Two Lakeway Center buildings already exist with Three Lakeway Center about to be constructed. The wind-tunnel test reported herein tested all three buildings for wind load in the final configuration and tested pedestrian wind speeds in the current configuration and with the addition of the Three Lakeway building.

Modeling of the aerodynamic loading on a structure requires special consideration of flow conditions in order to guarantee similitude between model and prototype. A detailed discussion of the similarity requirements and their wind-tunnel implementation can be found in references (1), (2), and (3). In general, the requirements are that the model and prototype be geometrically similar, that the approach mean velocity at the building site have a vertical profile shape similar to the full-scale flow, that the turbulence characteristics of the flows be similar, and that the Reynolds number for the model and prototype be equal.

These criteria are satisfied by constructing a scale model of the structure and its surroundings and performing the wind tests in a wind tunnel specifically designed to model atmospheric boundary-layer flows. Reynolds number similarity requires that the quantity $UD/\nu$ be similar for model and prototype. Since $\nu$, the kinematic viscosity of air, is identical for both, Reynolds numbers cannot be made precisely equal with reasonable wind velocities. To accomplish this the air velocity in the wind tunnel would have to be as large as the model scale factor times the prototype wind velocity, a velocity which would introduce unacceptable compressibility effects. However, for sufficiently high Reynolds numbers ($>2\times10^4$) the pressure coefficient at any location on the

structure will be essentially constant for a large range of Reynolds numbers. Typical values encountered are $10^7$-$10^8$ for the full-scale and $10^5$-$10^6$ for the wind-tunnel model. In this range acceptable flow similarity is achieved without precise Reynolds number equality.

## 1.2 The Wind-Tunnel Test

The wind-engineering study is performed on a building or building group modeled at scales ranging from 1:150 to 1:400. The building model is constructed of clear plastic fastened together with screws. The structure is modeled in detail to provide accurate flow patterns in the wind passing over the building surfaces. The building under test is often located in a surrounding where nearby buildings or terrain may provide beneficial shielding or adverse wind loading. To achieve similarity in wind effects the area surrounding the test building is also modeled. A flow visualization study is first made (smoke is used to make the air currents visible) to define overall flow patterns and identify regions where local flow features might cause difficulties in building curtain-wall design or produce pedestrian discomfort.

The test model, equipped with pressure taps (200 to 600 or more), is exposed to an appropriately modeled atmospheric wind in the wind tunnel and the fluctuating pressure at each tap measured electronically. The model, and the modeled area, are rotated 10 or 15 degrees and another set of data recorded for each pressure tap. Normally, 24 or 36 sets of data (360 degrees of turning) are taken; however, when flow visualization or recorded data indicate high pressure regions of small azimuthal extent, data is obtained in smaller azimuthal steps.

Data are recorded, analyzed and processed by an on-line computerized data-acquisition system. Pressure coefficients of several

types are calculated by the computer for each reading on each piezometer tap and are printed in tabular form as computer readout. Using wind data applicable to the building site, representative wind velocities are selected for combination with measured pressures on the building model. Integration of test data with wind data results in prediction of peak local wind pressures for design of glass or cladding and may include overall forces and moments on the structure (by floor if desired) for design of the structural frame. Pressure contours are drawn on the developed building surfaces showing the intensity and distribution of peak wind loads on the building. These results may be used to divide the building into zones where lighter or heavier cladding or glass may be desirable.

Based on the visualization (smoke) tests and on a knowledge of heavy pedestrian use areas, a dozen or more locations may be chosen at the base of the building where wind velocities can be measured to determine the relative comfort or discomfort of pedestrians in plaza areas, near building entrances, near building corners, or on sidewalks. Usually a reference pedestrian position is also tested to determine whether the wind environment in the building area is better or worse than the environment a block or so away in an undisturbed area.

The following pages discuss in greater detail the procedures followed and the equipment and data collecting and processing methods used. In addition, the data presentation format is explained and the implications of the data are discussed.

# 2. EXPERIMENTAL CONFIGURATION

## 2.1 Wind Tunnel

Wind-engineering studies are performed in the Fluid Dynamics and Diffusion Laboratory at Colorado State University (Figure 1). Three large wind tunnels are available for wind loading studies depending on the detailed requirements of the study. The wind tunnel used for this investigation is shown in Figure 2. All tunnels have a flexible roof adjustable in height to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously in each tunnel to the maximum velocity available.

## 2.2 Model

In order to obtain an accurate assessment of local pressures using piezometer taps, models are constructed to the largest scale that does not produce significant blockage in the wind-tunnel test section. The models are constructed of 1/2-in. thick Lucite plastic and fastened together with metal screws. Significant variations in the building surface, such as mullions, are machined into the plastic surface. Piezometer taps (1/16 in. diameter) are drilled normal to the exterior vertical surfaces in rows at several or more elevations between the bottom and top of the building. Similarly, taps are placed in the roof and on any sloping, protruding, or otherwise distinctive features of the building that might need investigation.

Pressure tap locations are chosen so that the entire surface of the building can be investigated for pressure loading and at the same time permit critical examination of areas where experience has shown that maximum wind effects may be expected to occur. Locations of the pressure taps for this study are shown in Figure 3. Dimensions are

given both for full-scale building (in ft) and for model (in in.). The pressure tap numbers are shown adjacent to the taps.

The pressure tests are sometimes made in two stages. In the first stage measurements are made on the initial distribution of pressure taps. If it becomes apparent from the data that the loading on the building is being influenced by some unsuspected geometry of the building or adjacent structures, additional pressure taps are installed in the critical areas. The locations of the taps are selected so that the maximum loading can be detected and the area over which this loading is acting can be defined. Any added taps are also shown in Figure 3.

A circular area 750 to 2000 ft in radius depending on model scale and characteristics of the surrounding buildings and terrain is modeled in detail. Structures within the modeled region are made from styrofoam and cut to the individual building geometries. They are mounted on the turntable in their proper locations. Significant terrain features are included as needed. The model is mounted on a turntable (Figure 2) near the downwind end of the test section. Any buildings or terrain features which do not fit on the turntable are placed on removable pieces which are placed upwind of the turntable for appropriate wind directions. A plan view of the building and its surroundings is shown in Figure 4. The turntable is calibrated to indicate azimuthal orientation to 0.1 degree.

The region upstream from the modeled area is covered with a randomized roughness constructed using various sized cubes placed on the floor of the wind tunnel. Different roughness sizes may be used for different wind directions. Spires are installed at the test-section entrance to provide a thicker boundary layer than would otherwise be

available. The thicker boundary layer permits a somewhat larger scale model than would otherwise be possible. The spires are approximately triangularly shaped pieces of 1/2-in. thick plywood 6 in. wide at the base and 1 in. wide at the top, extending from the floor to the top of the test section. They are placed so that the broad side intercepts the flow. A barrier approximately 8 in. high is placed on the test-section floor downstream of the spires to aid in development of the boundary-layer flow.

The distribution of the roughness cubes and the spires in the roughened area was designed to provide a boundary-layer thickness of approximately 4 ft, a velocity profile power-law exponent similar to that expected to occur in the region approaching the modeled area for each wind direction (a number of wind directions may have the same approach roughness). A photograph of the completed model in the wind tunnel is shown in Figure 5. The wind-tunnel ceiling is adjusted after placement of the model to obtain a zero pressure gradient along the test section.

# 3. INSTRUMENTATION AND DATA ACQUISITION

## 3.1 Flow Visualization

Making the air flow visible in the vicinity of the model is helpful (a) in understanding and interpreting mean and fluctuating pressures, (b) in defining zones of separated flow and reattachment and zones of vortex formation where pressure coefficients may be expected to be high and (c) in indicating areas where pedestrian discomfort may be a problem. Titanium tetrachloride smoke is released from sources on and near the model to make the flow lines visible to the eye and to make it possible to obtain motion picture records of the tests. Conclusions obtained from these smoke studies are discussed in Sections 4.1 and 5.1.

## 3.2 Pressures

Mean and fluctuating pressures are measured at each of the pressure taps on the model structure. Data are obtained for 24 or 36 wind directions, rotating the entire model assembly at a complete circle. Seventy-six pieces of 1/16 in. I.D. plastic tubing are used to connect 76 pressure ports at a time to an 80 tap pressure switch mounted inside the model. The switch was designed and fabricated in the Fluid Dynamics and Diffusion Laboratory to minimize the attenuation of pressure fluctuations across the switch. Each of the 76 measurement ports is directed in turn by the switch to one of four pressure transducers mounted close to the switch. The four pressure input taps not used for transmitting building surface pressures are connected to a common tube leading outside the wind tunnel. This arrangement provides both a means of performing in-place calibration of the transducers and, by connecting this tube to a pitot tube mounted inside the wind tunnel, a means of automatically monitoring the tunnel speed. The switch is operated by

means of a shaft projecting through the floor of the wind tunnel. A computer-controlled stepping motor steps the switch into each of the 20 required positions. The computer keeps track of switch position but a digital readout of position is provided at the wind tunnel.

The pressure transducers used are setra differential transducers (Model 237) with a 0.10 psid range. Reference pressures are obtained by connecting the reference sides of the four transducers, using plastic tubing, to the static side of a pitot-static tube mounted in the wind tunnel free stream above the model building. In this way the transducer measures the instantaneous difference between the local pressures on the surface of the building and the static pressure in the free stream above the model.

Output from the pressure transducers is fed to an on-line data acquisition system consisting of a Hewlett-Packard 21 MX computer, disk unit, card reader, printer, Digi-Data digital tape drive and a Preston Scientific analog-to-digital converter. The data are processed immediately into pressure coefficient form as described in Section 4.3 and stored for printout or further analysis.

All four transducers are recorded simultaneously for 16 seconds at a 250 sample-per-second rate. The results of an experiment to determine the length of record required to obtain stable mean and rms (root-mean-square) pressures and to determine the overall accuracy of the pressure data acquisition system is shown in Figure 6. A typical pressure port record was integrated for a number of different time periods to obtain the data shown. Examination of a large number of pressure taps showed that the overall accuracy for a 16-second period is, in pressure coefficient form, 0.03 for mean pressures, 0.1 for peak pressures, and 0.01 for rms pressures. Pressure coefficients are defined in Section 4.3.

### 3.3 Velocity

Mean velocity and turbulence intensity profiles are measured upstream of the model to determine that an approach boundary-layer flow appropriate to the site has been established. Tests are made at one wind velocity in the tunnel. This velocity is well above that required to produce Reynolds number similarity between the model and the prototype as discussed in Section 1.1.

In addition, mean velocity and turbulence intensity measurements are made 5 to 7 ft (prototype) above the surface at a dozen or more locations on and near the building for 16 wind directions. The measurement locations are shown on Figure 4. The surface measurements are indicative of the wind environment to which a pedestrian at the measurement location would be subjected. The locations are chosen to determine the degree of pedestrian comfort or discomfort at the building corners where relatively severe conditions frequently are found, near building entrances and on adjacent sidewalks where pedestrian traffic traffic is heavy, and in open plaza areas. In most studies a reference pedestrian position, located about a block away, is also tested. These data are helpful in evaluating the degree of pedestrian comfort or discomfort in the proposed plaza area in terms of the undisturbed environment in the immediate vicinity.

Measurements are made with a single hot-wire anemometer mounted with its axis vertical. The instrumentation used is a Thermo Systems constant temperature anemometer (Model 1050) with a 0.001 in. diameter platinum film sensing element 0.020 in. long. Output is directed to the on-line data acquisition system for analysis.

Calibration of the hot-wire anemometer is performed by comparing output with the pitot-static tube in the wind tunnel. The calibration

data are fit to a variable exponent King's Law relationship of the form

$$E^2 = A + BU^n$$

where $E$ is the hot-wire output voltage, $U$ the velocity and $A$, $B$, and $n$ are coefficients selected to fit the data. The above relationship was used to determine the mean velocity at measurement points using the measured mean voltage. The fluctuating velocity in the form $U_{rms}$ (root-mean-square velocity) was obtained from

$$U_{rms} = \frac{2\ E\ E_{rms}}{B\ n\ U^{n-1}}$$

where $E_{rms}$ is the root-mean-square voltage output from the anemometer. For interpretation all turbulence measurements for pedestrian winds were divided by the mean velocity outside the boundary-layer $U_\infty$. Turbulence intensity in velocity profile measurements used the local mean velocity.

# 4. RESULTS

## 4.1 Flow Visualization

A film is included as part of this report showing the characteristics of flow about the structure using smoke to make the flow visible. A listing of the contents of the film is shown in Table 1. Several features can be noted from the visualization. As with all large structures, wind approaching the building is deflected down to the plaza level, up over the structure and around the sides. A description of the smoke test results emphasizing flow patterns of concern relative to possible high-wind load areas and pedestrian comfort is given in Section 5.1.

## 4.2 Velocity

Velocity and turbulence profiles are shown in Figure 7. Profiles were taken upstream from the model which are characteristic of the boundary layer approaching the model and sometimes at the building site with building removed. The boundary-layer thickness, $\delta$, is shown in Figure 7. The corresponding prototype value of $\delta$ for this study is also shown in the figure. This value was established as a reasonable height for this study. The mean velocity profile approaching the modeled area has the form

$$\frac{U}{U_\infty} = \left(\frac{z}{\delta}\right)^n .$$

The exponent $n$ for the approach flow established for this study is shown in Figure 7.

Profiles of longitudinal turbulence intensity in the flow approaching the modeled area are shown in Figure 7. The turbulence intensities are appropriate for the approach mean velocity profile selected. For the velocity profiles, turbulence intensity is defined

as the root-mean-square about the mean of the longitudinal velocity fluctuations divided by the local mean velocity U,

$$Tu = \frac{U_{rms}}{U} .$$

Velocity data obtained at each of the pedestrian measurement locations shown in Figure 4 are listed in Table 2 as mean velocity $U/U_\infty$, turbulence intensity $U_{rms}/U_\infty$, and largest effective gust

$$U_{pk} = \frac{U + 3U_{rms}}{U_\infty} .$$

These data are plotted in polar form in Figure 8. Measurements were taken 5 to 7 ft above the ground surface. An analysis of these wind data is given in Section 5.2.

To enable a quantitative assessment of the wind environment, the wind-tunnel data were combined with wind frequency and direction information obtained at the local airport. Table 3 shows wind frequency by direction and magnitude obtained from summaries published by the National Weather Service. These data, usually obtained at an elevation of about 30-40 ft, were converted to velocities at the reference velocity height for the wind-tunnel measurements and combined with the wind-tunnel data to obtain cumulative probability distributions (percent time a given velocity is exceeded) for wind velocity at each measuring location. The percentage times were summed by wind direction to obtain a percent time exceeded at each measuring position independent of wind direction (but accounting for the fact that the wind blows from different directions with varying frequency). These results are plotted in Figure 9.

Interpretation of Figure 9 is aided by a description of the effects of wind of various magnitudes on people. The earliest quantitative description of wind effects was established by Sir Francis Beaufort in 1806 for use at sea and is still in use today. Several recent investigators have added to the knowledge of wind effects on pedestrians. These investigations along with suggested criteria for acceptance have been summarized by Penwarden and Wise (4) and Melbourne (5). The Beaufort scale (from ref. 4), based on mean velocity only, is reproduced as Table 4 including qualitative descriptions of wind effects. Table 4 suggests that mean wind speeds below 12 mph are of minor concern and that mean speeds above 24 mph are definitely inconvenient. Quantitative criteria for acceptance from reference 5 are superimposed as dashed lines on Figure 9. The peak gust curves shown in Figure 9 are the percent of time during which a short gust of the stated magnitude could occur (say about one of these gusts per hour).

The overall indications of pedestrian wind comfort are best described by Figure 9, in particular the percent time exceeded plots which show the effective gust (mean plus 3*rms). The mean velocity percent time exceeded plots are useful, but may present too severe a comparison to acceptance criteria because of conservative assumptions about anticipated turbulence intensities which were incorporated into the acceptance criteria. Implications of the data plotted in Figure 9 are presented in Section 5.2.

Because some pedestrian wind measuring positions are purposely chosen at sites where the smoke tests showed large velocities of small spacial extent, the general wind environment about the structure may be less severe than one might infer from a strict analysis of Table 2 and Figure 9.

## 4.3 Pressures

For each of the pressure taps examined at each wind direction, the data record is analyzed to obtain four separate pressure coefficients. The first is the mean pressure coefficient

$$C_{p_{mean}} = \frac{(p-p_\infty)_{mean}}{0.5\ \rho\ U_\infty^{\ 2}}$$

where the symbols are as defined in the List of Symbols. It represents the mean of the instantaneous pressure difference between the building pressure tap and the static pressure in the wind tunnel above the building model, nondimensionalized by the dynamic pressure

$$0.5\ \rho\ U_\infty^{\ 2}$$

at the reference velocity position. This relationship produces a dimensionless coefficient which indicates that the mean pressure difference between building and ambient wind at a given point on the structure is some fraction less or some fraction greater than the undisturbed wind dynamic pressure near the upper edge of the boundary layer. Using the measured coefficient, prototype mean pressure values for any wind velocity may be calculated.

The magnitude of the fluctuating pressure is obtained by the rms pressure coefficient

$$C_{p_{rms}} = \frac{\left((p-p_\infty) - (p-p_\infty)_{mean}\right)_{rms}}{0.5\ \rho\ U_\infty^{\ 2}}$$

in which the numerator is the root-mean-square of the instantaneous pressure difference about the mean.

If the pressure fluctuations followed a Gaussian probability distribution, no additional data would be required to predict the

frequency with which any given pressure level would be observed. However, the pressure fluctuations do not, in general, follow a Gaussian probability distribution so that additional information is required to show the extreme values of pressure expected. The peak maximum and peak minimum pressure coefficients are used to determine these values:

$$C_{p_{max}} = \frac{(p-p_\infty)_{max}}{0.5\ \rho\ U_\infty^2}$$

$$C_{p_{min}} = \frac{(p-p_\infty)_{min}}{0.5\ \rho\ U_\infty^2}$$

The values of $p-p_\infty$ which were digitized at 250 samples per second for 16 seconds, representing about one hour of time in the full-scale, are examined individually by the computer to obtain the most positive and most negative values during the 16-second period. These are converted to $C_{p_{max}}$ and $C_{p_{min}}$ by nondimensionalizing with the free stream dynamic pressure.

The four pressure coefficients are calculated by the on-line data acquisition system computer and tabulated along with the approach wind azimuth in degrees from true north. The list of coefficients is included as Appendix A. The pressure tap code numbers used in the appendix are explained in Figure 3.

To determine the largest peak loads acting at any point on the structure for cladding design purposes, the pressure coefficients for all wind directions were searched to obtain, at each pressure tap, the largest peak positive and peak negative pressure coefficients. Table 6 lists the larger values and associated wind directions. Included in Section 5.3 is an analysis of the coefficients of Table 6 including the maximum values obtained and where they occurred on the building.

The pressure coefficients of Table 6 can be converted to full-scale loads by multiplication by a suitable reference pressure selected for the field site. This reference pressure is represented in the equations for pressure coefficients by the $0.5\ \rho\ U_\infty^2$ denominator. This value is the dynamic pressure associated with an hourly mean wind at the reference velocity measurement position at the edge of the boundary layer. In general, the method of arriving at a design reference pressure for a particular site involves selection of a design wind velocity, translation of the velocity to an hourly mean wind at the reference velocity location and conversion to a reference pressure. Selection of the design velocity can be made from statistical analysis of extreme wind data or selected from wind maps contained in the proposed wind loading code ANSI A58.1 of the American National Standards Institute (6). The calculation of reference pressure for this study is shown in Table 5. The factor used in Table 5 to reduce gust winds to hourly mean winds is given in reference (7).

The reference pressure associated with the design hourly mean velocity at the reference velocity location can be used directly with the peak-pressure coefficients to obtain peak local design wind loads for cladding design. Local, instantaneous peak loads on the full-scale building suitable for cladding design were computed by multiplying the reference pressure of Table 5 by the peak coefficients of Table 6 and are listed as peak pressures in that table. The maximum psf loads given at each tap location are the largest peak positive and peak negative values found in the tests. For ease in visualizing the loads on the structure, contours of equal peak pressures for cladding load shown in Table 6 have been plotted on developed elevation views of the structure,

Figure 10. If a data point which is taken in the basic model configuration is retaken in a resolution configuration, the data are averaged in preparing Figure 10. For control of water infiltration from outside to inside, the largest positive (inward acting) pressure at each tap location is tabulated in Table 6.

For glass design pressures, a glass load factor is used to account for the different duration between measured peak pressures and the one minute loading commonly used in glass design charts. The design pressure used for glass is normally less than the peak pressures used for cladding design because of the static fatigue property of glass which can withstand higher pressures for short duration loads than for long duration loads. Recent research (8) indicates that the period of application of the peak pressures reported herein is about 5-10 seconds or less. If a glass design is based on these peak-pressure values, then a glass strength associated with this duration load should be used. Because glass design charts are normally based on some alternate load duration--usually one minute--then some reduction in peak loads should be made. An estimate of a load reduction factor can be obtained from an empirical relation of glass strength as a function of load duration. Current glass selection charts showing glass strength as a function of load duration (9) and older references (10) indicate the following load reduction factors:

| | ref. 9 | ref. 10 |
|---|---|---|
| annealed float | 0.80 | 0.81 |
| heat strengthened | 0.94 | |
| tempered | 0.97 | 0.98 |

Loadings appropriate for glass design can be computed by multiplying the peak-pressure loads of Table 6 by these load factors.

## 4.4 Forces and Moments

Force coefficients in the horizontal X and Y directions and moment coefficients about the X, Y, and Z axes with the origin at ground level at the base of the building with Z axis vertical may be computed for all wind directions tested by integration of mean pressures on the building. Overall forces and moments acting on the full-scale building due to wind loading which are useful in designing the structural framing of the proposed building may be obtained from use of these coefficients.

Force coefficients were computed for each floor for each wind direction using the equations shown below.

$$CF_X = \frac{F_X}{A_R \; 0.5 \; \rho \; U_\infty^2} \qquad CF_Y = \frac{F_Y}{A_R \; 0.5 \; \rho \; U_\infty^2}$$

Terms and symbols used in the equations are defined in the List of Symbols and the axes are defined for the building in Figure 12. Force coefficients $CF_X$ and $CF_Y$ were computed for the horizontal forces acting along the X and Y axes using the mean pressure coefficient at each pressure tap. $A_R$ represents a constant reference area for nondimensionalization of the forces and moments.

The total forces acting on the full-scale building for each floor and wind direction were computed by multiplying the above coefficients by the appropriate full-scale reference area, by the reference pressure of Table 5, and by a gust load factor selected for an appropriate wind gust duration. The gust load factor, shown in Table 5, was selected to increase the loads from an hourly mean load to that of a gust whose duration would be sufficient for its effect to be fully felt by the structure. A table of gust load factors for various gust durations is

incorporated in Table 5 so that force and moment data of Table 7 may be adjusted to a different load duration if desired.

The forces obtained at each floor were used to obtain load, shear, and moment diagrams for the building for each wind direction. The shear diagram, in kips, was obtained by algebraic sum of all forces in each coordinate direction acting above the floor of interest. The load diagram, in psf, was obtained by dividing the shear values by their contributing areas (listed in Table 7). The moment diagram, in 1000 ft-kips, was obtained by integration of the shear values so that the moment due to forces acting above the floor level of interest was calculated. The sign of the moment was established by the right-hand rule about an X', Y' axis through the floor of interest. Moments about the Z axis were calculated by considering the displacement of forces in the X and Y directions from the Z axis shown in Figure 12. Eccentricities were computed such that the product of the Y force and X eccentricity minus the product of the X force and Y eccentricity equaled the Z moment. Load, shear, and moment diagrams are shown in Figure 13 for several wind directions.

# 5. DISCUSSION

## 5.1 Flow Visualization

Flow patterns identified with smoke showed that largest pressures would most likely be found near corners of the tower. These pressures are due to flow separation and vortex formation phenomena. Flow separation occurs when the wind is unable to turn a sharp corner on the building and separates from the surface. Elevated negative (outward acting) pressures are often found under the separated flow near the point of separation. High velocity and large curvature in the separated flow contribute to the local elevated pressures. Flow visualization showed high velocity flow separation at the building corners of both the towers and low-rise structures. Elevated pressures may thus be found anywhere along complex corners.

Vortex formation can occur when flow separation occurs at a building corner where the separated flow can take on a three-dimensional character. The separated wind flow can sometimes roll up into a tornado-like shape called a vortex at these locations. Very high negative pressures can often be found on the building surface under a vortex flow. Vortices were observed at the point where the tower corners on Three Lakeway Center (3LC) intersected the low-rise roof, at low-rise corners of 3LC near the stairwells, and at other three-dimensional corners of the project.

Winds in pedestrian areas at ground level were largest near corners of the new and existing towers. These winds were due to the downward deflection of higher velocity winds from near the tops of the towers. Wind speeds in the covered entry areas at the base of the new tower were low. The 3LC building appeared to increase winds only in areas near the

tower base. Winds on the 3LC low-rise roof were quite strong near corners of the tower.

5.2 Pedestrian Winds

Figure 4 shows the 29 locations selected for investigation of pedestrian wind comfort. Locations 1-16, 19, 20, 24 and 26 were measured without the 3LC building in place. All 29 locations were measured with the 3LC in place. Location 29 was positioned under a building overhang. Locations 15 and 20 were located on top of a garage deck.

Table 2 and Figure 8 show that the large mean velocities (as a percentage of the mean velocity $U_\infty$ at a height of 900 ft) were measured at several locations both with and without 3LC in place. Values above 70 percent of $U_\infty$ are quite large. These velocities can be compared to 40 to 45 percent which might be found in an open-country environment. The largest gust velocities, represented by the mean plus 3 rms as discussed in Section 4.2, were 130 to 150 percent of $U_\infty$. Values above about 120 percent are rather large in comparison to values of 80 to 90 percent in an open-country environment.

Velocity data of Table 2 integrated with local wind data listed in Table 3 are shown in Figure 9. As pointed out in Section 4.2, the most important comparison with acceptance criteria is in the gust graph on the right in each page. Based on the data of this figure, the windiest pedestrian locations for gust winds should be 22 on the 3LC low-rise roof which exceeds the acceptable limit about three percent of the time. Gust winds for all other locations were within the acceptable level. Addition of 3LC caused gust wind speeds to decrease at locations 3, 6, 7, 9 and 11 in the current complex, to remain at about the same level at

locations 1, 2, 4, 5 and 8 in the current complex, to increase at locations 10, 15 (small increase), 12, 13, 14 (significant increase) in the current complex, and to increase at locations 16, 19, 24 and 26 about the 3LC building. The increases at locations 12, 13 and 14 brought fairly low winds up to levels typically seen at other project locations. Winds about the 3LC will be larger than existed on the flat land there before construction, but will not be significantly different from those in the existing Lakeway complex.

The overall conclusions obtained from the pedestrian wind analysis are that Three Lakeway Center 1) will decrease wind speeds in some areas of the existing complex, particularly between One and Two Lakeway Center; 2) will increase winds significantly only at locations 12, 13 and 14, which will become about as windy as other locations in the existing complex; and 3) will not induce winds about its base to levels significantly higher than those currently existing about One and Two Lakeway Center.

5.3 Wind Loads

Table 6 shows the largest peak pressure coefficients and corresponding loads measured on the building complex for each pressure tap location. Data configurations are identified in Table 1. Data identified as Configuration A in Table 6 and Appendix A represent data obtained at all pressure tap locations on all three Lakeway Center buildings for 36 wind directions. Configuration B represents data obtained at selected taps at 2-degree azimuthal increments near azimuths where large pressure peaks were observed in Configuration A to ensure that the largest peaks were obtained. Configuration D measured limited data on 3LC on taps added after the initial data was obtained.

The largest peak pressure obtained on the 3LC tower was -142 psf at tap 3681 on a corner of the low-rise. This location was observed in flow visualization to have a vortex present which might be expected to cause elevated pressures. The largest peak pressures on the One and Two Lakeway buildings were -96 and -118 psf respectively.

Figure 10 shows the distribution of peak negative and peak positive pressures over the surface of the Lakeway Center complex. Most of the area of the three buildings had peak negative pressures less than -60 psf with higher pressures restricted to limited areas. Typical peak positive pressures were less than +30 psf.

The wind pressures shown in Table 6 and Figure 10 represent external pressures. Internal pressures on buildings are controlled by the air handling system in combination with infiltration through the curtainwall and any openings in the curtainwall associated with operable doors or windows which are left open during a wind storm. Figure 11 shows pressure zones which are rectangular pressure areas which account for both internal and external pressures. Internal pressures were assumed to be controlled primarily by infiltration and the air handling system. Values of ±5 psf were allotted for internal pressures.

Figure 13 shows frame pressure, shear and moment distributions plotted from Table 7 for the largest base shears in the x and y coordinate directions on each tower. The coordinate systems are shown in Figure 12. For wind direction 190 where the x shear reached its maximum, the y shear remained at a similar magnitude. As shown on the summary page of Table 7, the torsional moments were moderate but tended to be largest simultaneously with large base shears.

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4. Penwarden, A. D., and Wise, A. F. E., "Wind Environment Around Buildings," Building Research Establishment Report, HMSO, 1975.

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8. Peterka, J. A., and Cermak, J. E., "Peak-Pressure Duration in Separated Regions on a Structure," U.S.-Japan Research Seminar on Wind Effects on Structures, Kyoto, Japan, 9-13 September 1974; Report CEP74-75JAP-JEC8, Fluid Mechanics Program, Colorado State University, September 1974.

9. PPG Glass Thickness Recommendations to Meet Architects' Specified 1-Minute Wind Load, Pittsburgh Plate Glass Industries, April 1979.

10. Shand, E. B., "Glass Engineering Handbook," Second Edition, McGraw-Hill, New York, P. 51, 1958.

# FIGURES

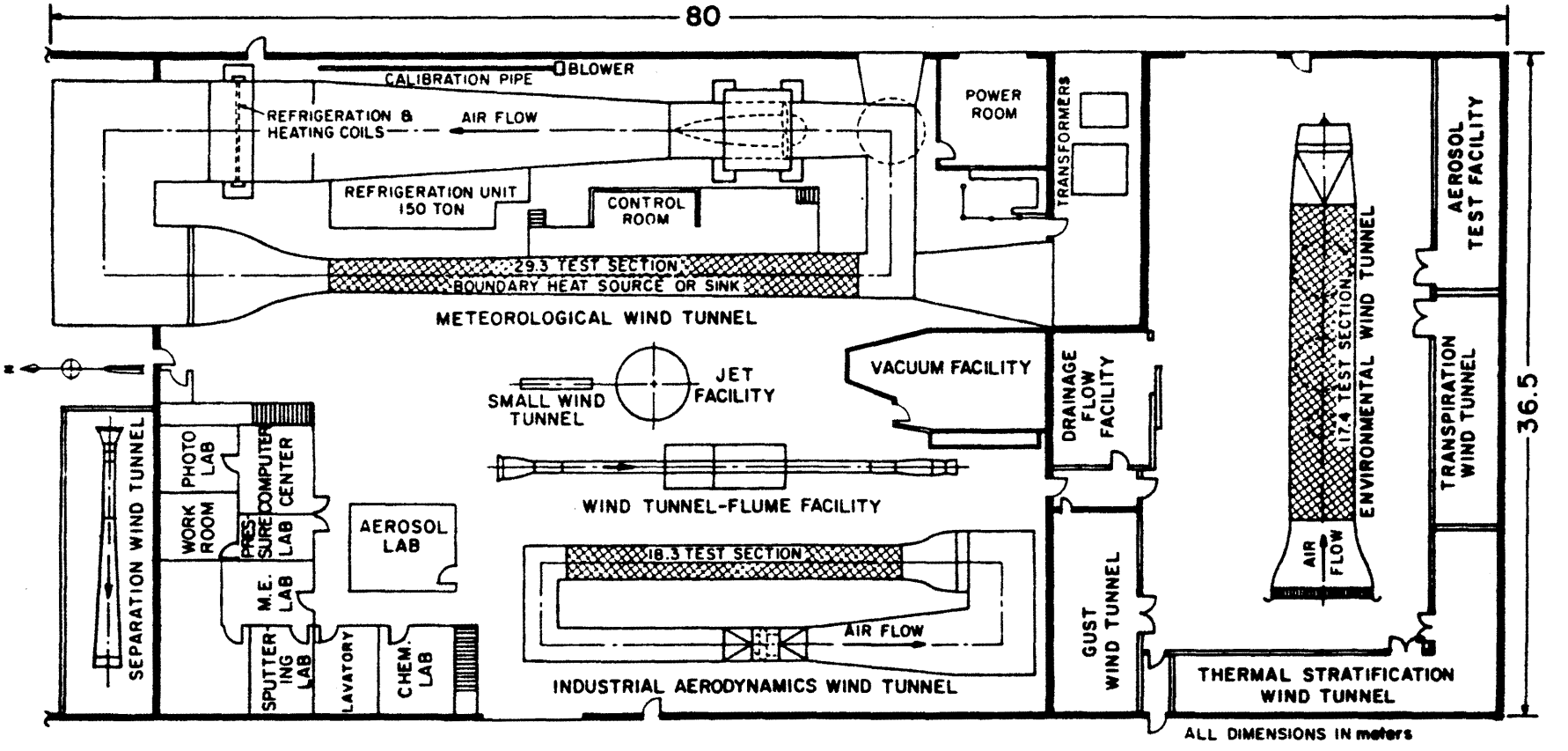
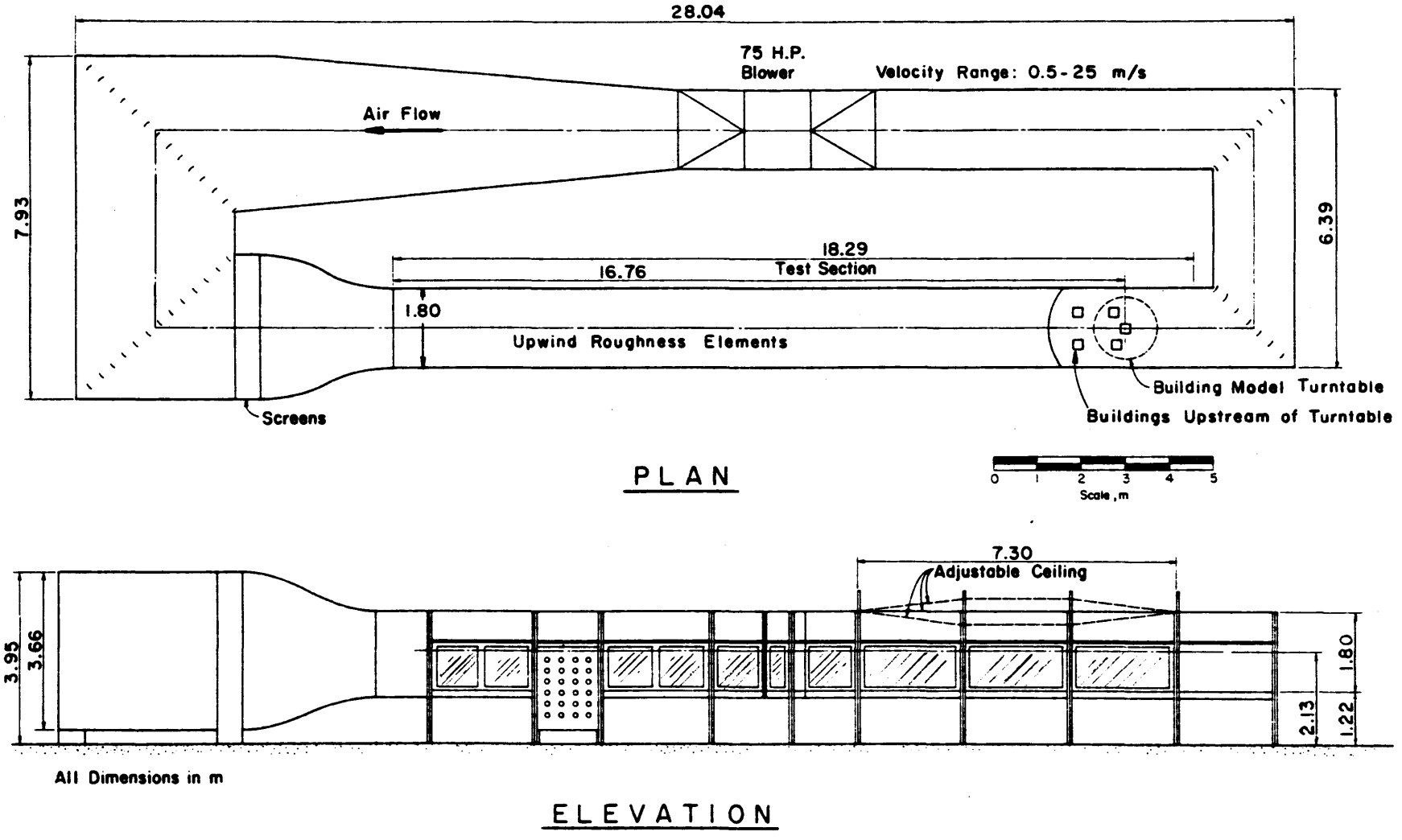



Figure 1. **FLUID DYNAMICS AND DIFFUSION LABORATORY COLORADO STATE UNIVERSITY**




INDUSTRIAL AERODYNAMICS WIND TUNNEL

**Figure 2. Wind-Tunnel Configuration**

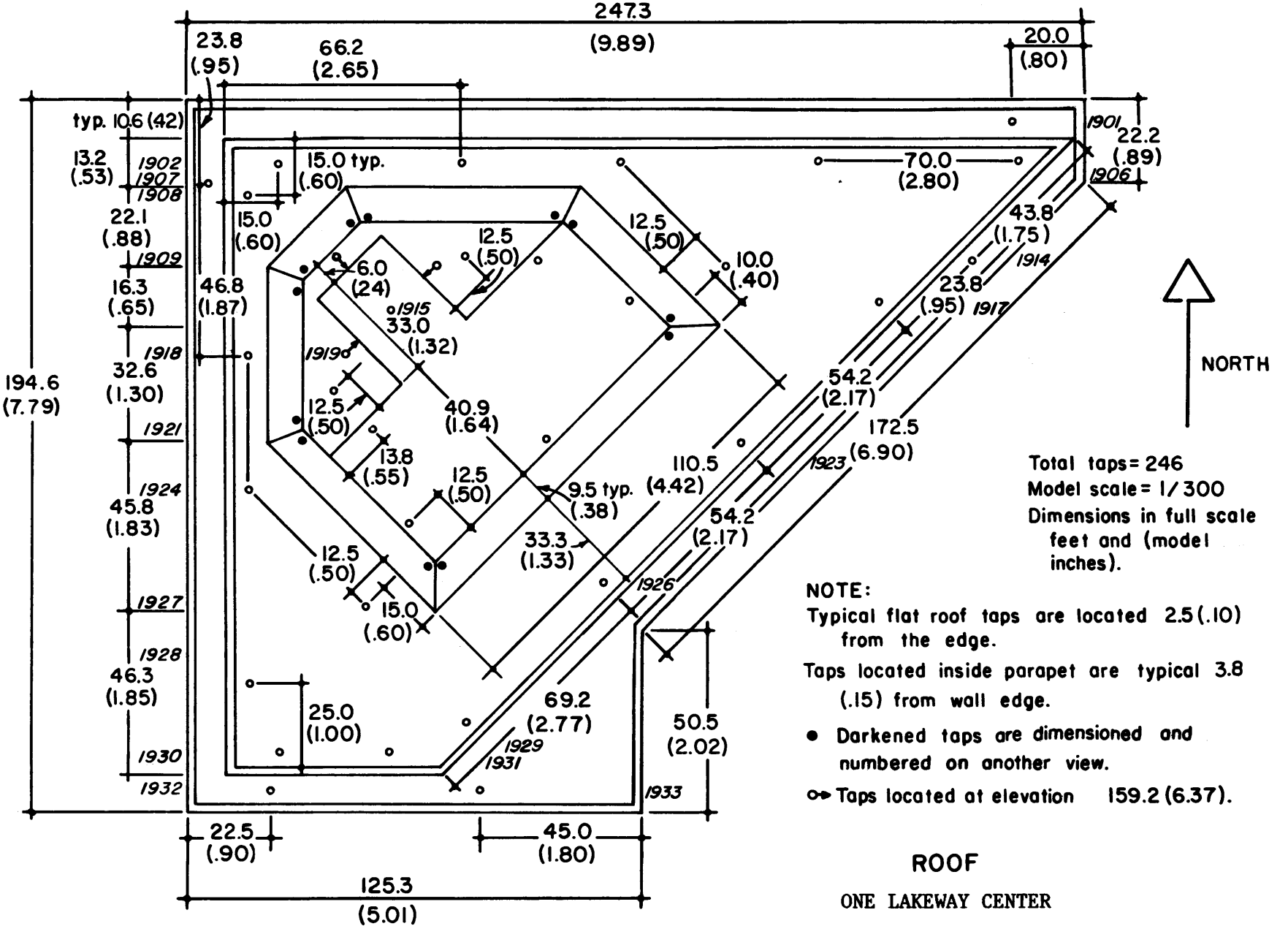
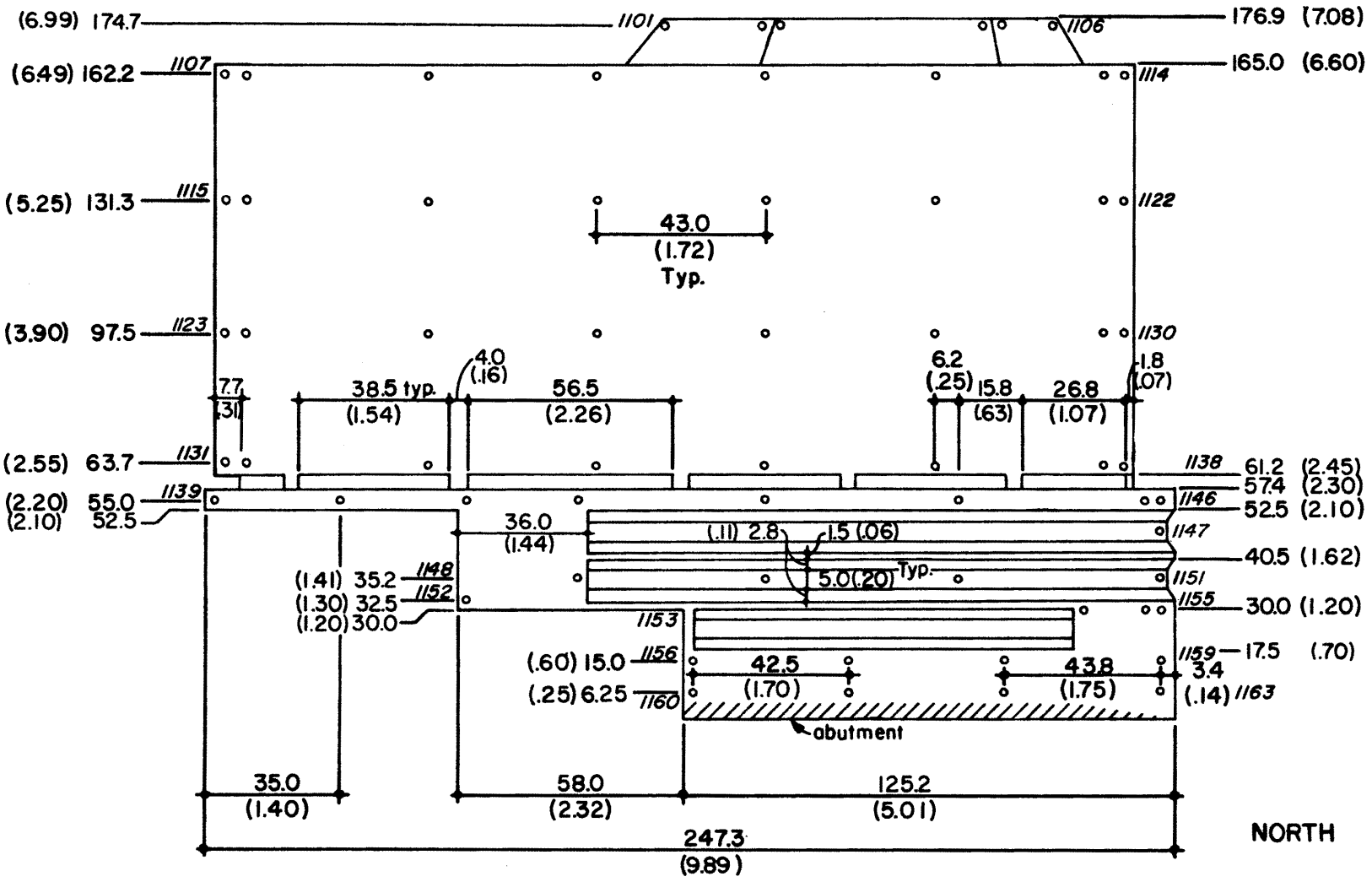



Figure 3a. Pressure Tap Locations

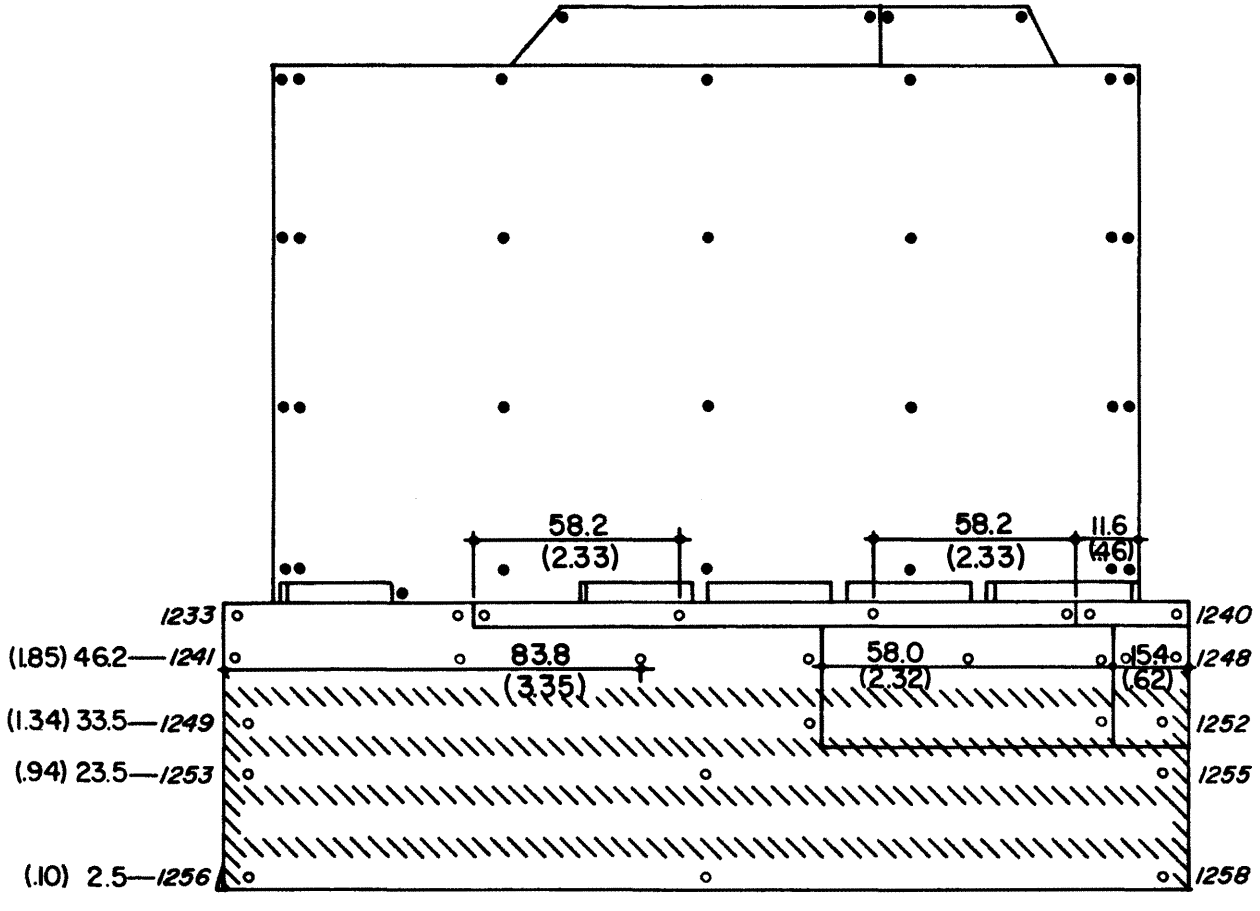
NOTE: Taps are located 2.5 (.10) or 7.5 (.30) from the edge or on the centerline of the surface unless noted.




ONE LAKEWAY CENTER

Figure 3b. Pressure Tap Locations

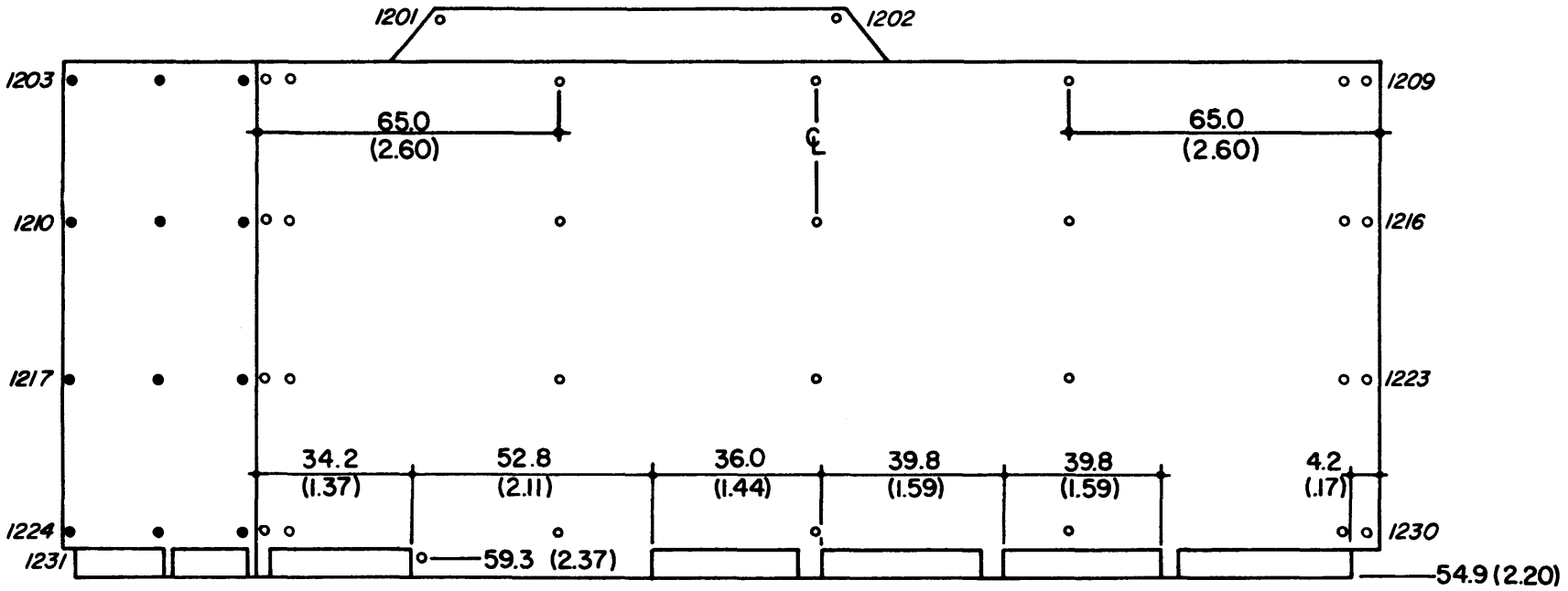
Note: Darkened taps are dimensioned and numbered on another view.




**EAST**

ONE LAKEWAY CENTER

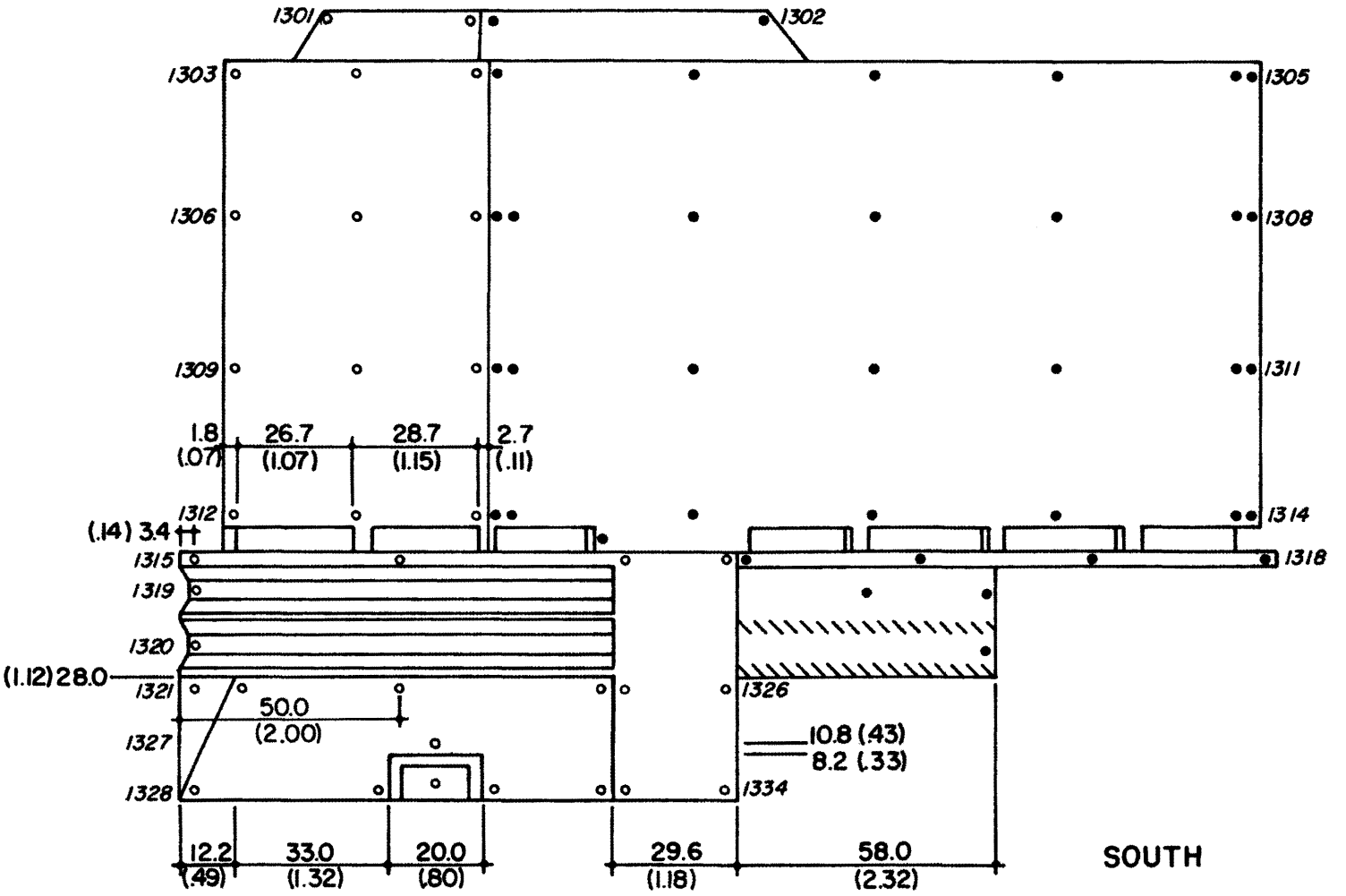
Figure 3c. Pressure Tap Locations




SOUTHEAST

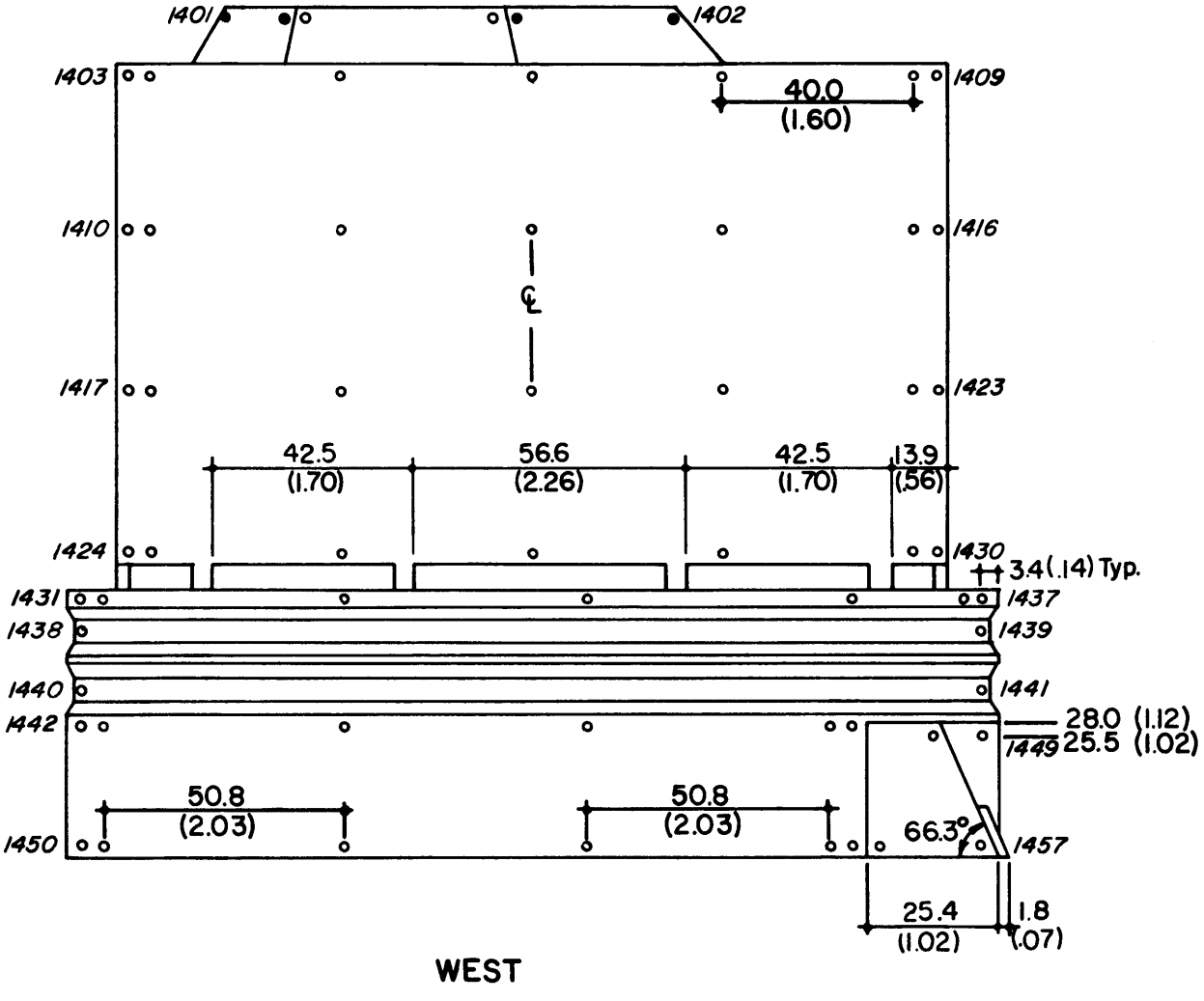
ONE LAKEWAY CENTER

Figure 3d. Pressure Tap Locations



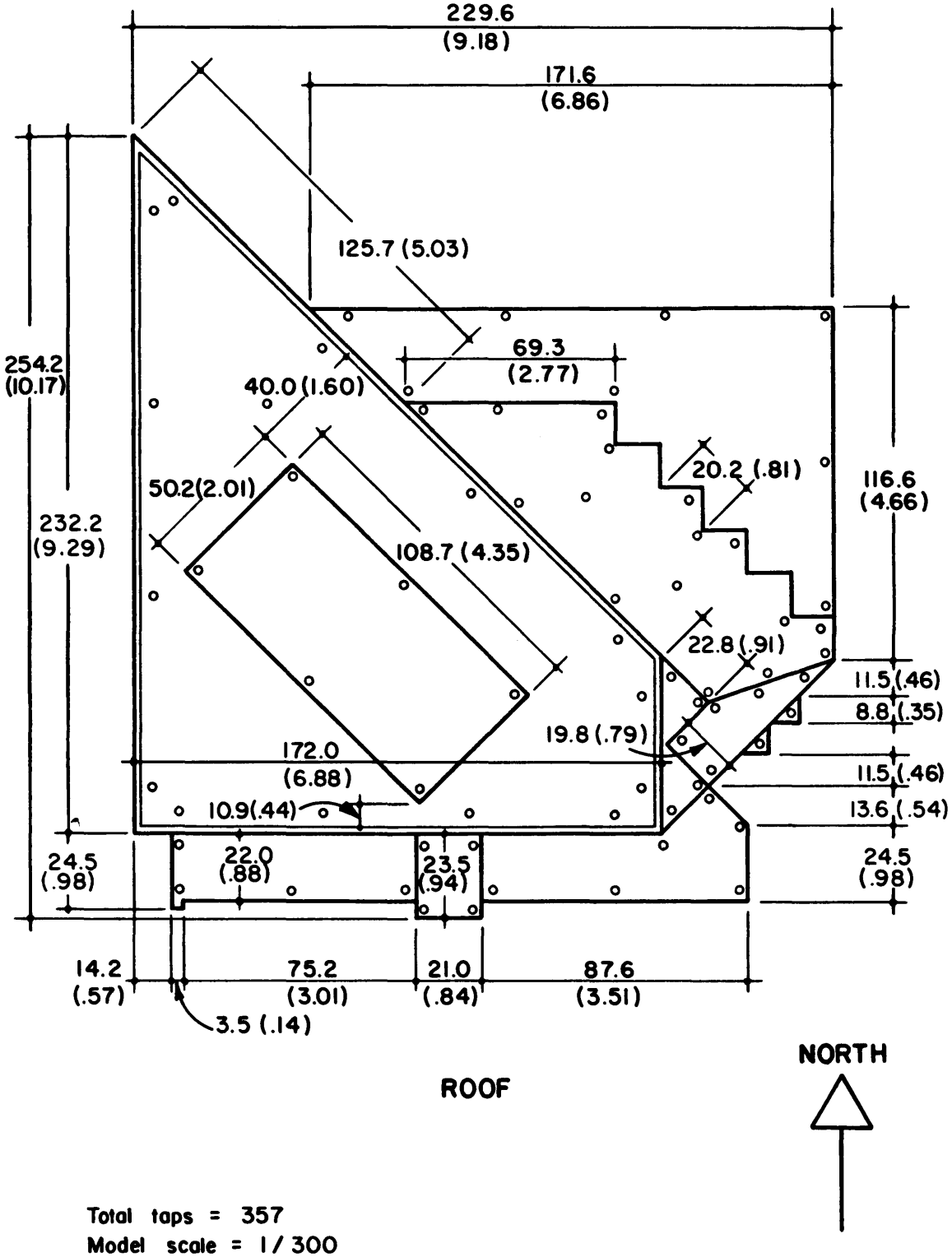

ONE LAKEWAY CENTER

Figure 3e. Pressure Tap Locations




ONE LAKEWAY CENTER

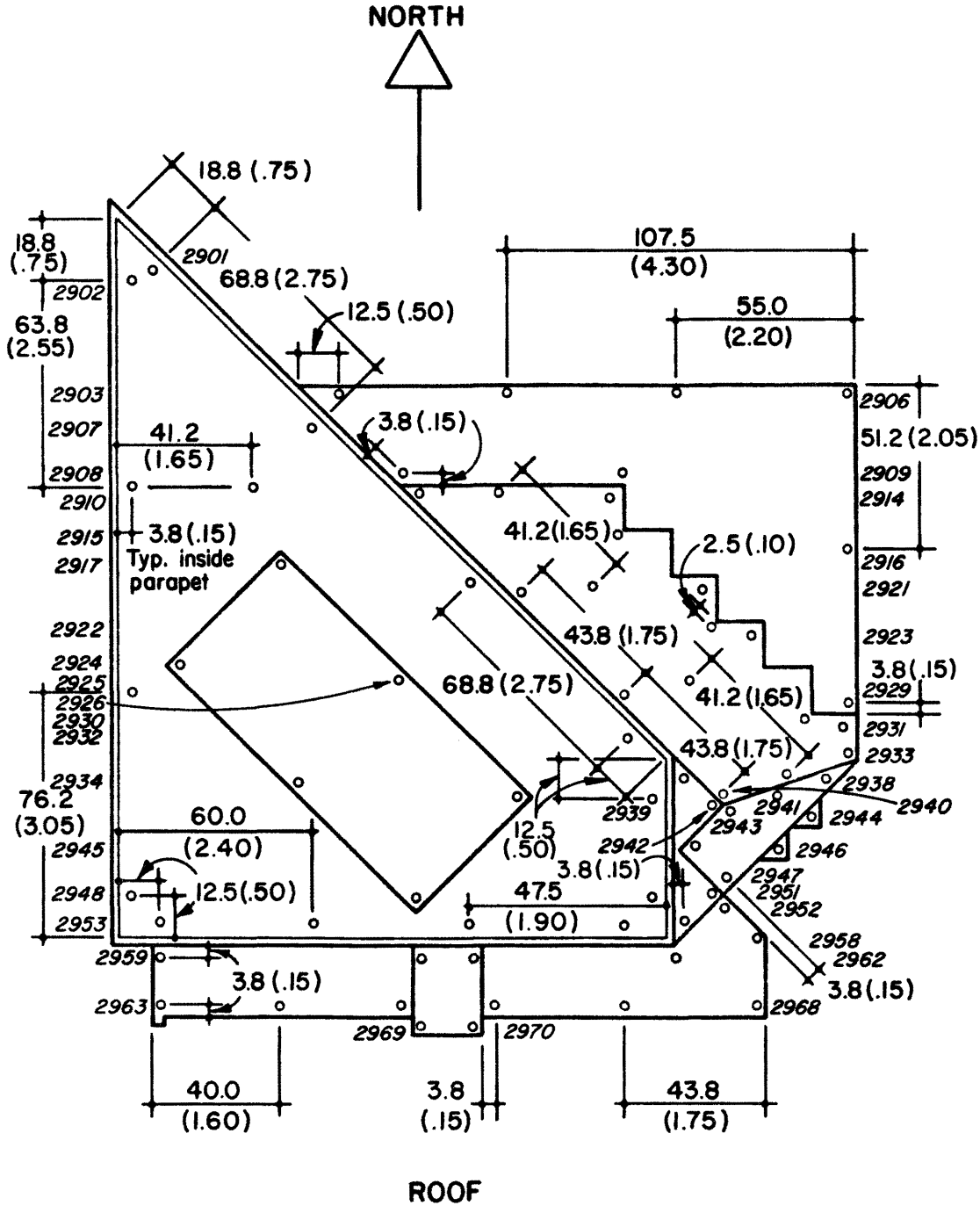
Figure 3f. Pressure Tap Locations




Total taps = 357
Model scale = 1/300
Dimensions are in full scale feet and (model inches).

TWO LAKEWAY CENTER

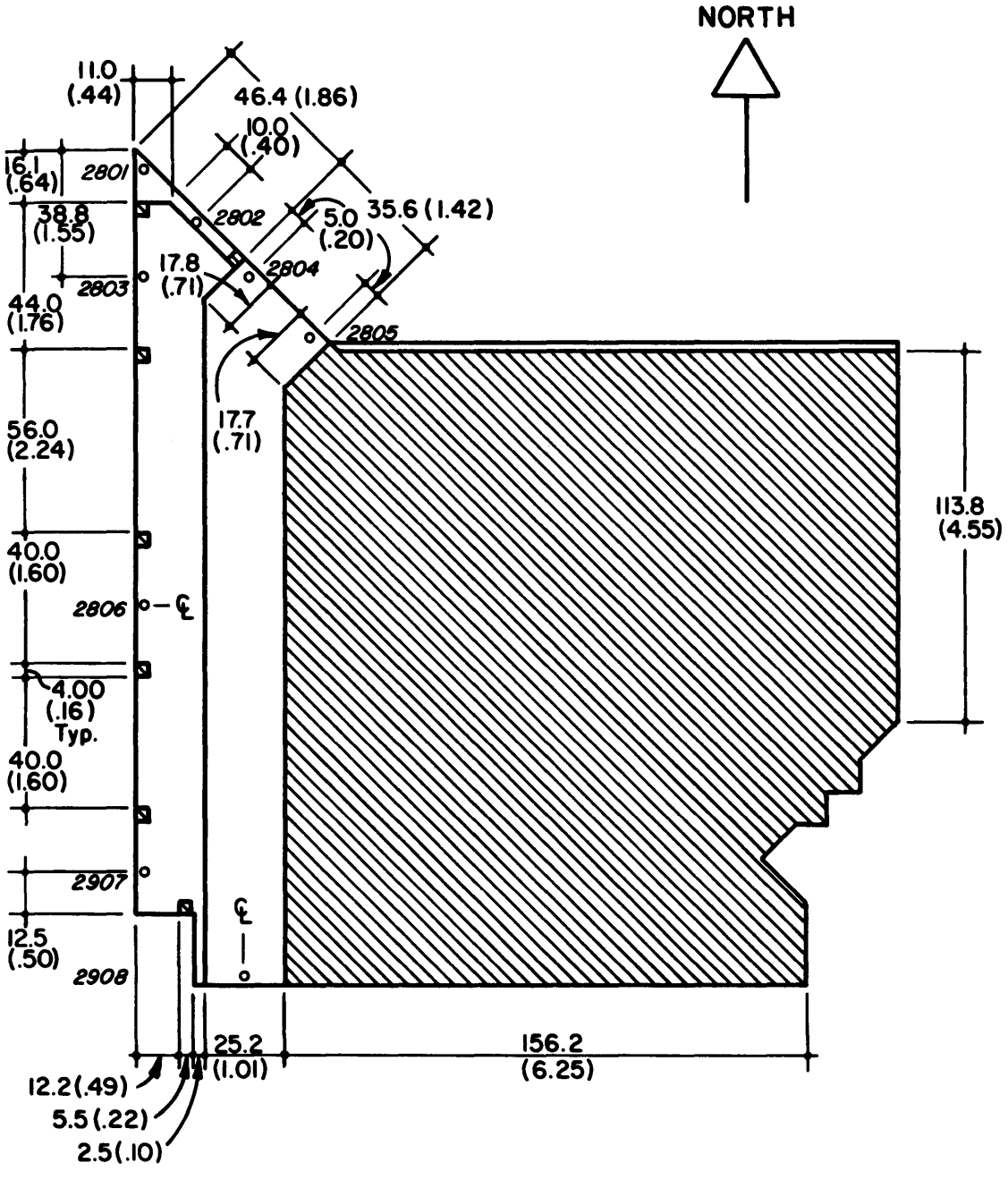
Figure 3g. Pressure Tap Locations




Note :
Parapet is 2.5 (.10) wide.
Taps are 2.5 (.10) from edges or on centerline of surface unless noted.

TWO LAKEWAY CENTER

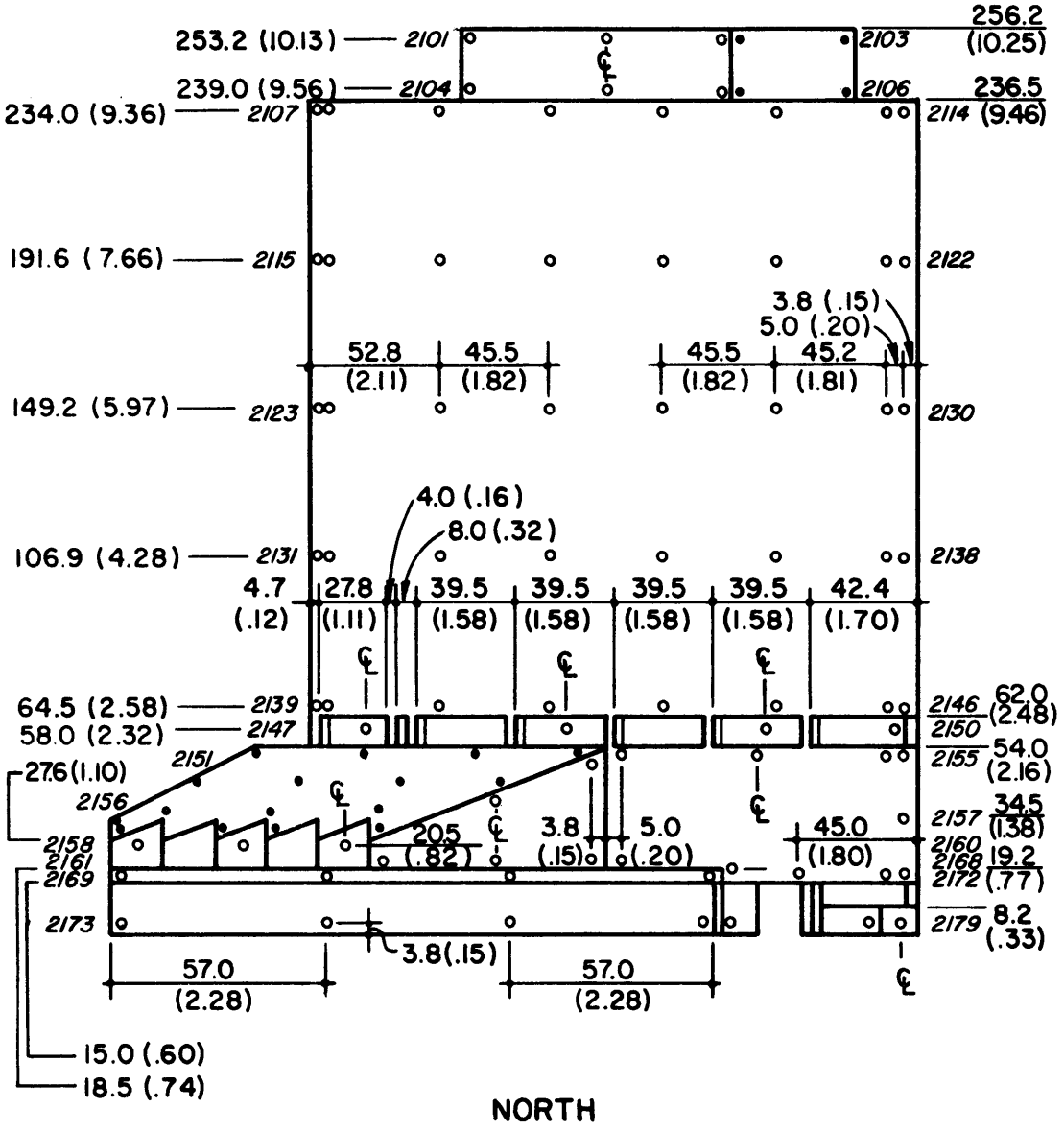
Figure 3h. Pressure Tap Locations




SOFFIT

TWO LAKEWAY CENTER

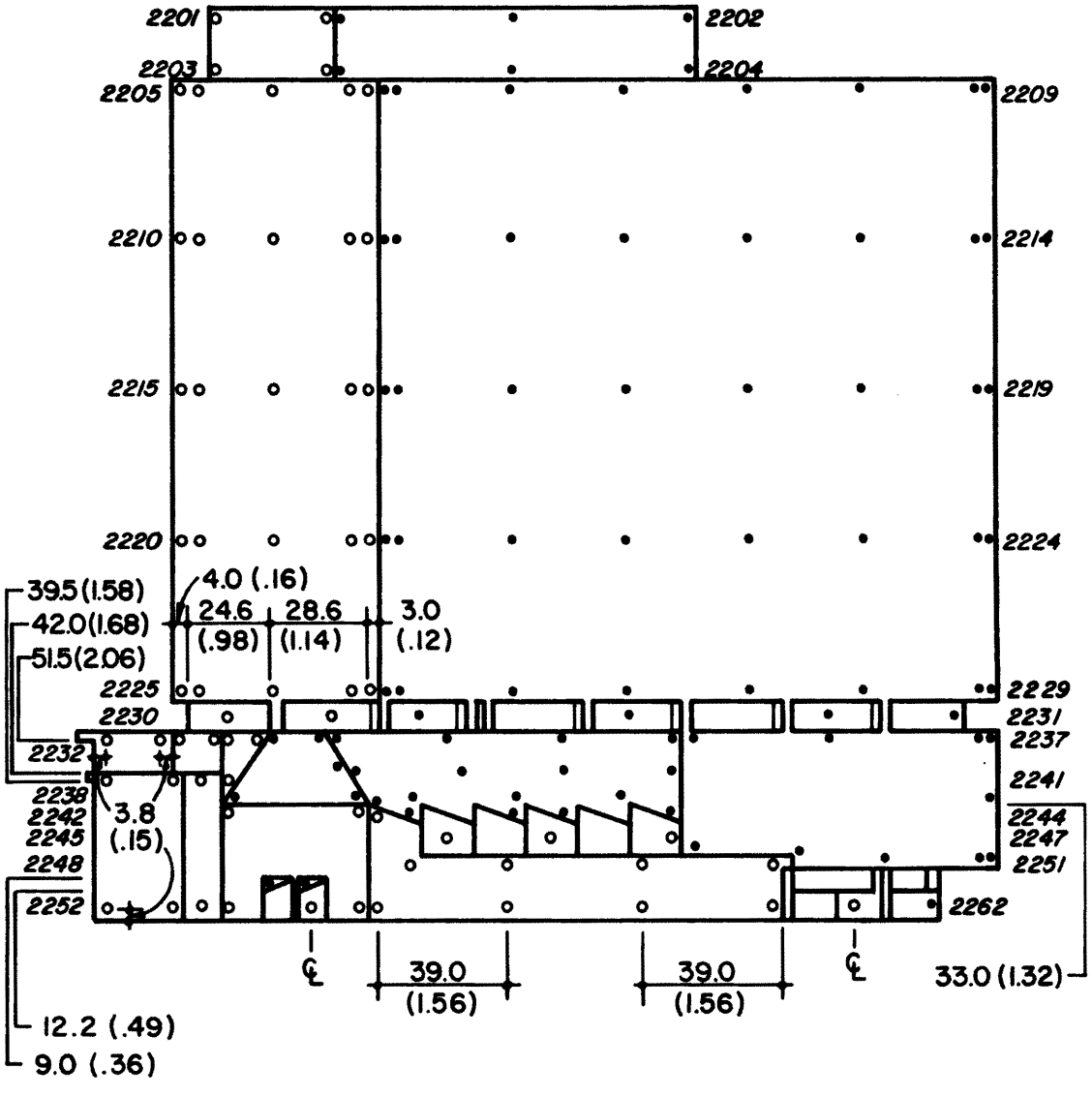
Figure 3i. Pressure Tap Locations




Note :
All dimensions are true length.
Darkened taps are identified and located in another view.
Taps are located 2.5 (.10) or 7.5 (.30) from edges
or on the centerline of the surface unless noted.

TWO LAKEWAY CENTER

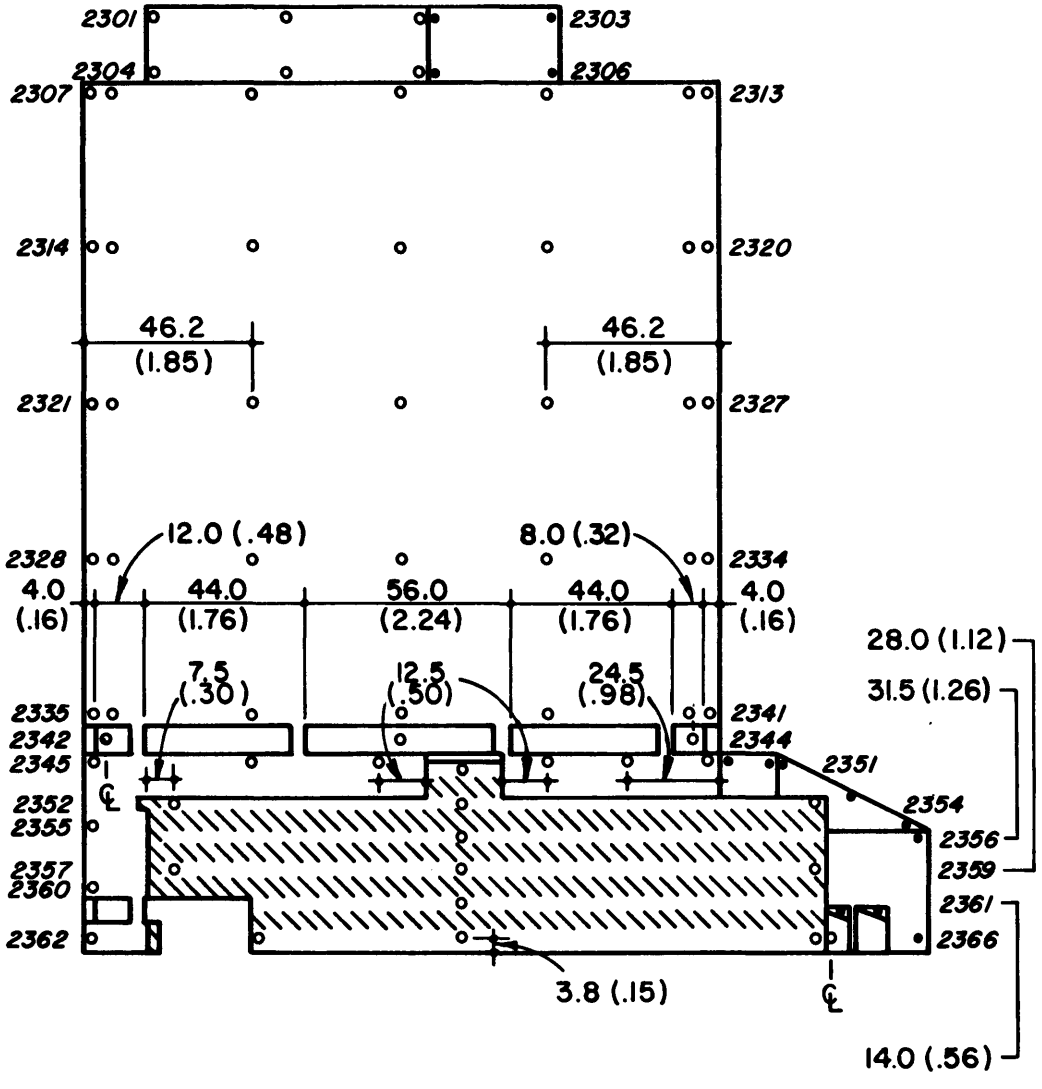
Figure 3j. Pressure Tap Locations




EAST

TWO LAKEWAY CENTER

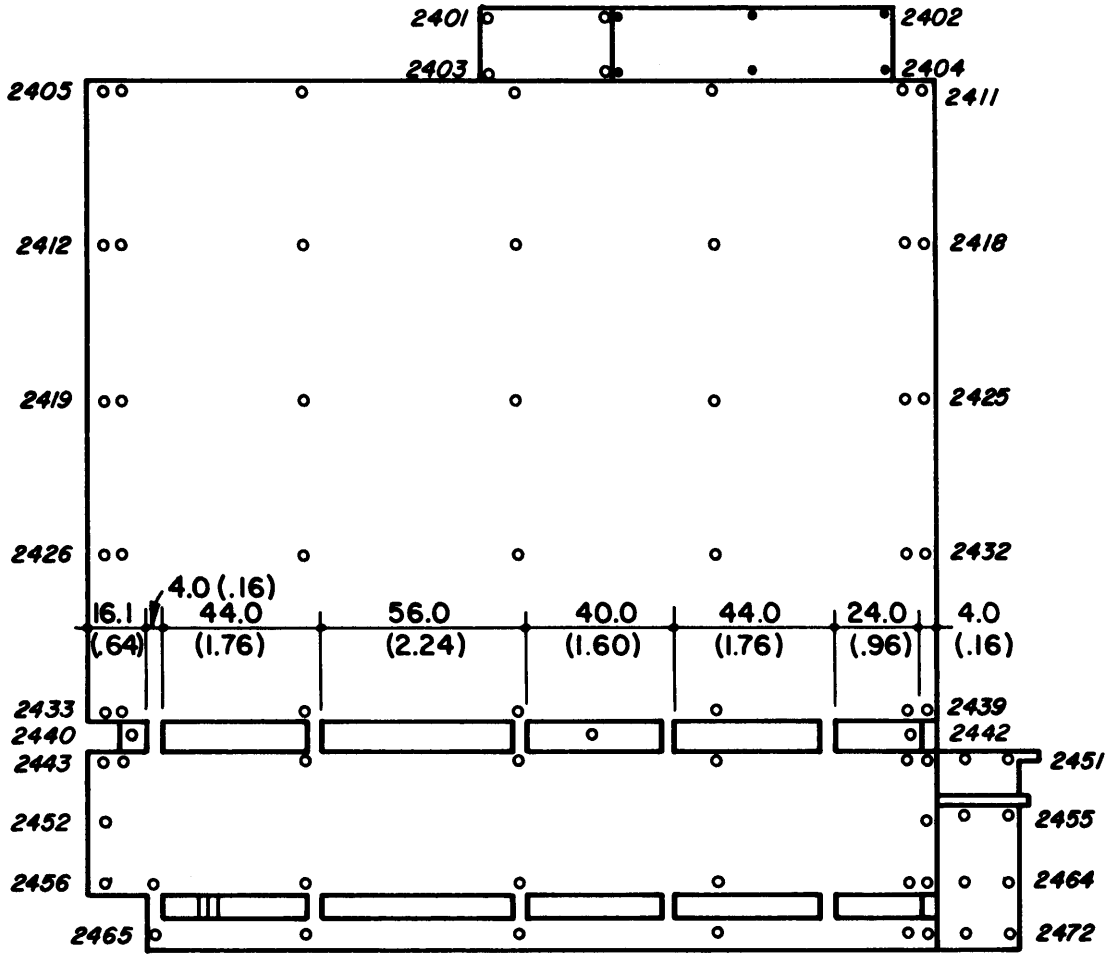
Figure 3k. Pressure Tap Locations




SOUTH

TWO LAKEWAY CENTER

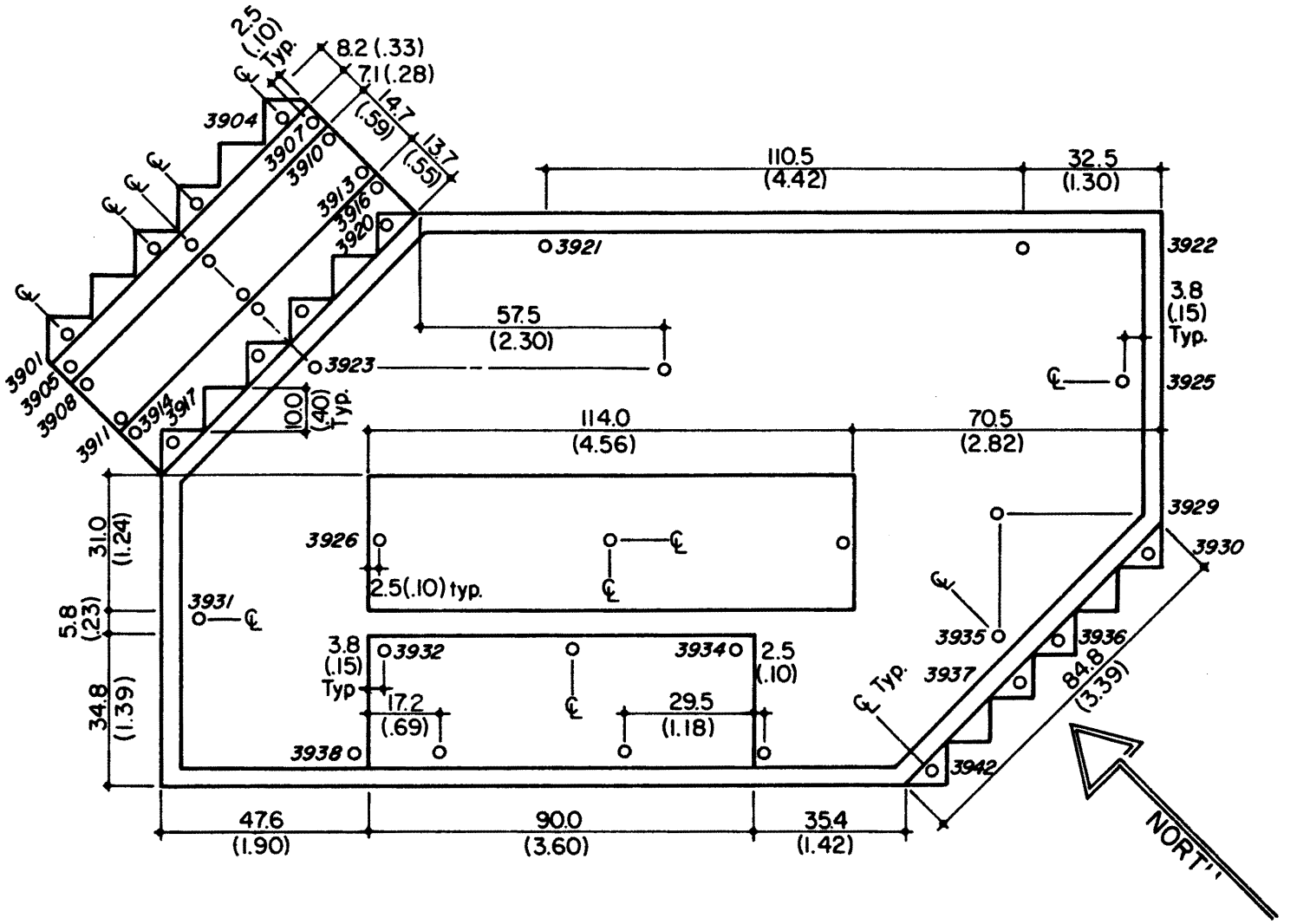
Figure 3ℓ. Pressure Tap Locations




WEST

TWO LAKEWAY CENTER

Figure 3m. Pressure Tap Locations



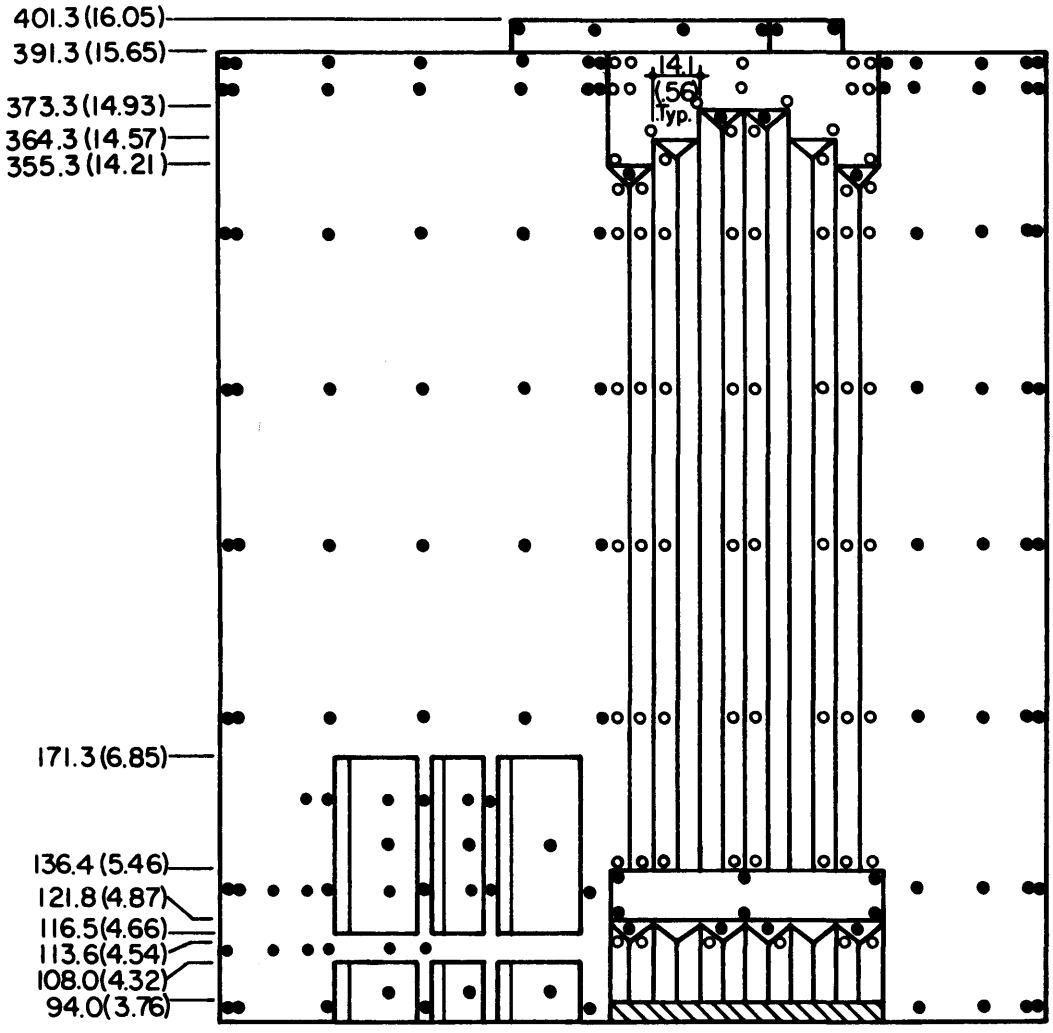

Total Taps = 569
Model scale = 1/300
Dimensions in full scale feet and (model inches)

TOWER ROOF

Note : Angles are 45°

THREE LAKEWAY CENTER

Figure 3n. Pressure Tap Locations

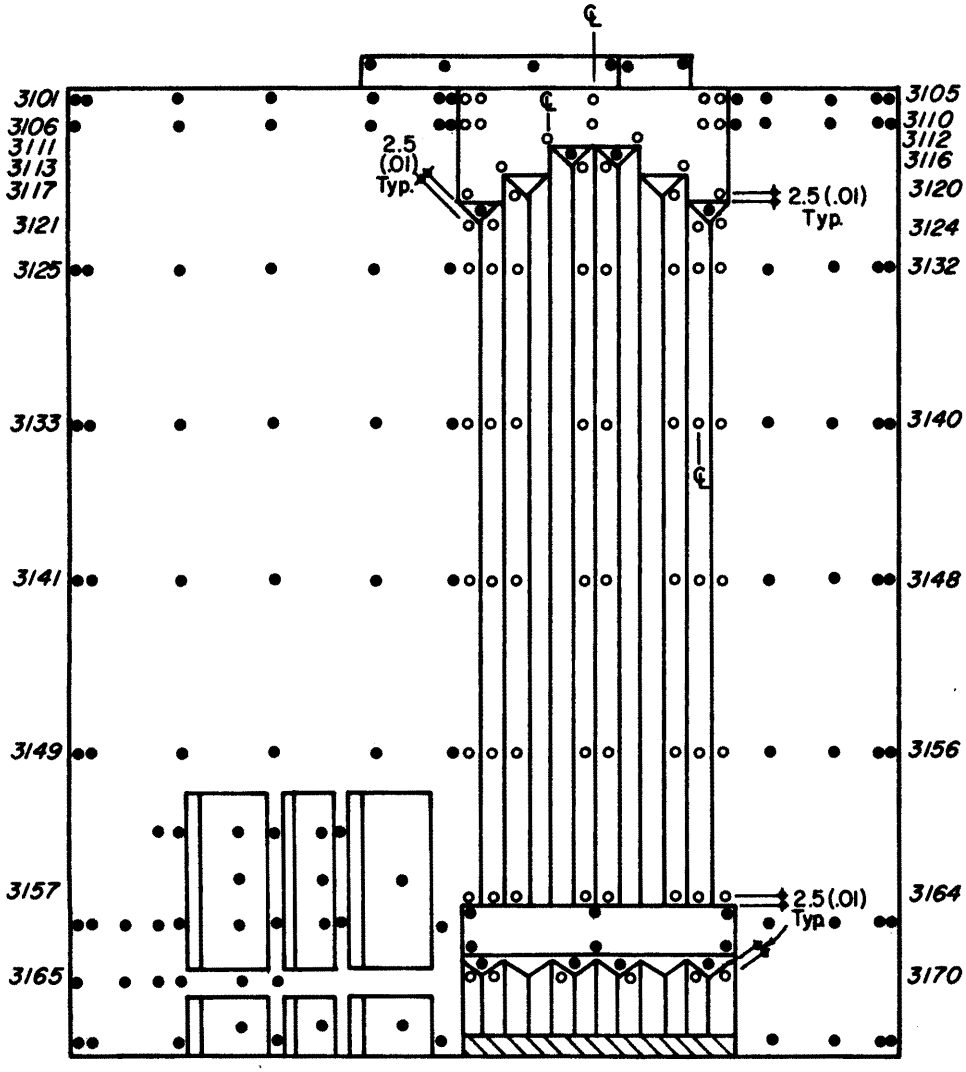



NORTH TOWER

Note: All taps are located 2.5(.10) or 7.5 (.30) from nearest edge or on the centerline of the surface unless noted.

THREE LAKEWAY CENTER

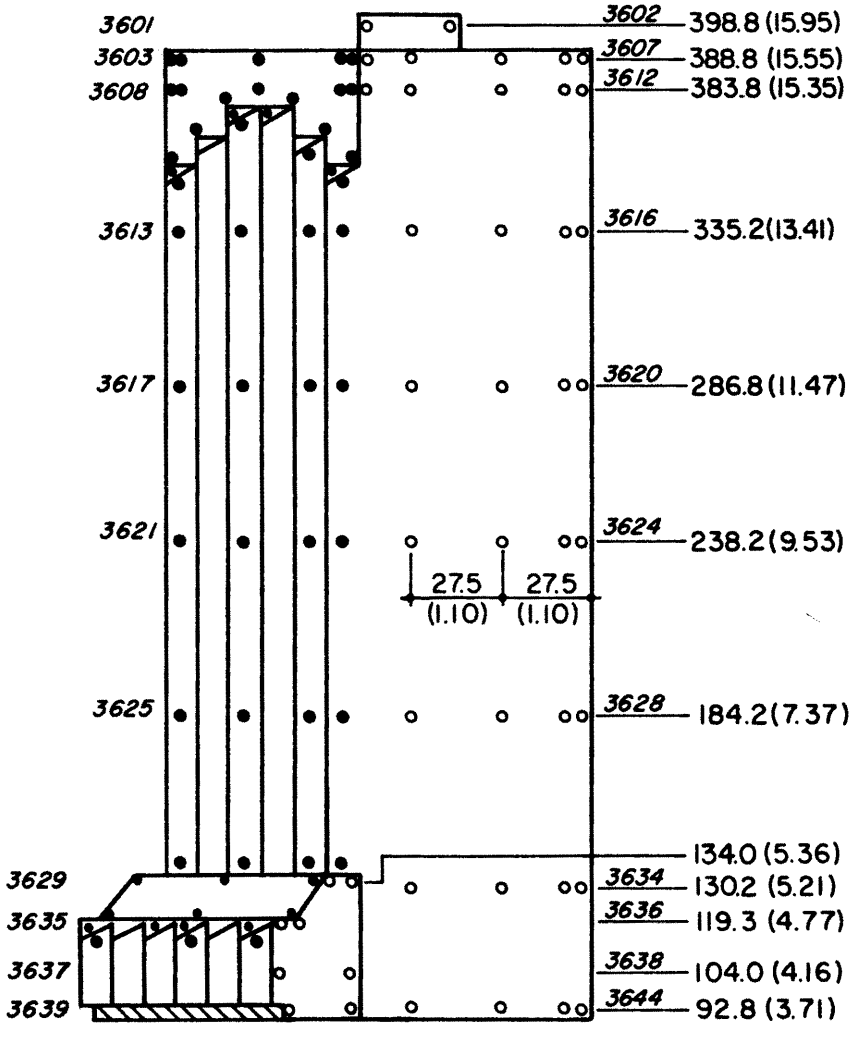
Figure 3o. Pressure Tap Locations




NORTH TOWER

THREE LAKEWAY CENTER

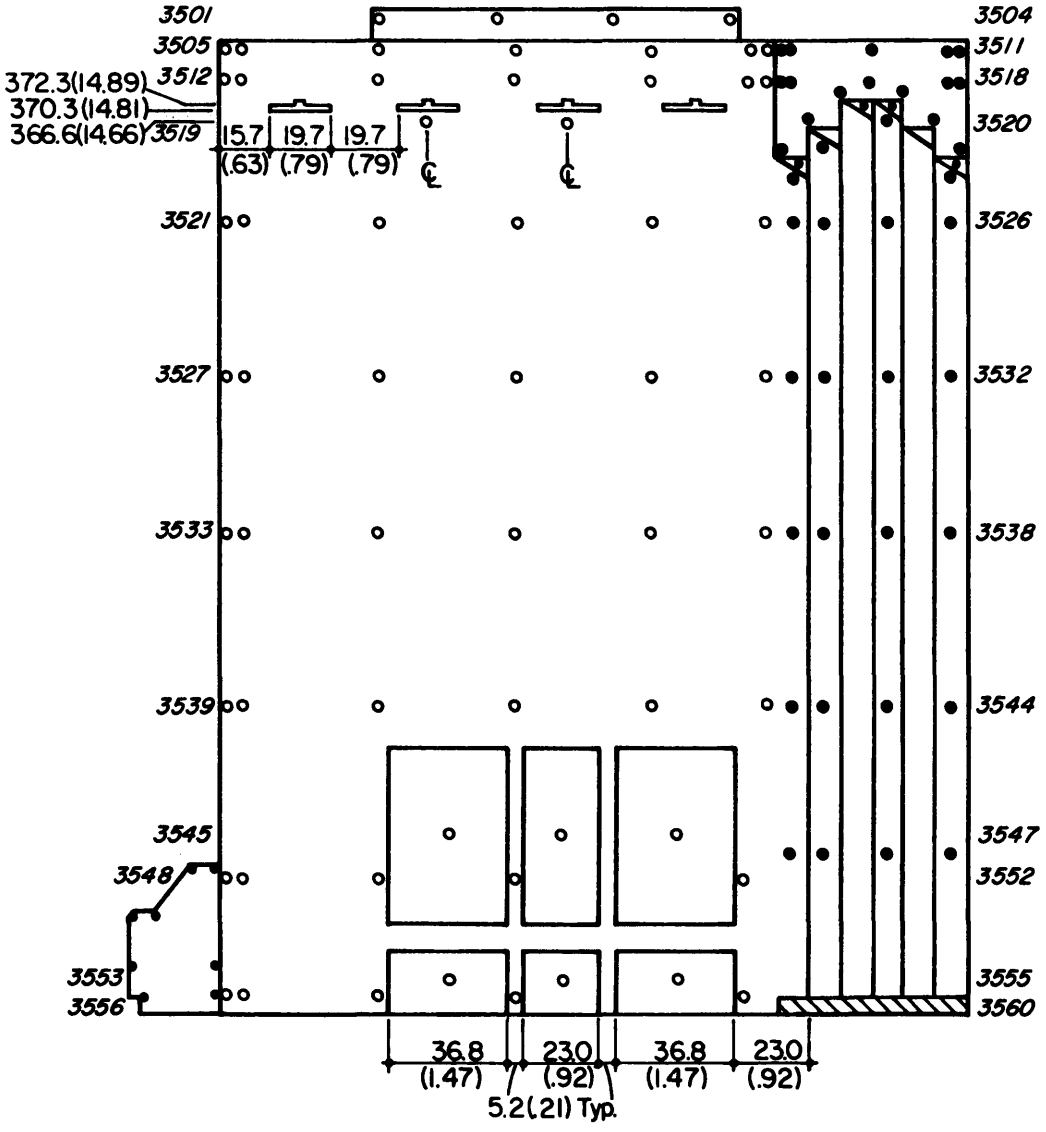
Figure 3p. Pressure Tap Locations




NORTHWEST TOWER

THREE LAKEWAY CENTER

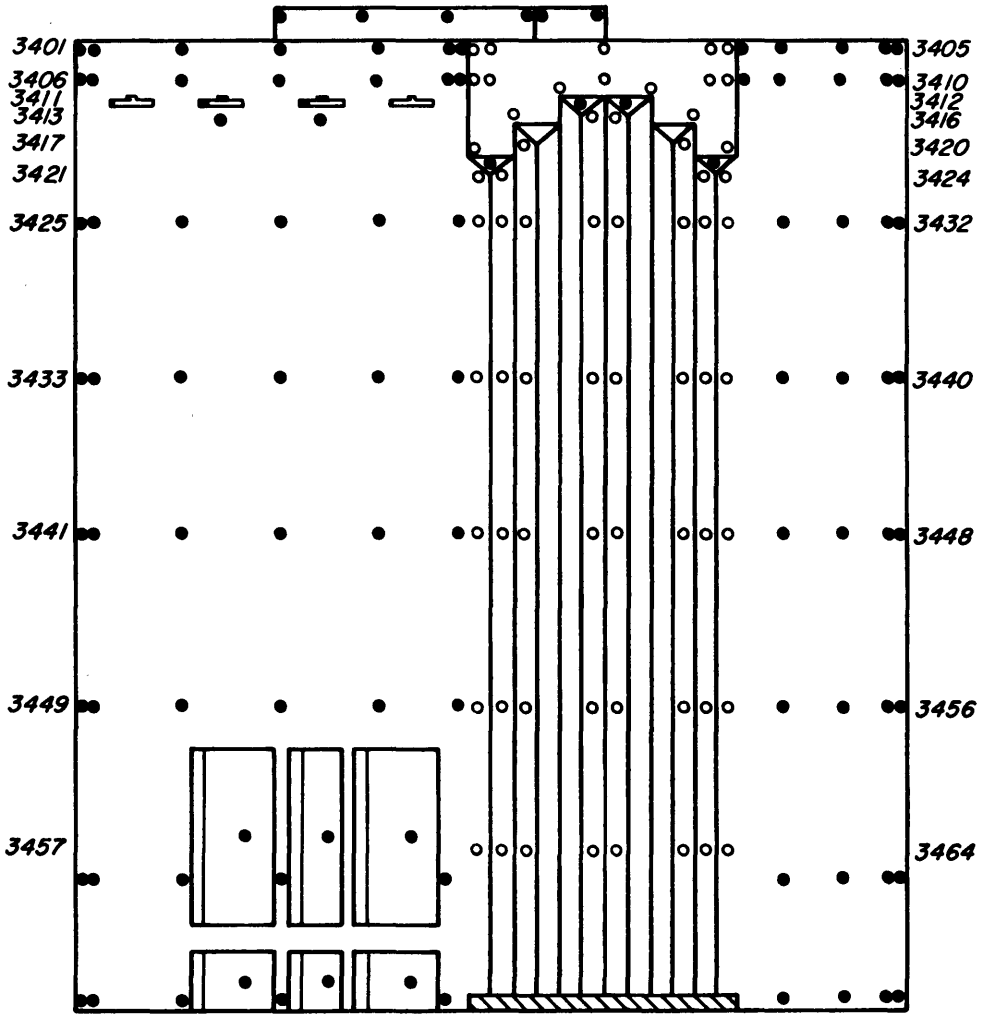
Figure 3q. Pressure Tap Locations




SOUTHWEST TOWER

THREE LAKEWAY CENTER

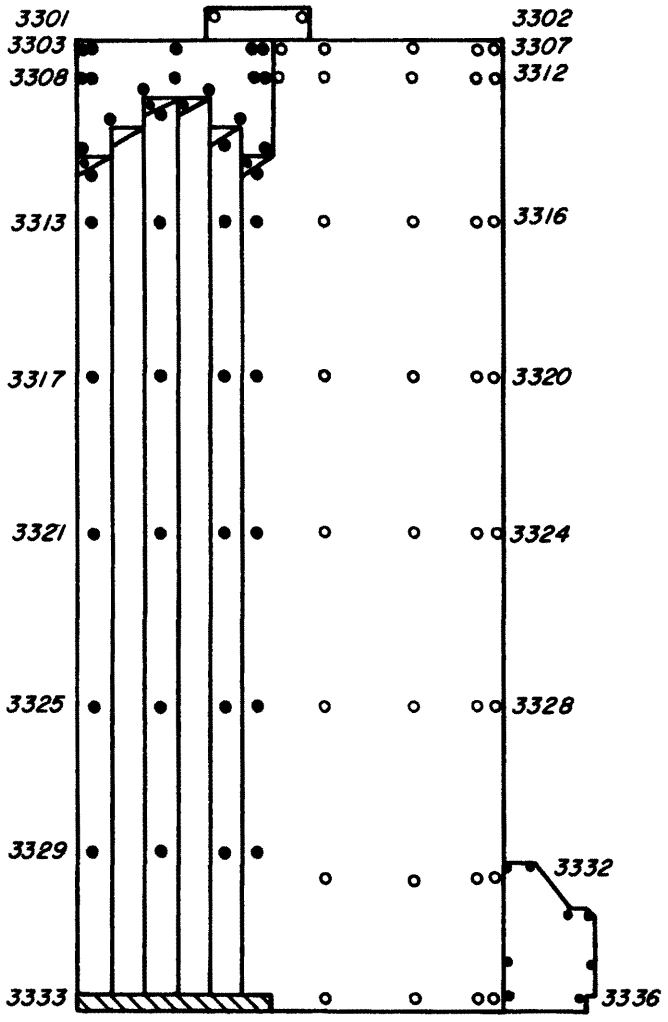
Figure 3r. Pressure Tap Locations




SOUTH TOWER

THREE LAKEWAY CENTER

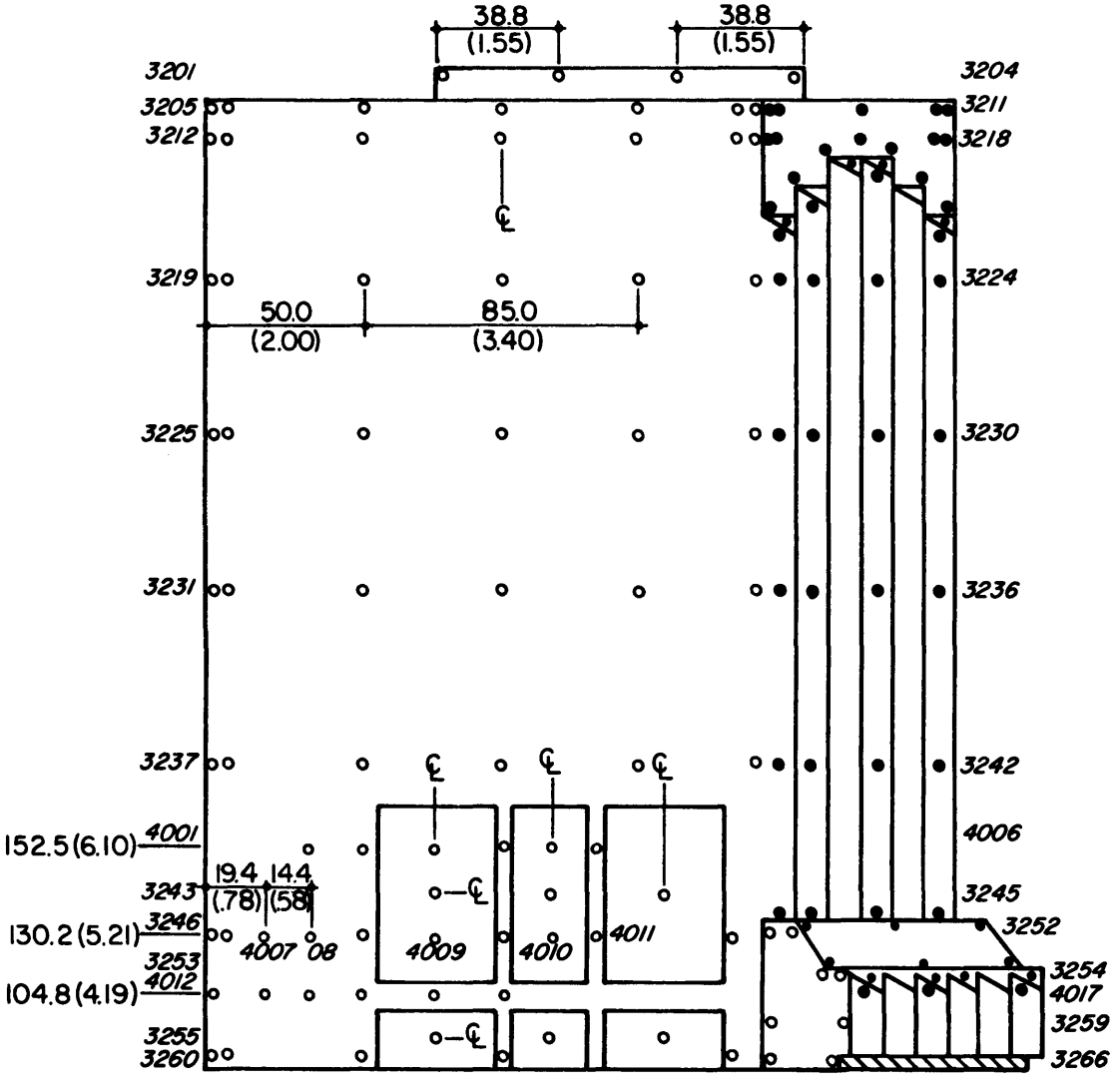
Figure 3s. Pressure Tap Locations




SOUTHEAST TOWER

THREE LAKEWAY CENTER

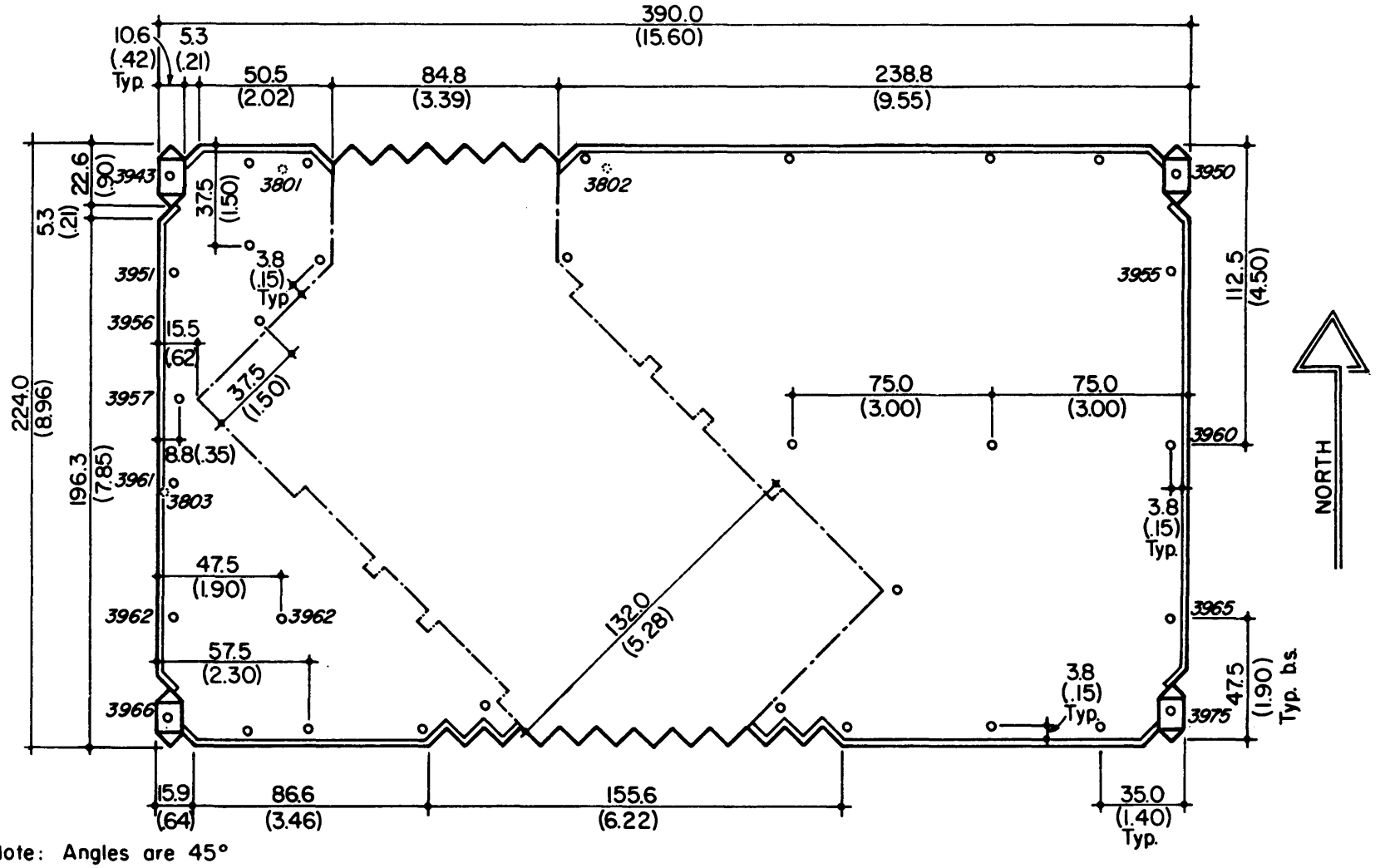
Figure 3t. Pressure Tap Locations




NORTHEAST TOWER

THREE LAKEWAY CENTER

Figure 3u. Pressure Tap Locations



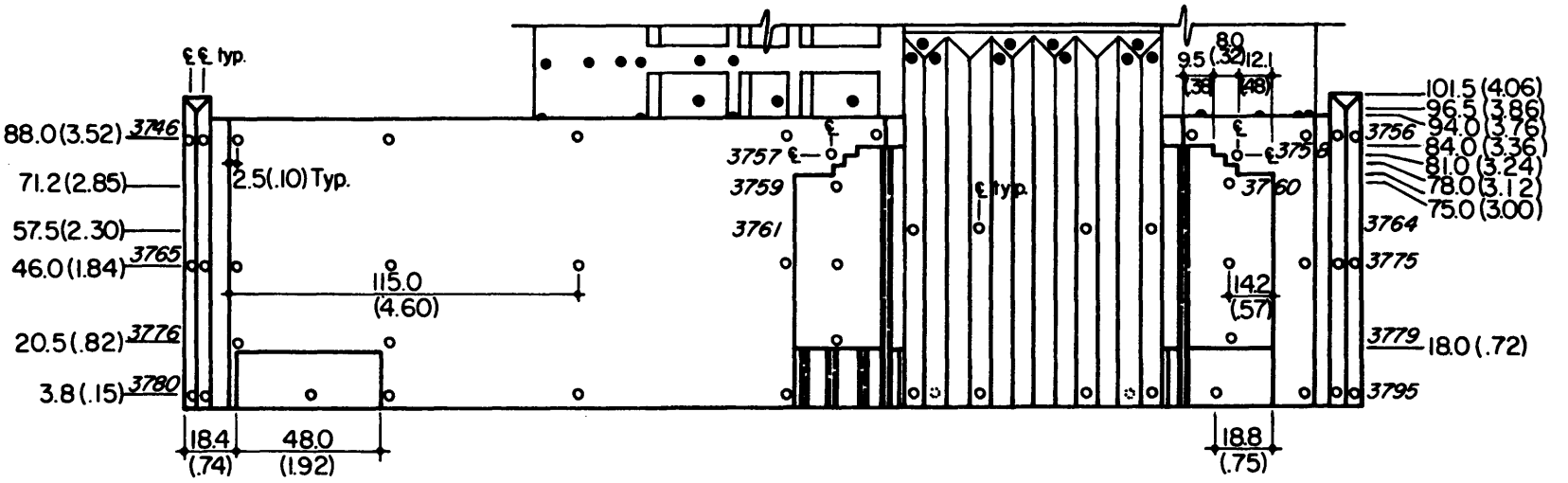

Note: Angles are 45°

Peripheral taps are bilaterally symmetrical with respect to NS and EW axis.

LOWRISE ROOF

THREE LAKEWAY CENTER

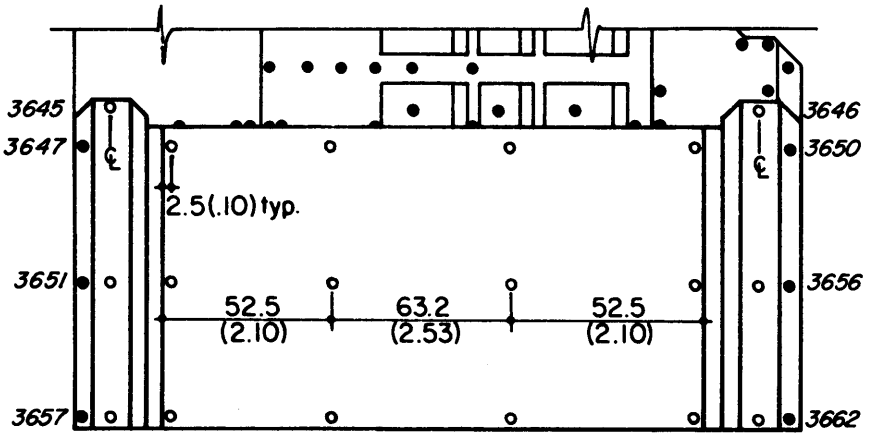
Figure 3v. Pressure Tap Locations




NORTH LOWRISE

THREE LAKEWAY CENTER

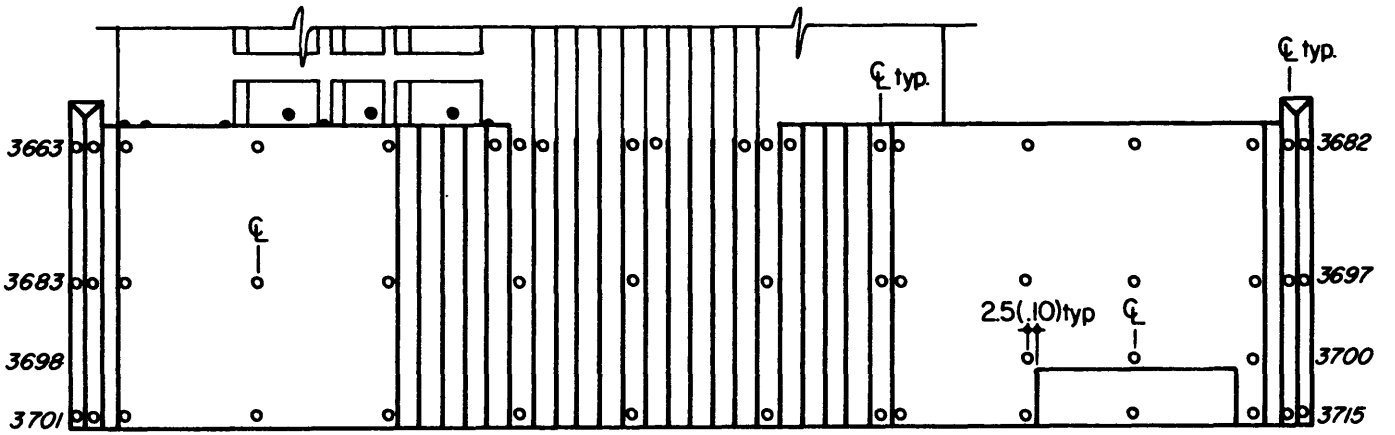
Figure 3w. Pressure Tap Locations




EAST LOWRISE

THREE LAKEWAY CENTER

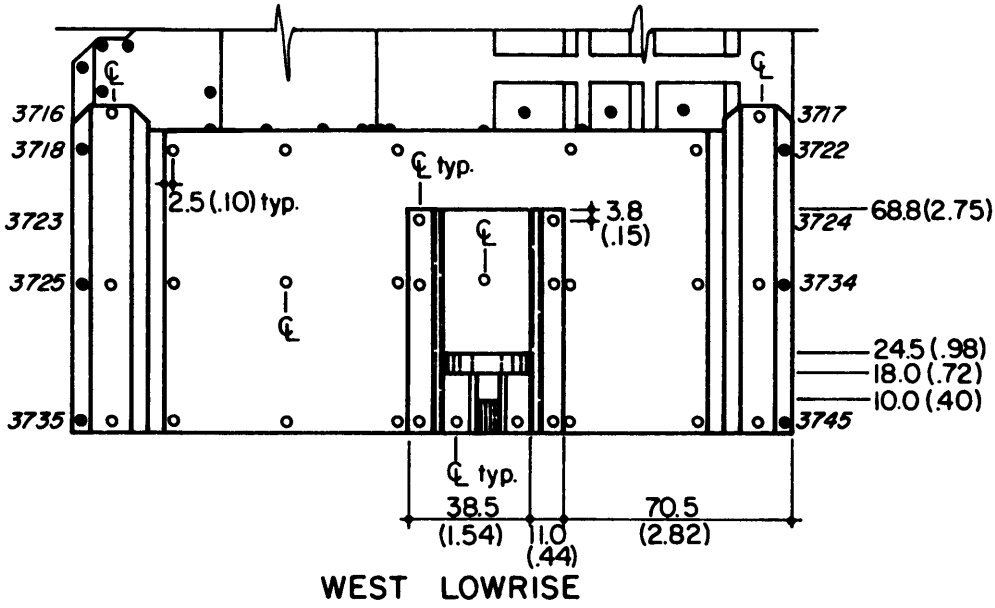
Figure 3x. Pressure Tap Locations




SOUTH LOWRISE

THREE LAKEWAY CENTER

Figure 3y. Pressure Tap Locations




THREE LAKEWAY CENTER

Figure 3z. Pressure Tap Locations

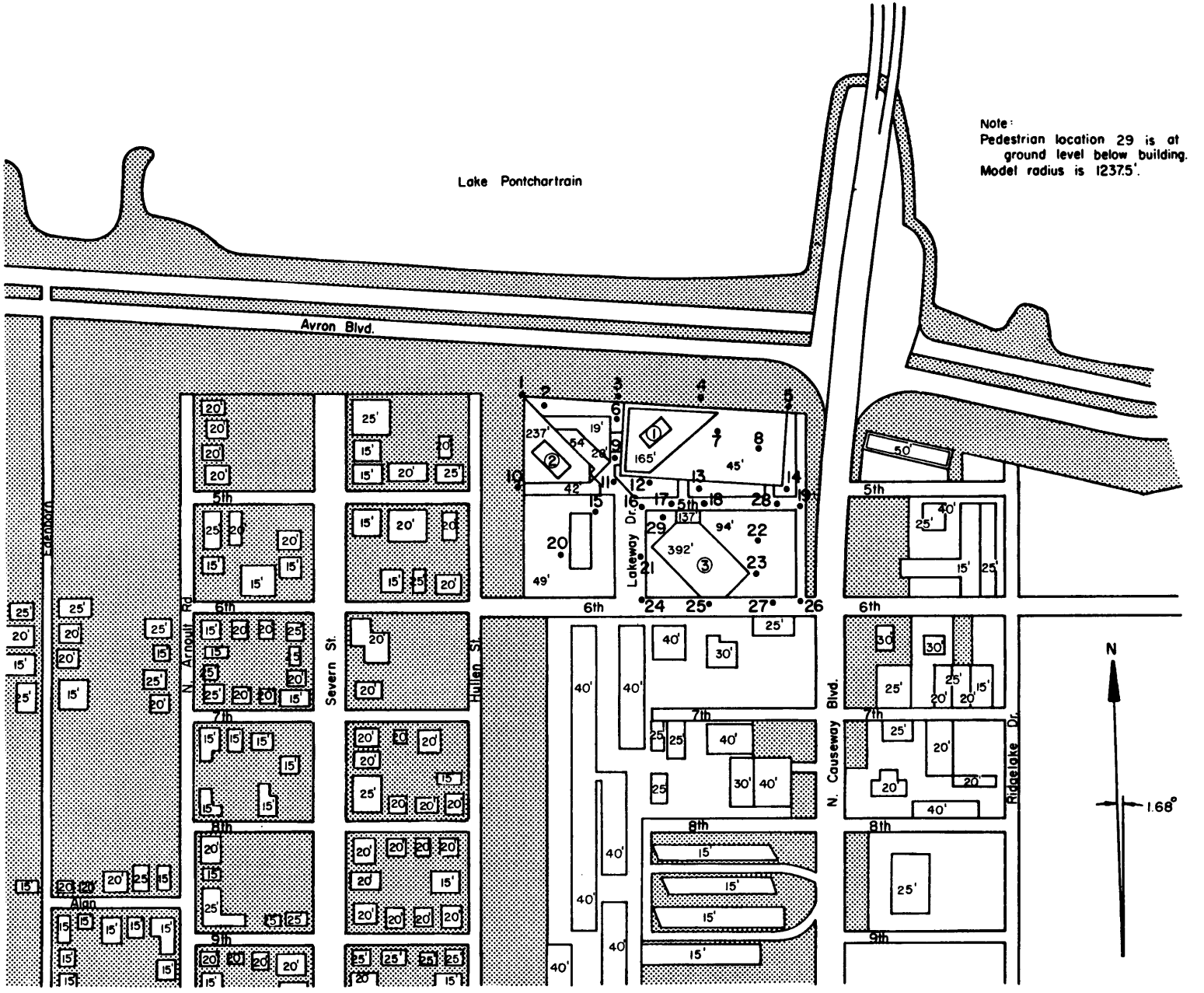
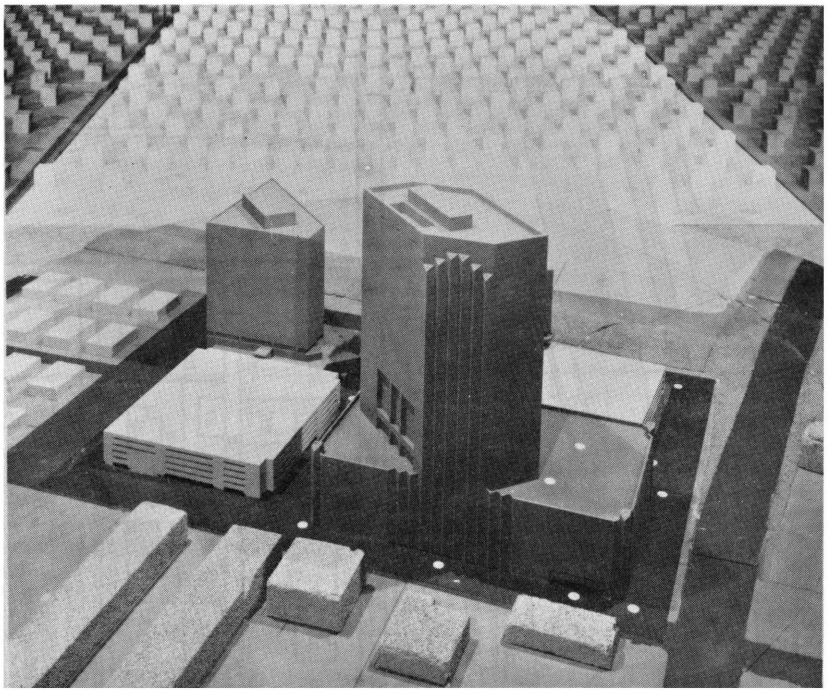



Figure 4. Building Location and Pedestrian Wind Velocity Measuring Positions



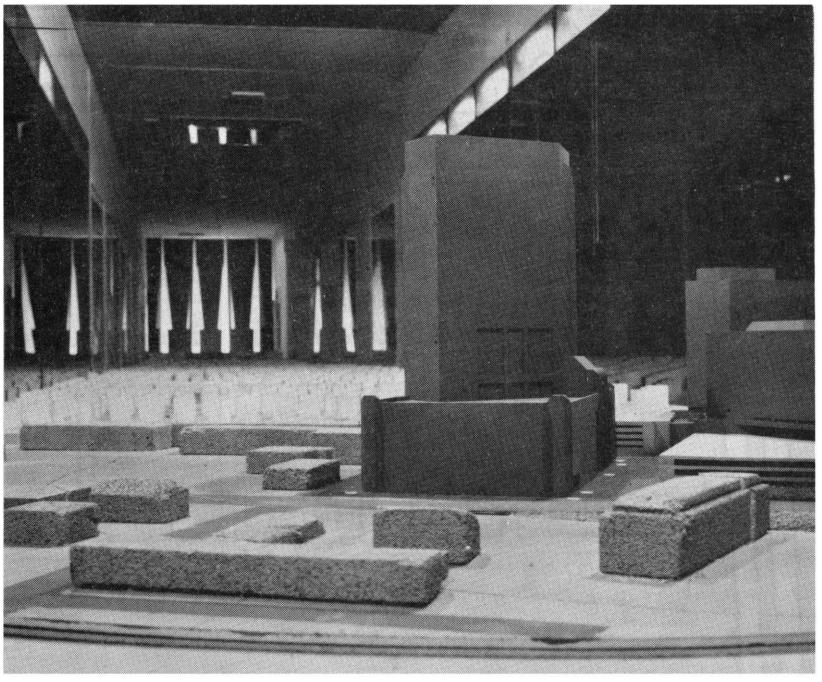


Figure 5a. Completed Model in Wind Tunnel

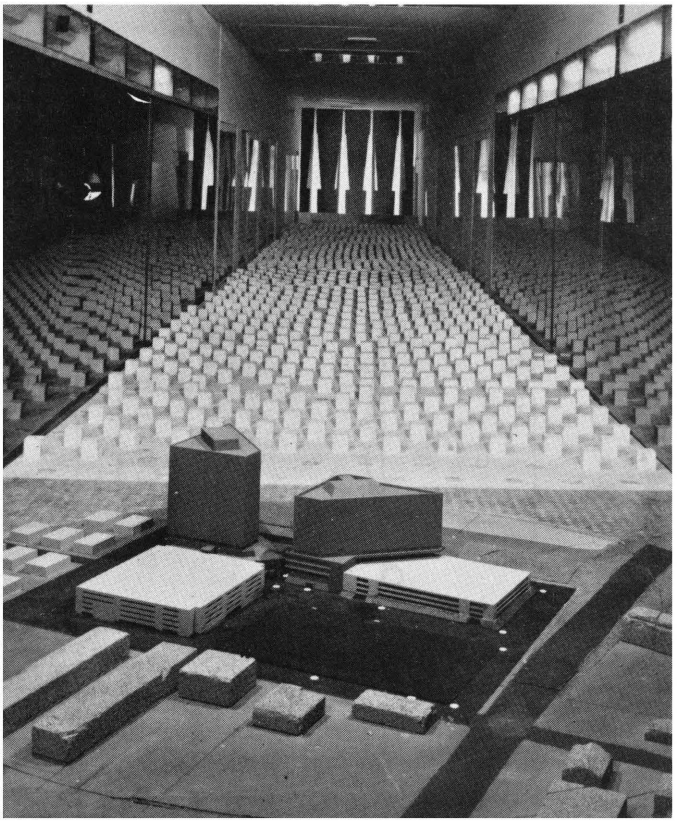


Figure 5b. Completed Model in Wind Tunnel

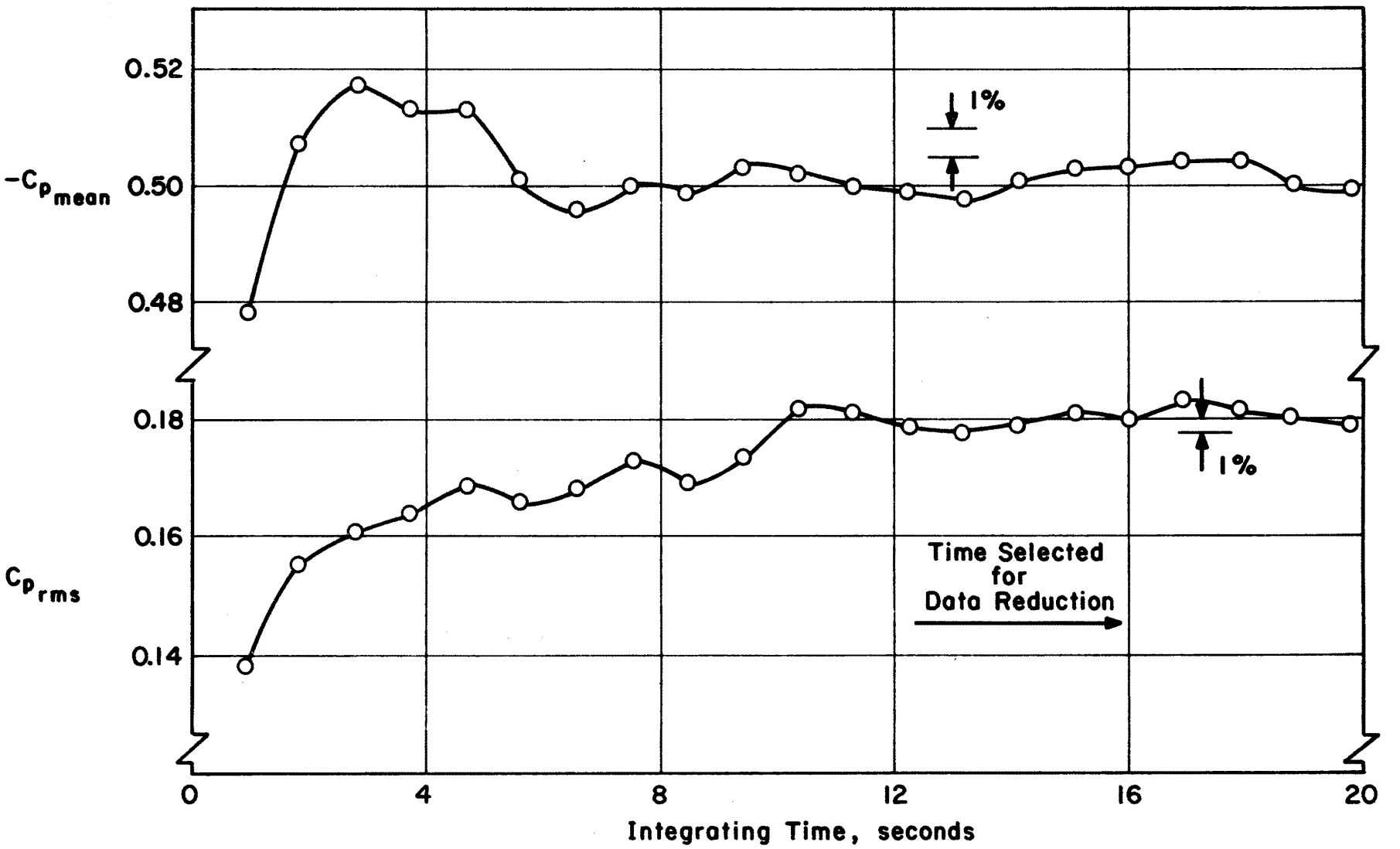



Figure 6. Data Sampling Time Verification

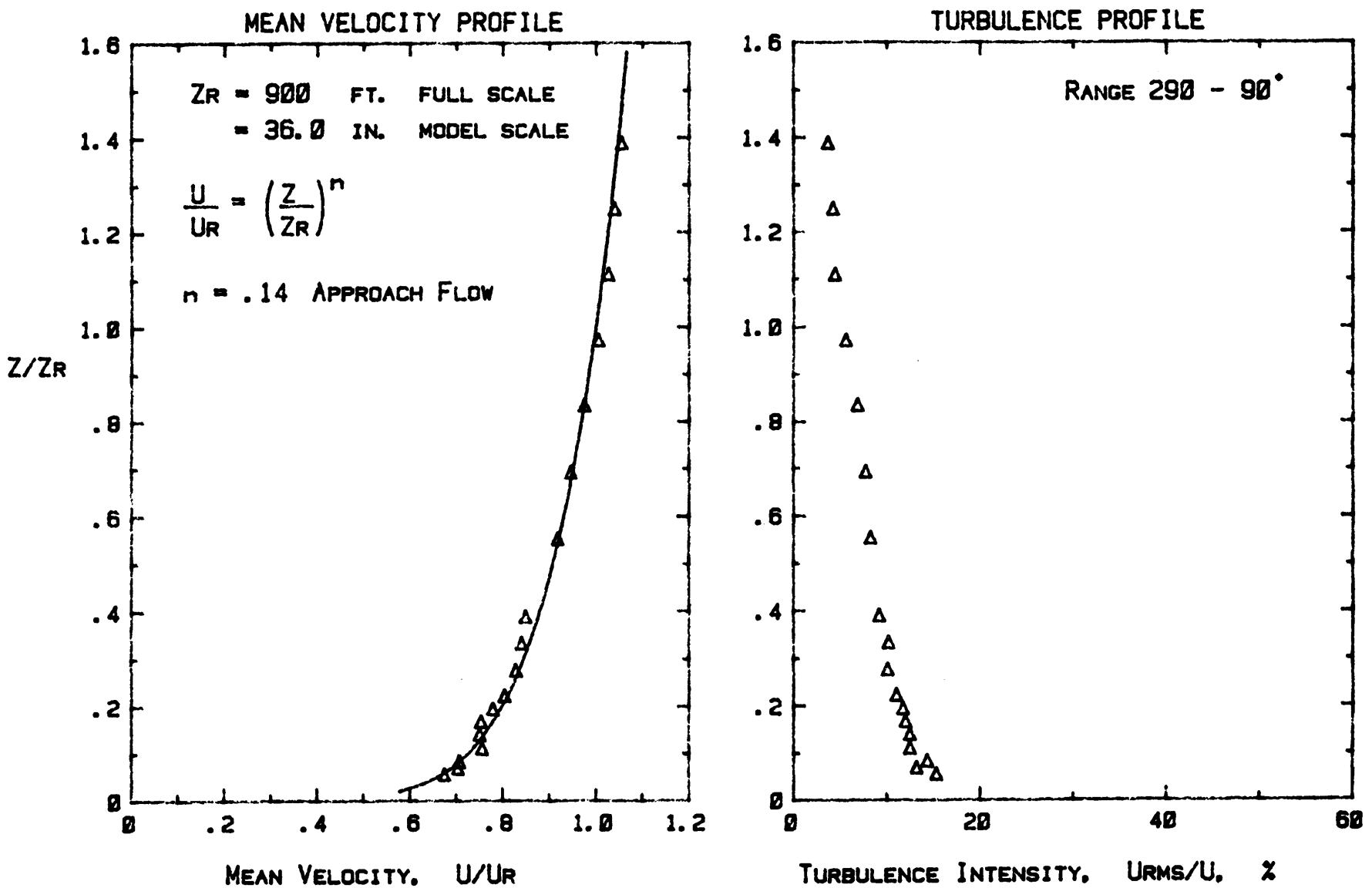



Figure 7a. Mean Velocity and Turbulence Profiles Approaching the Model

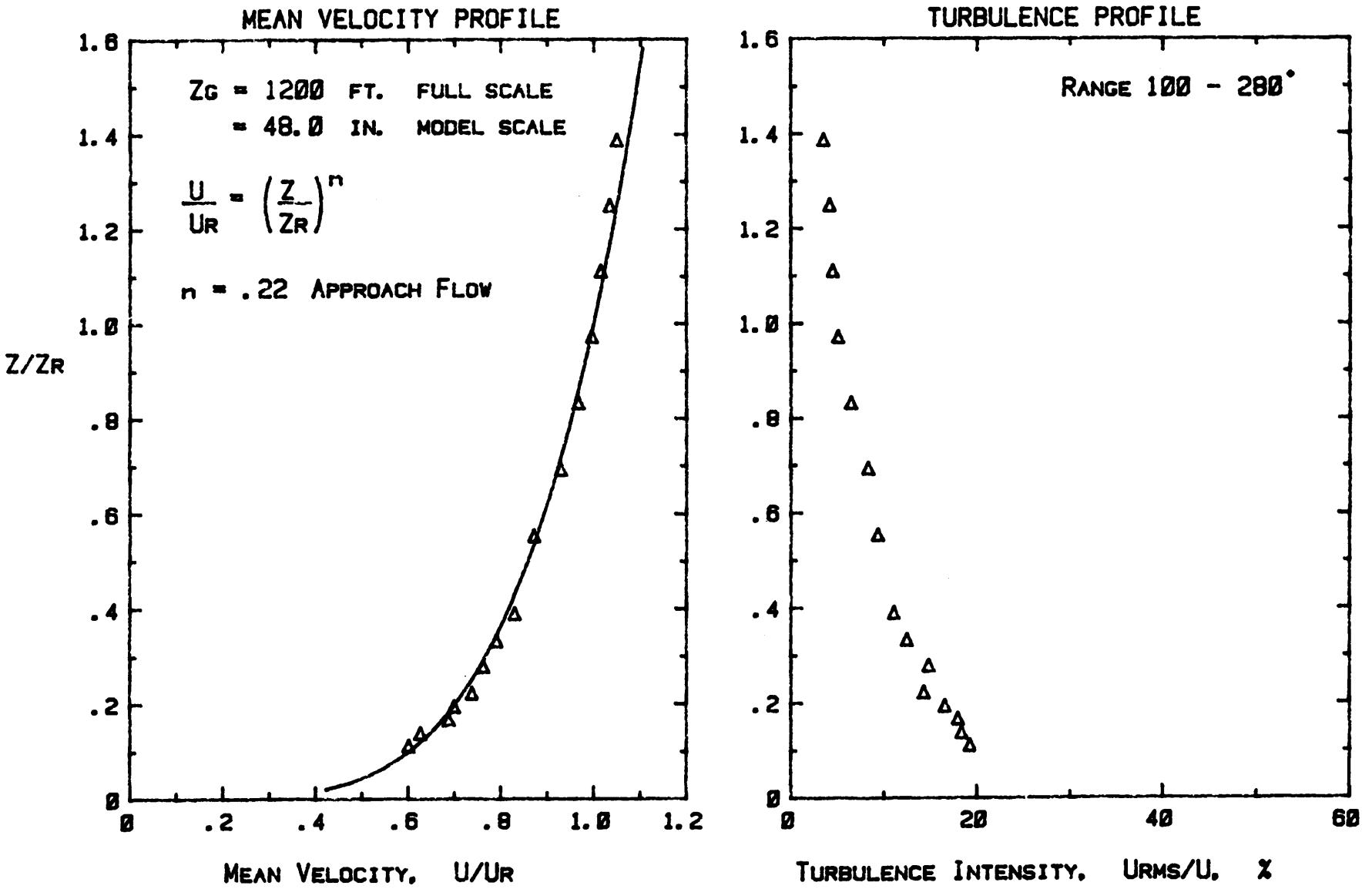



Figure 7b. Mean Velocity and Turbulence Profiles Approaching the Model

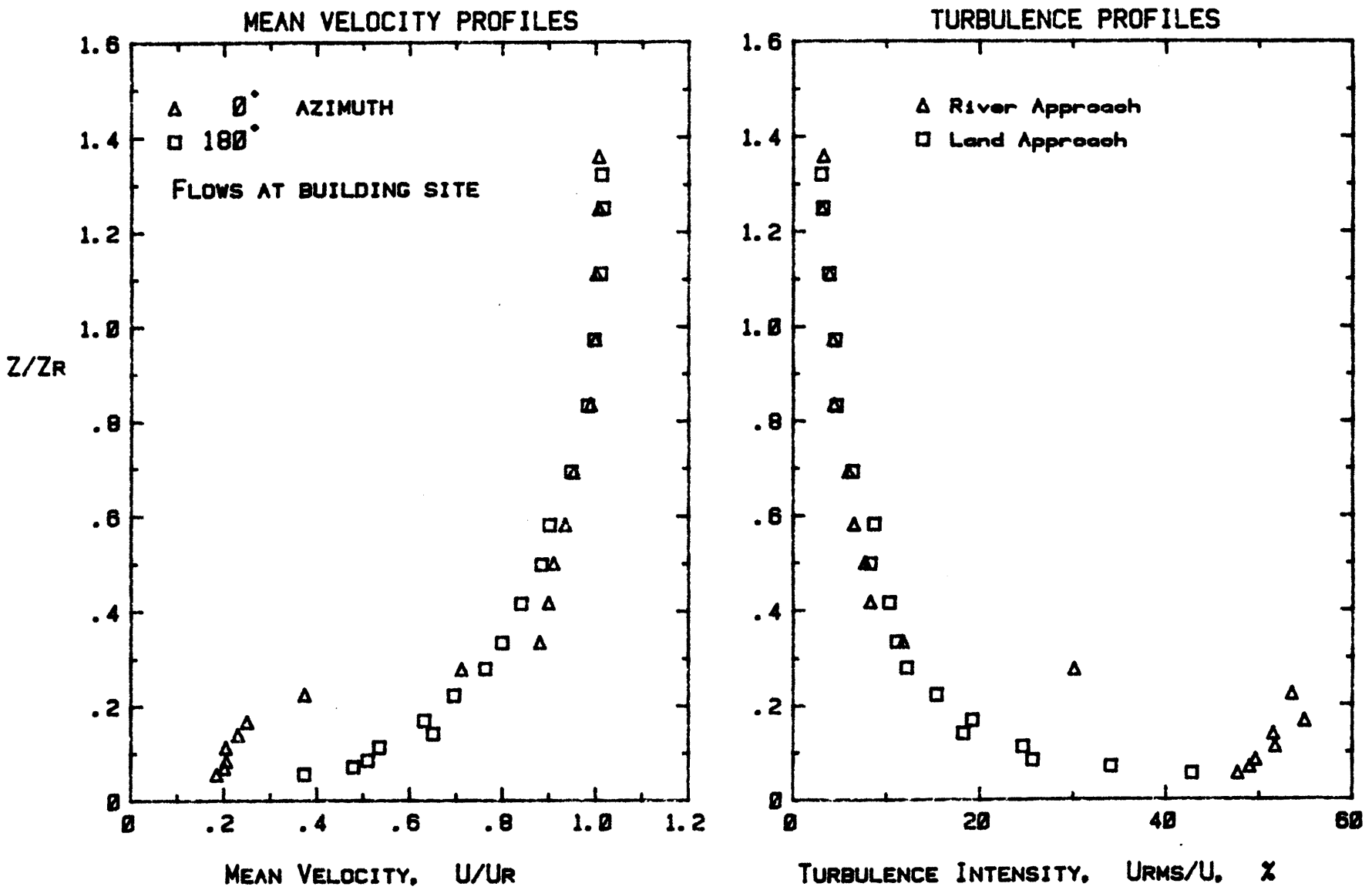



Figure 7c. Mean Velocity and Turbulence Profiles Approaching the Model

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

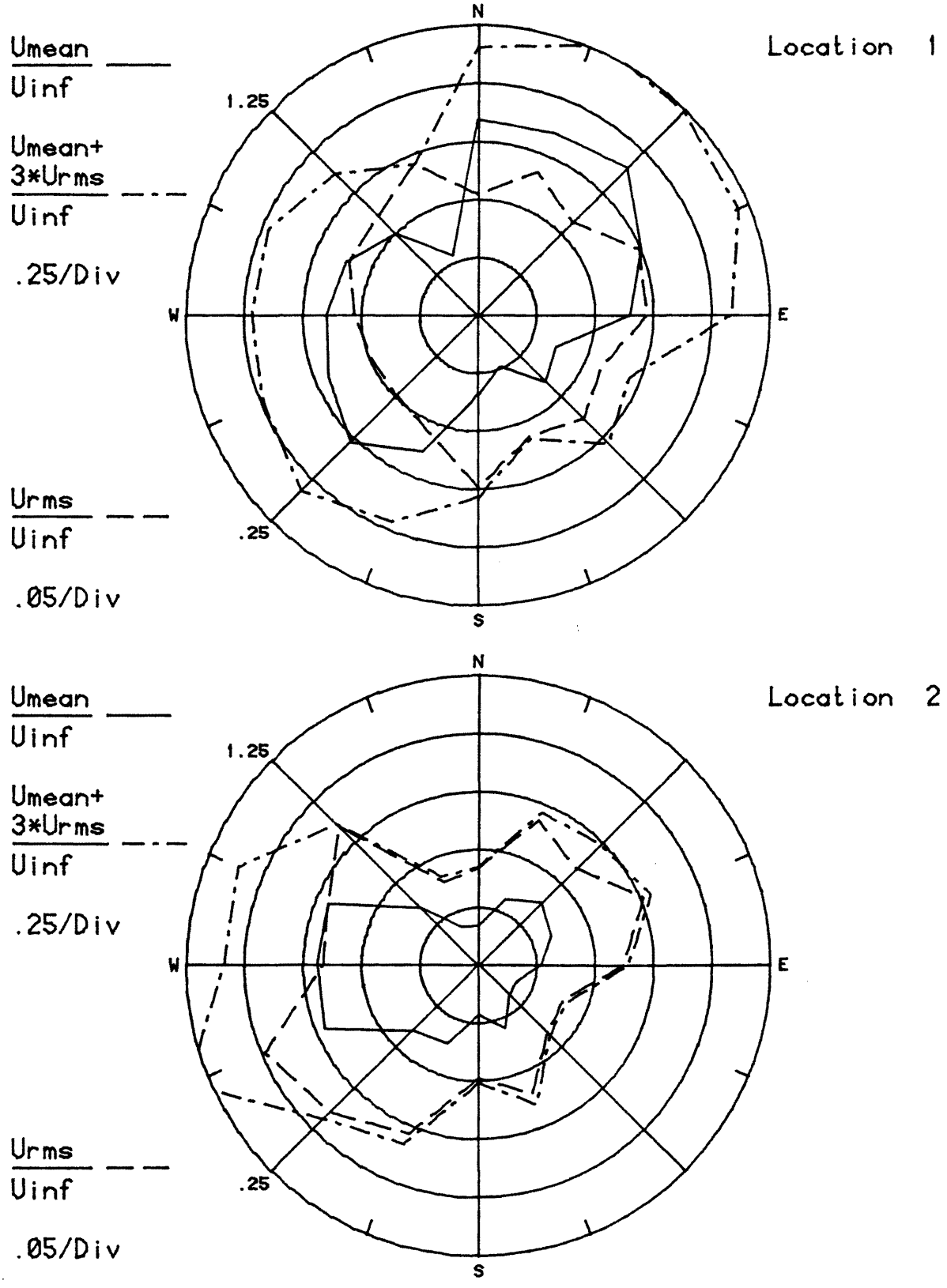
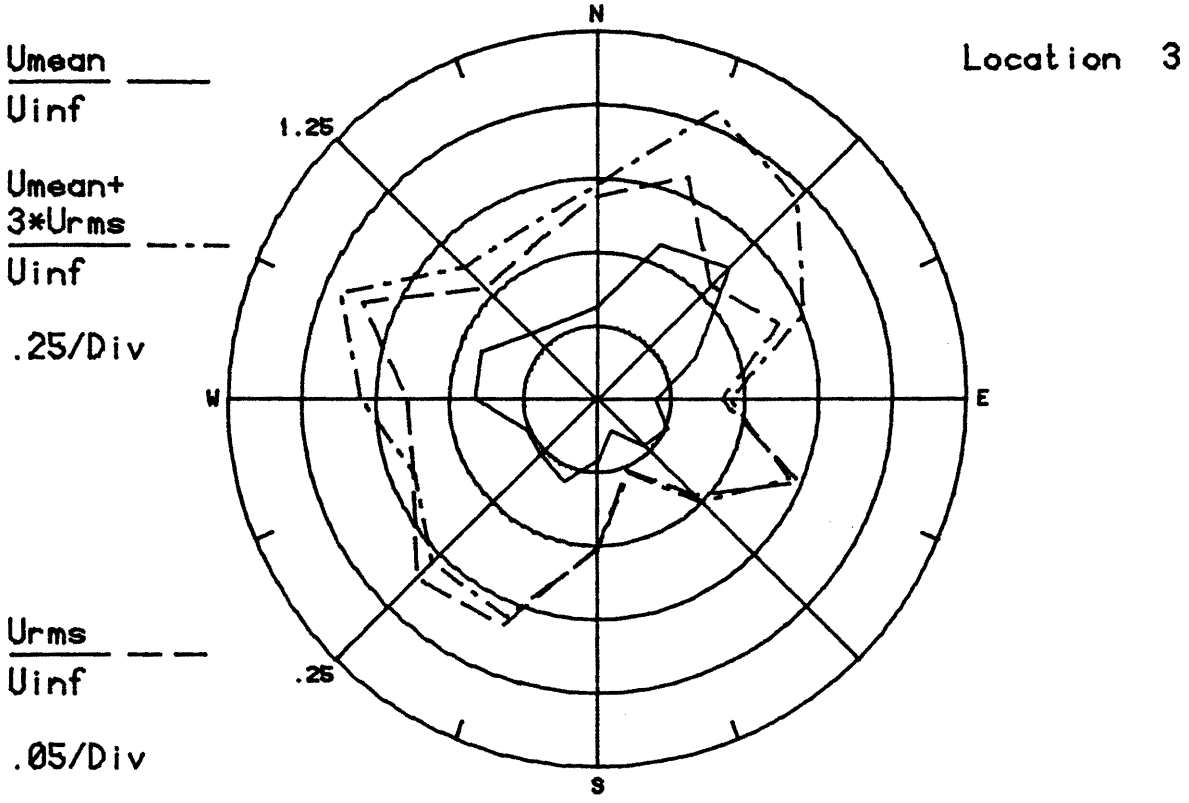



Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A



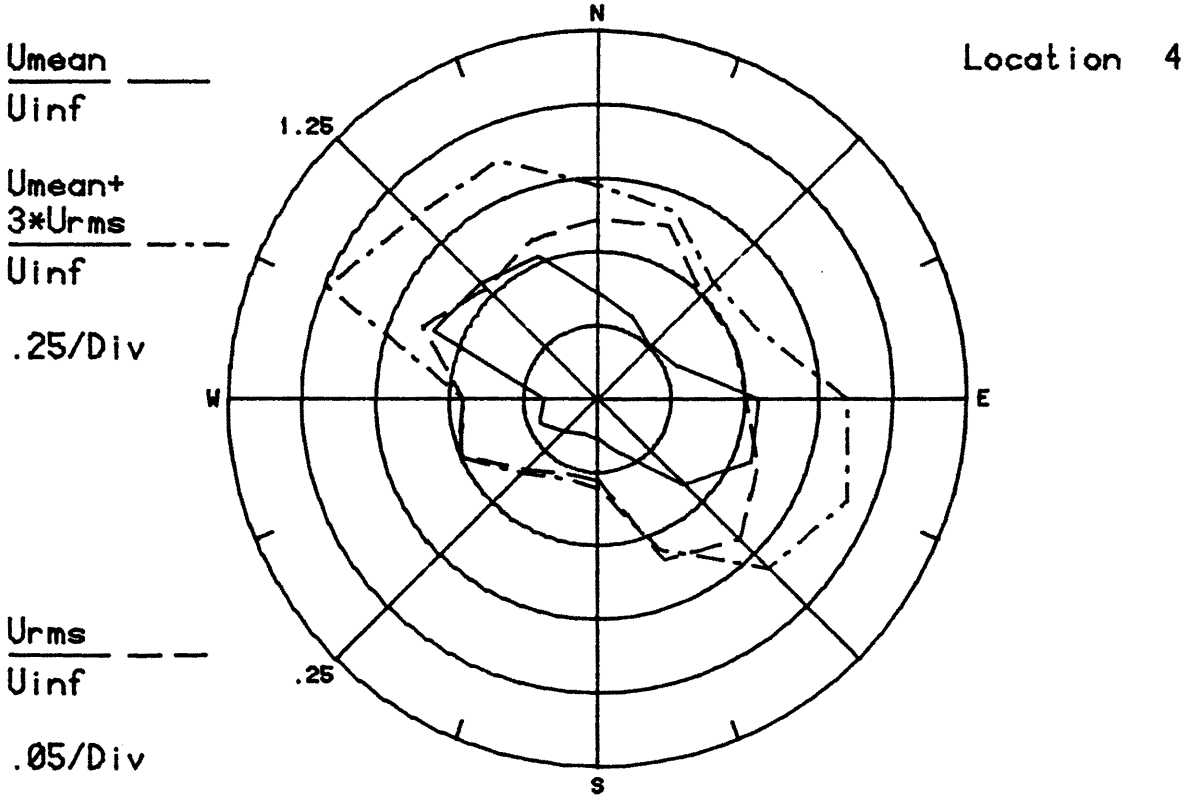




Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

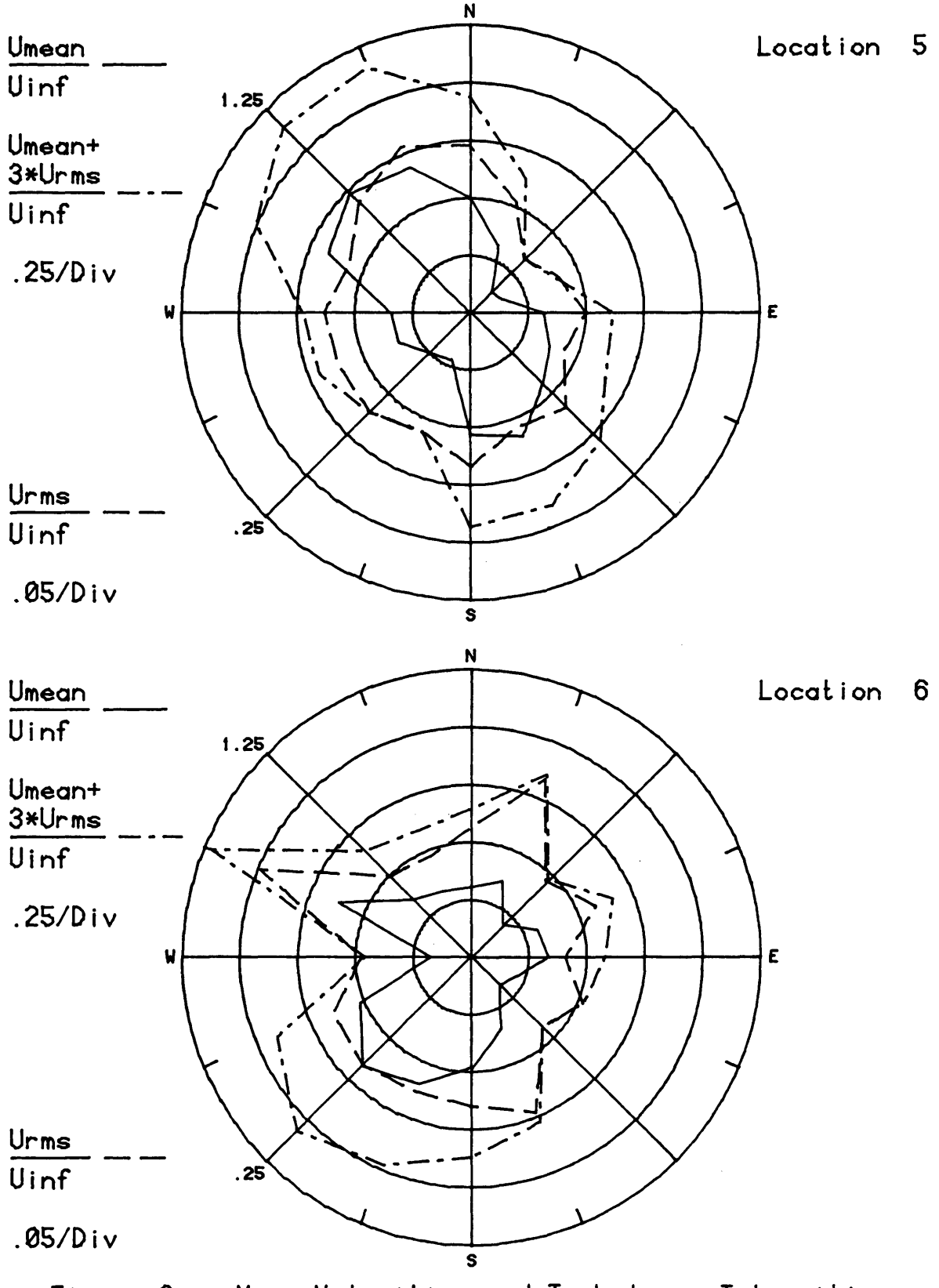
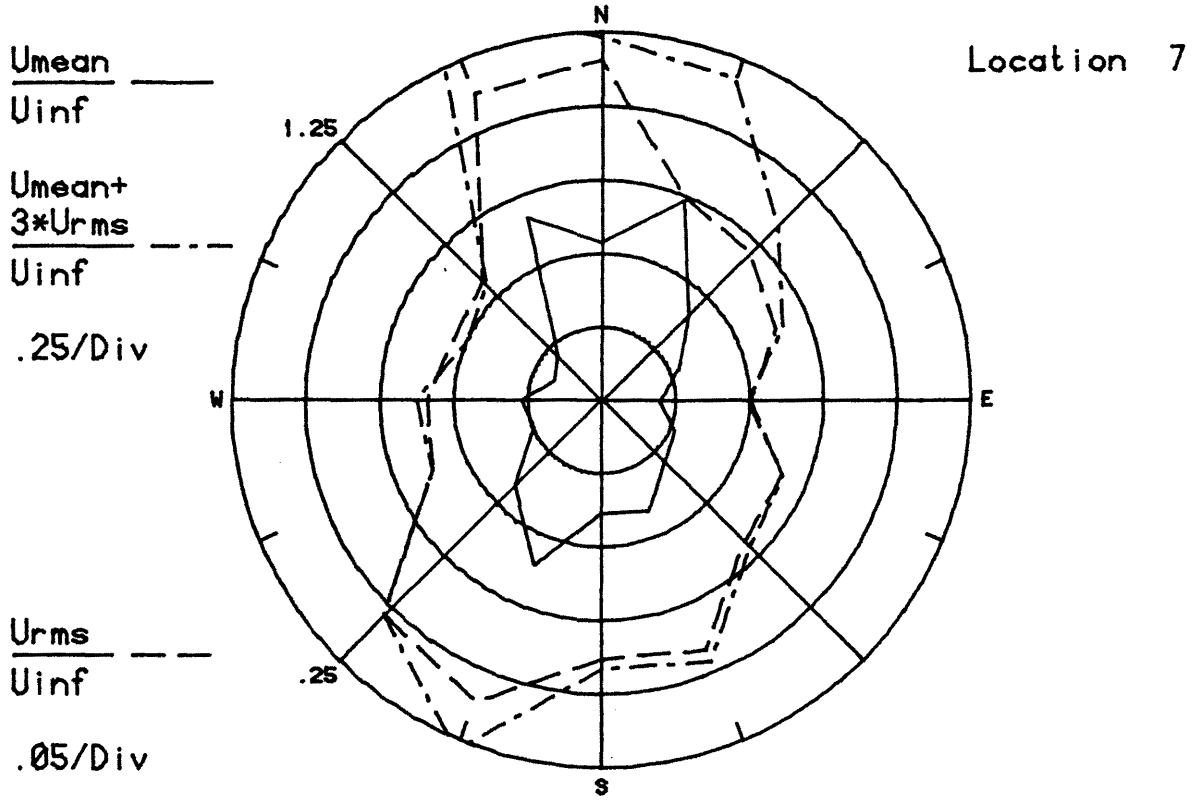



Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A



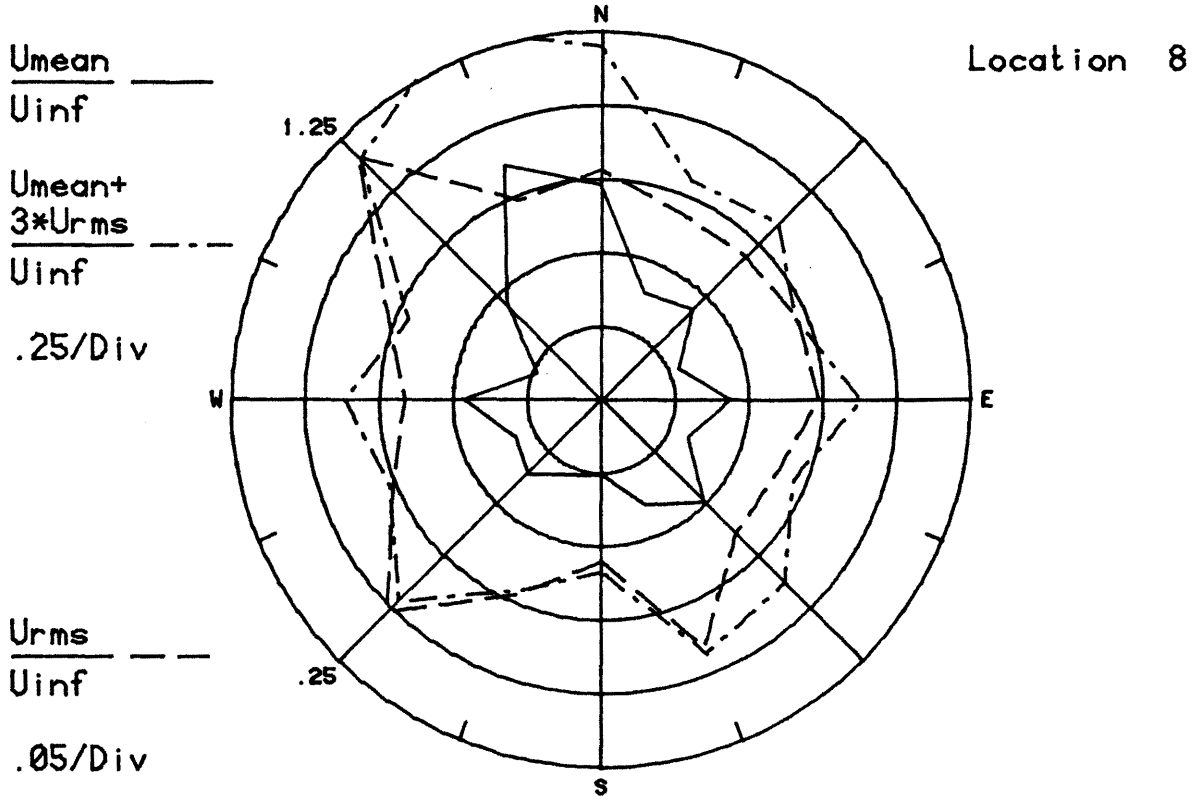




Figure 8d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

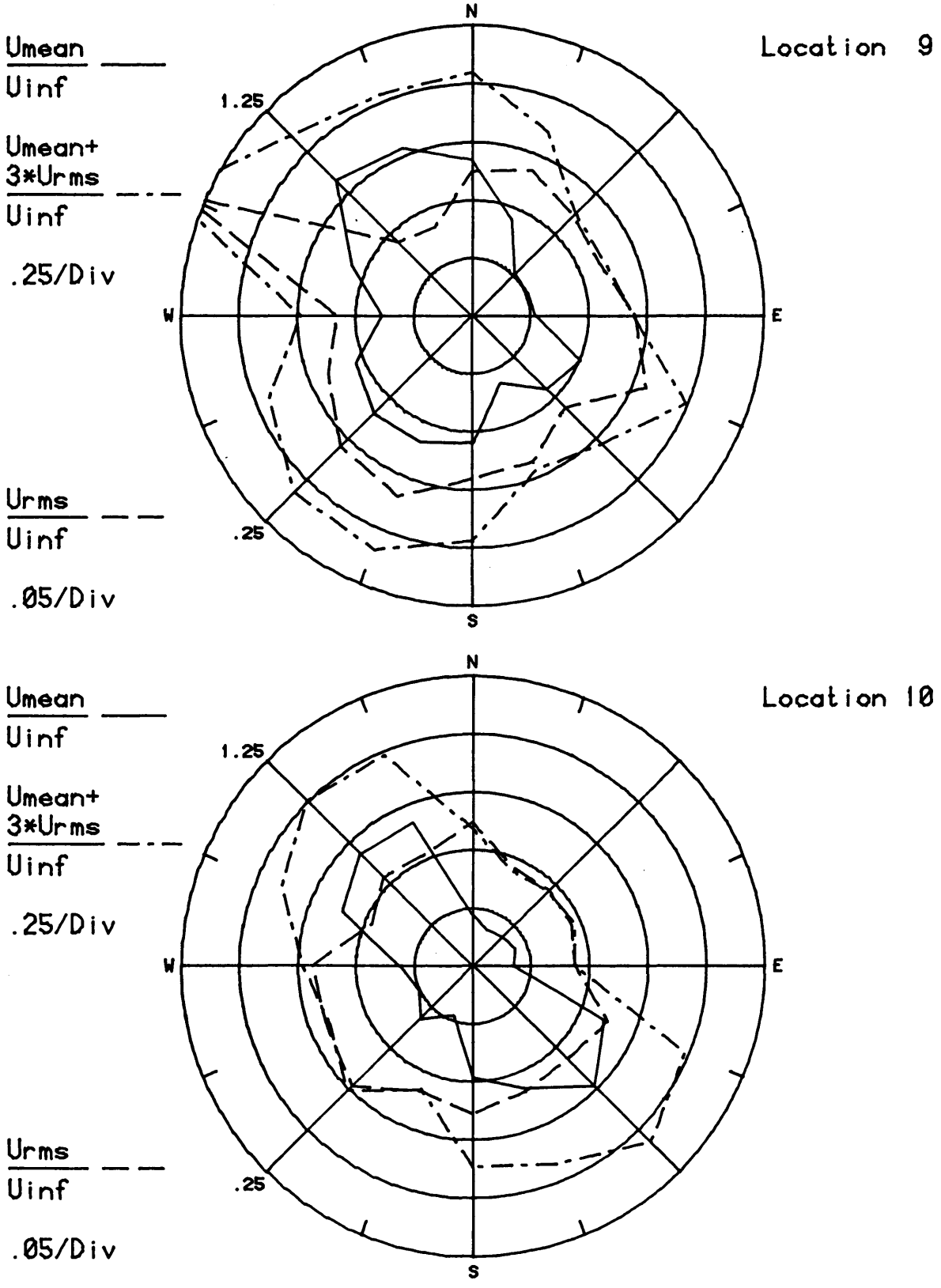



Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

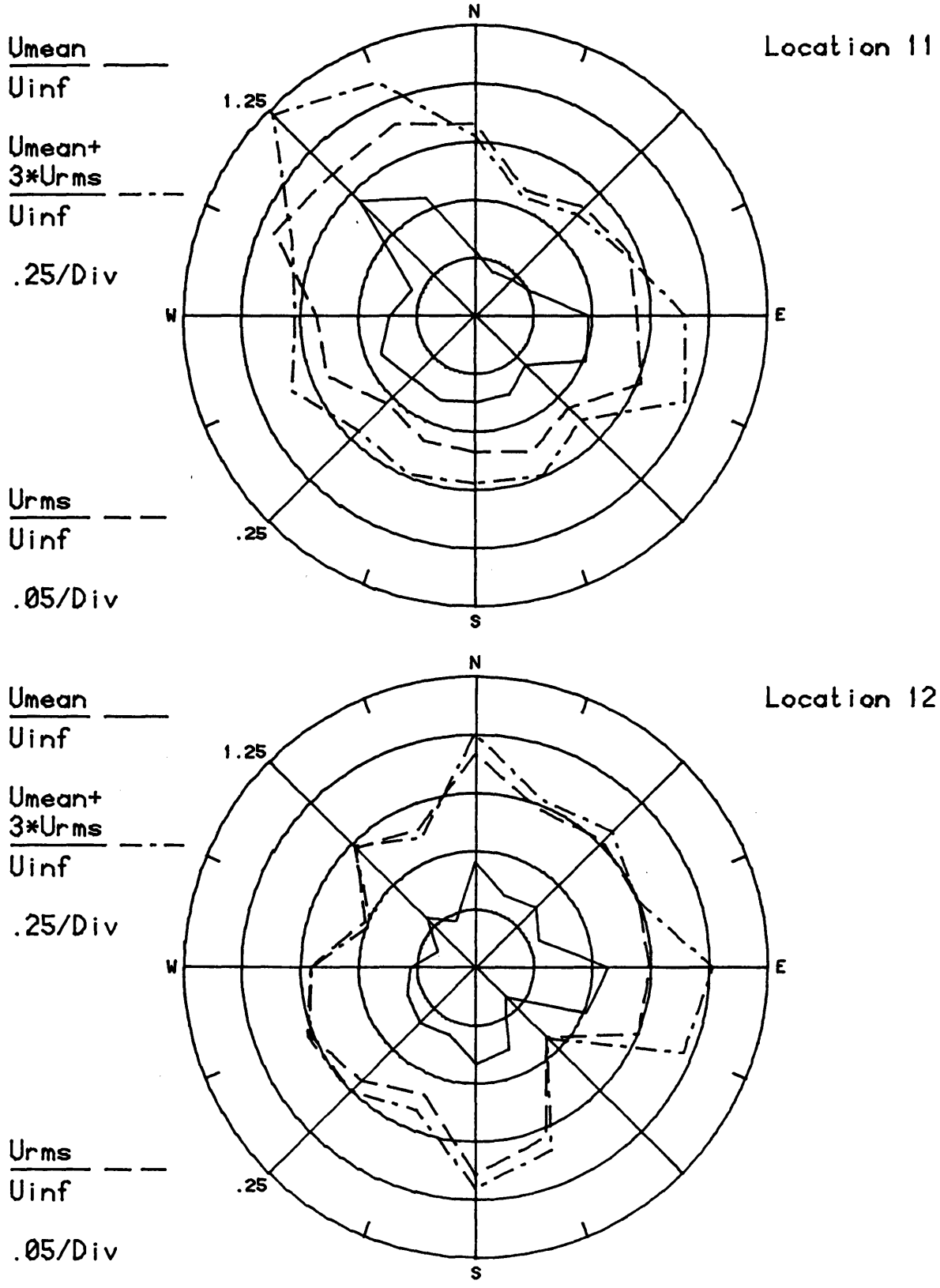



Figure 8f. Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

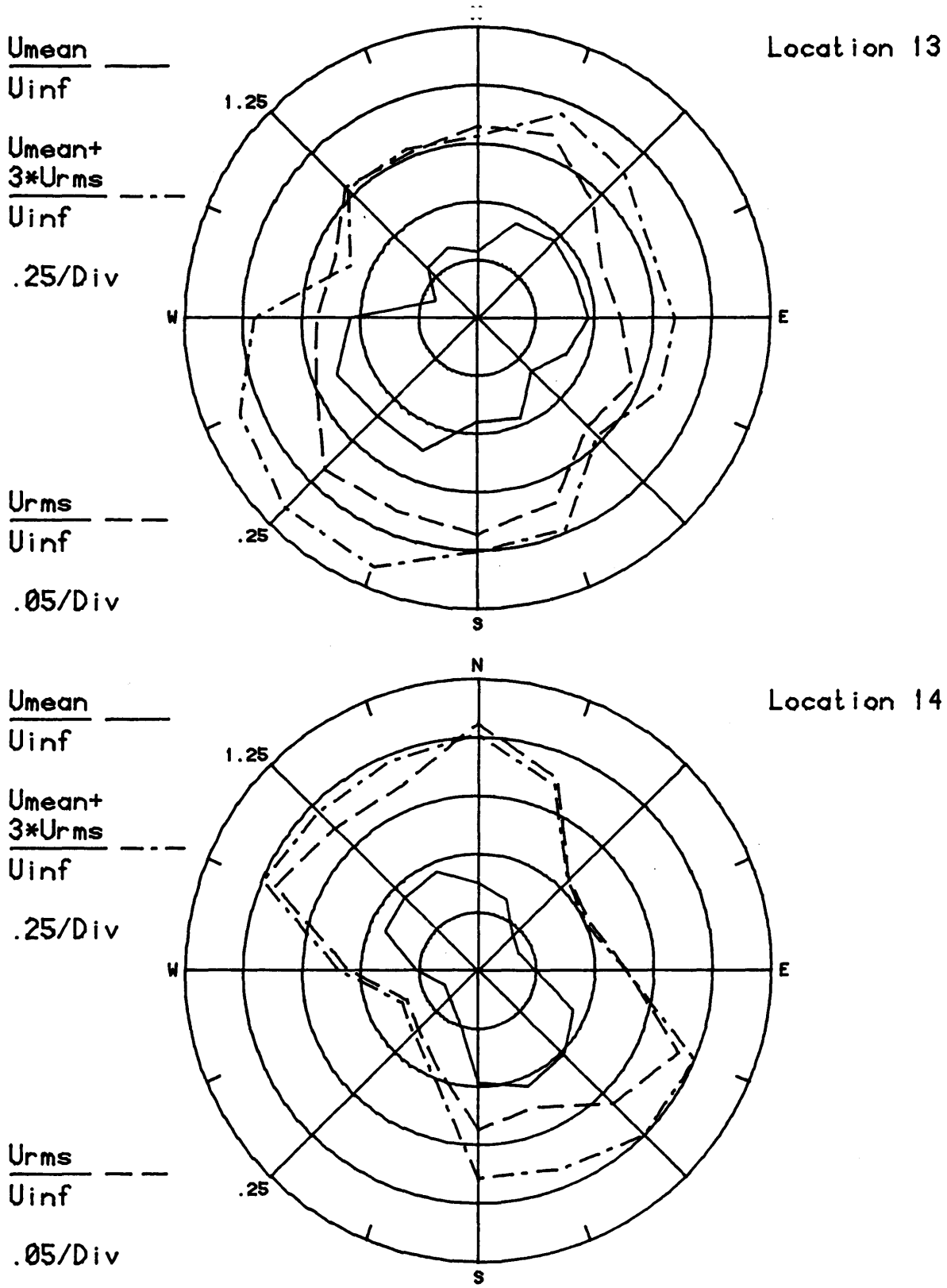



Figure 8g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

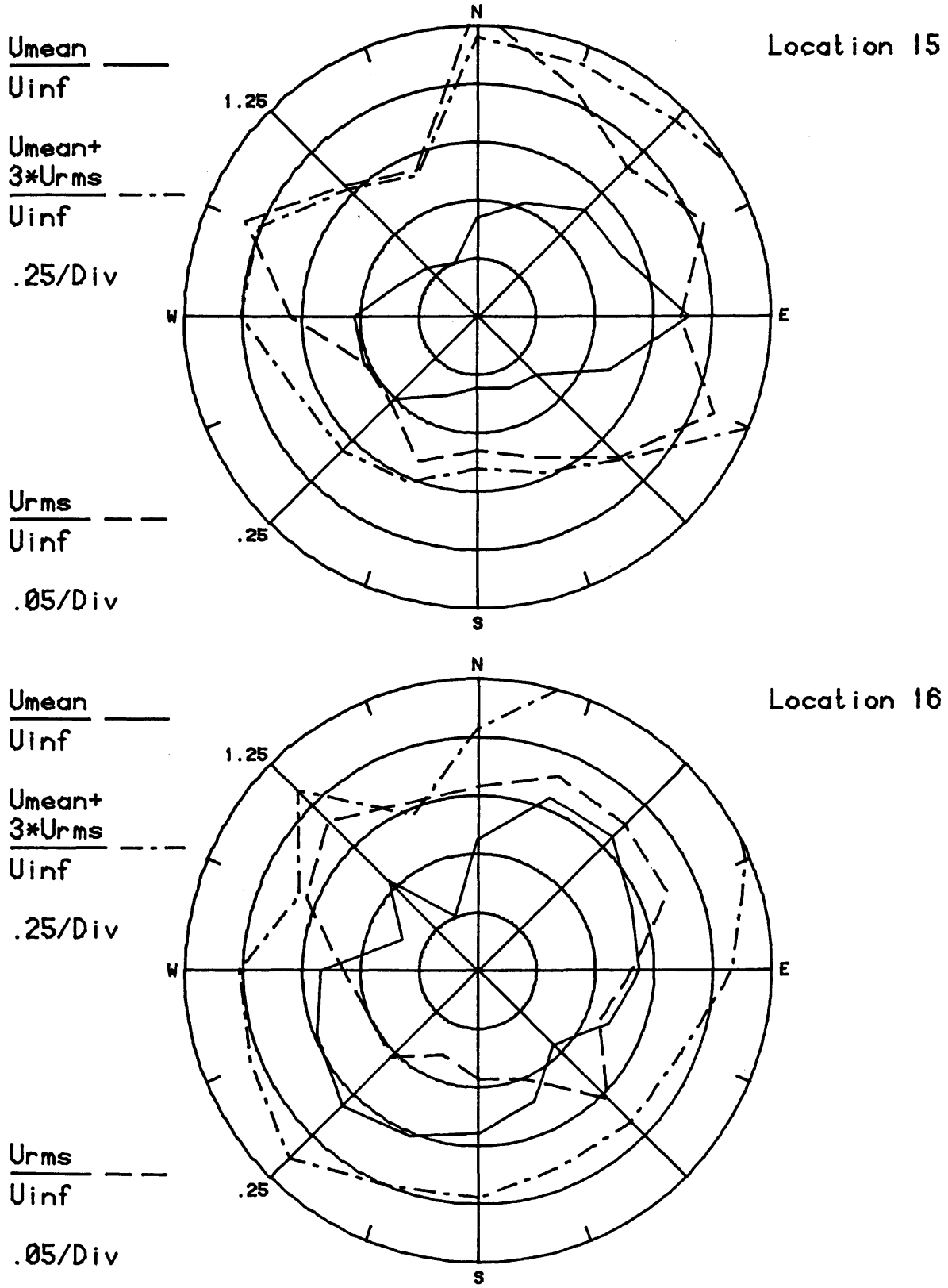
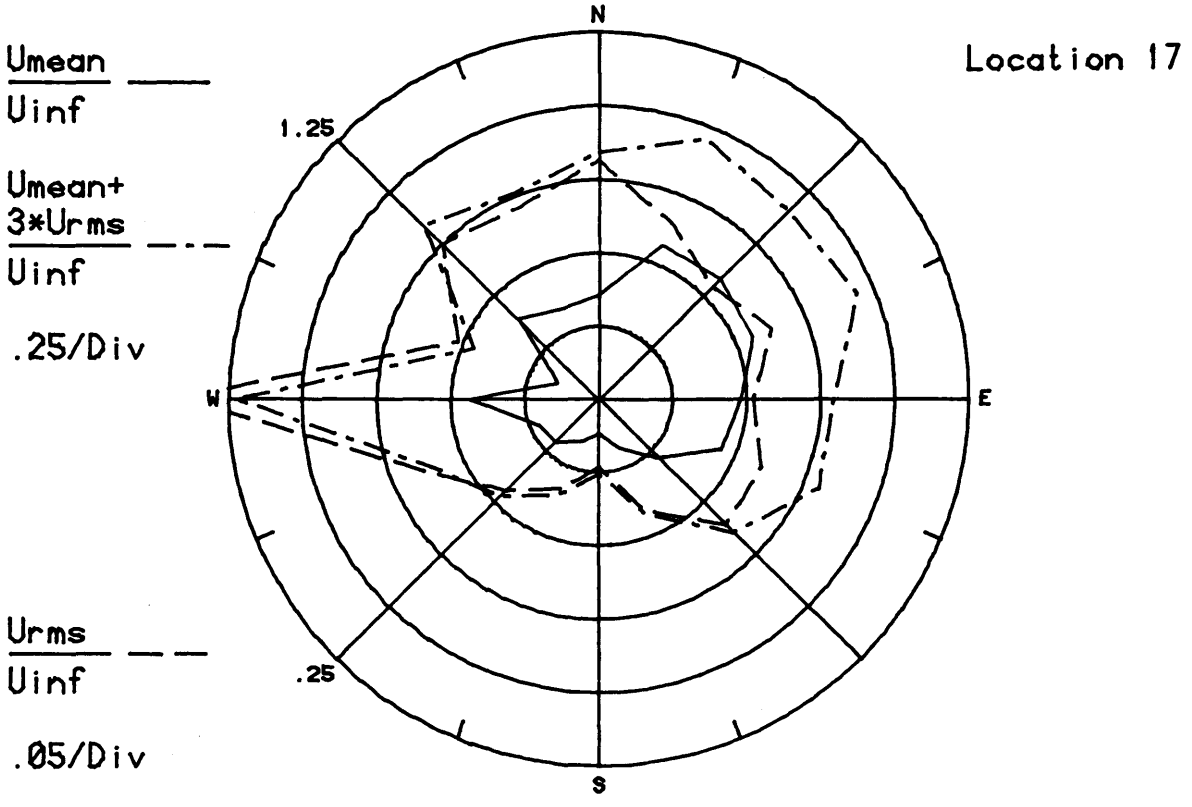



Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A



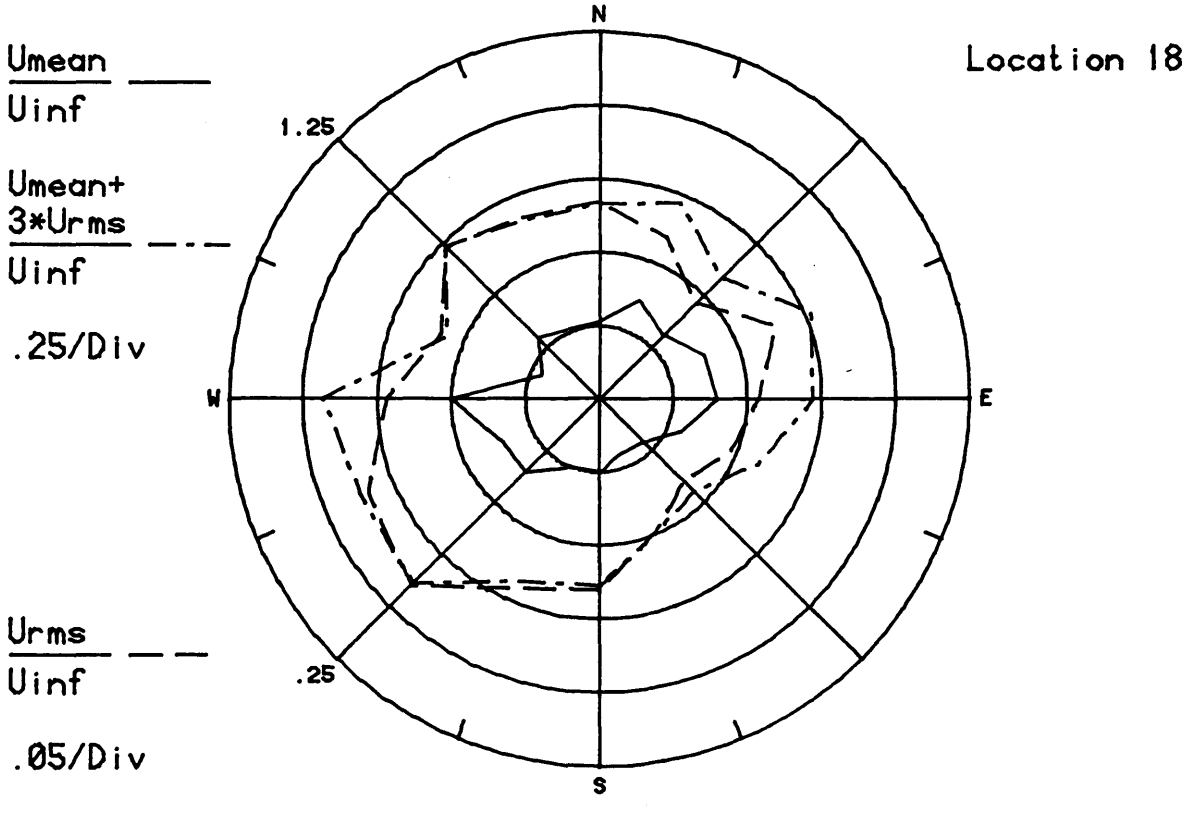
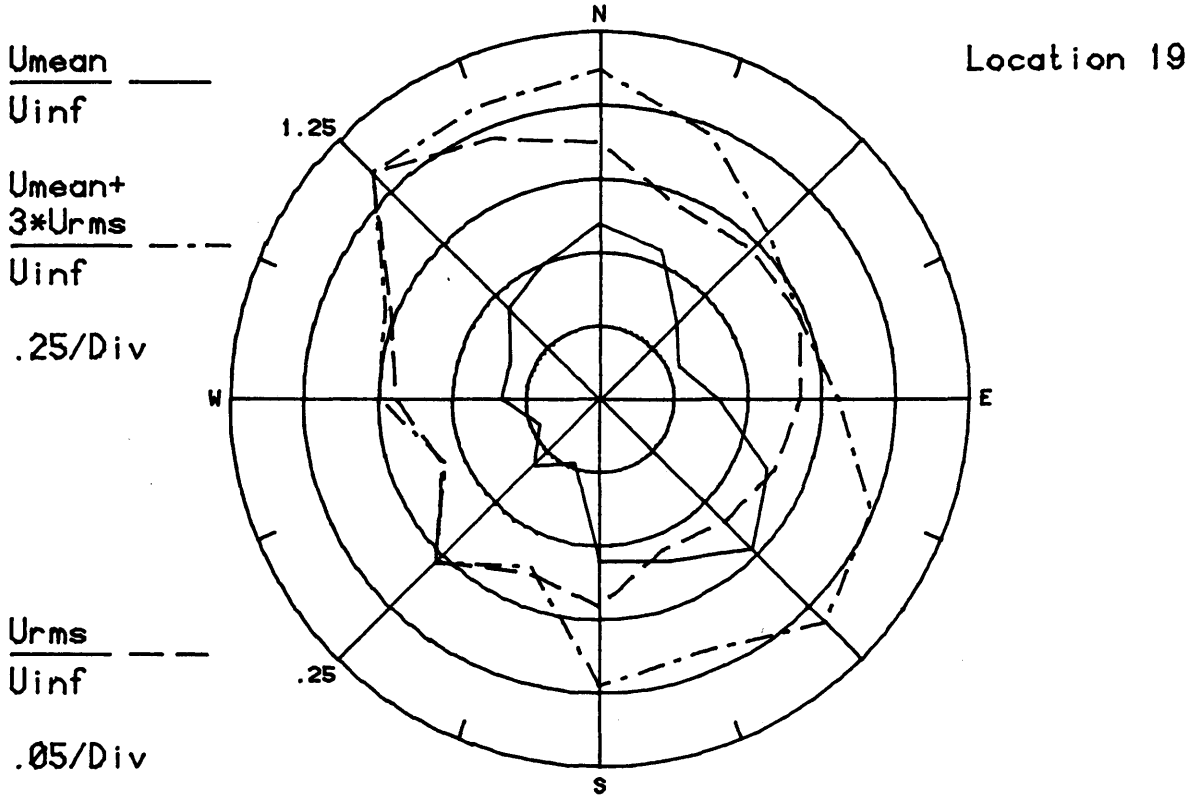




Figure 8i. Mean Velocities and Turbulence Intensities at Pedestrian Locations 17 and 18

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A



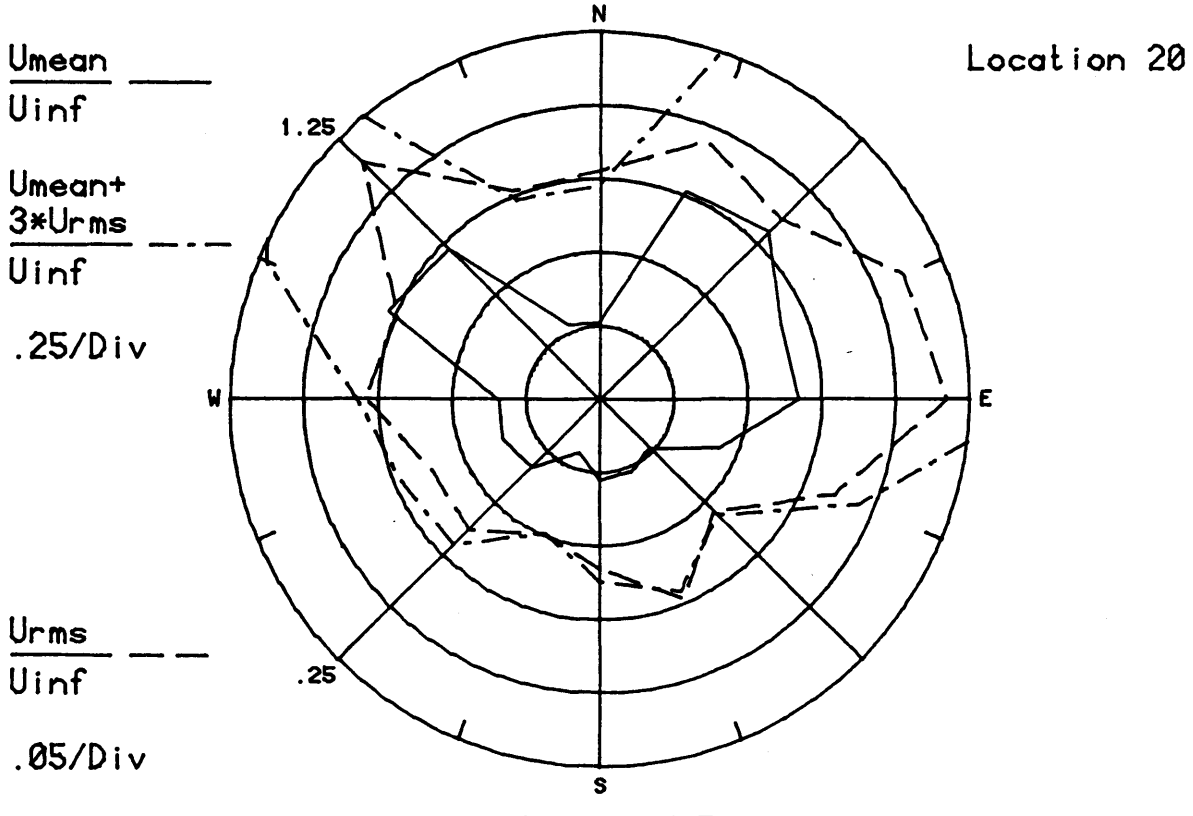




Figure 8j. Mean Velocities and Turbulence Intensities at Pedestrian Locations 19 and 20

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

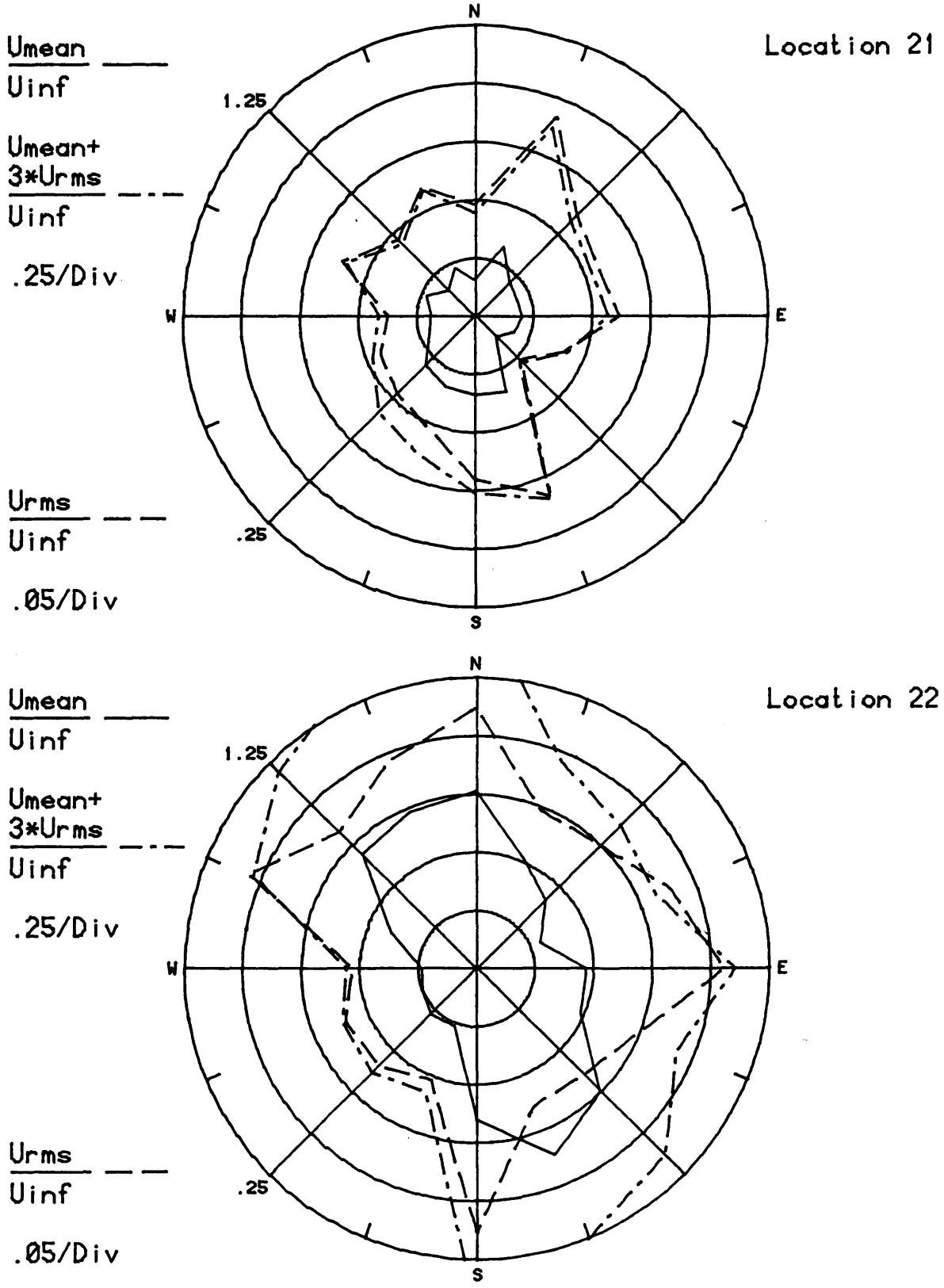



Figure 8k. Mean Velocities and Turbulence Intensities at Pedestrian Locations 21 and 22

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

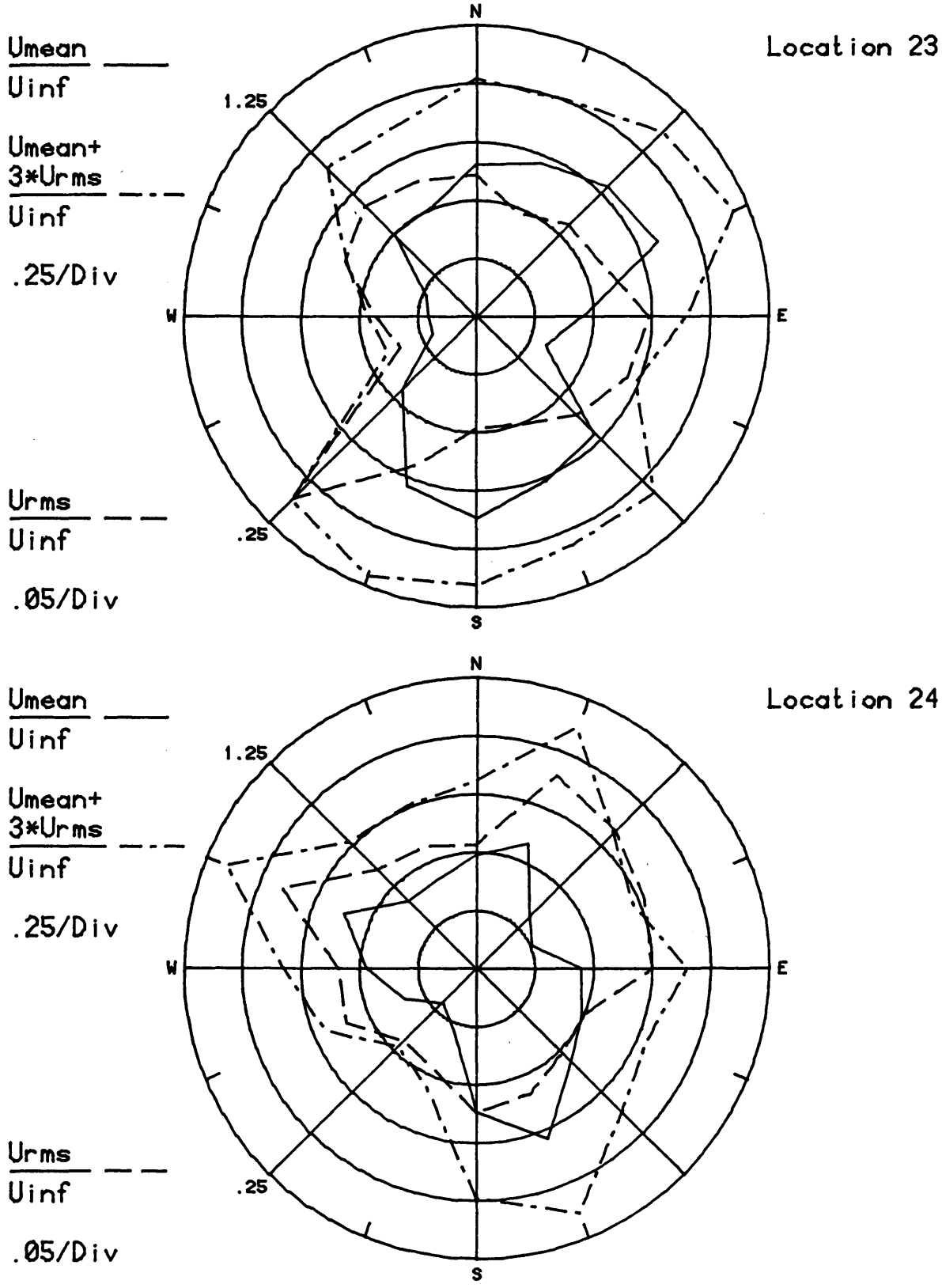



Figure 81. Mean Velocities and Turbulence Intensities at Pedestrian Locations 23 and 24

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A

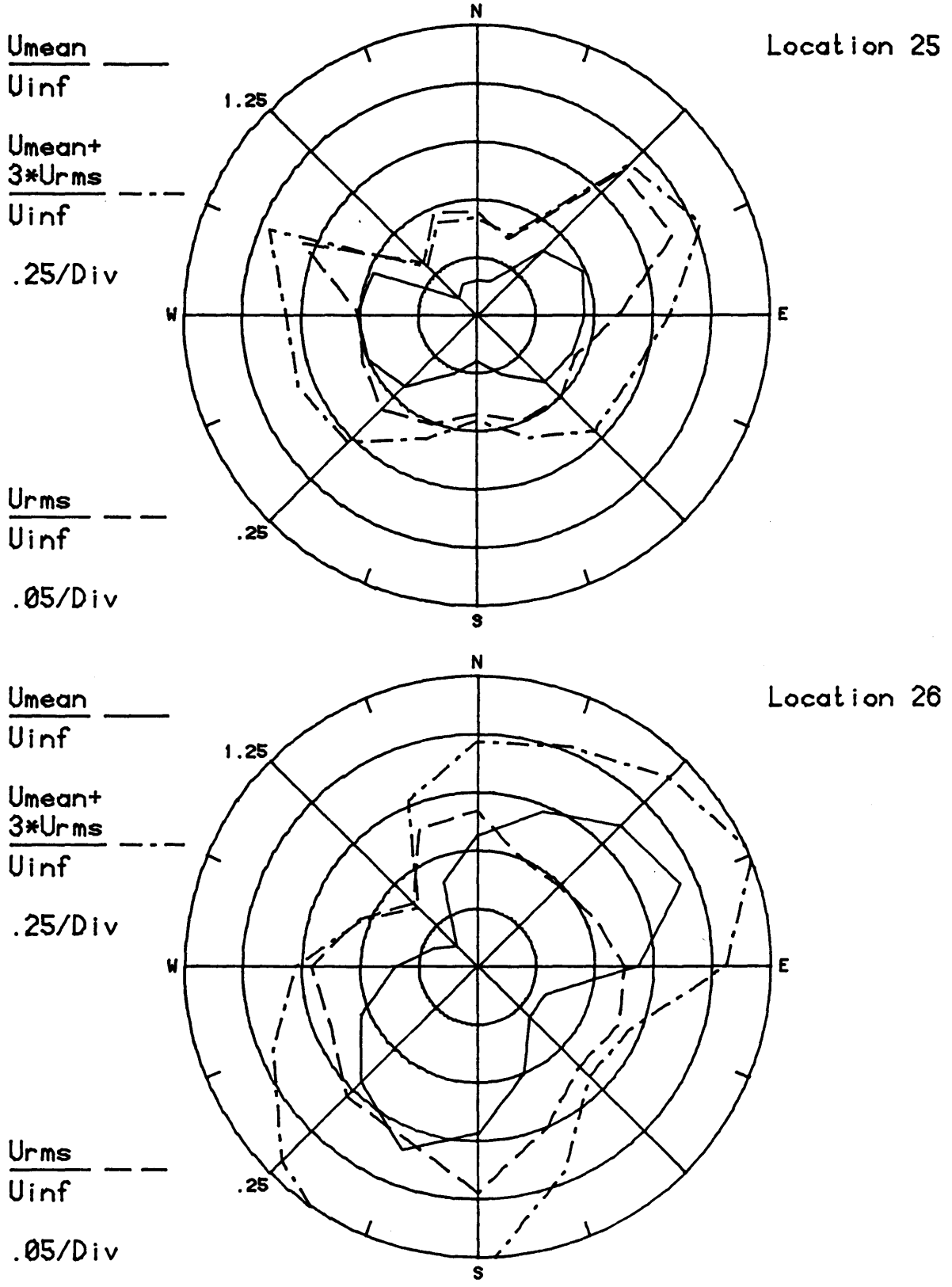
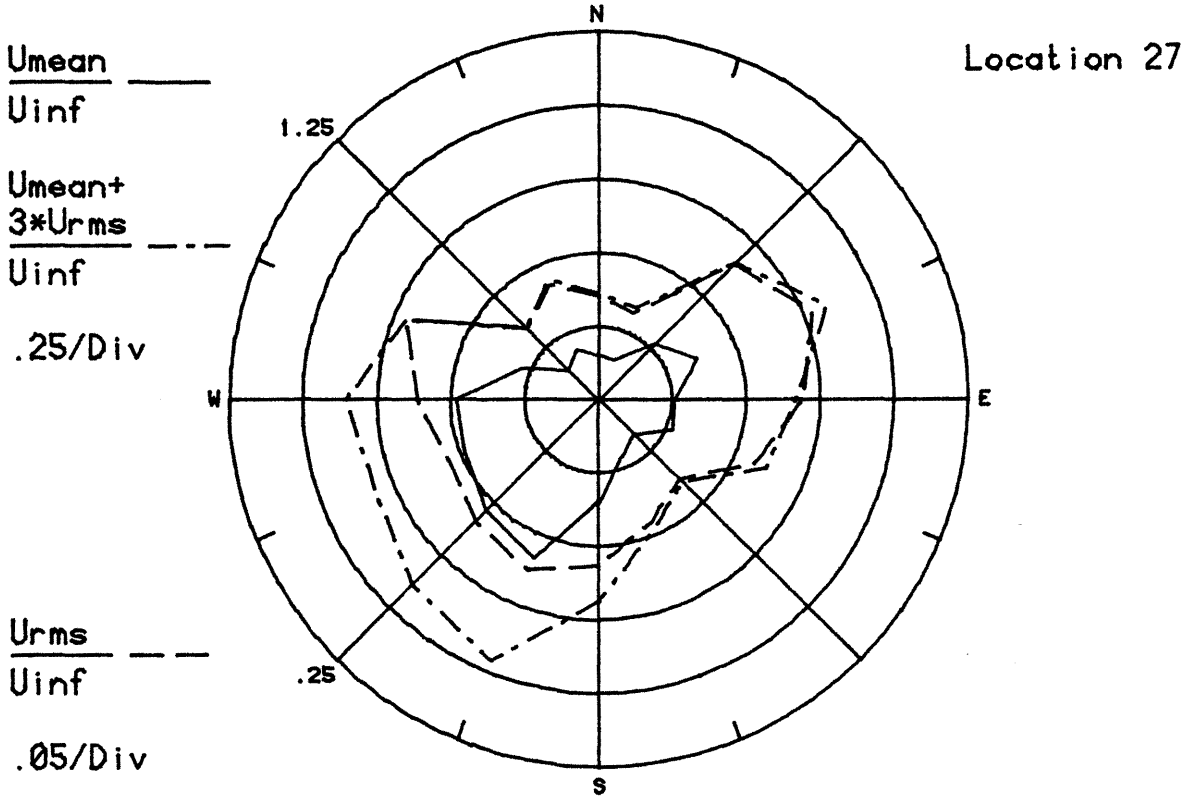



Figure 8m. Mean Velocities and Turbulence Intensities at Pedestrian Locations 25 and 26

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A



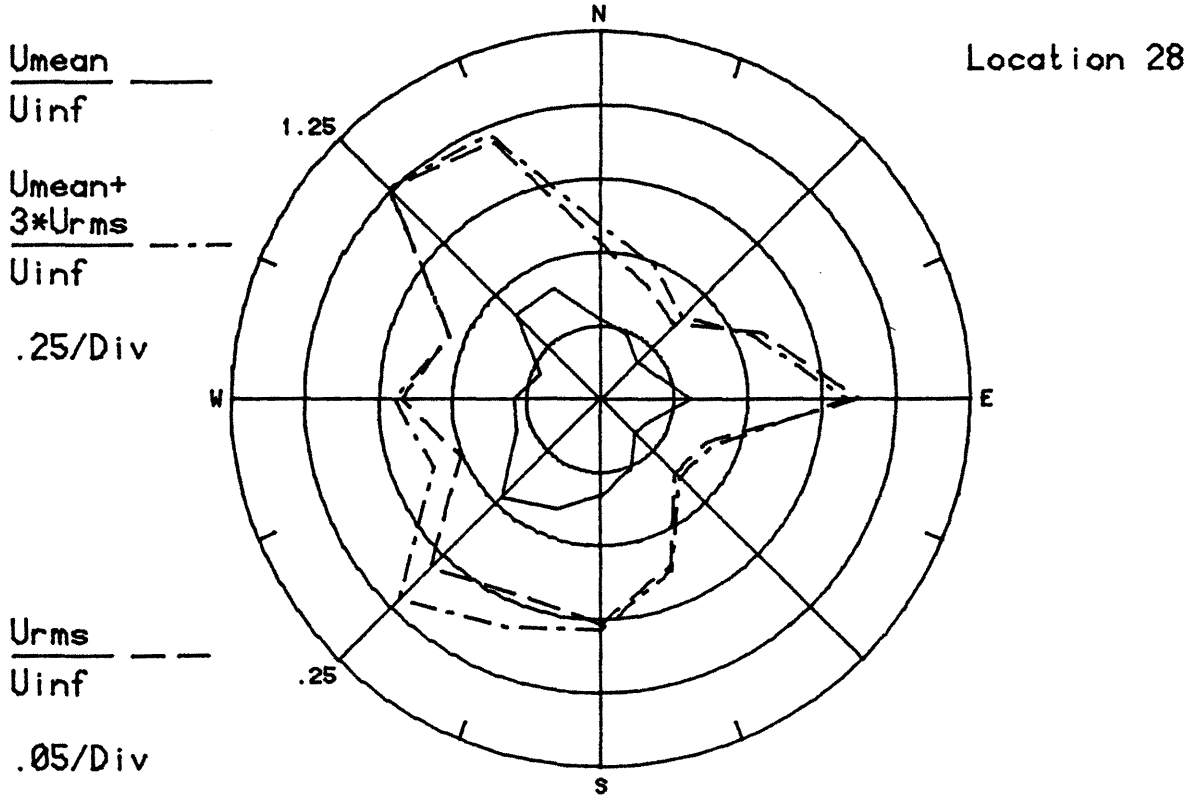
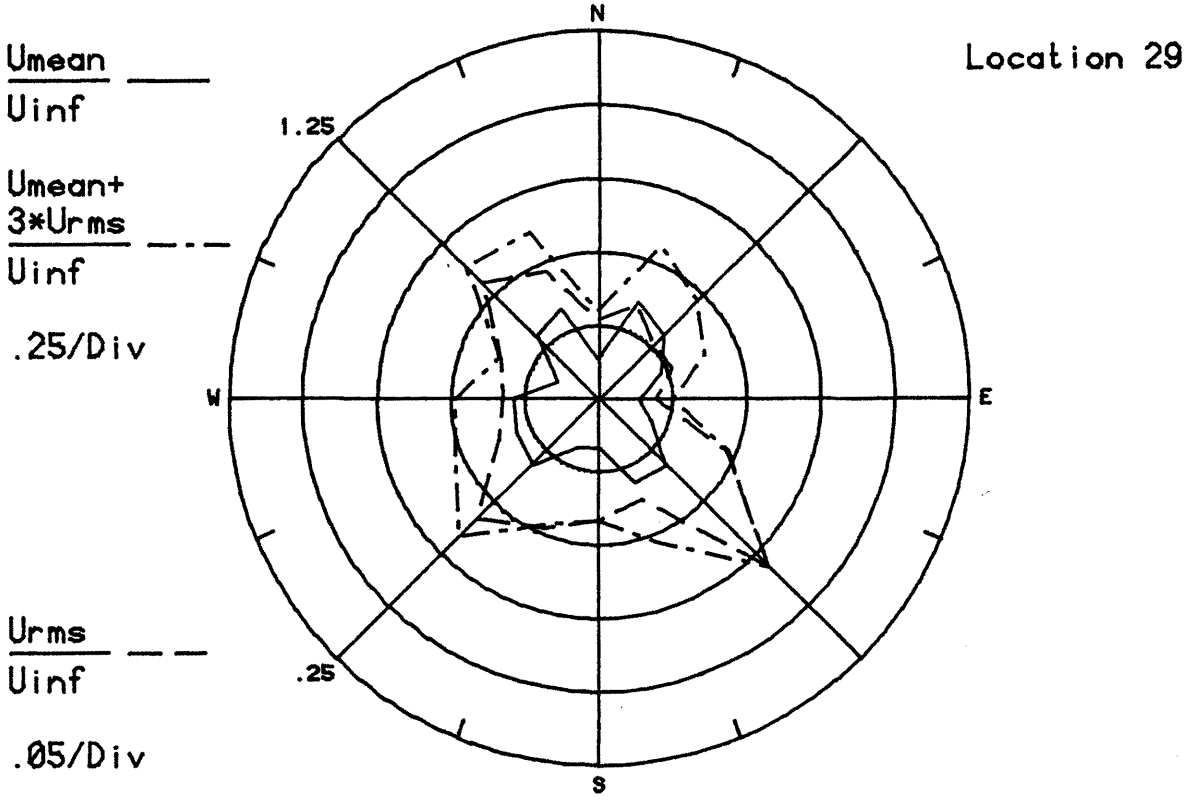




Figure 8n. Mean Velocities and Turbulence Intensities at Pedestrian Locations 27 and 28

THREE LAKEWAY CENTER IN PLACE - CONFIGURATION A



THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

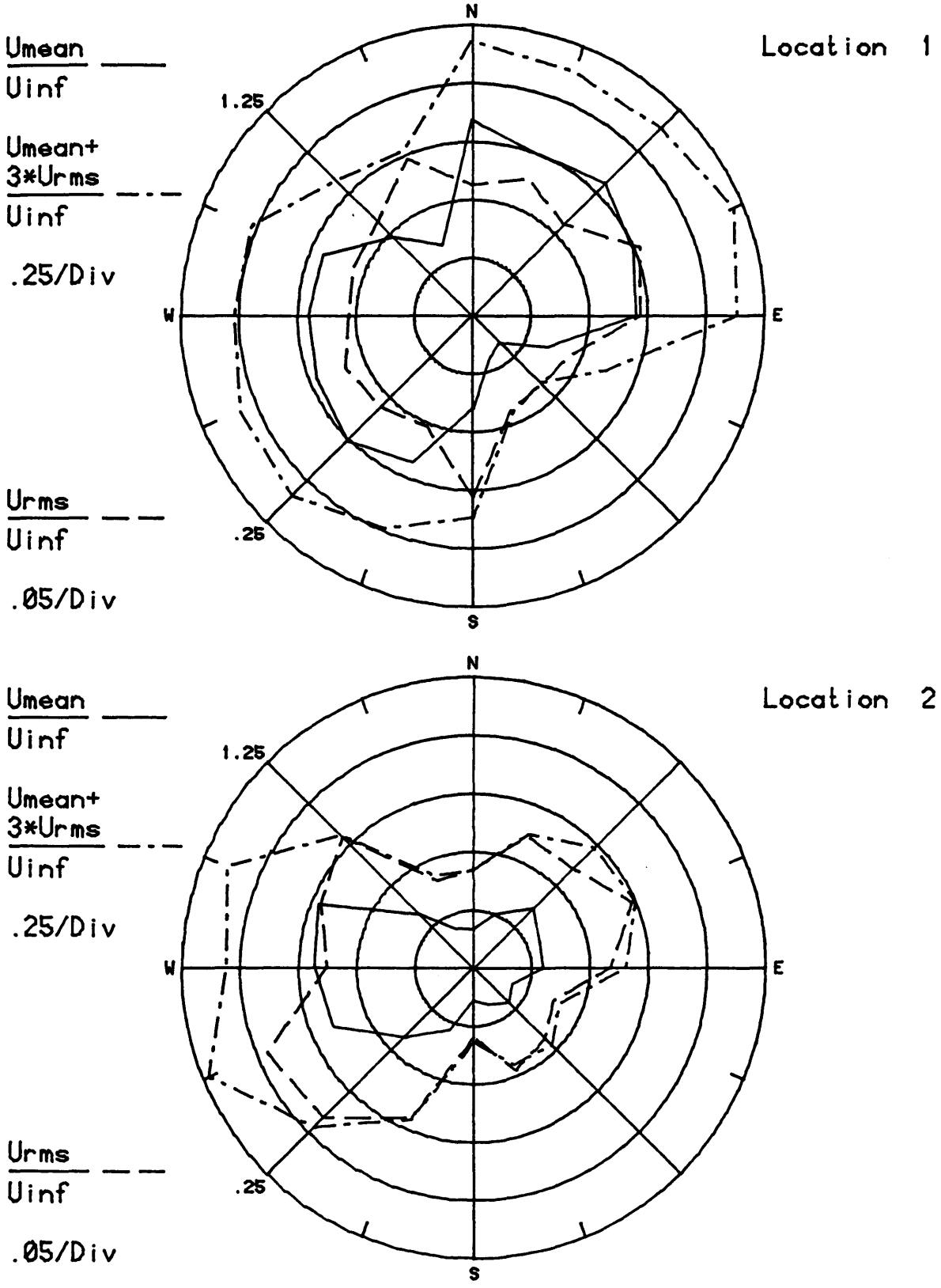



Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

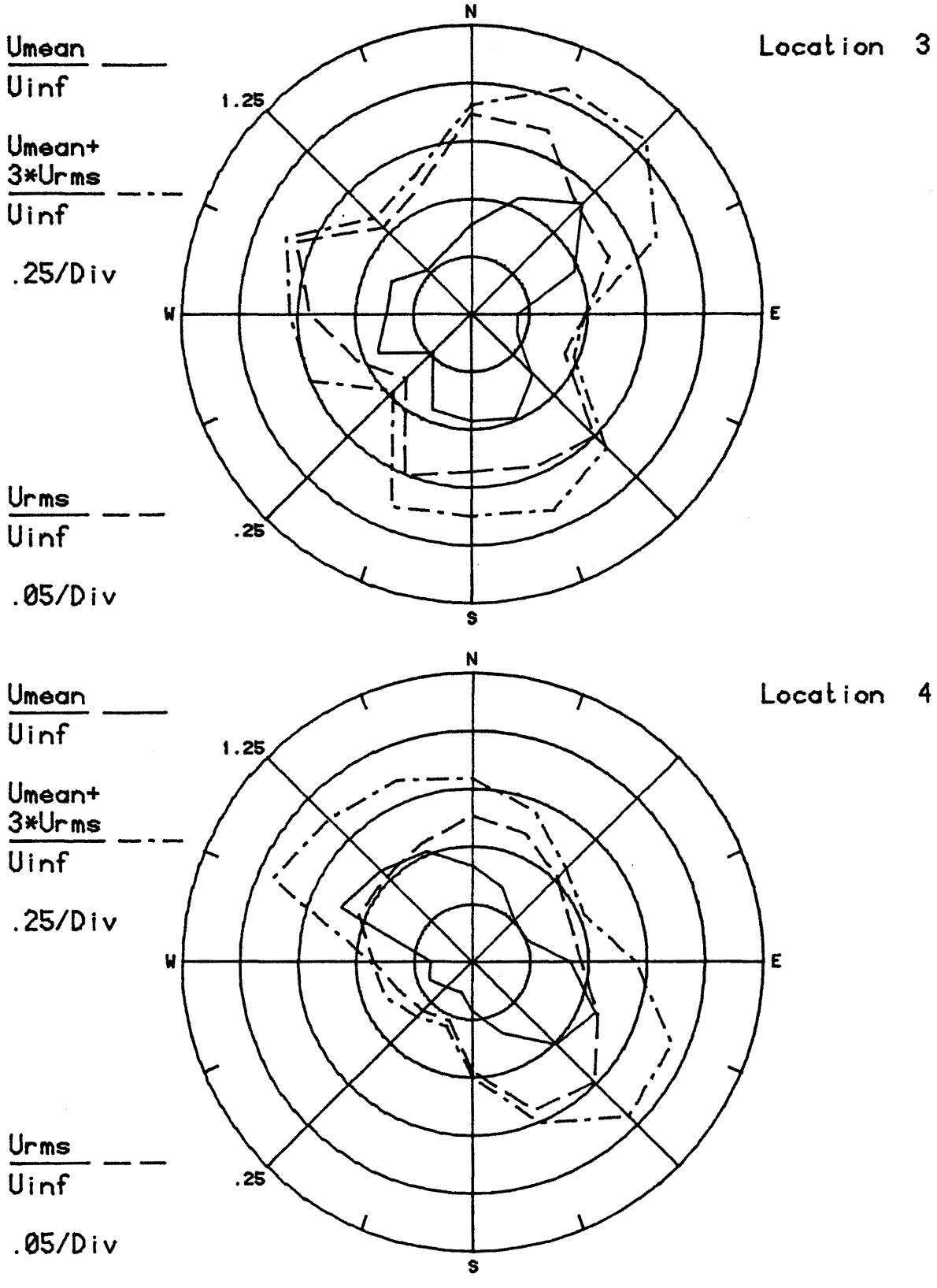



Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

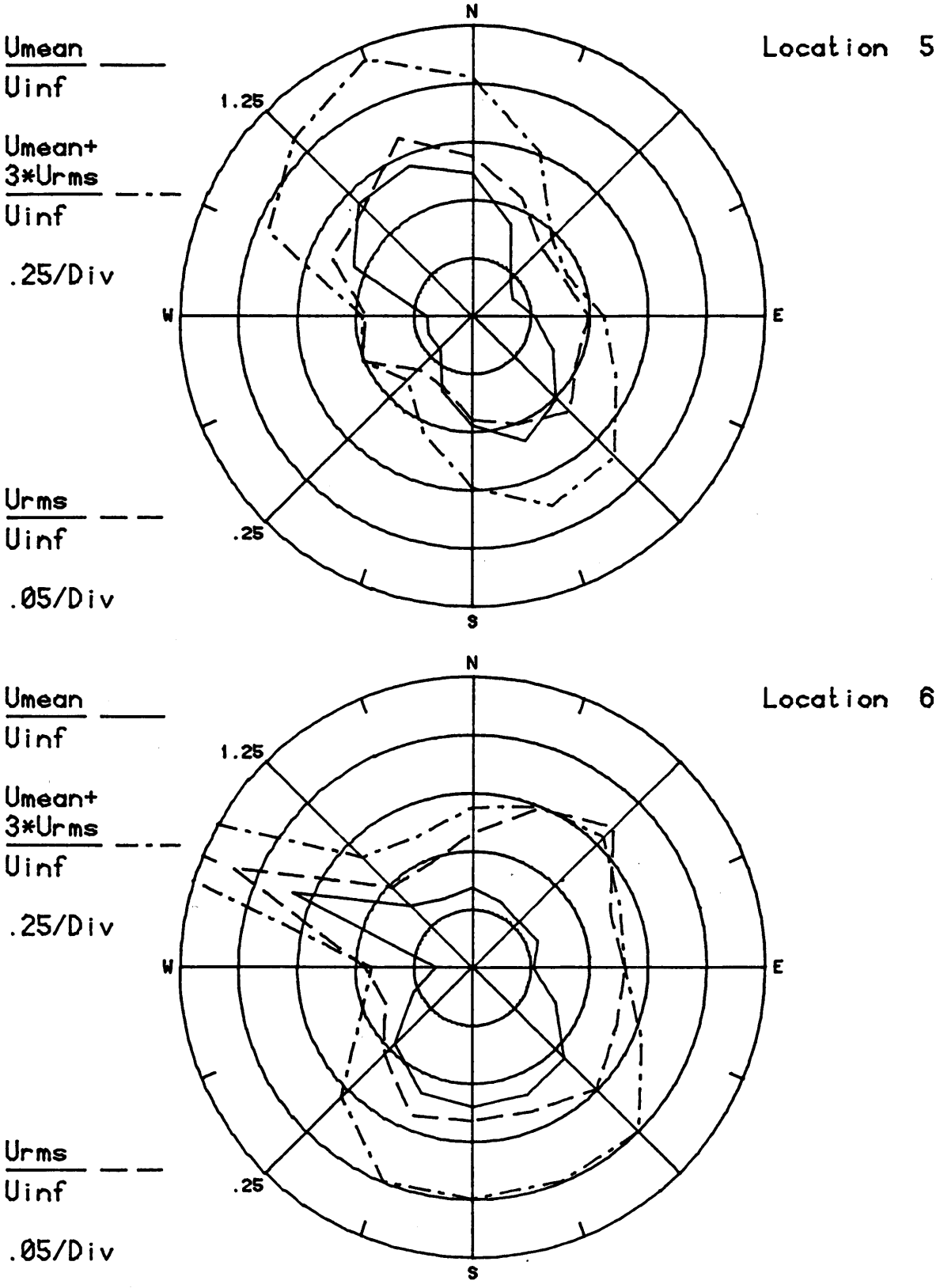



Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

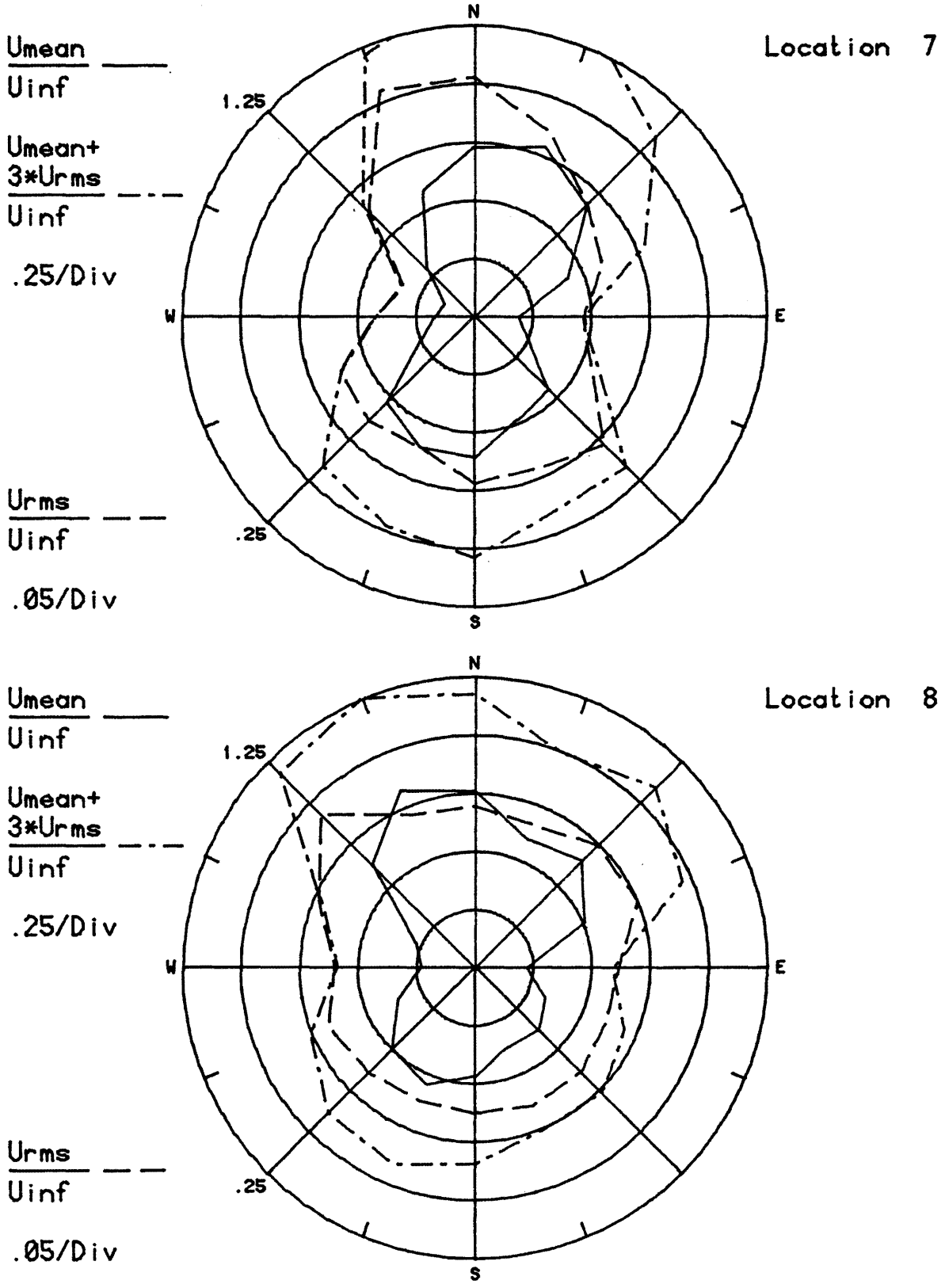
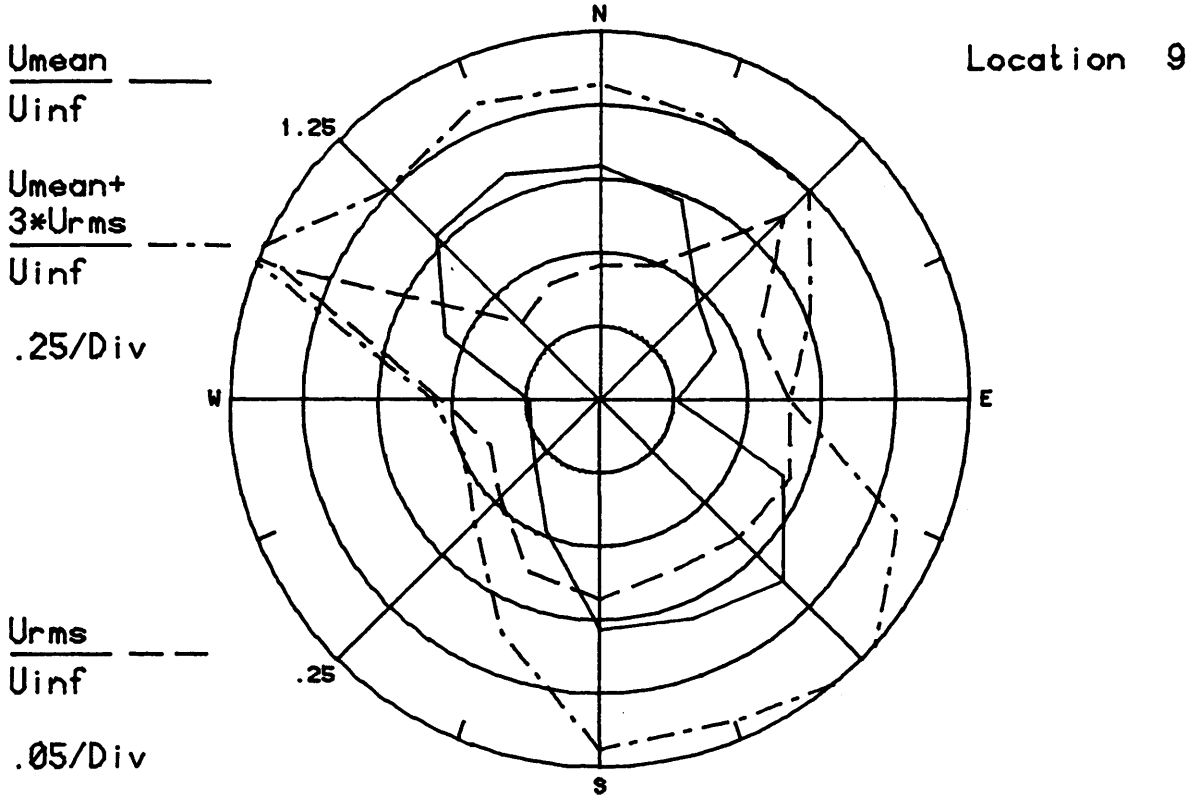



Figure 8d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D



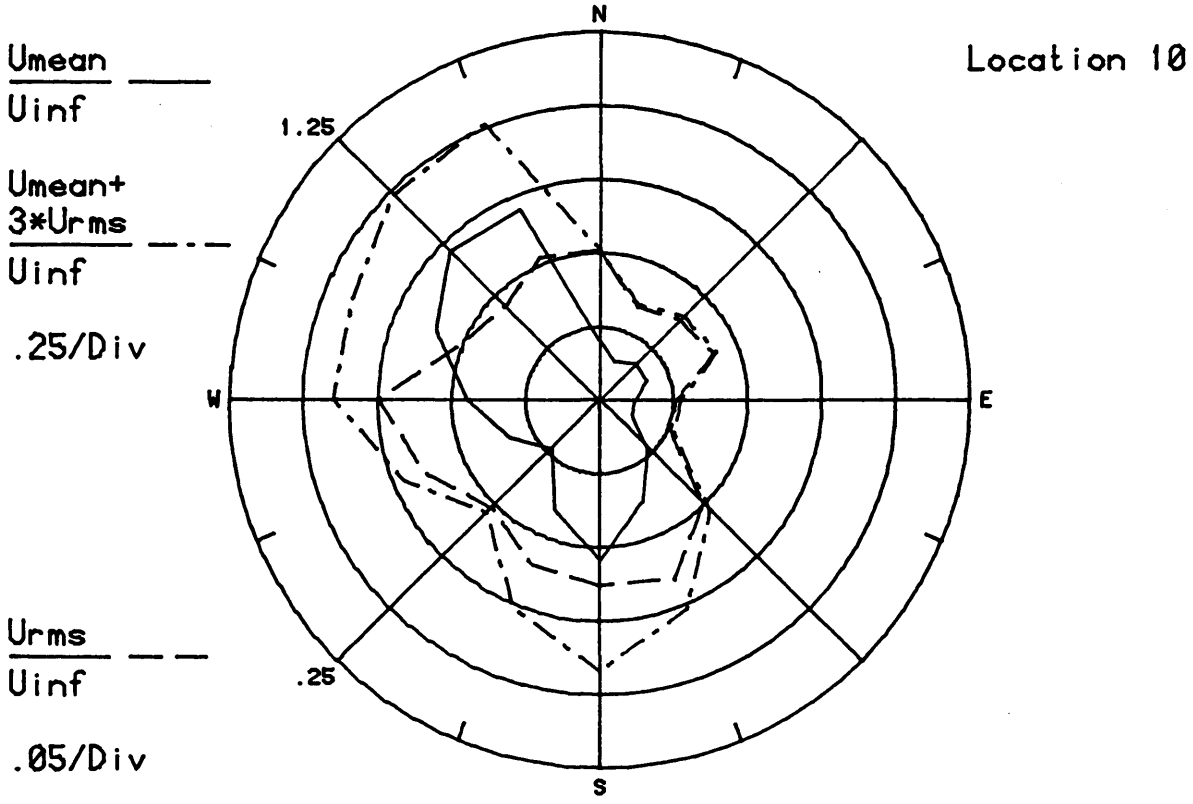




Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

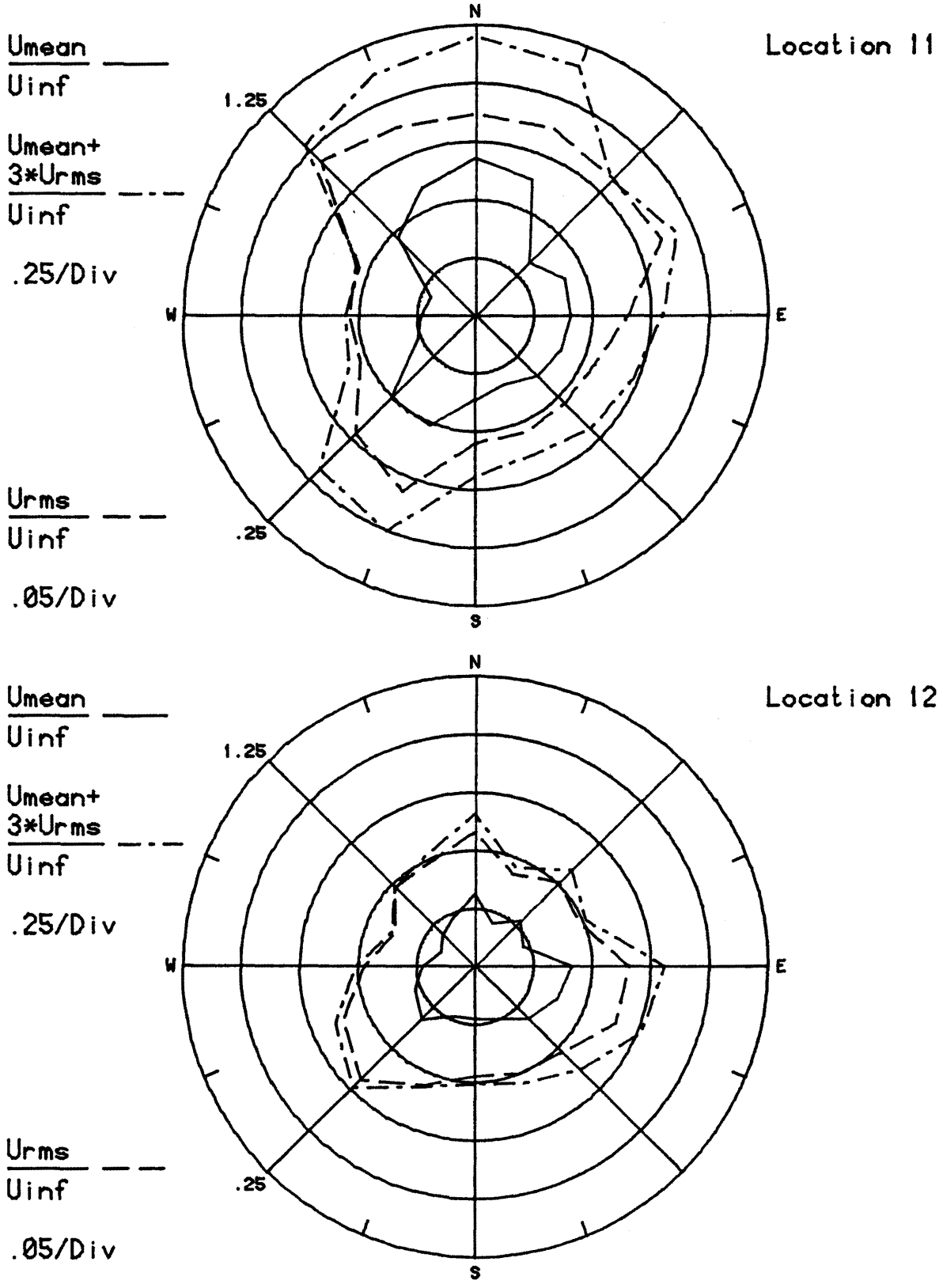



Figure 8f. Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

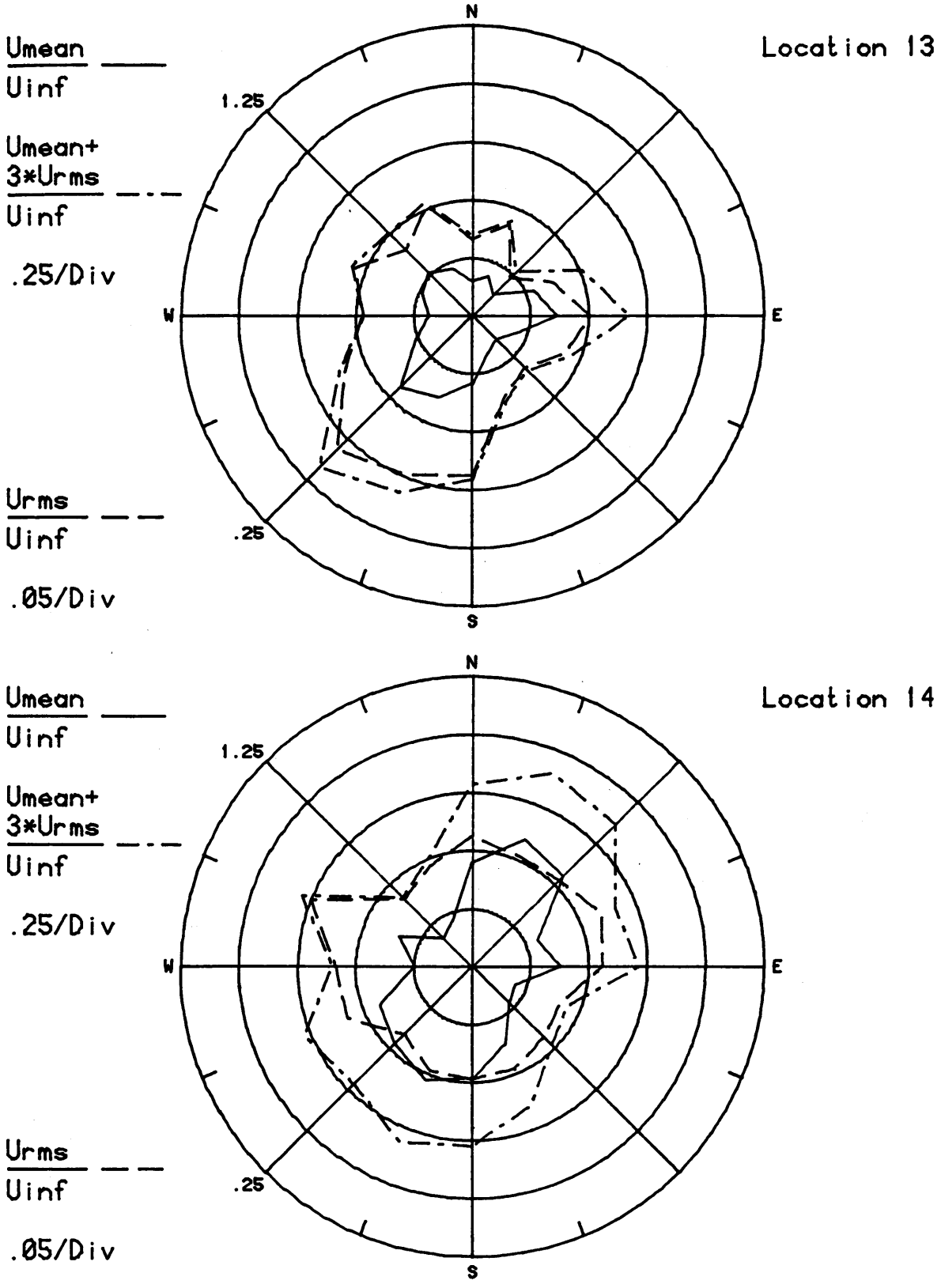



Figure 8g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

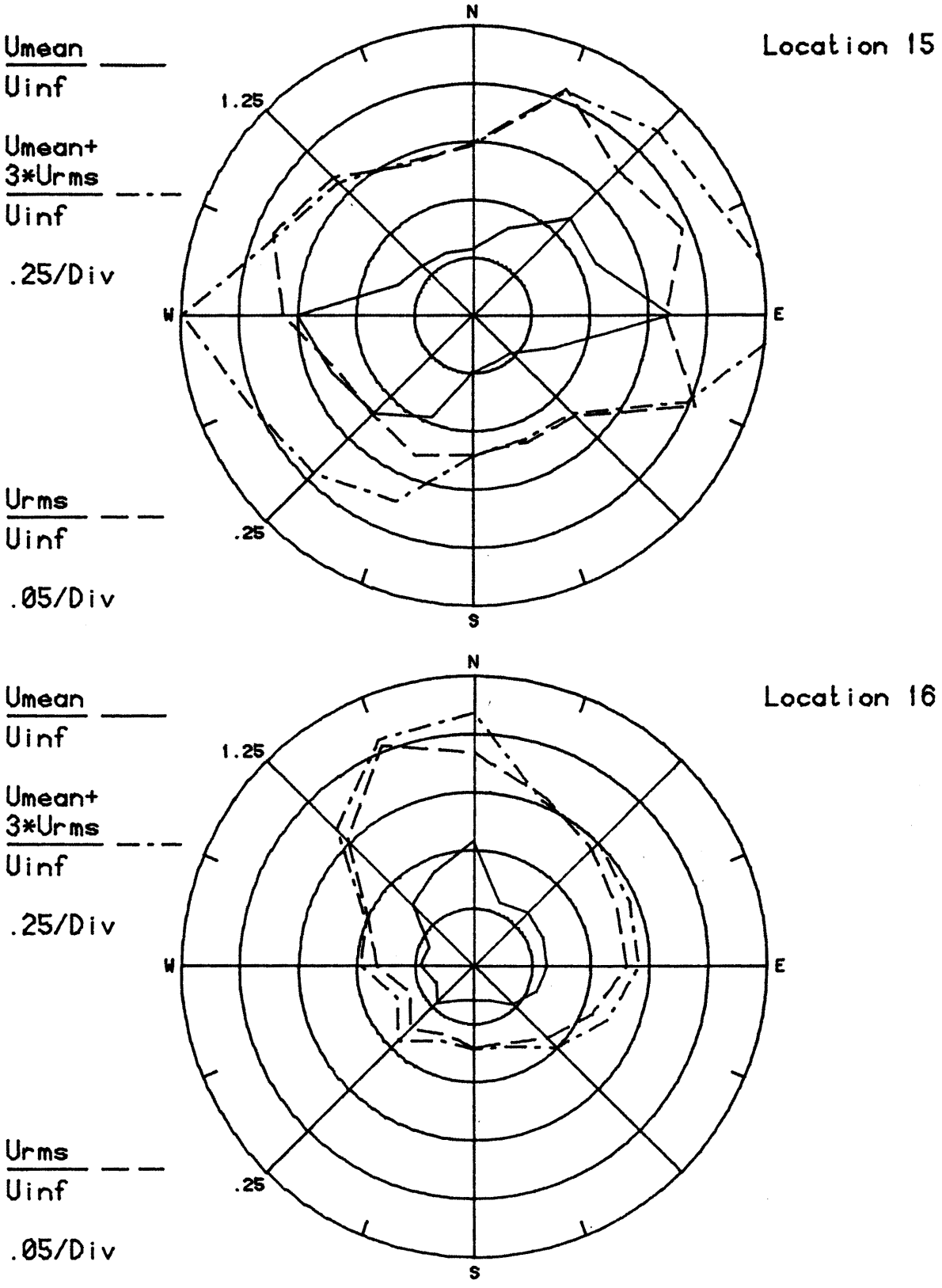



Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D

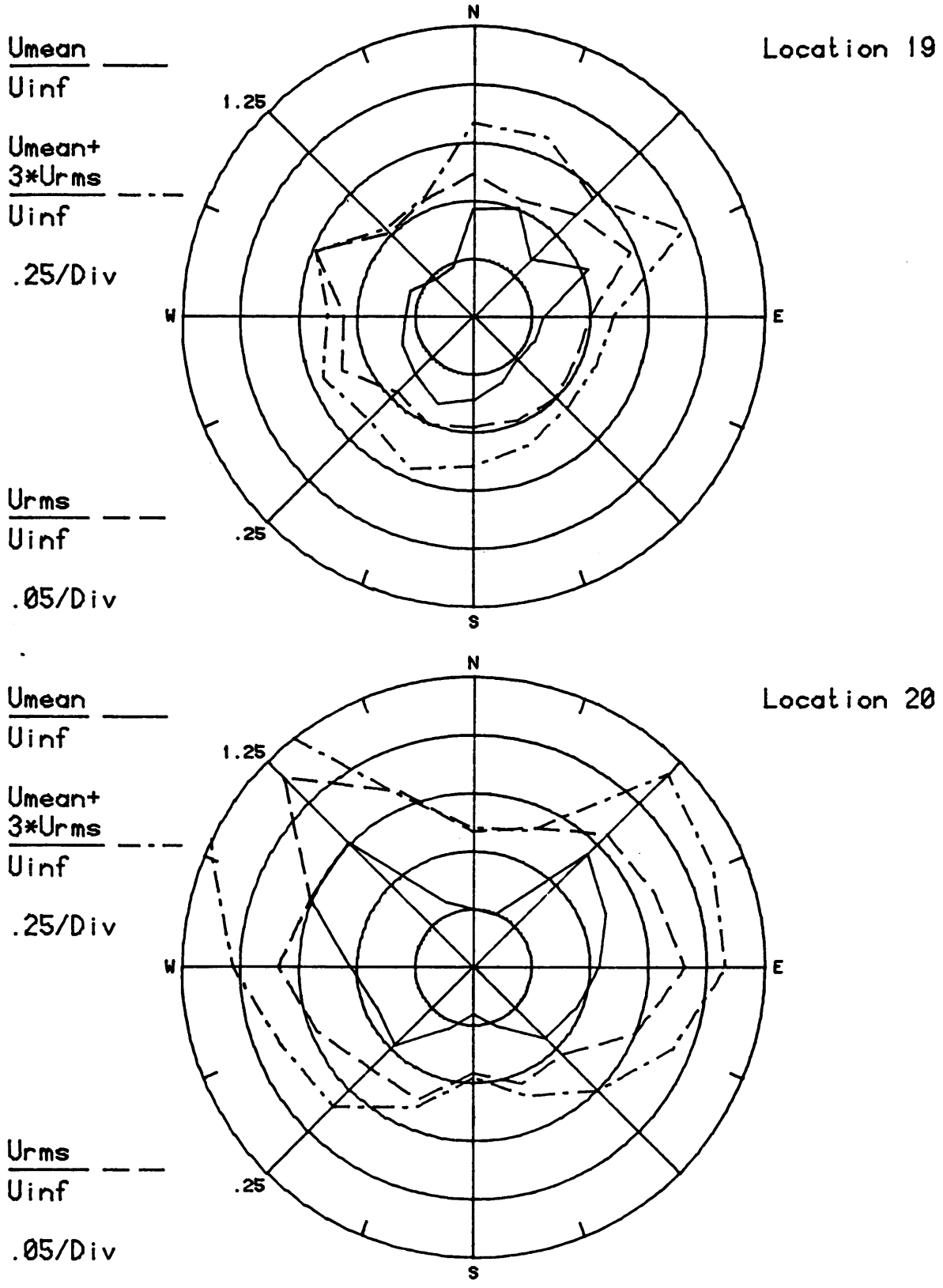
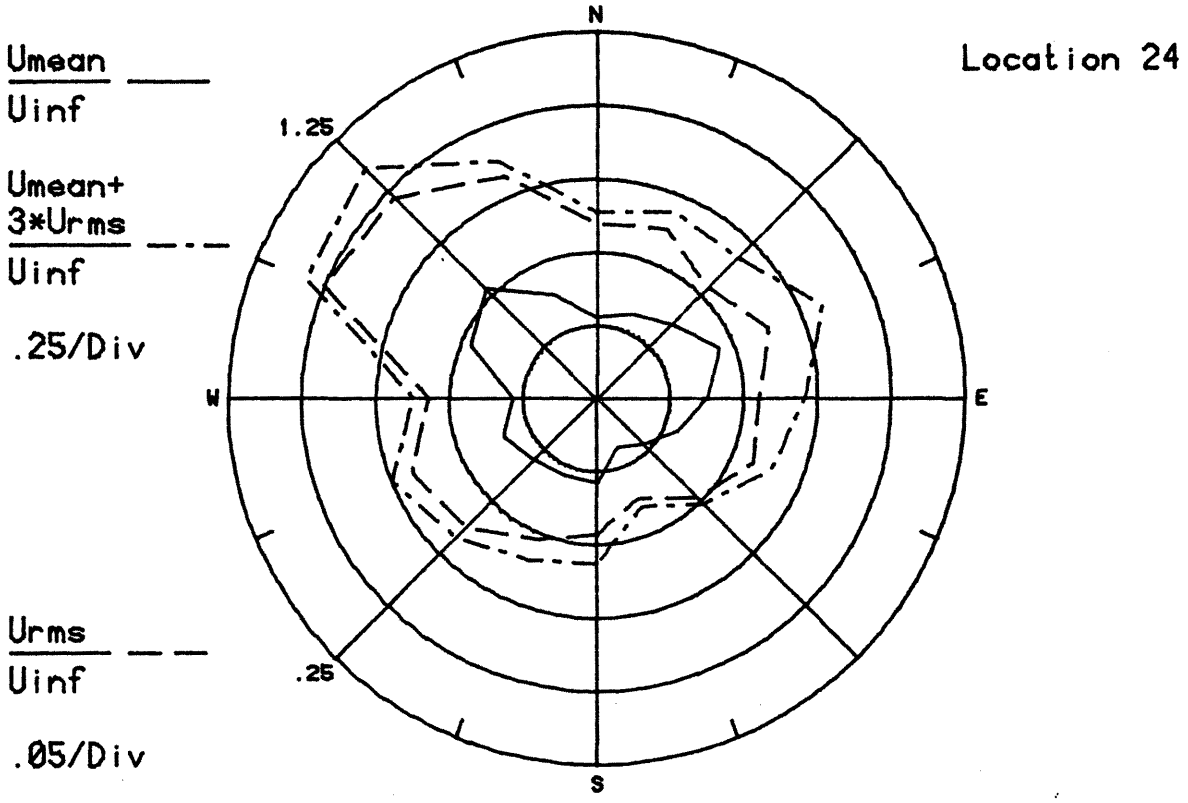



Figure 8i. Mean Velocities and Turbulence Intensities at Pedestrian Locations 19 and 20

THREE LAKEWAY CENTER NOT IN PLACE - CONFIGURATION D



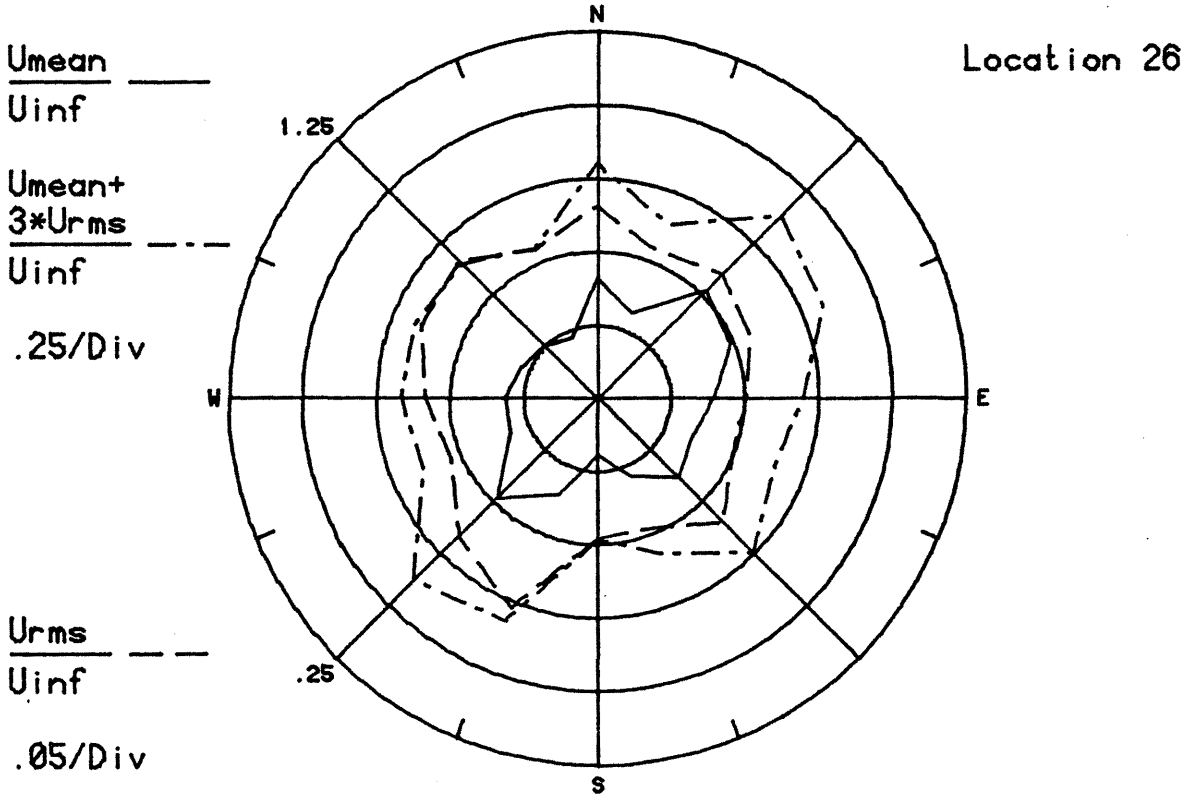




Figure 8j. Mean Velocities and Turbulence Intensities at Pedestrian Locations 24 and 26

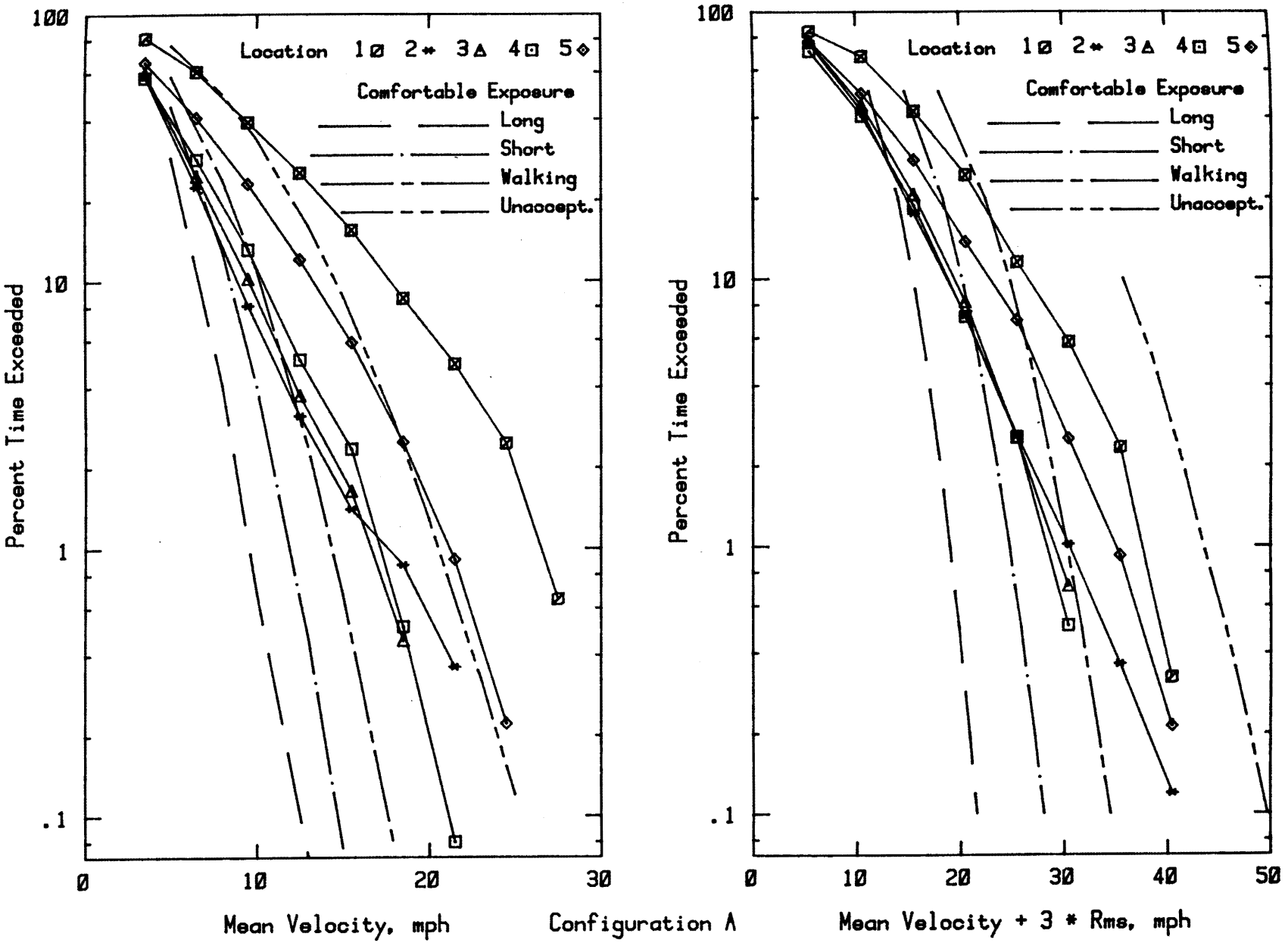



Figure 9a. Wind Velocity Probabilities for Pedestrian Locations

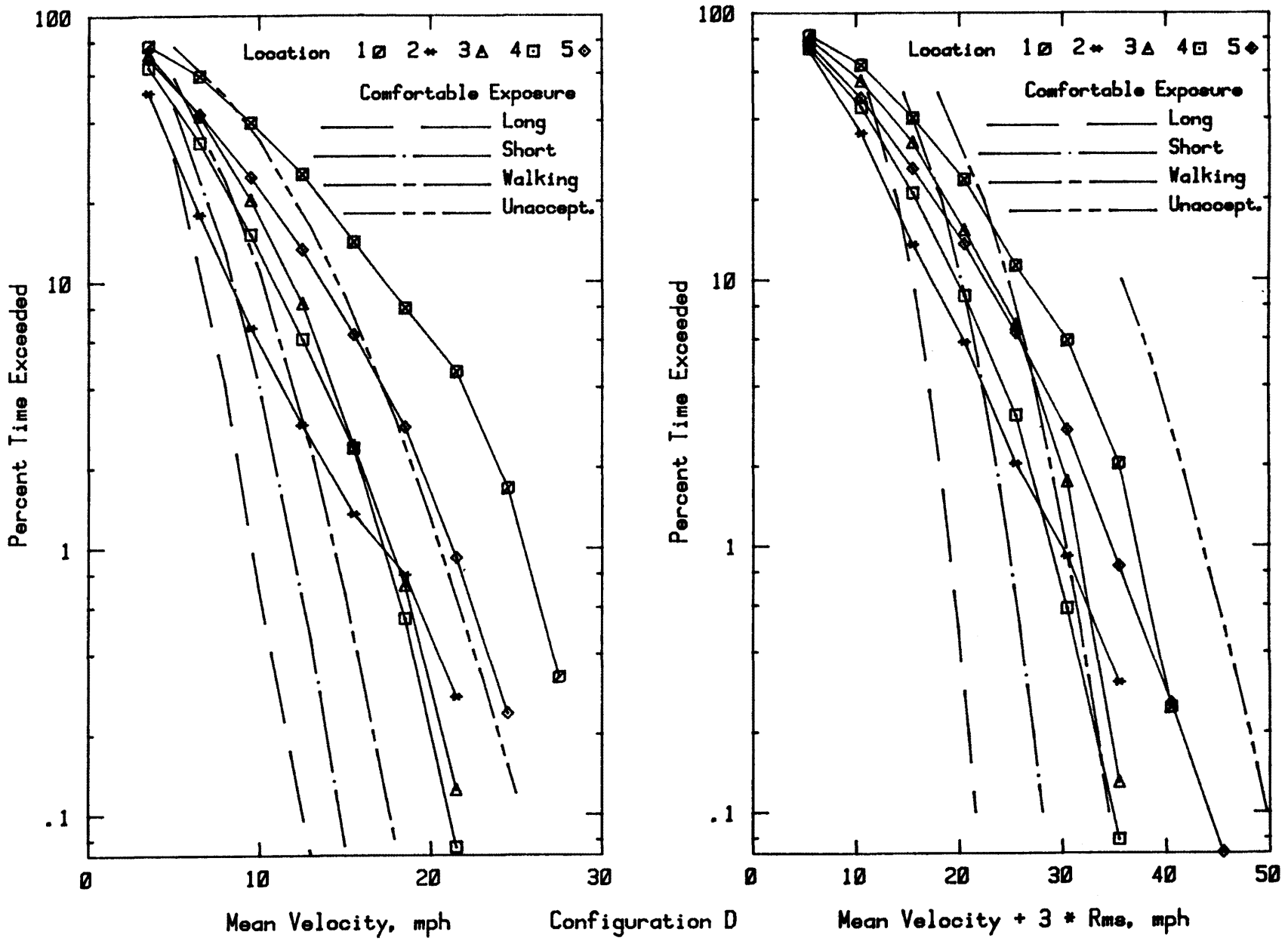



Figure 9b. Wind Velocity Probabilities for Pedestrian Locations

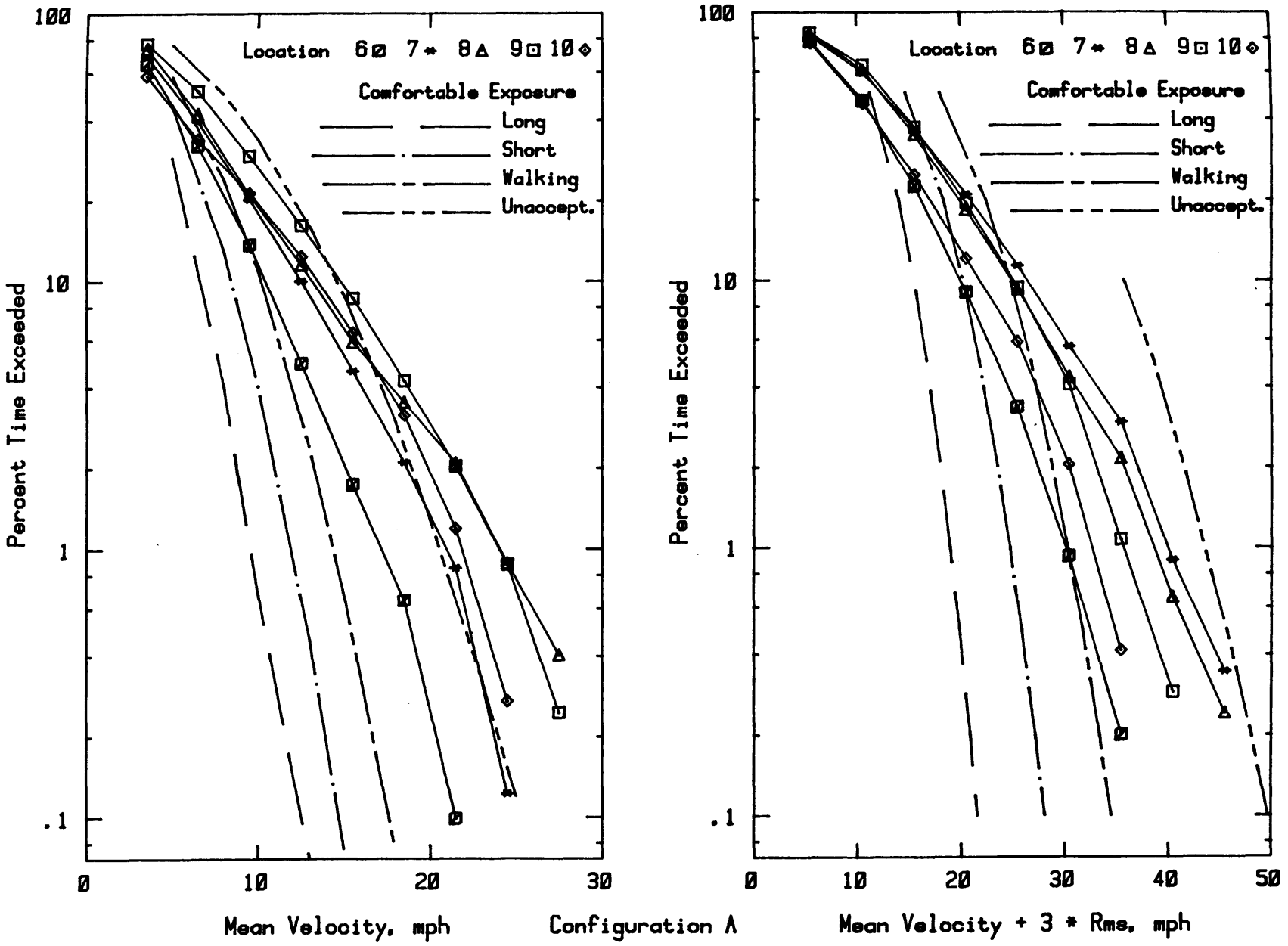



Figure 9c. Wind Velocity Probabilities for Pedestrian Locations

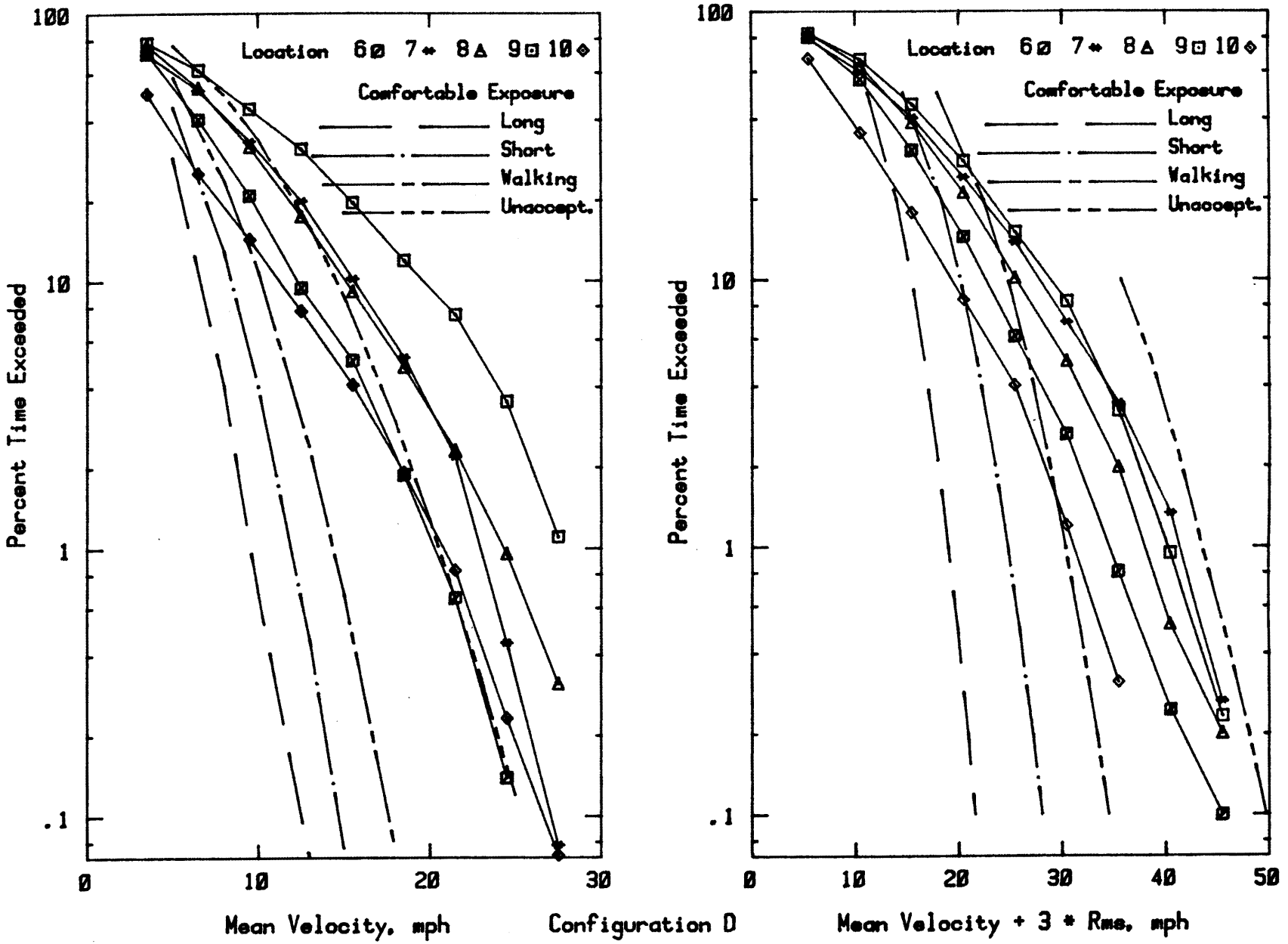



Figure 9d. Wind Velocity Probabilities for Pedestrian Locations

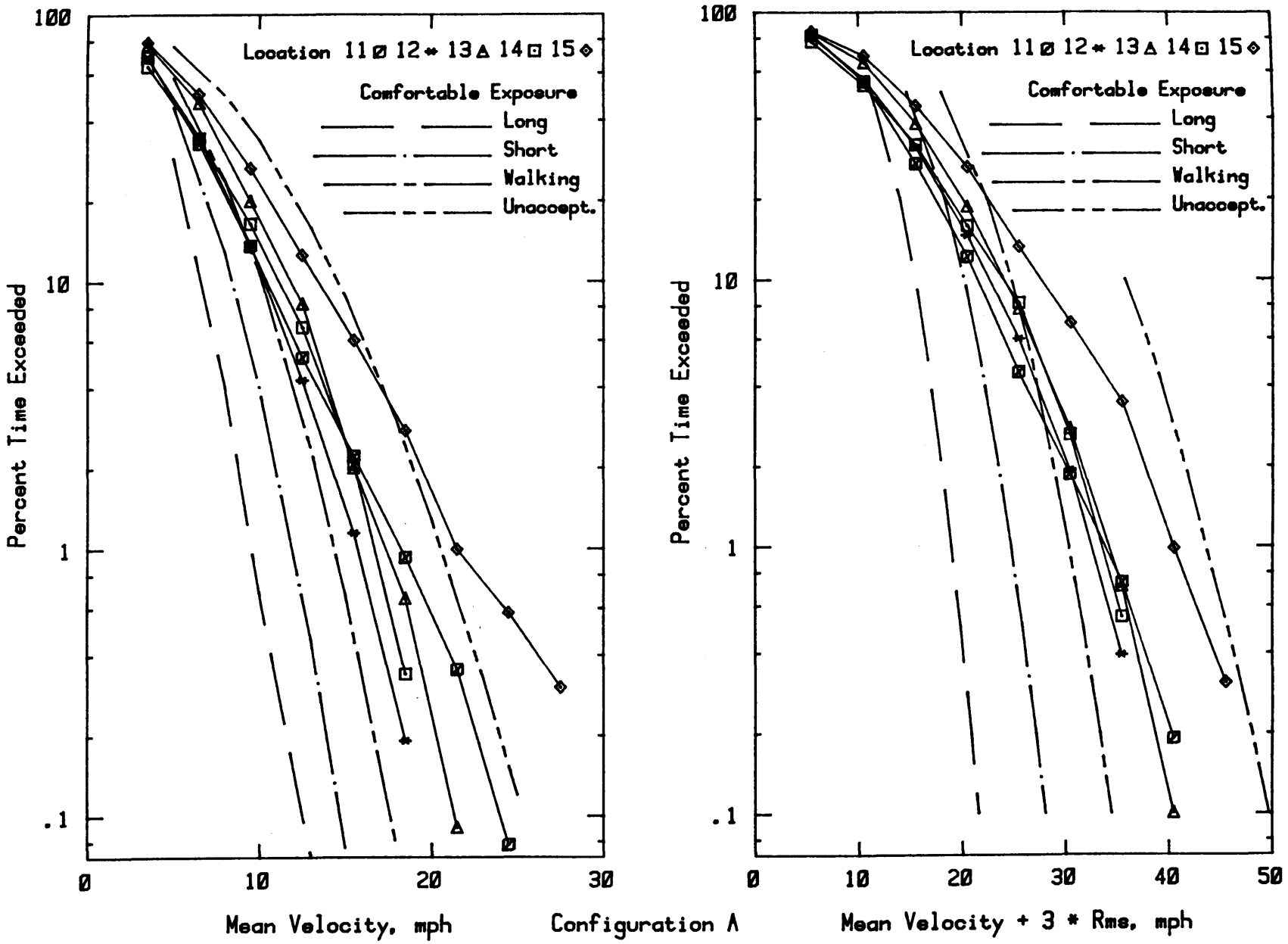



Figure 9e. Wind Velocity Probabilities for Pedestrian Locations

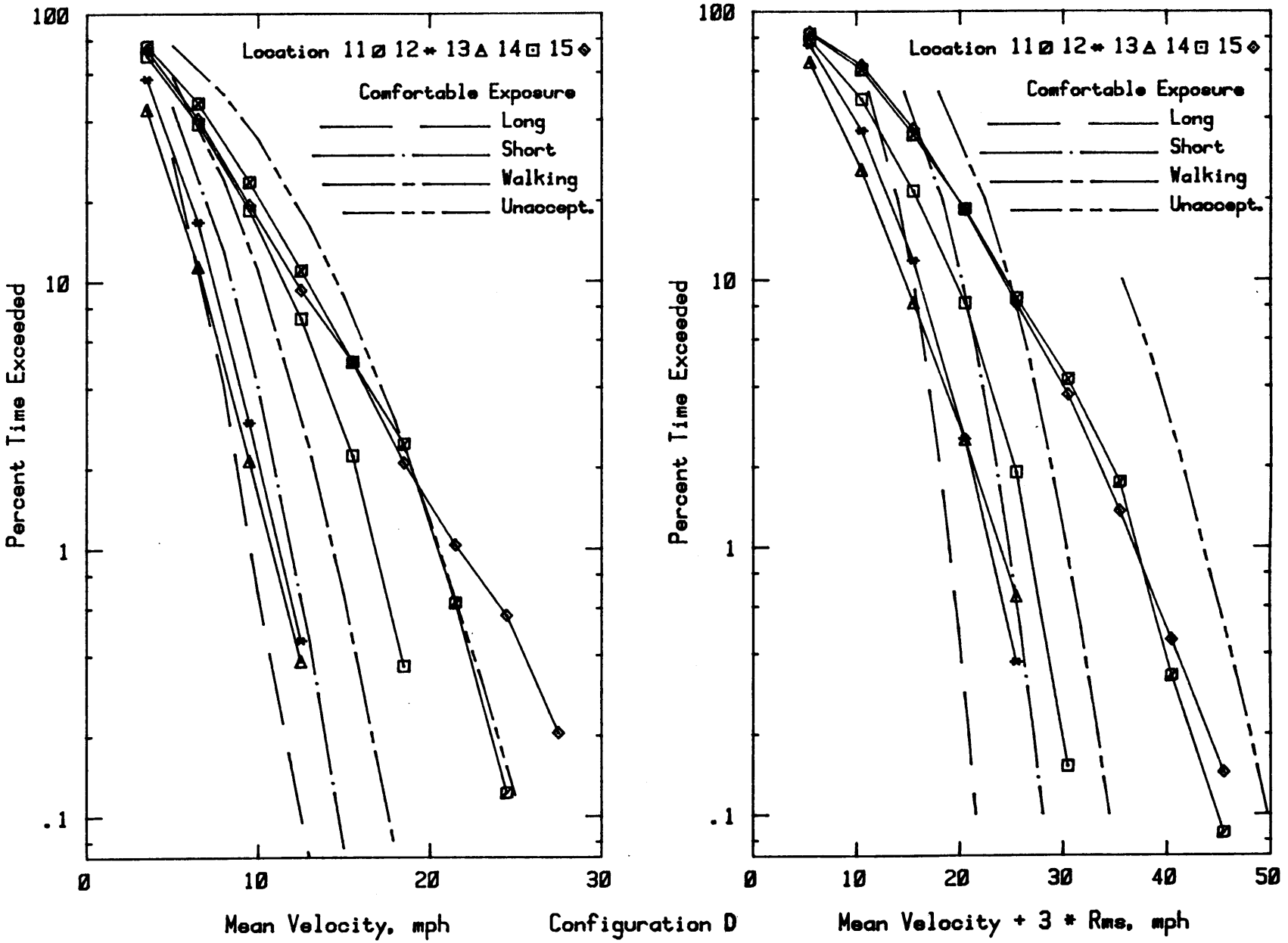



Figure 9f. Wind Velocity Probabilities for Pedestrian Locations

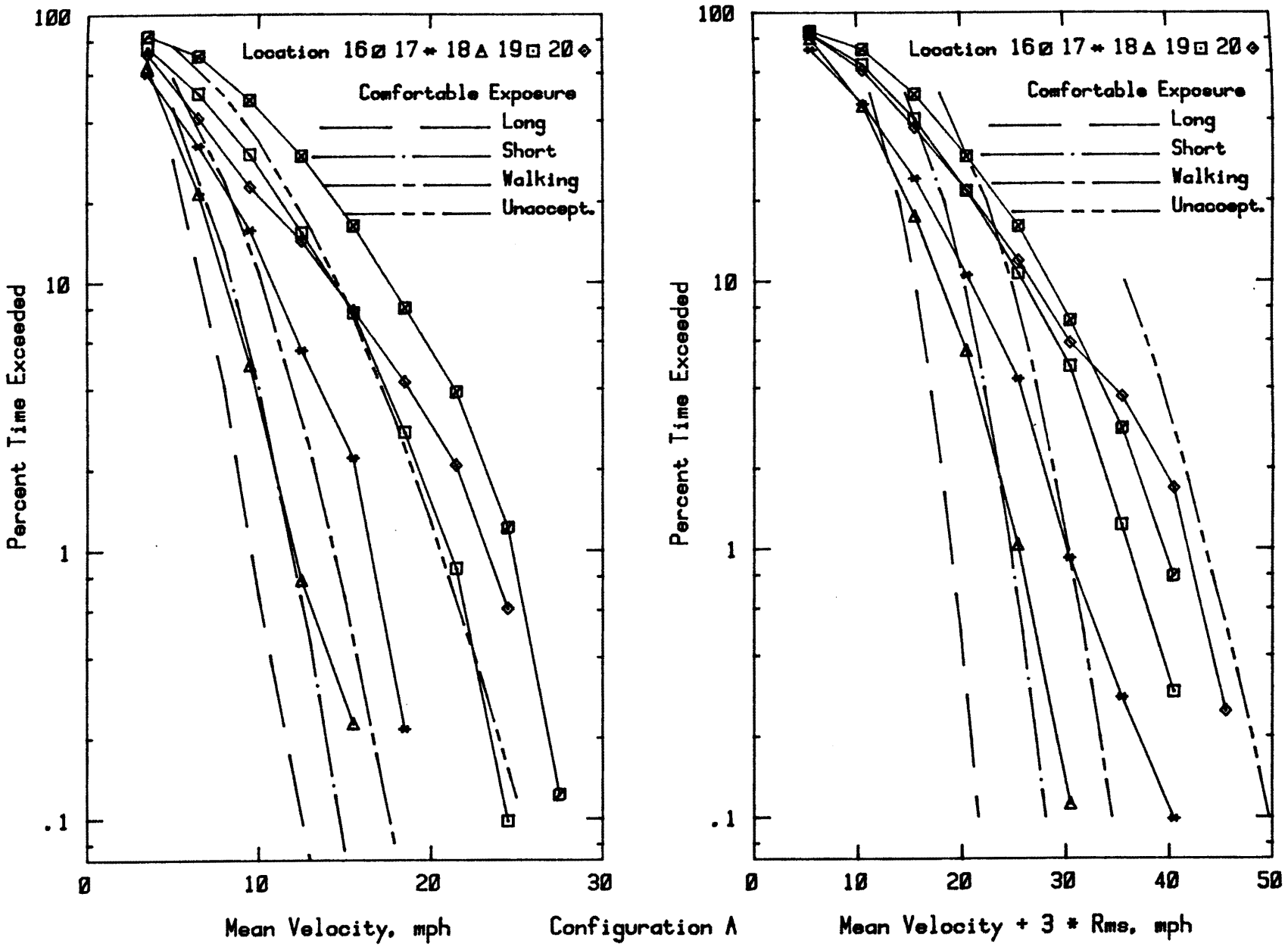



Figure 9g. Wind Velocity Probabilities for Pedestrian Locations

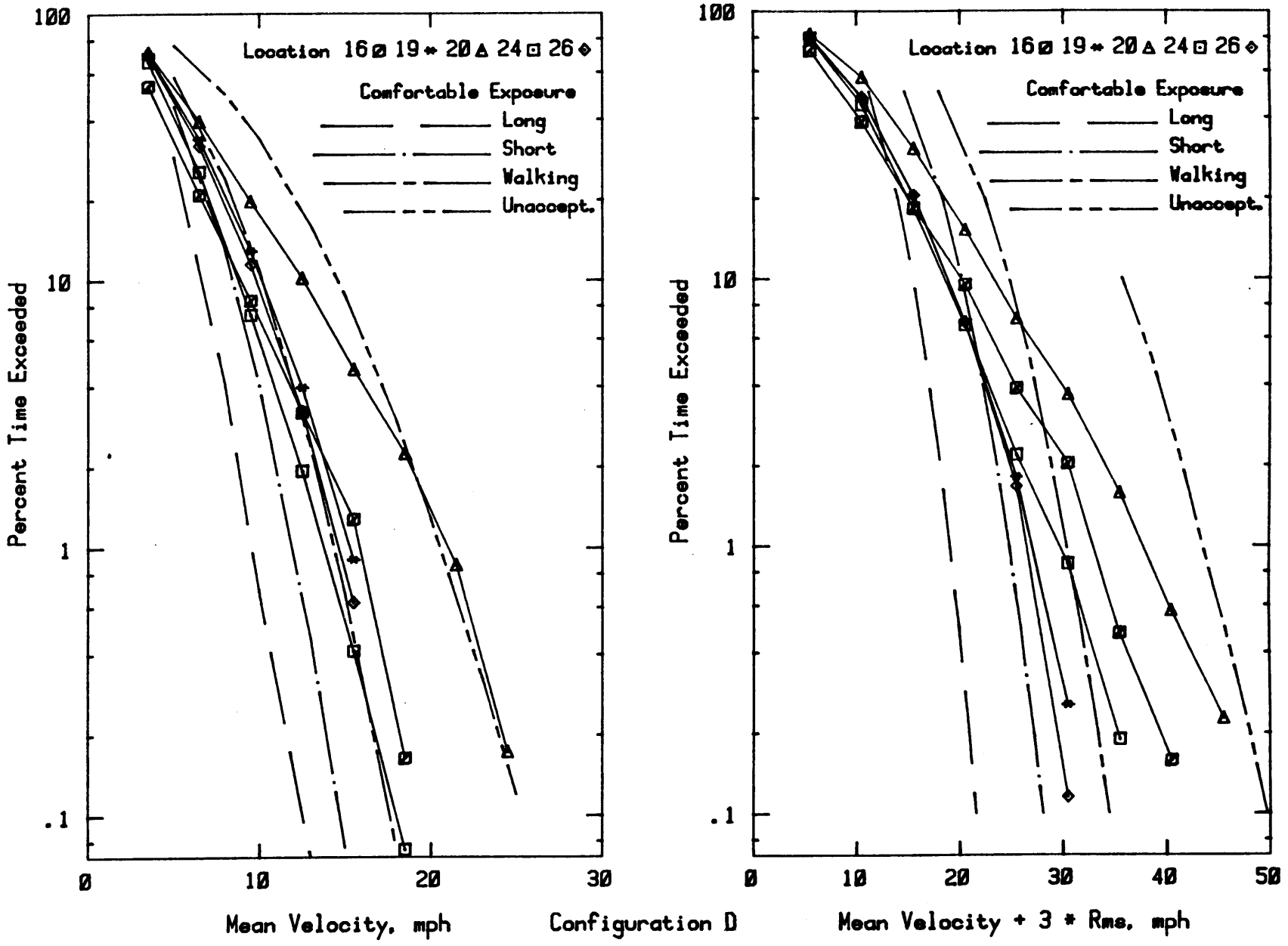



Figure 9h. Wind Velocity Probabilities for Pedestrian Locations

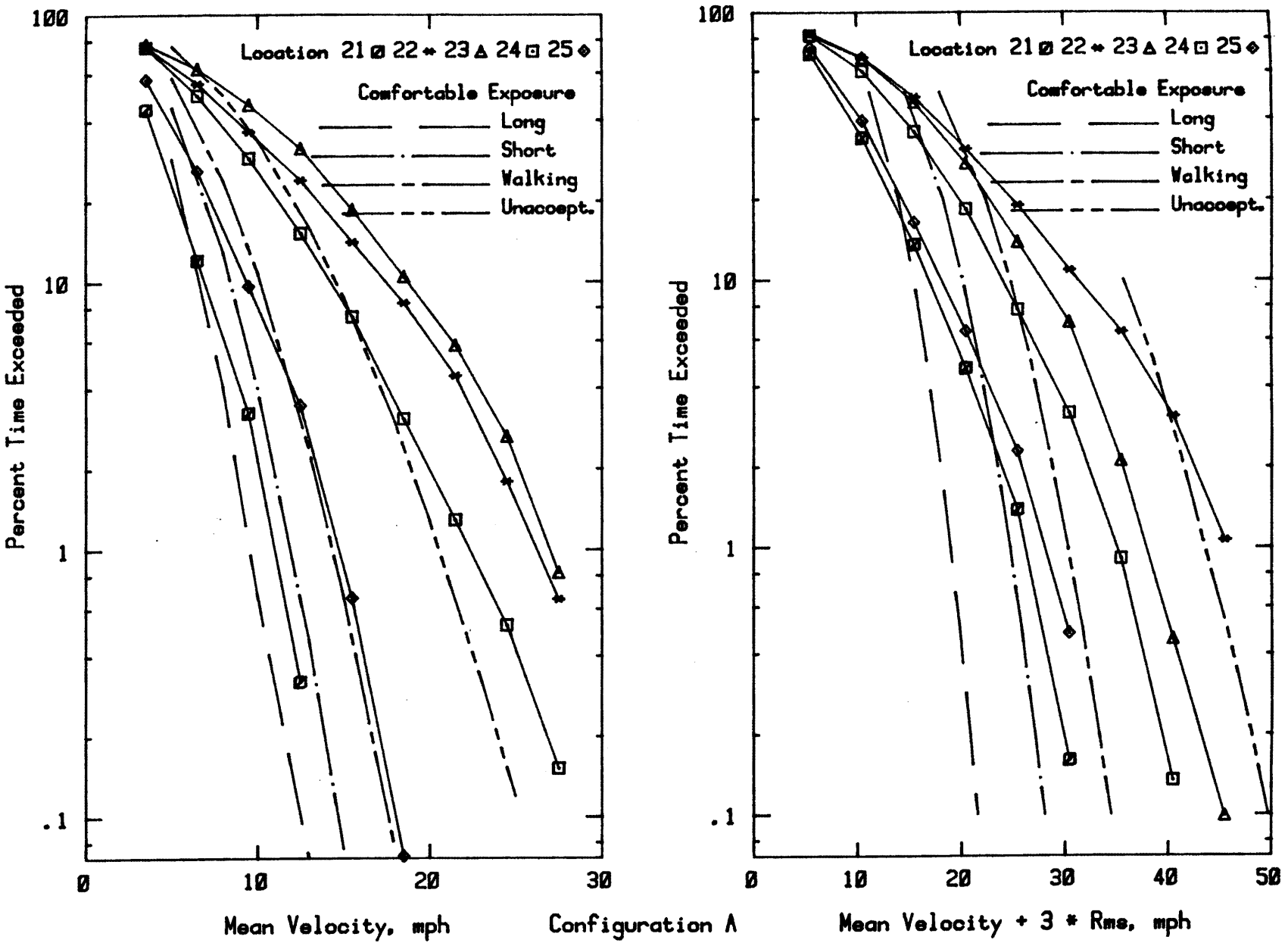



Figure 9i. Wind Velocity Probabilities for Pedestrian Locations

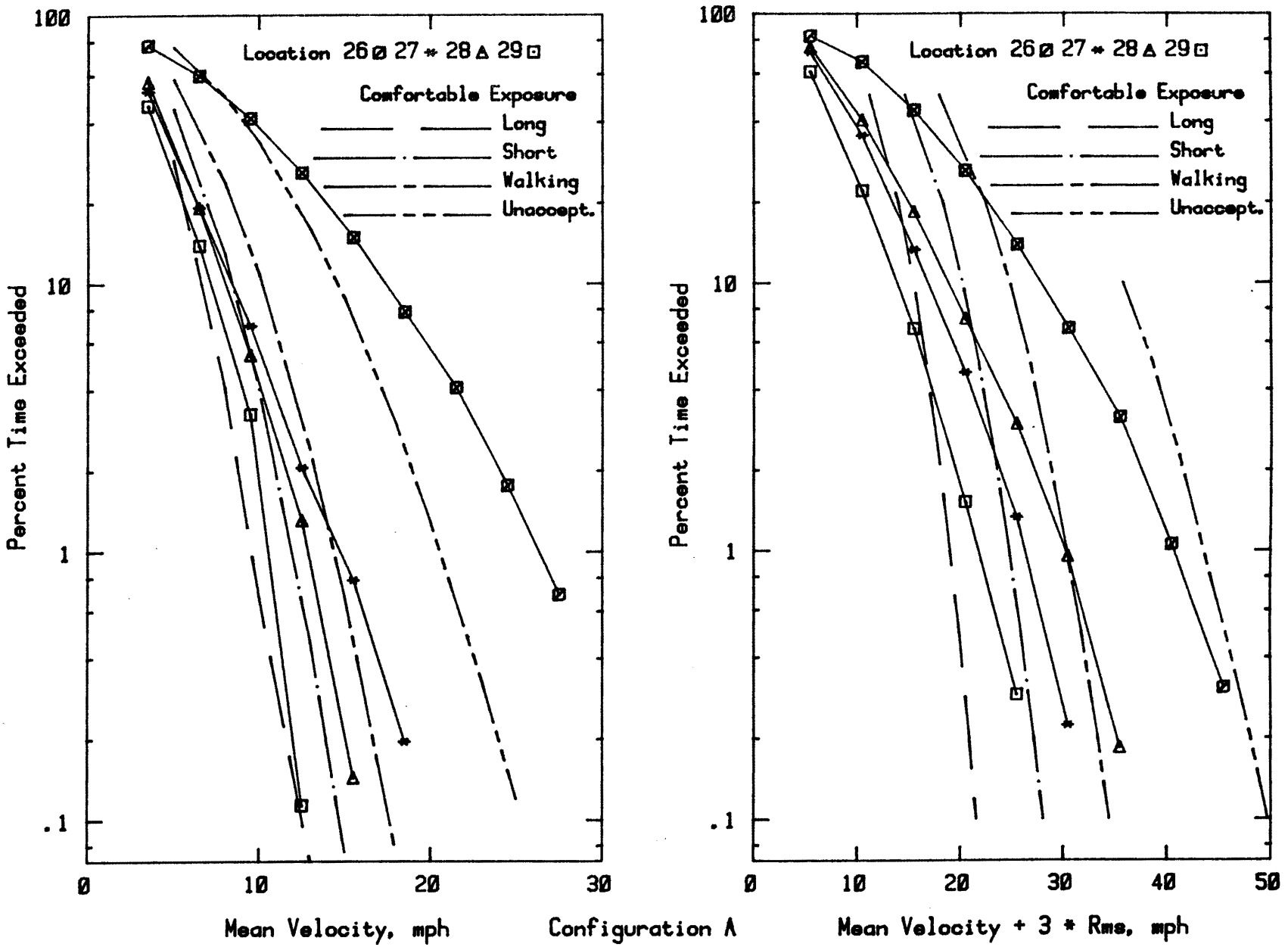



Figure 9j. Wind Velocity Probabilities for Pedestrian Locations

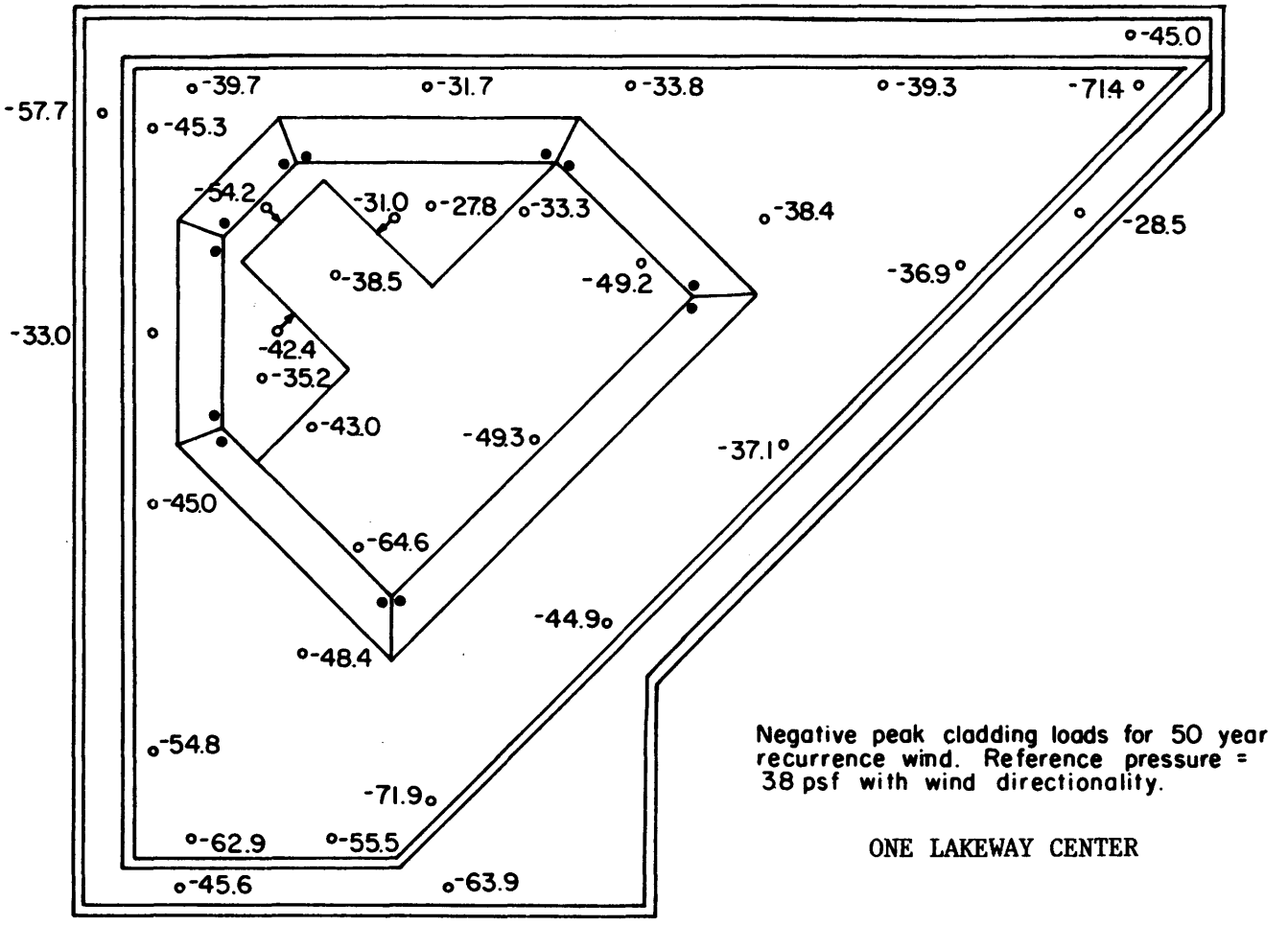



Figure 10a. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
NORTH ELEVATION
PEAK NEGATIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

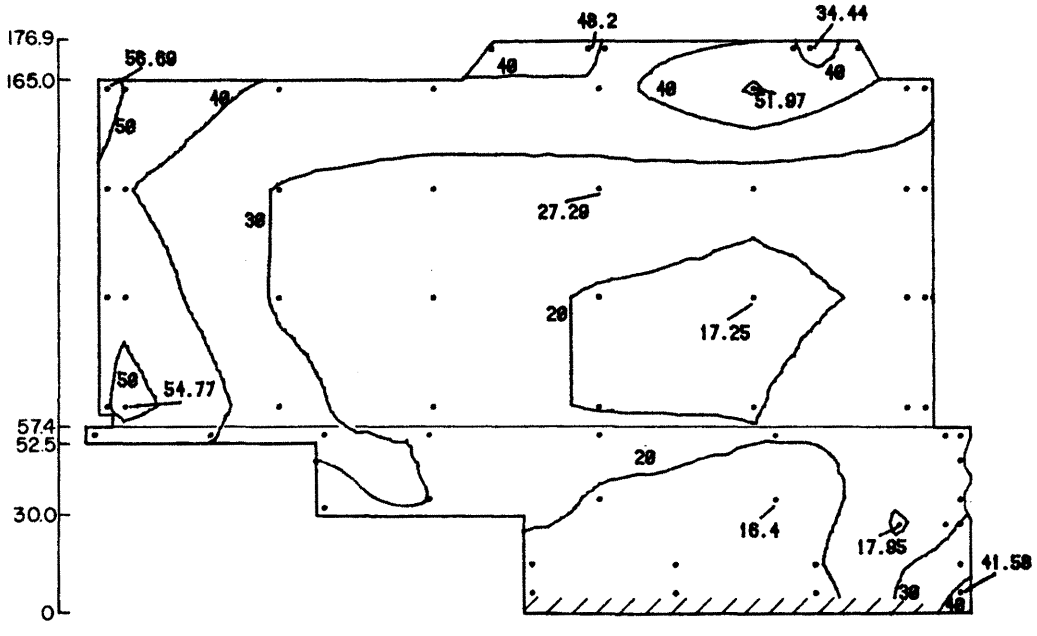



Figure 10b. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
EAST ELEVATION
PEAK NEGATIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

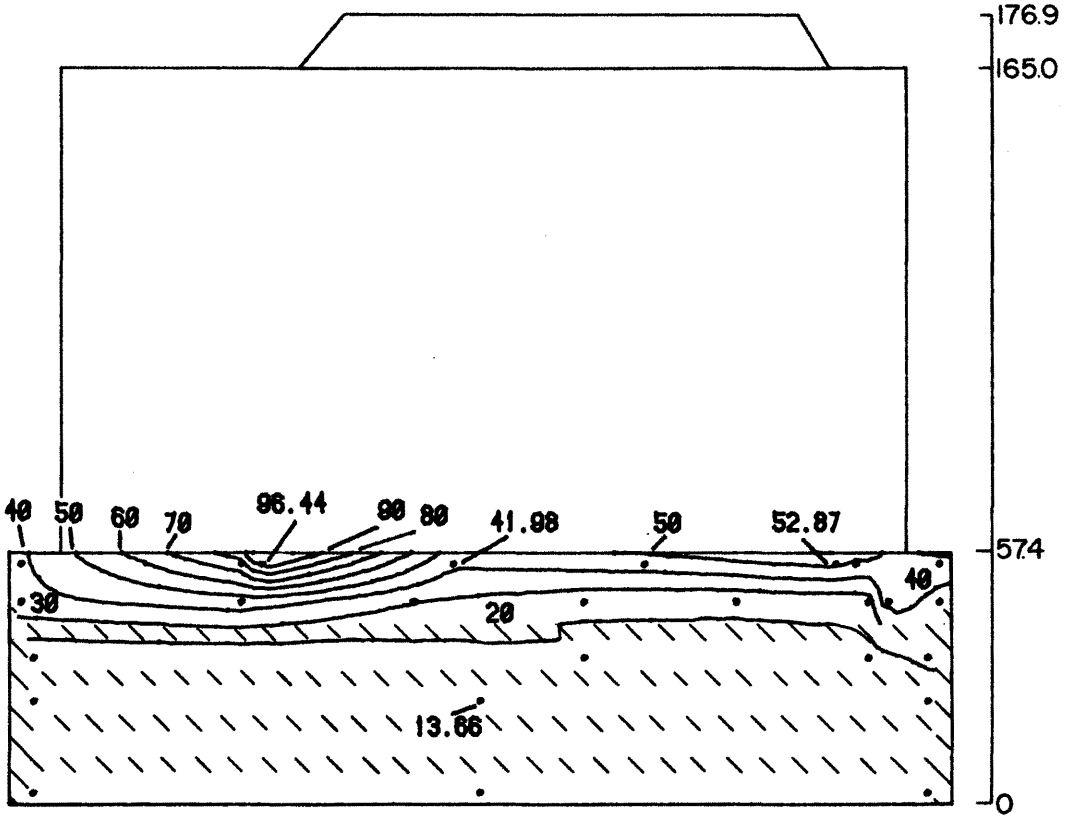



Figure 10c. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
SOUTH-EAST ELEVATION
PEAK NEGATIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

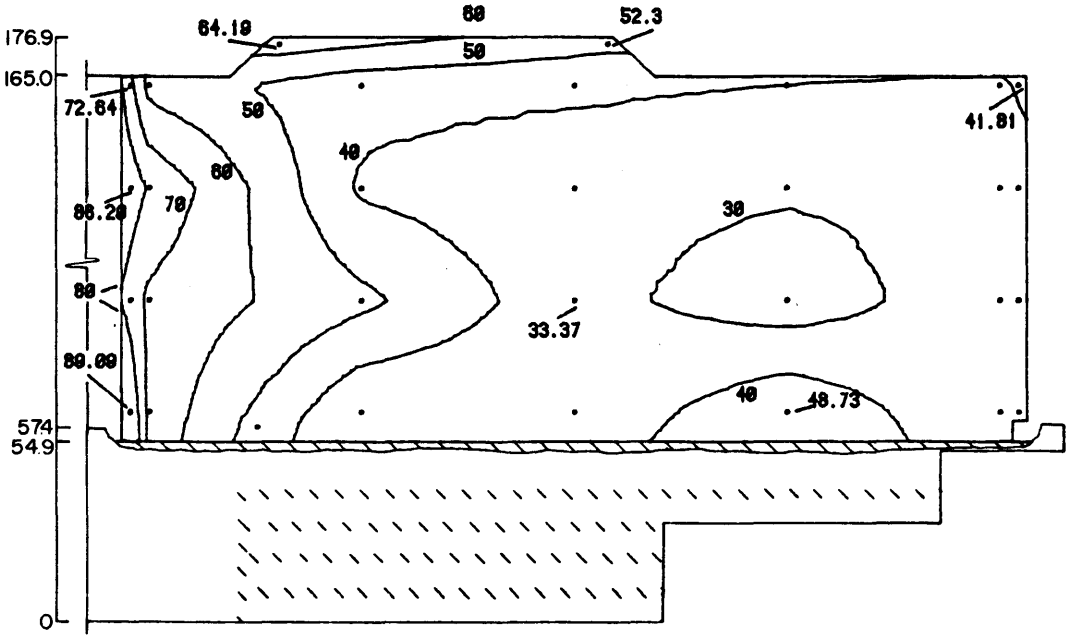



Figure 10d. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
SOUTH ELEVATION
PEAK NEGATIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

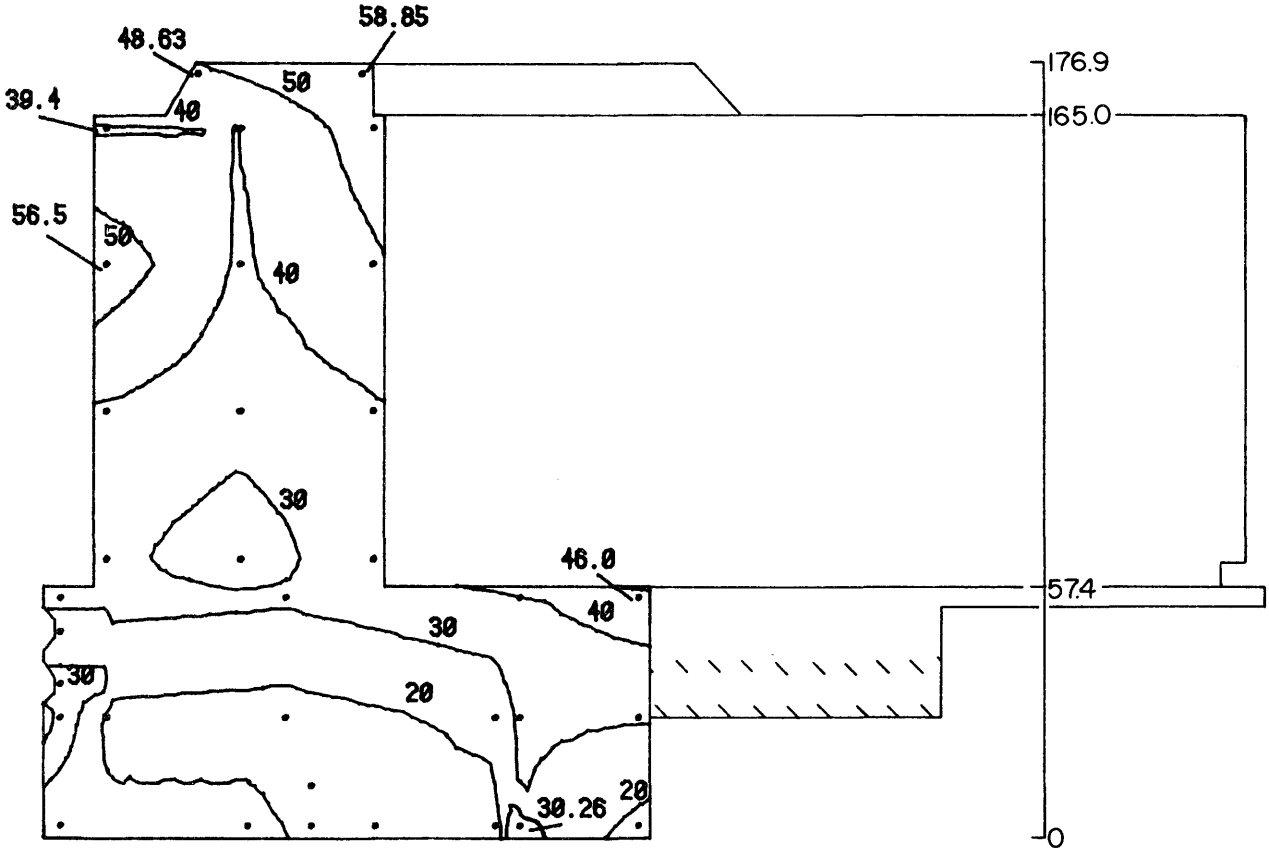



Figure 10e. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
WEST ELEVATION
PEAK NEGATIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

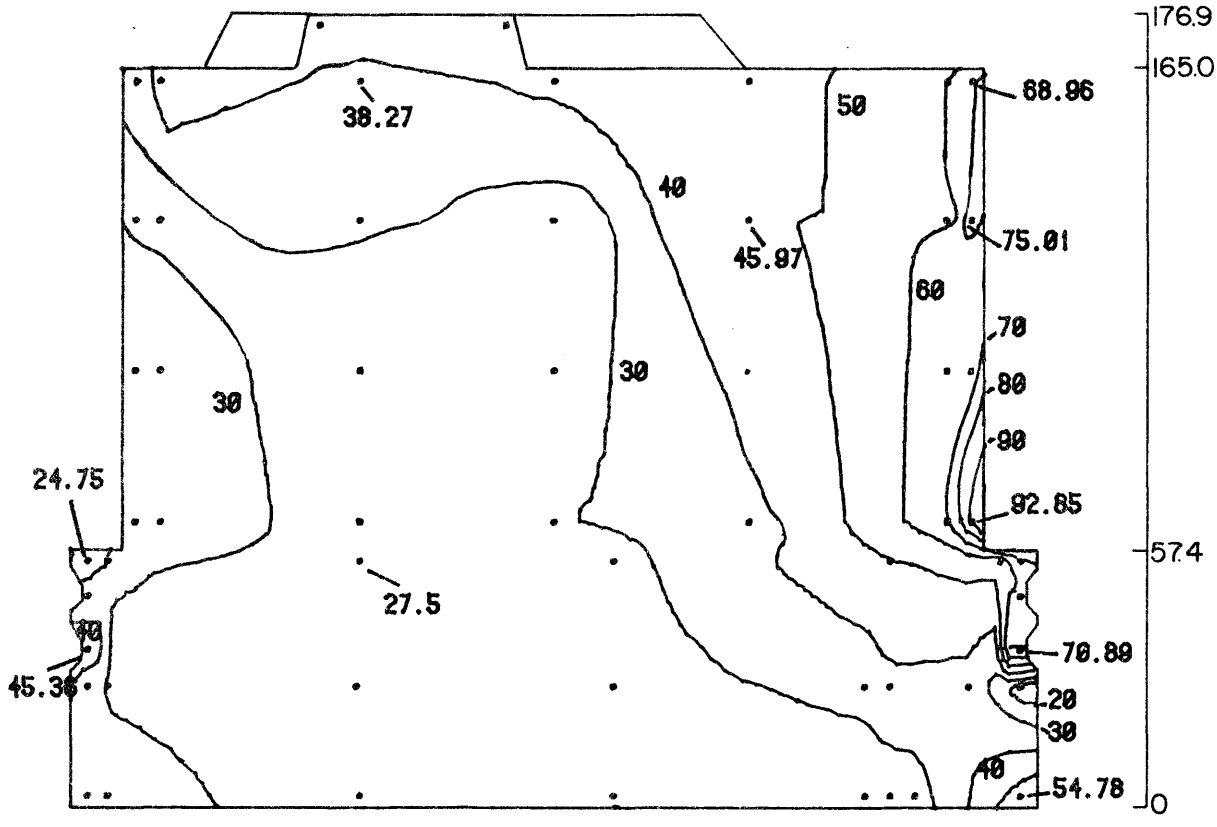



Figure 10f. Peak Pressure Distribution on the Building for Cladding Loads

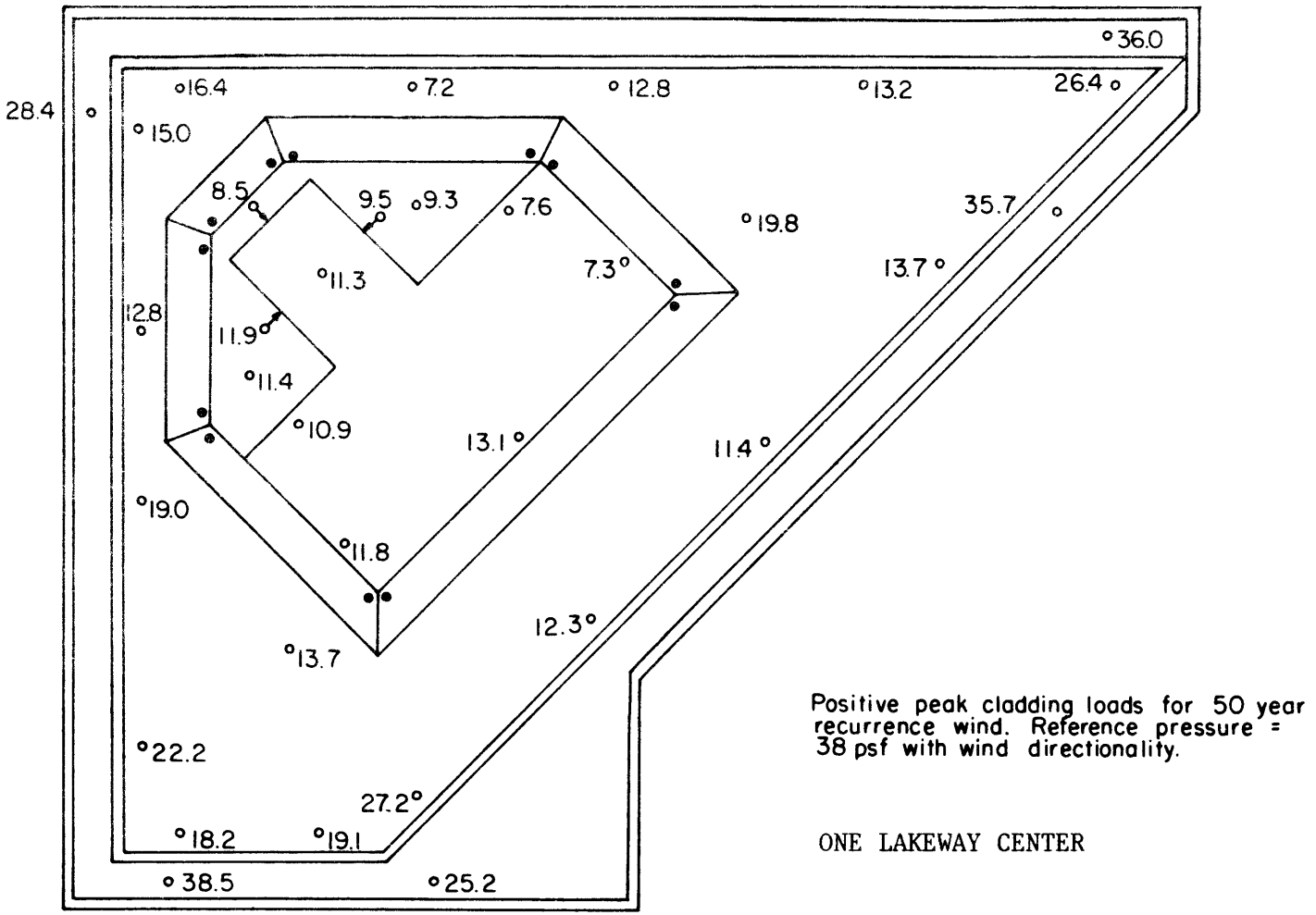



Figure 10g. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
NORTH ELEVATION
PEAK POSITIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

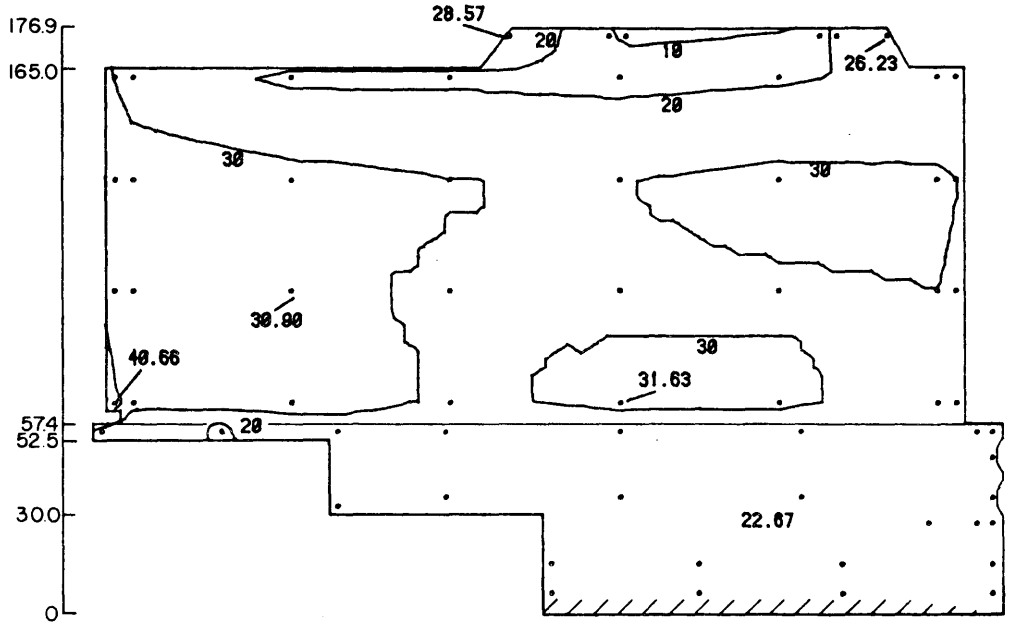



Figure 10h. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
EAST ELEVATION
PEAK POSITIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

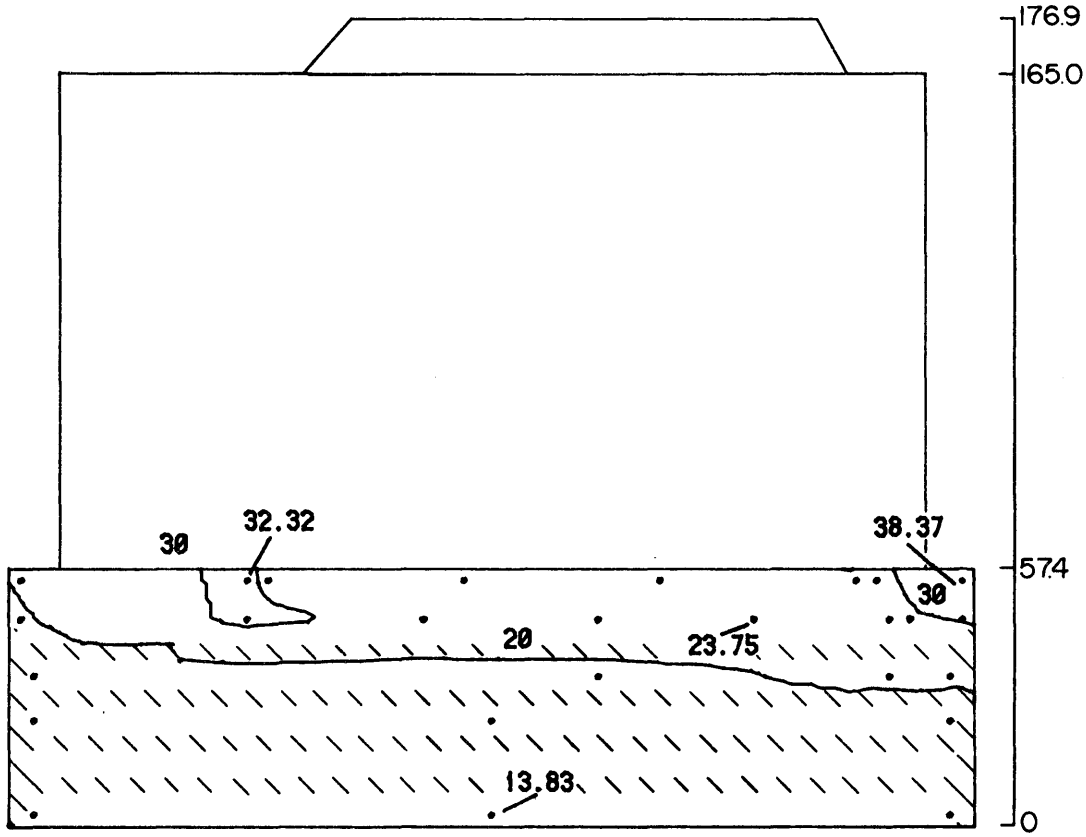



Figure 10i. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
SOUTH-EAST ELEVATION
PEAK POSITIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

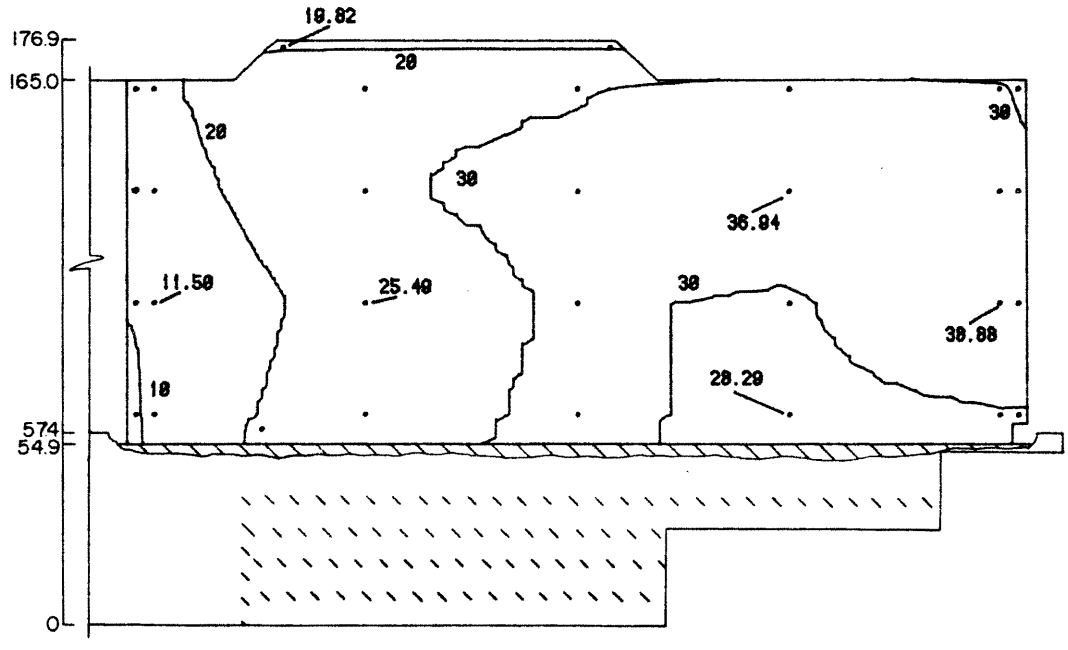



Figure 10j. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
SOUTH ELEVATION
PEAK POSITIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

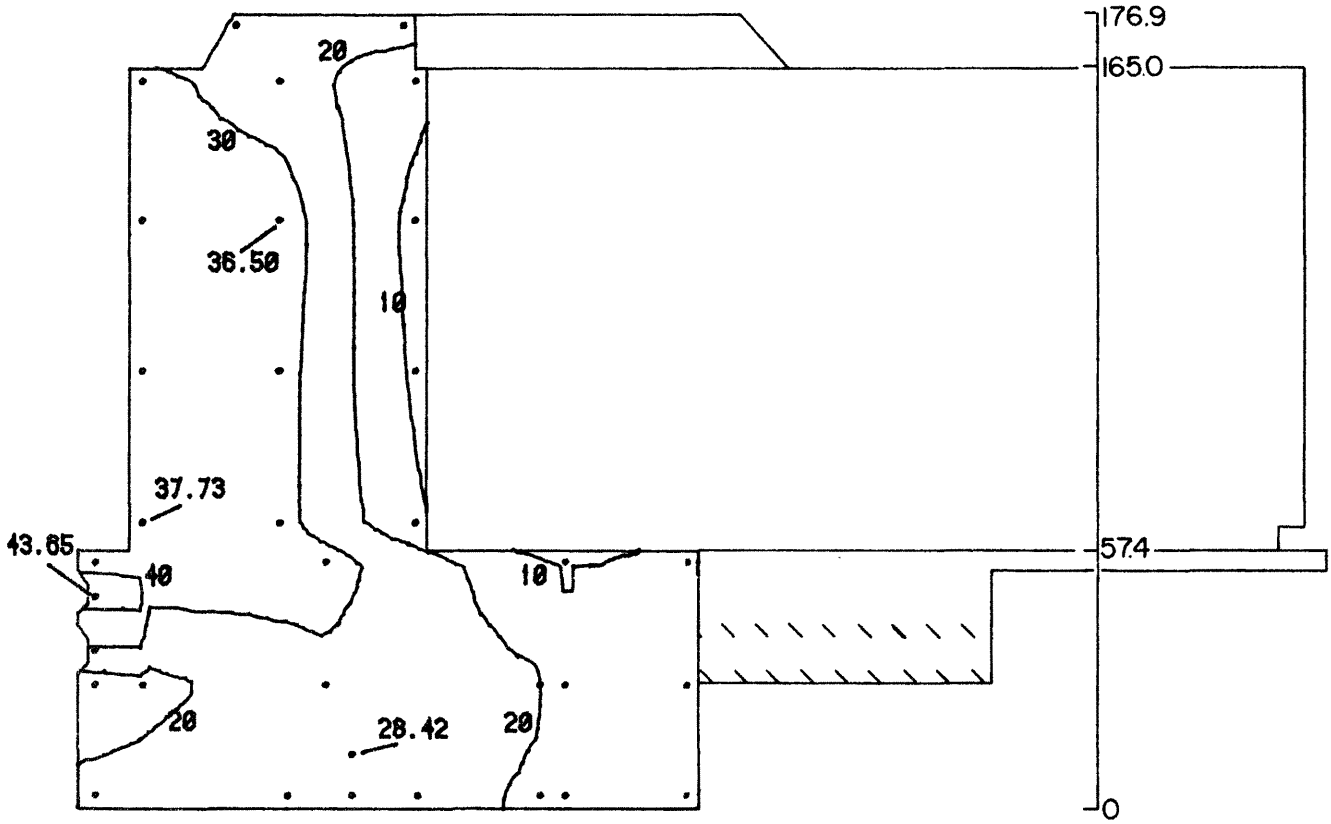



Figure 10k. Peak Pressure Distribution on the Building for Cladding Loads

ONE LAKEWAY CENTER
WEST ELEVATION
PEAK POSITIVE LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

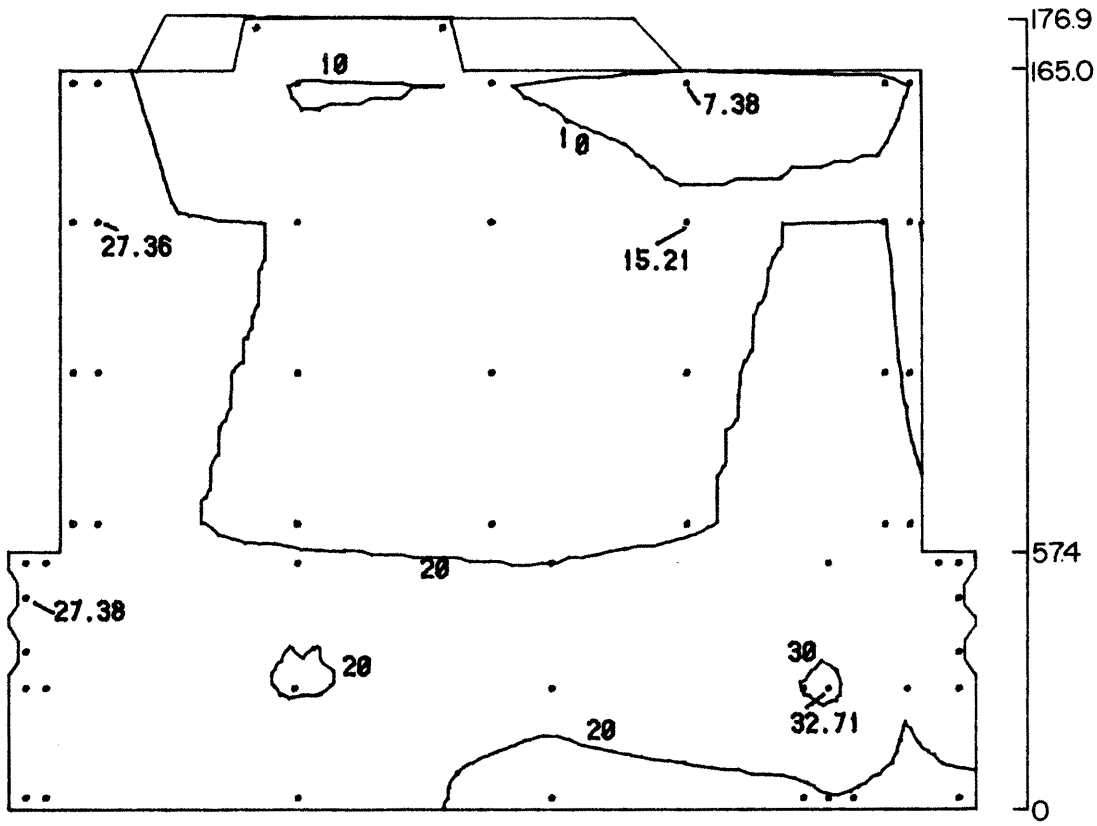
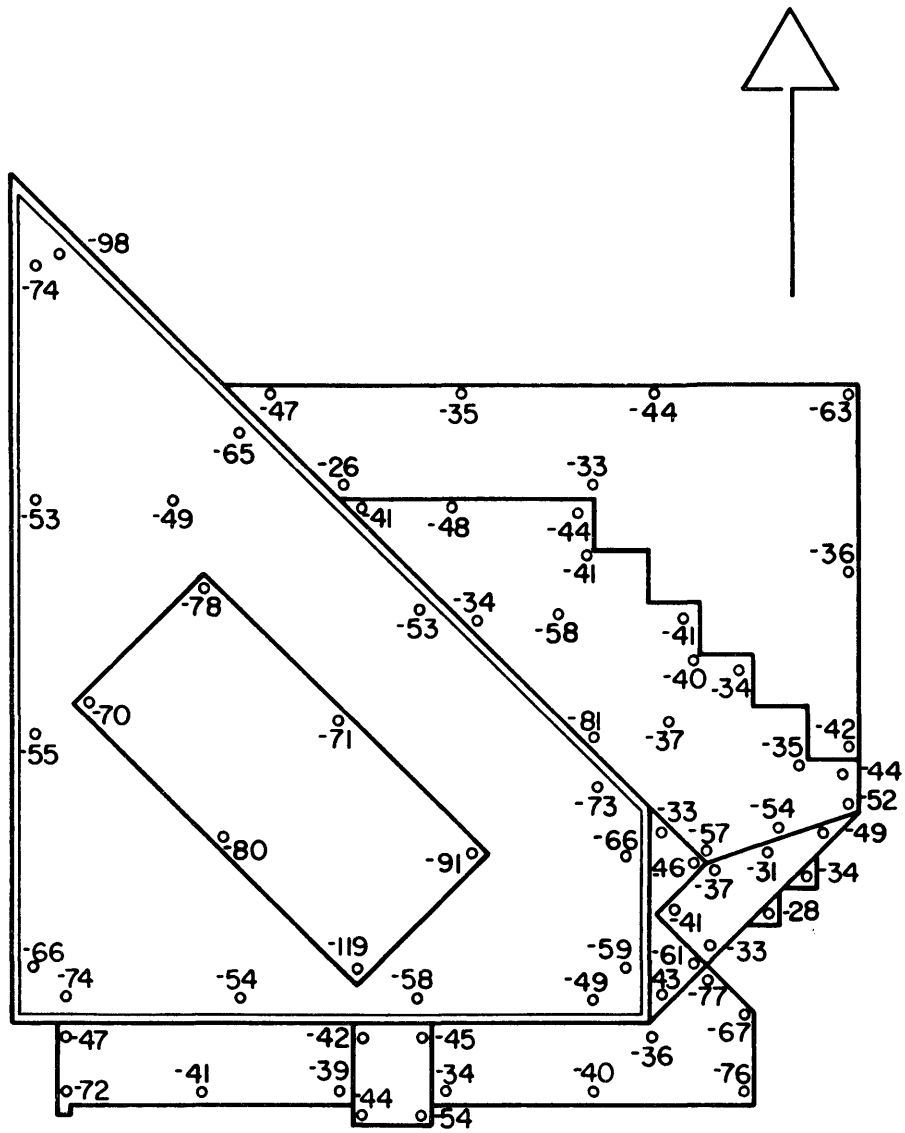
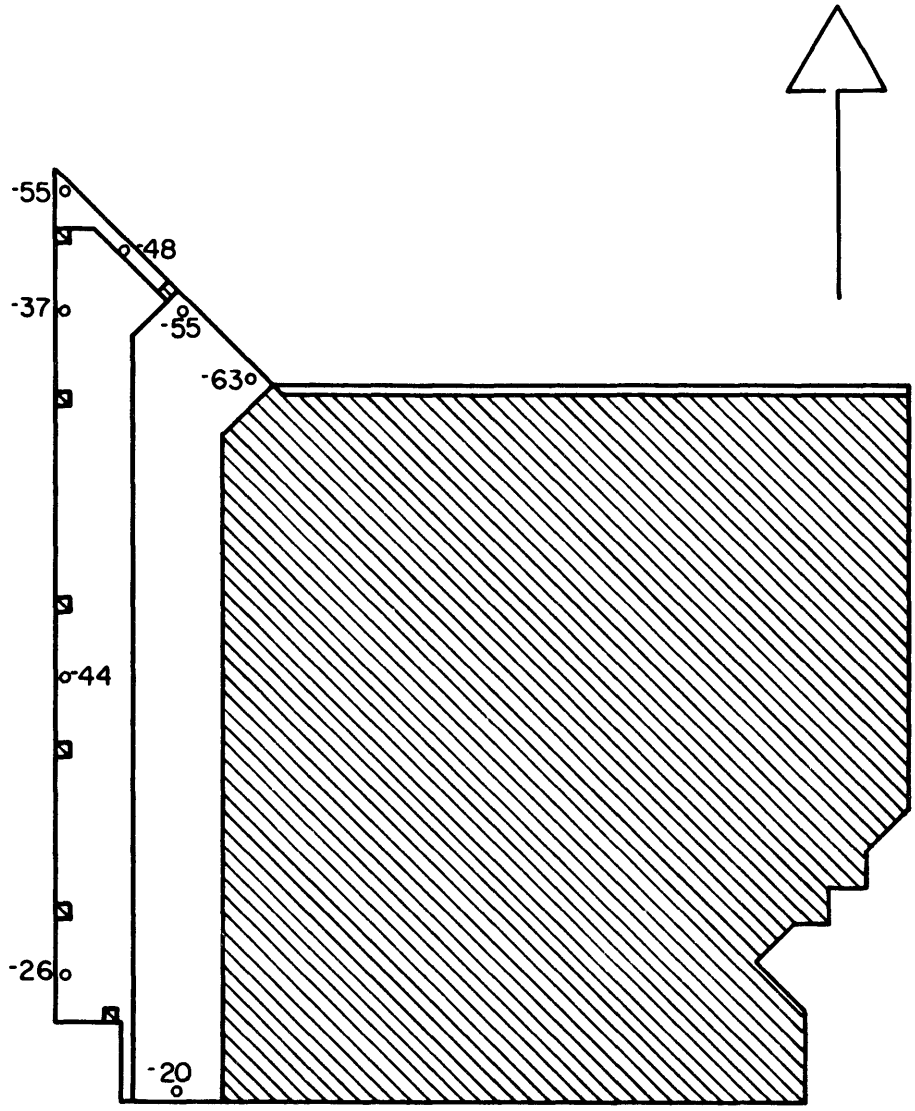



Figure 10ℓ. Peak Pressure Distribution on the Building for Cladding Loads



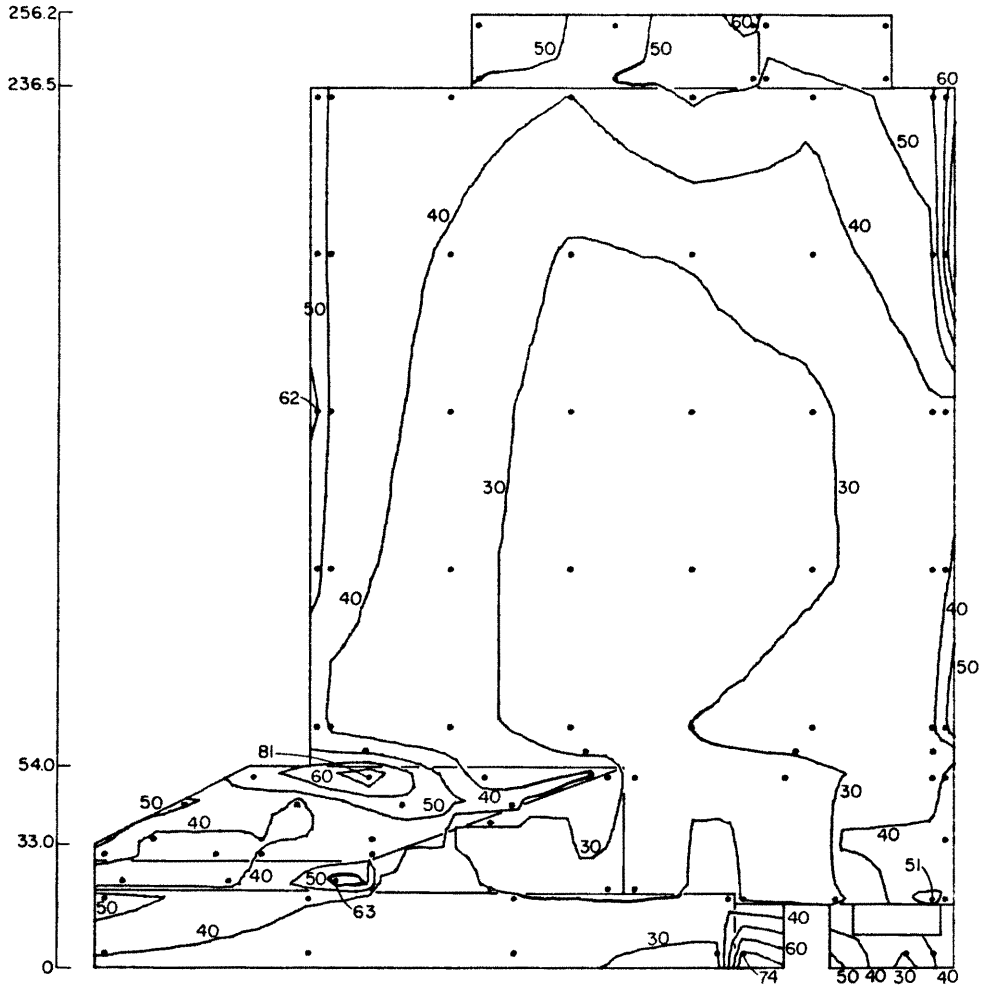

Roof Two Lakeway Center
Peak Negative Cladding Loads (PSF) for 50 Year
Recurrence Wind with Wind Directionality
Reference Pressure = 38 PSF

Figure 10m. Peak Pressure Distribution on the Building for Cladding Loads



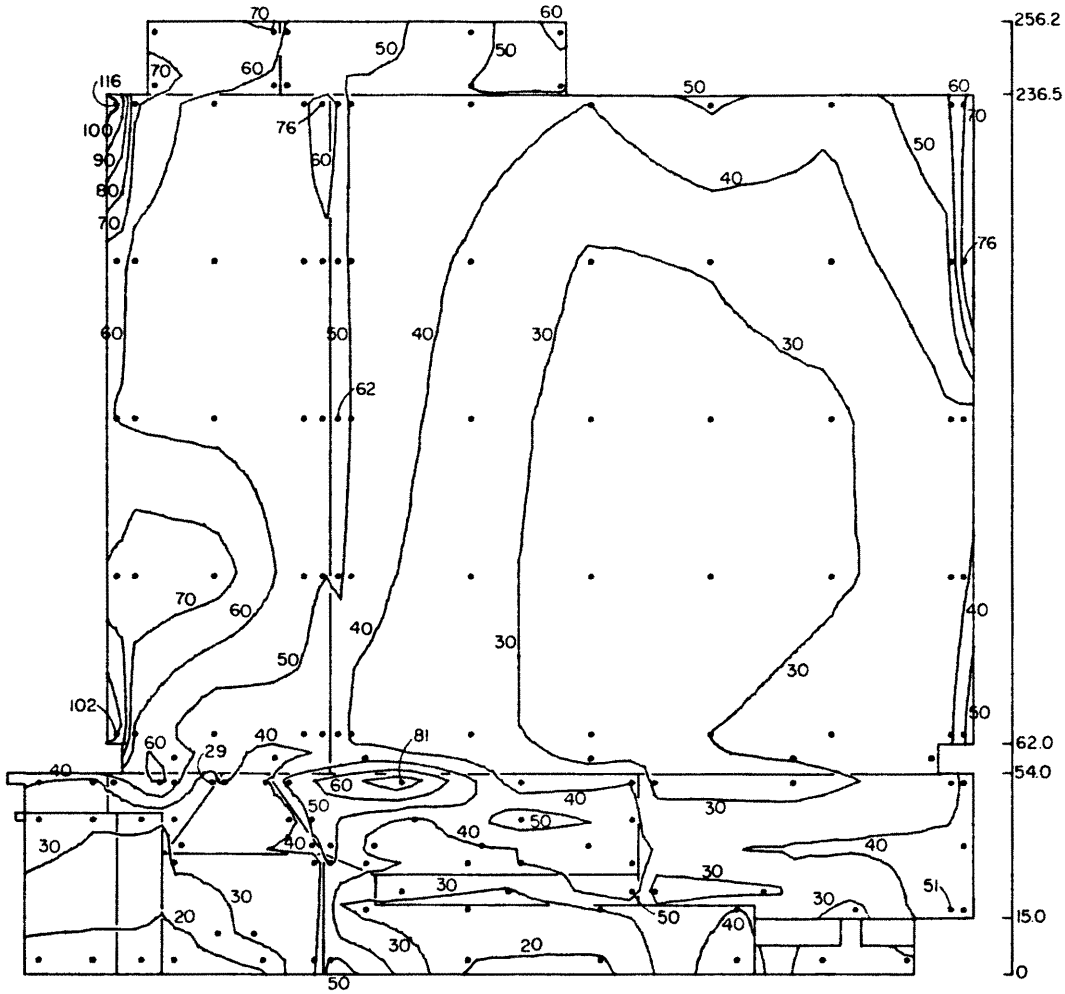

Soffit Two Lakeway Center
Peak Negative Cladding Loads (PSF) for 50 Year Recurrence Wind
with Wind Directionality
Reference Pressure = 38 PSF

Figure 10n. Peak Pressure Distribution on the Building for Cladding Loads



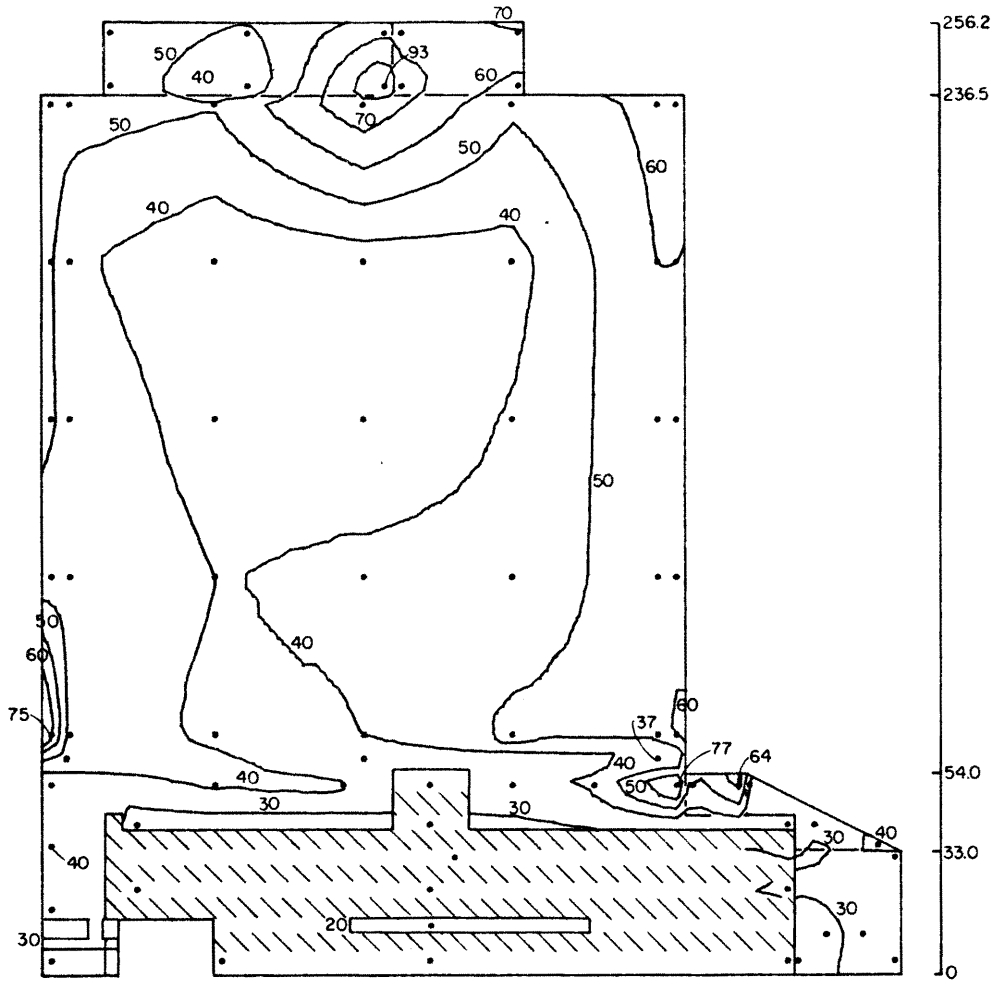

TWO LAKEWAY CENTER
NORTH ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10o. Peak Pressure Distribution on the Building for Cladding Loads



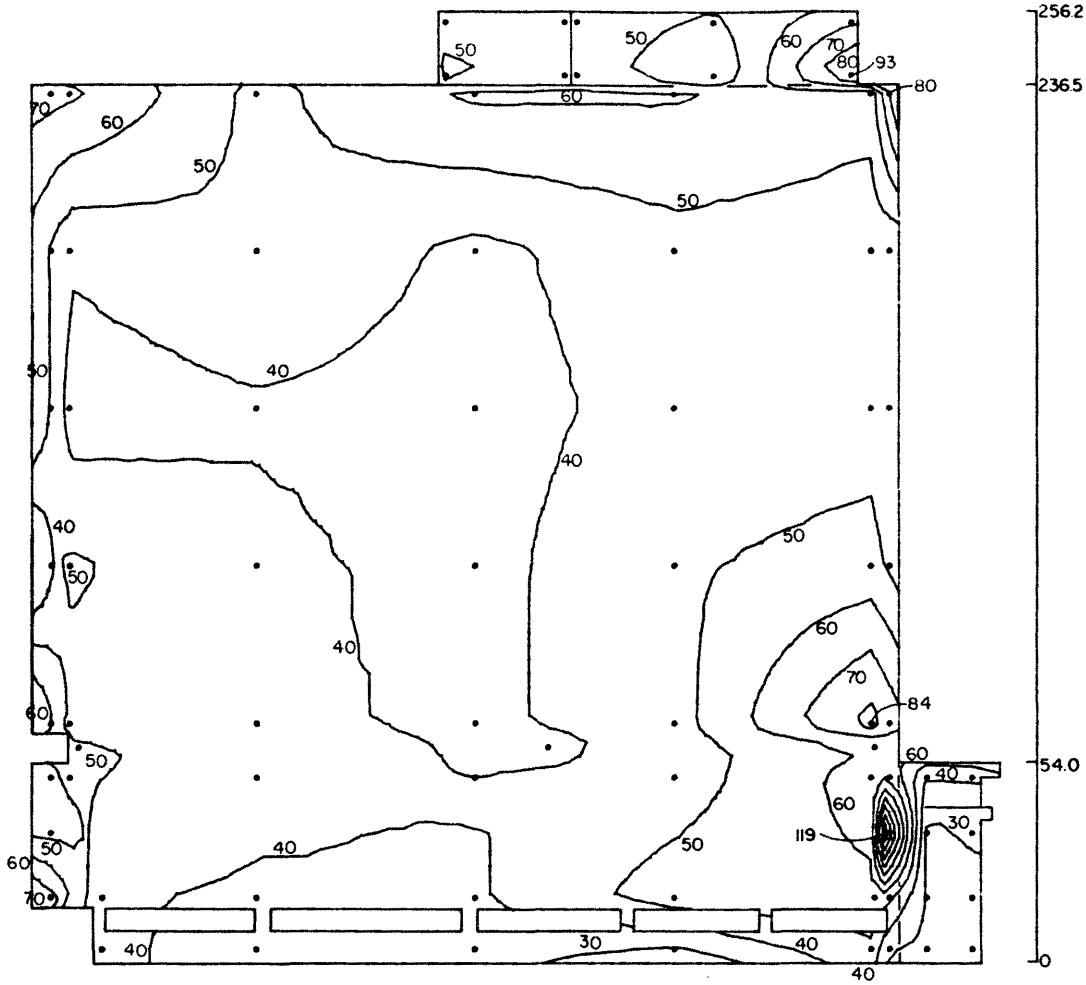

TWO LAKEWAY CENTER
EAST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10p. Peak Pressure Distribution on the Building for Cladding Loads



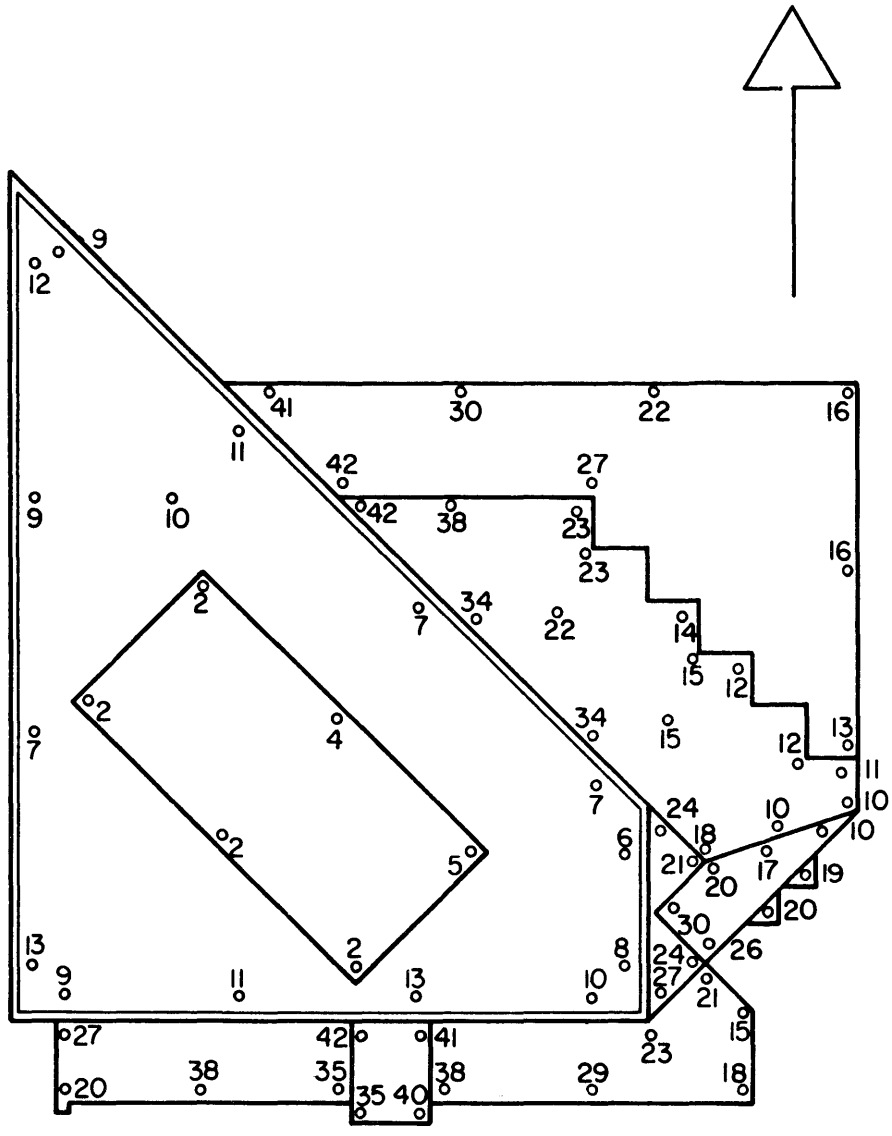

TWO LAKEWAY CENTER
SOUTH ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10q. Peak Pressure Distribution on the Building for Cladding Loads



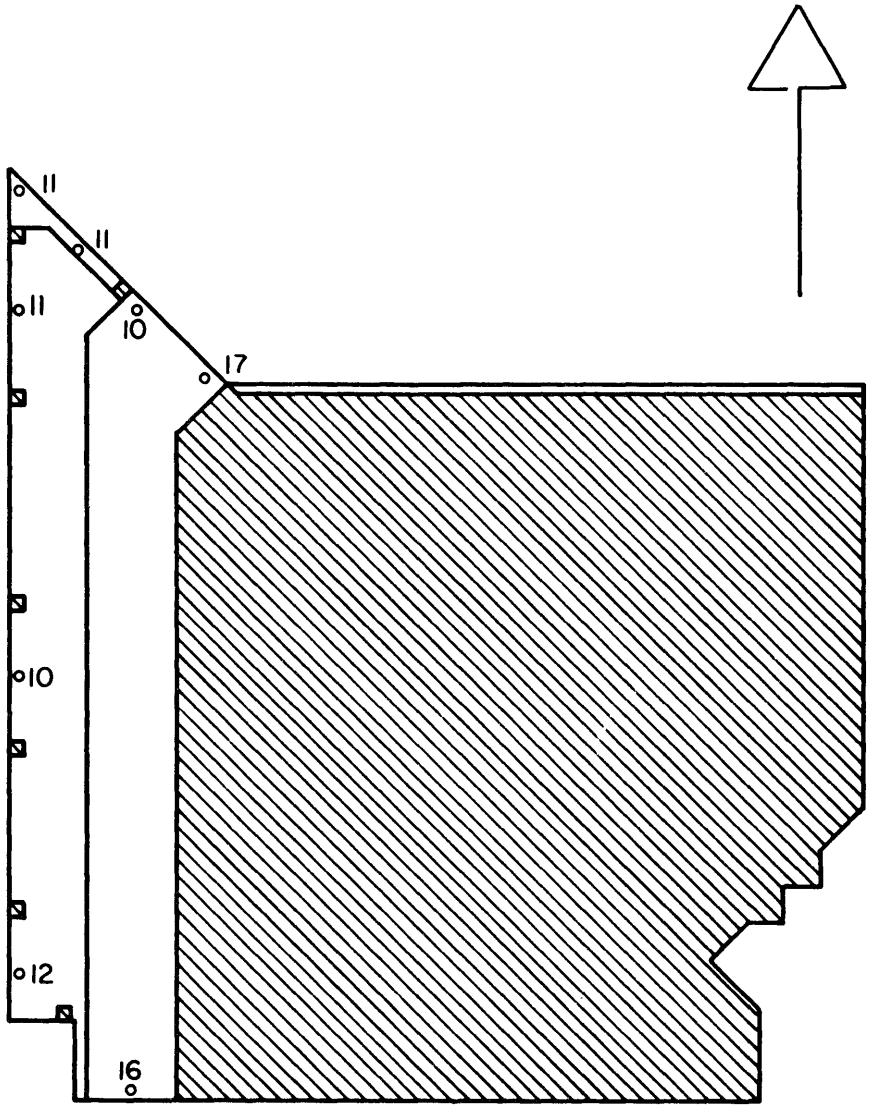

TWO LAKEWAY CENTER
WEST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10r. Peak Pressure Distribution on the Building for Cladding Loads



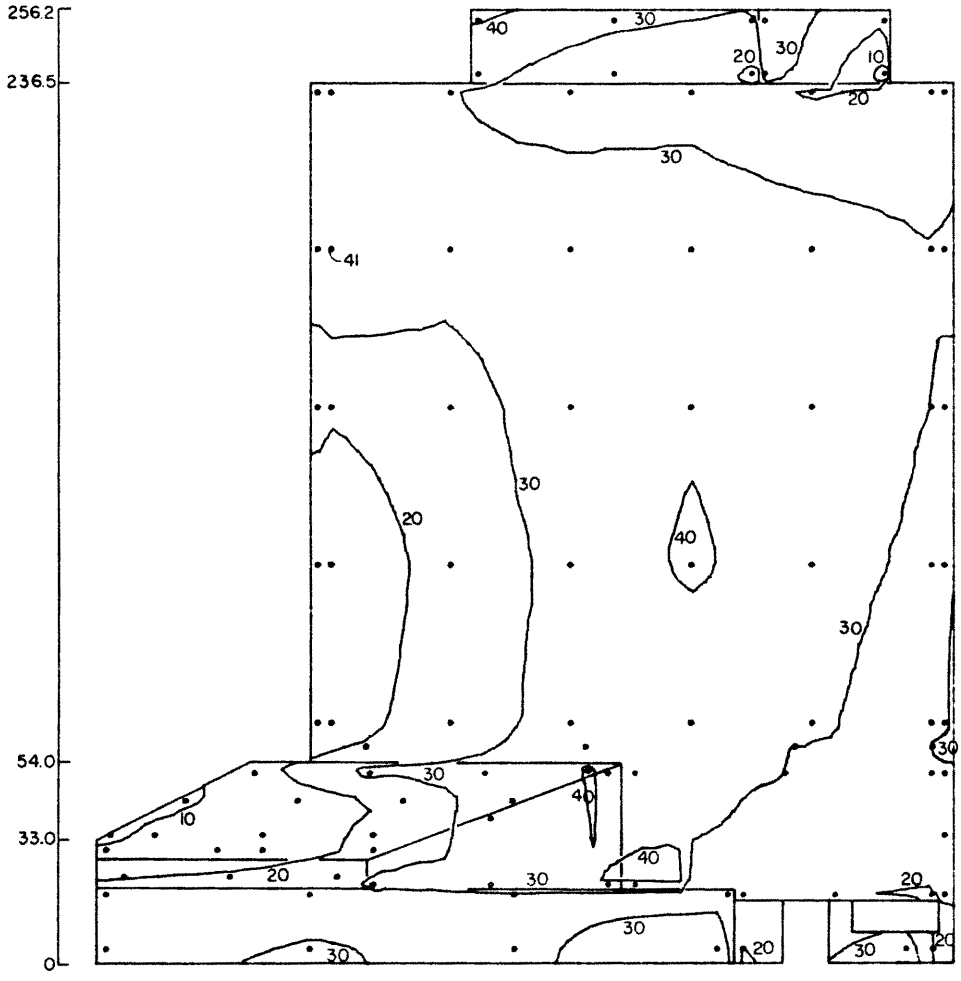
Roof Two Lakeway Center
Peak Positive Cladding Loads (PSF) for 50 Year
Recurrence Wind with Wind Directionality
Reference Pressure = 38 PSF

Figure 10s. Peak Pressure Distribution on the Building for Cladding Loads



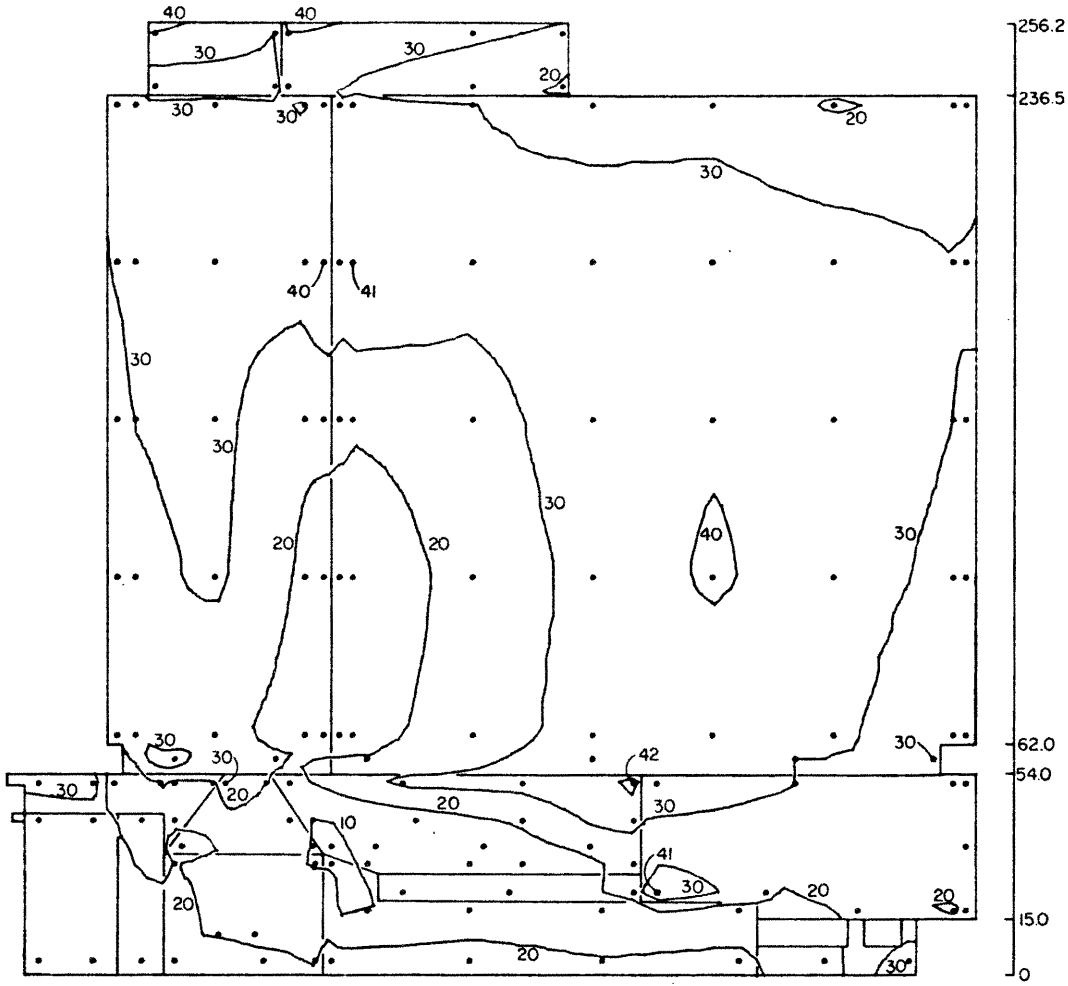

Soffit Two Lakeway Center
Peak Positive Cladding Loads (PSF) for 50 Year Recurrence
Wind with Wind Directionality
Reference Pressure = 38 PSF

Figure 10t. Peak Pressure Distribution on the Building for Cladding Loads



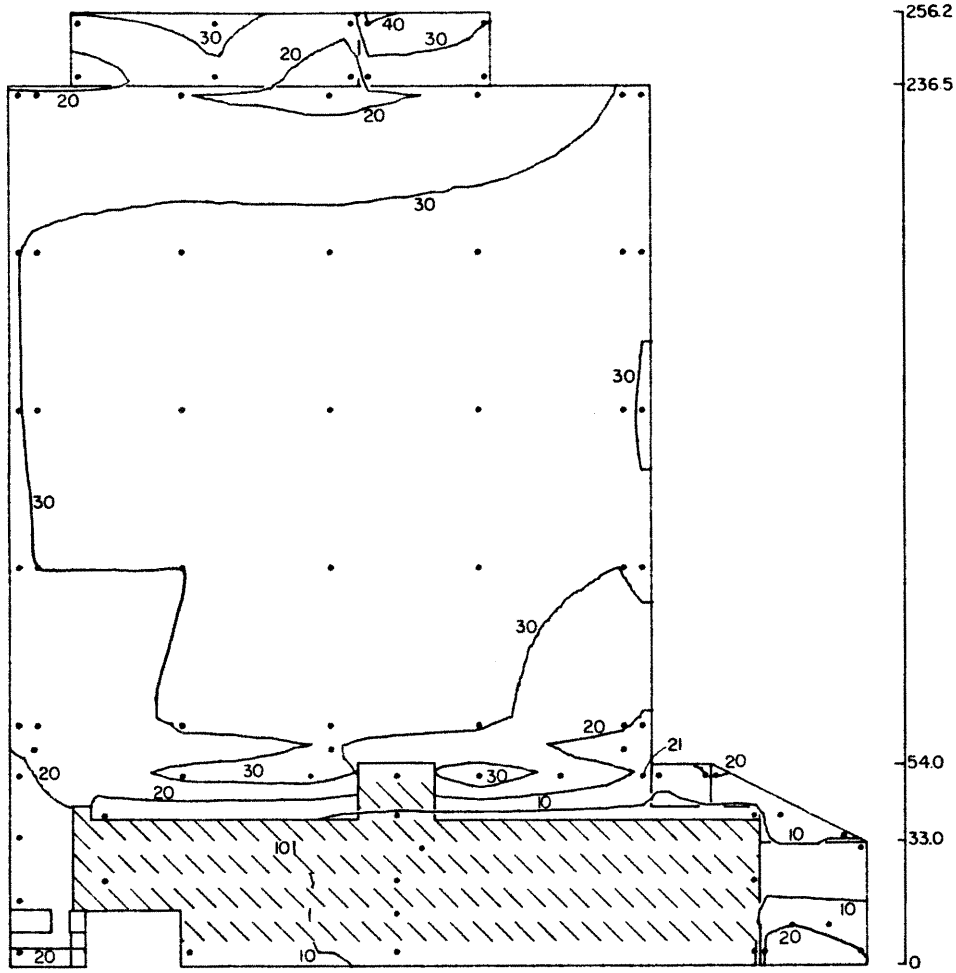

TWO LAKEWAY CENTER
NORTH ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10u. Peak Pressure Distribution on the Building for Cladding Loads



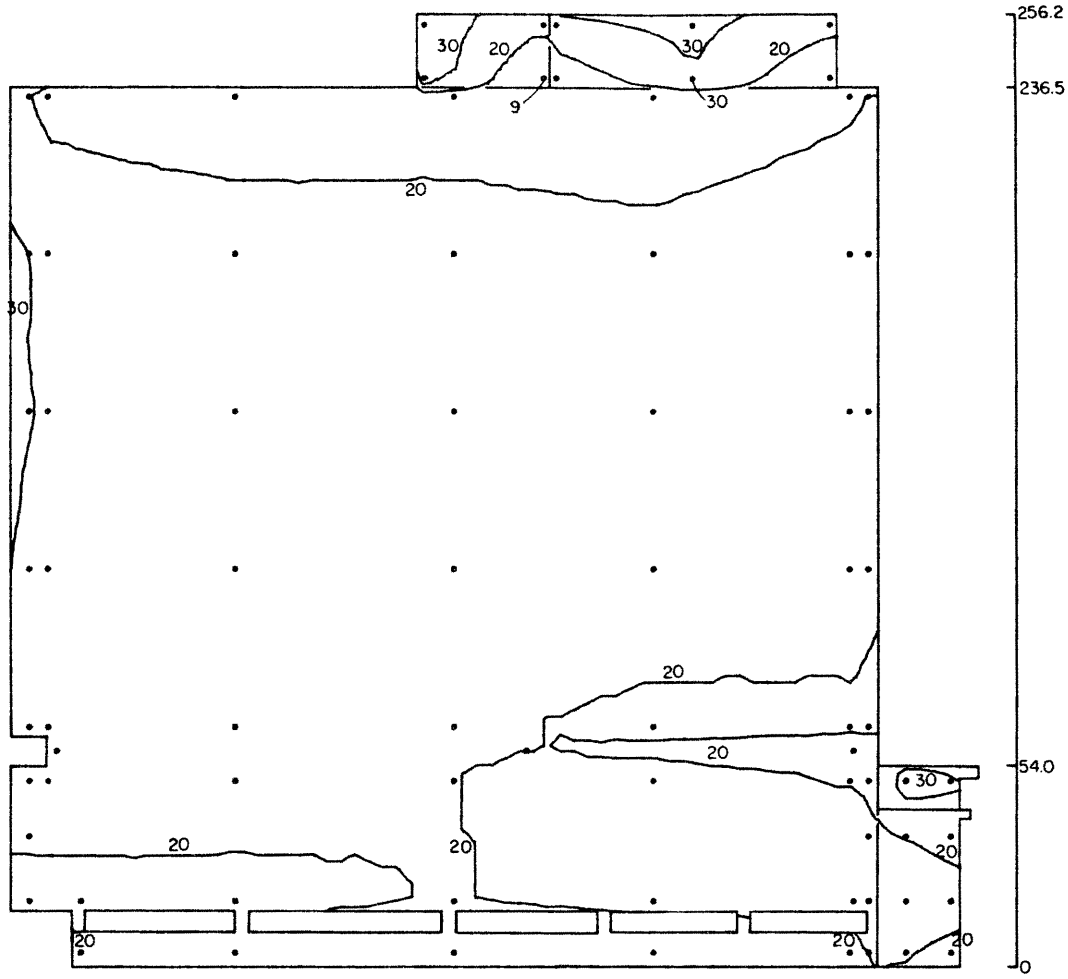

TWO LAKEWAY CENTER
EAST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10v. Peak Pressure Distribution on the Building for Cladding Loads



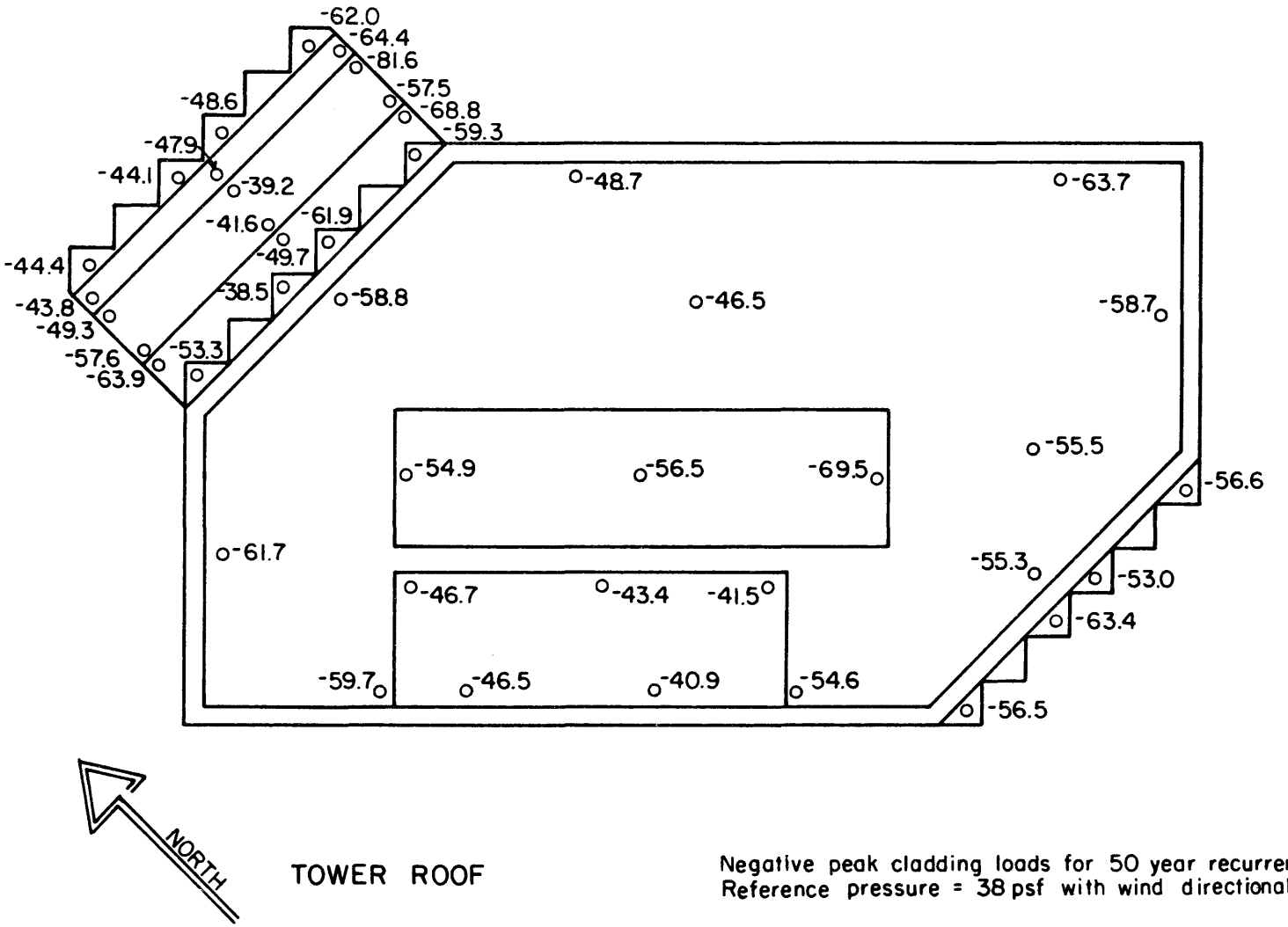

TWO LAKEWAY CENTER
SOUTH ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10w. Peak Pressure Distribution on the Building for Cladding Loads




TWO LAKEWAY CENTER
WEST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

Figure 10x. Peak Pressure Distribution on the Building for Cladding Loads

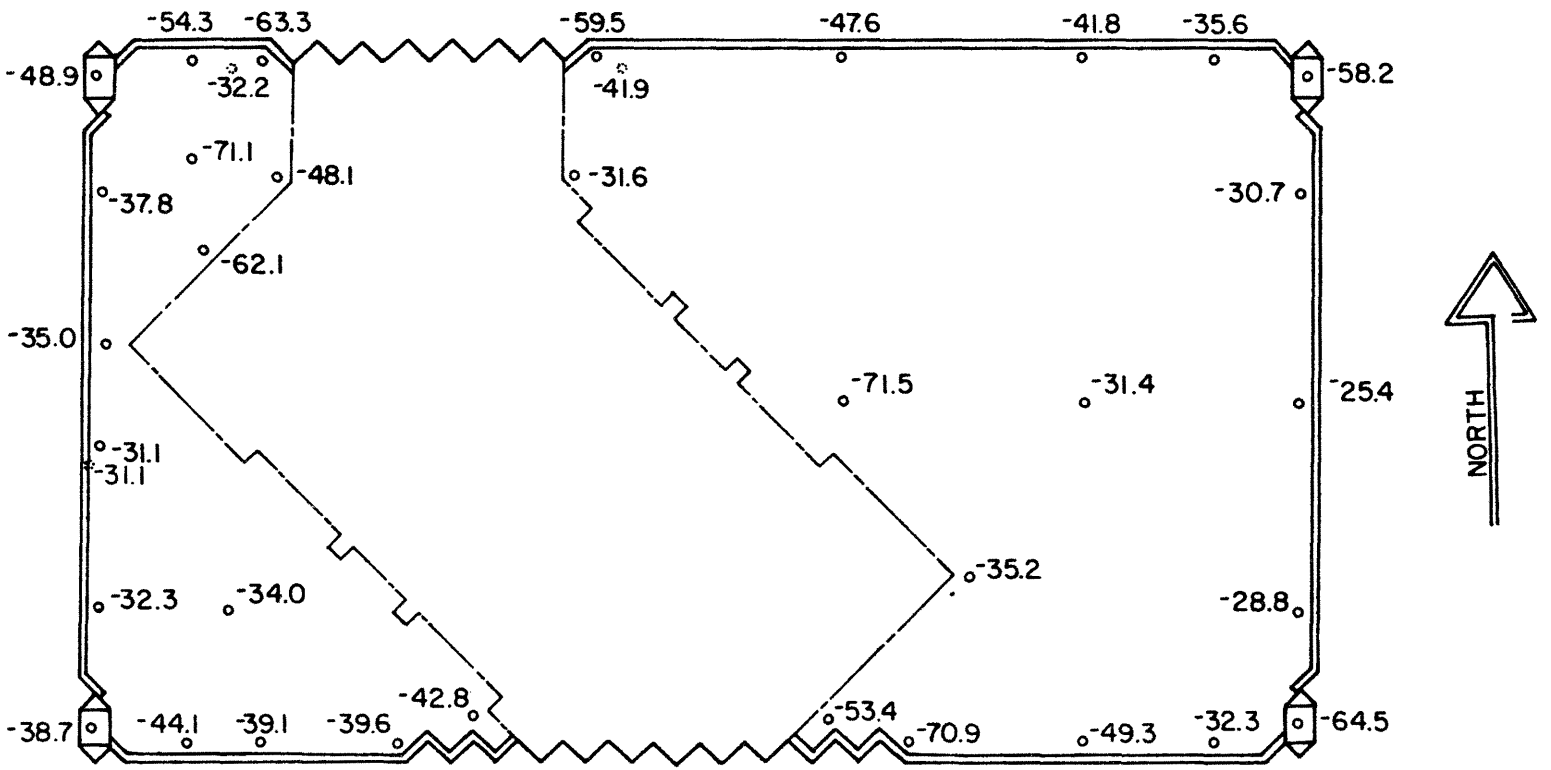



TOWER ROOF

Negative peak cladding loads for 50 year recurrence wind.
Reference pressure = 38 psf with wind directionality.

THREE LAKEWAY CENTER

Figure 10y. Peak Pressure Distribution on the Building for Cladding Loads




LOWRISE ROOF

Negative peak cladding loads for 50 year recurrence wind. Reference pressure = 38 psf with wind directionality.

THREE LAKEWAY CENTER

Figure 10z. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . NORTH-WEST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

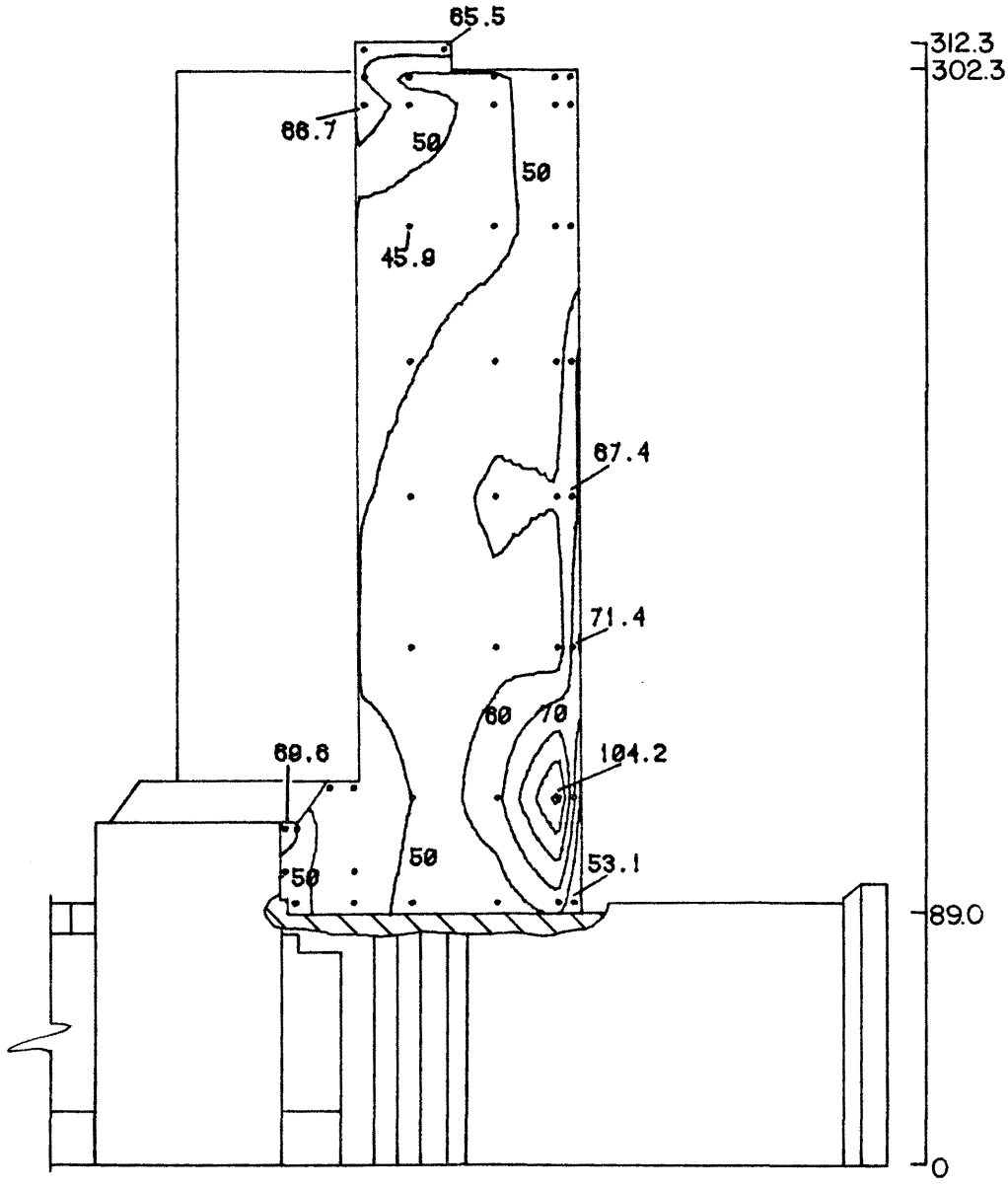



Figure 10aa. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . NORTH ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

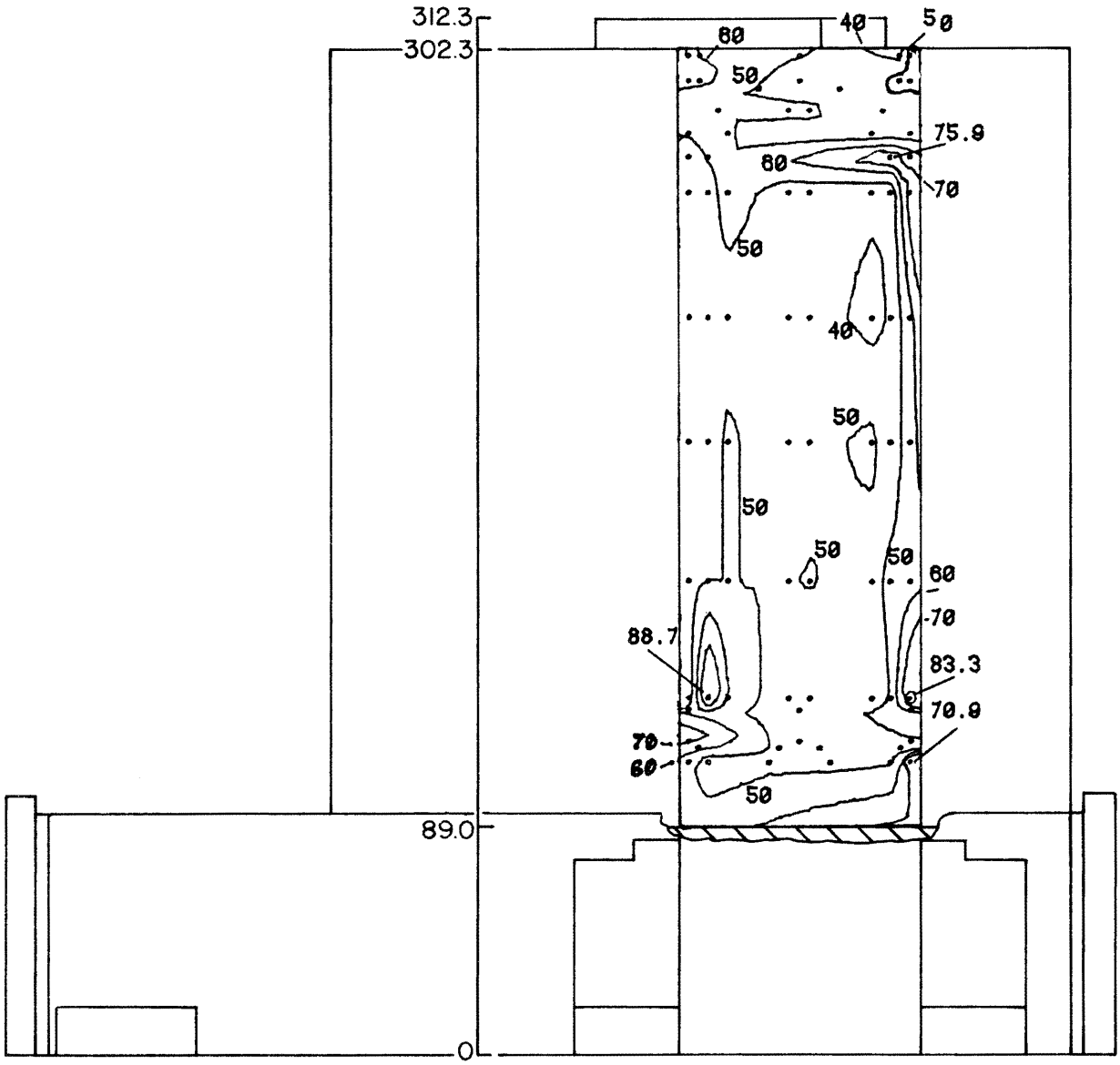



Figure 10bb. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . NORTH-EAST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

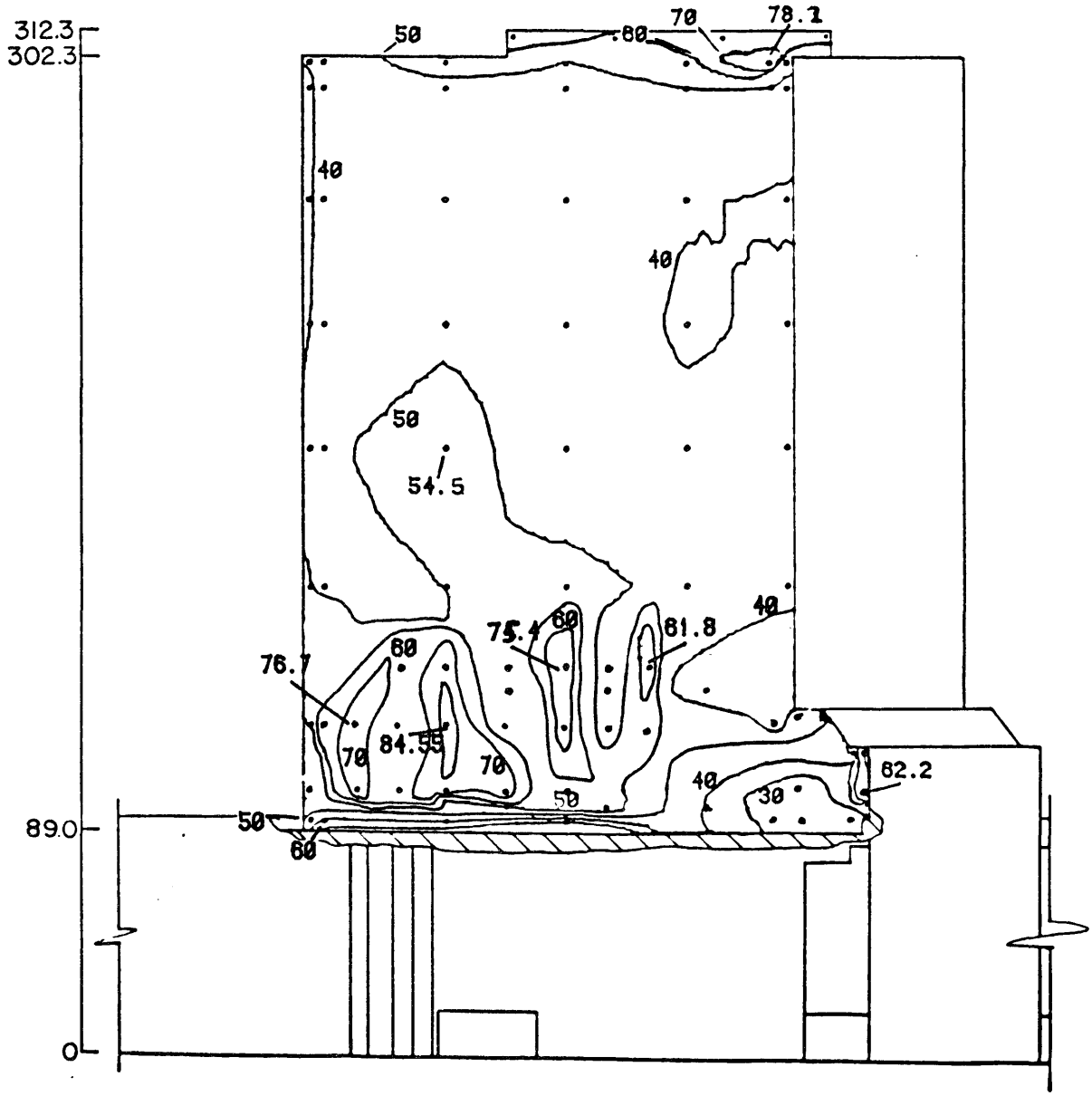



Figure 10cc. Peak Pressure Distribution on the Building for Cladding Loads

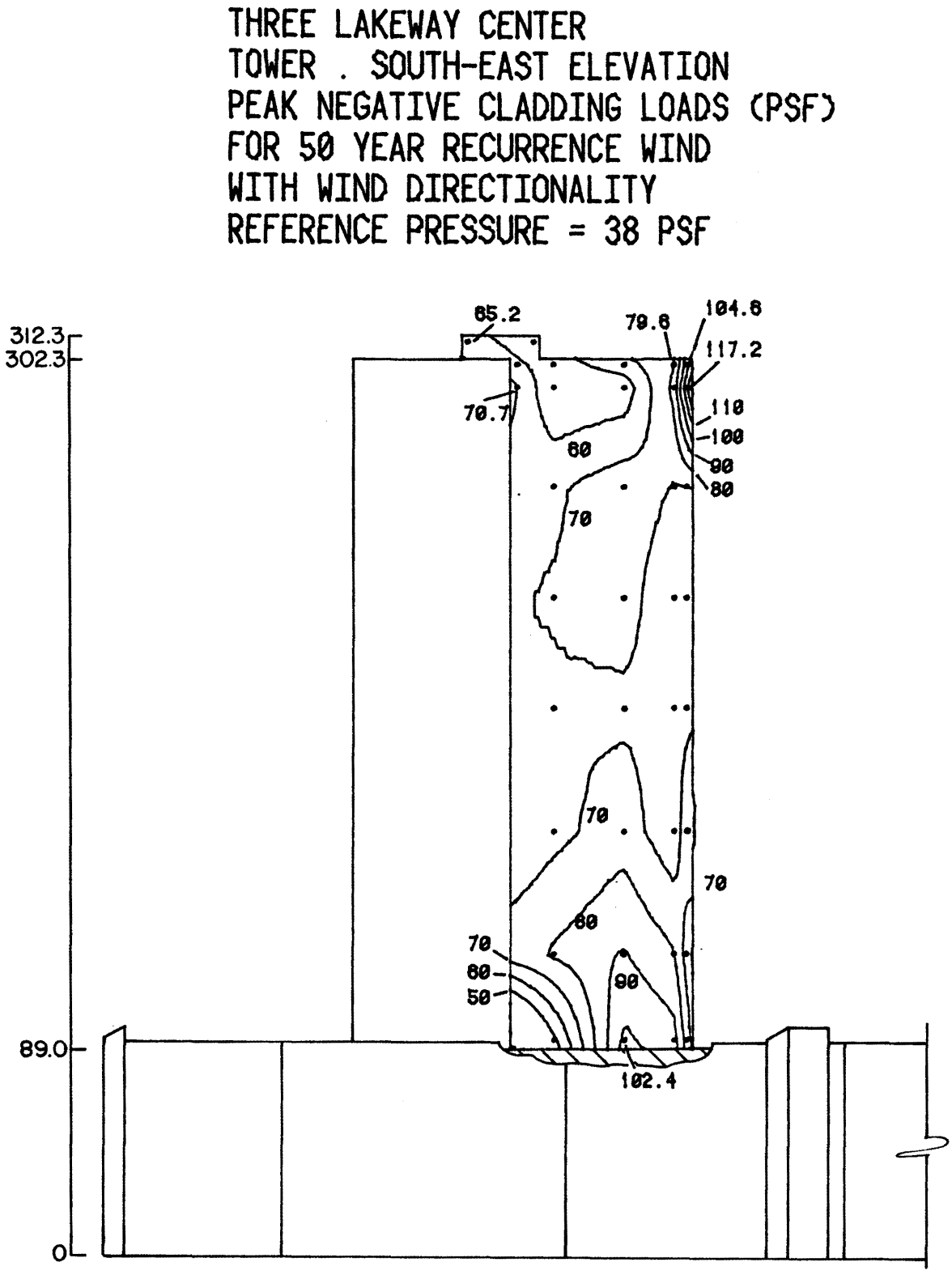



Figure 10dd. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . SOUTH ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

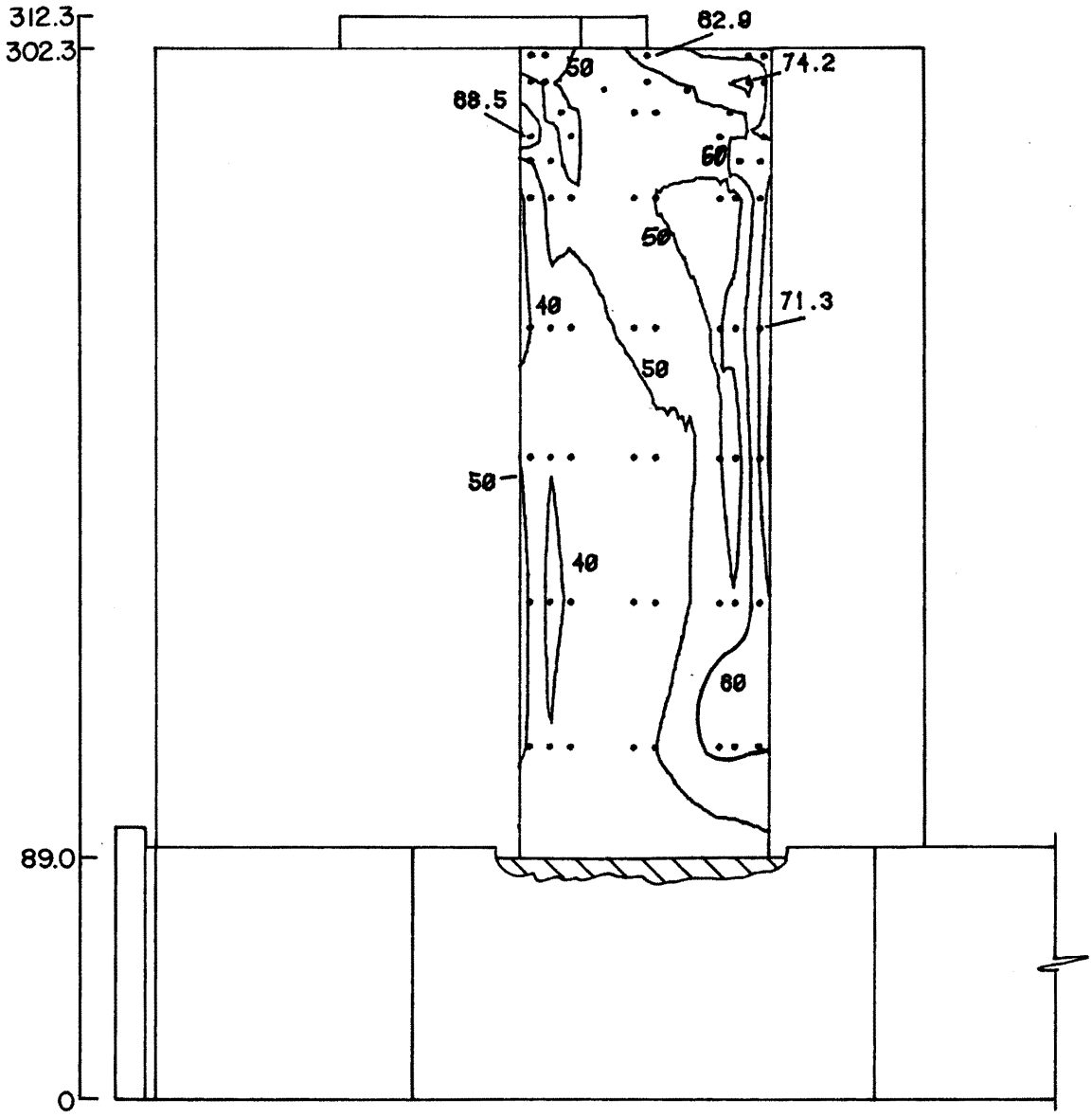



Figure 10ee. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . SOUTH-WEST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

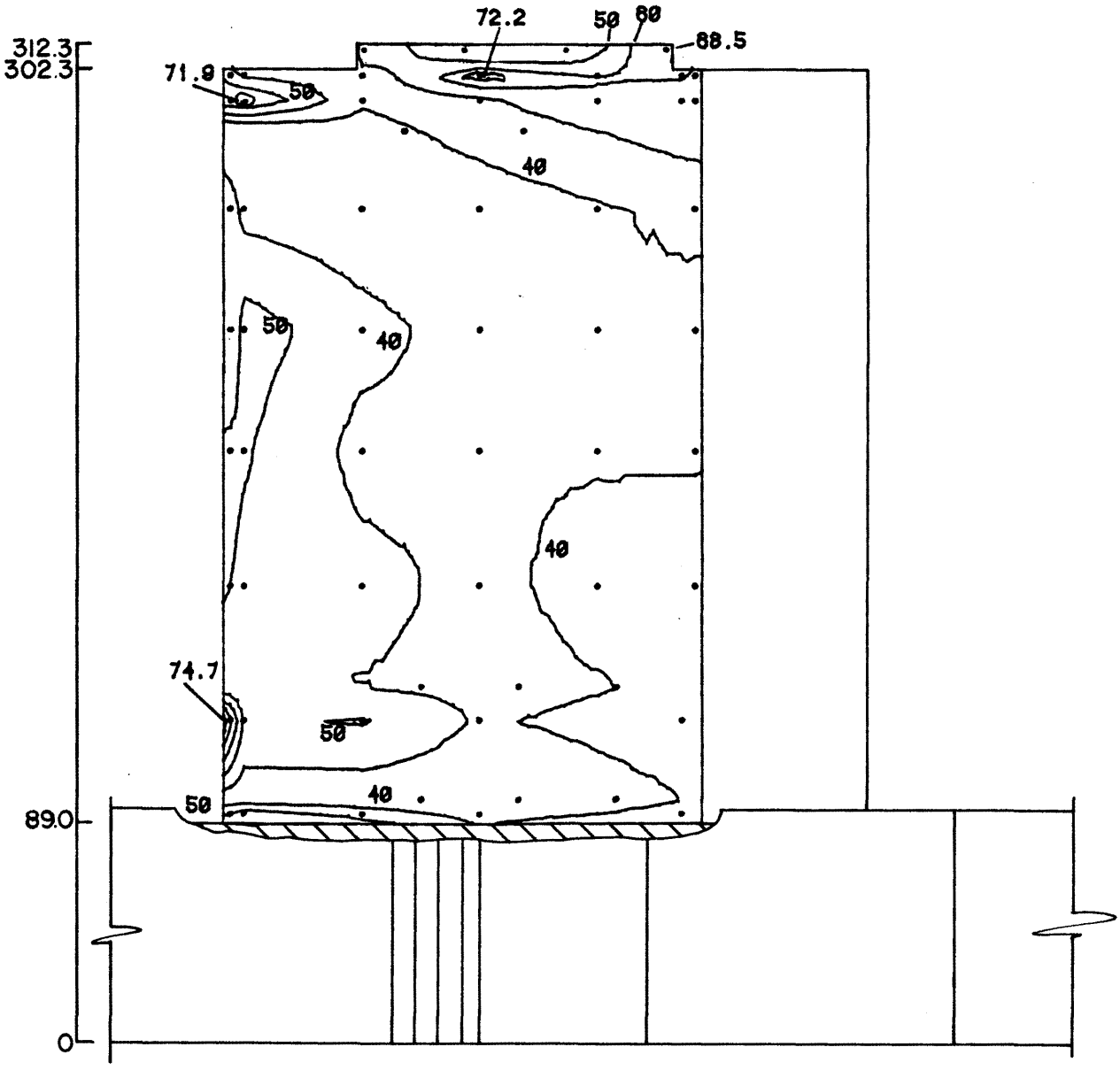



Figure 10ff. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . NORTH ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

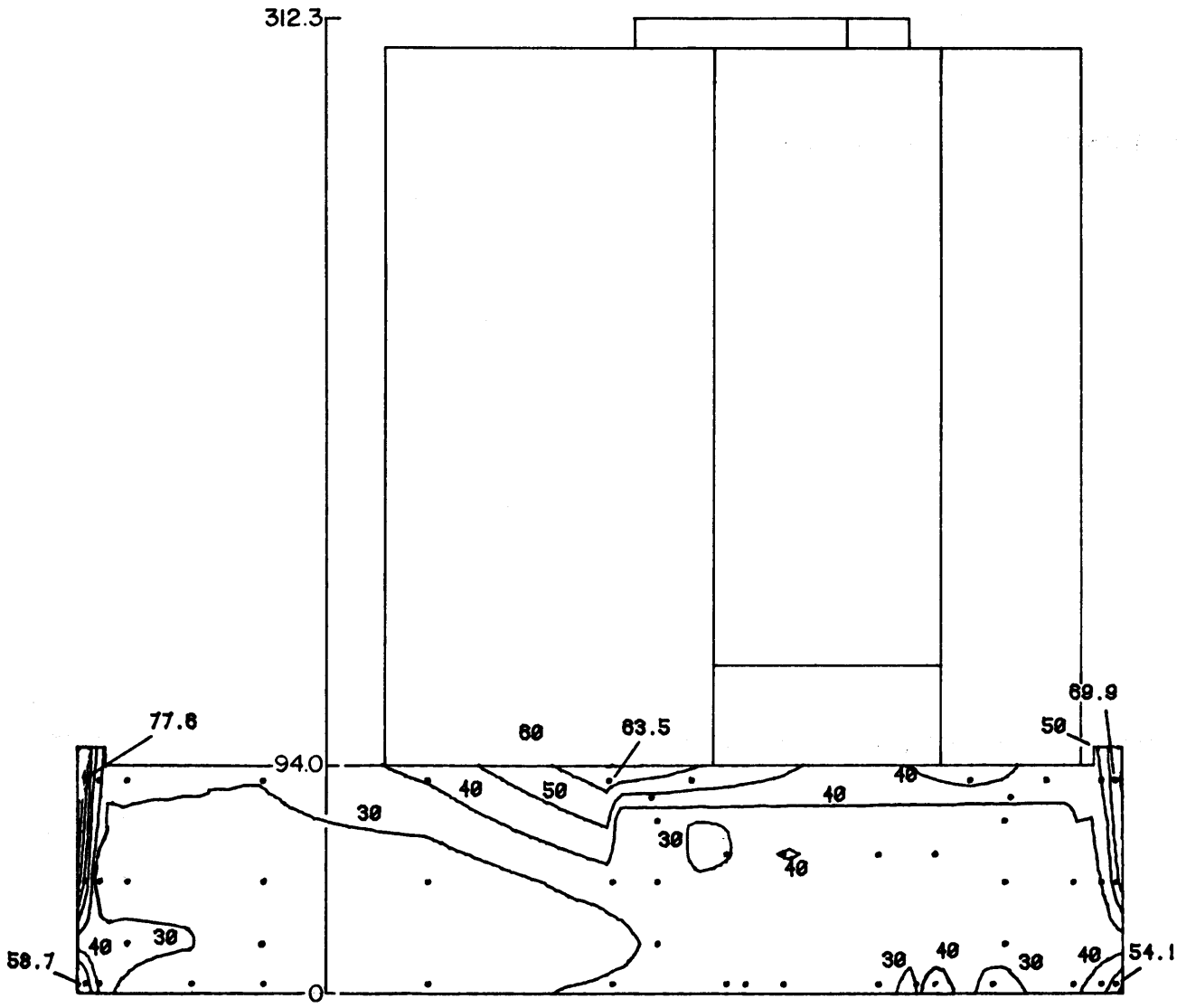



Figure 10gg. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . EAST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

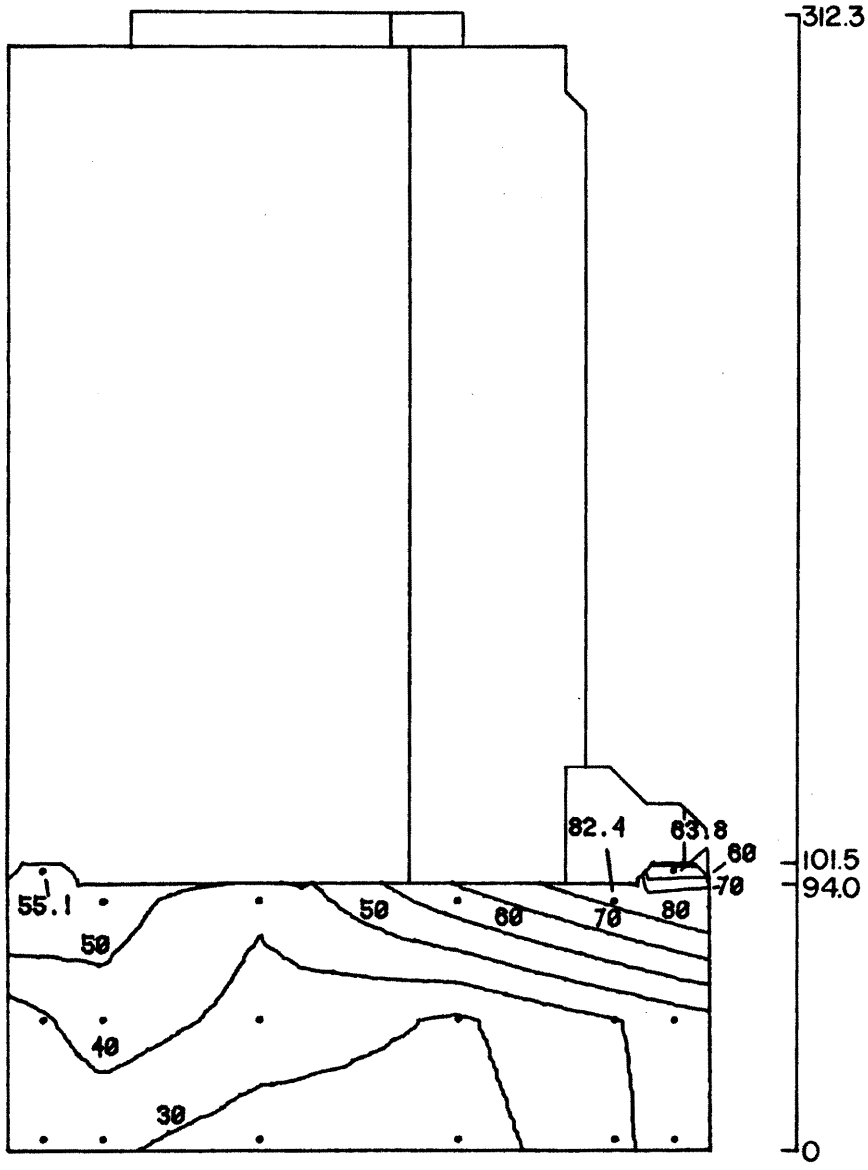



Figure 10hh. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . SOUTH ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

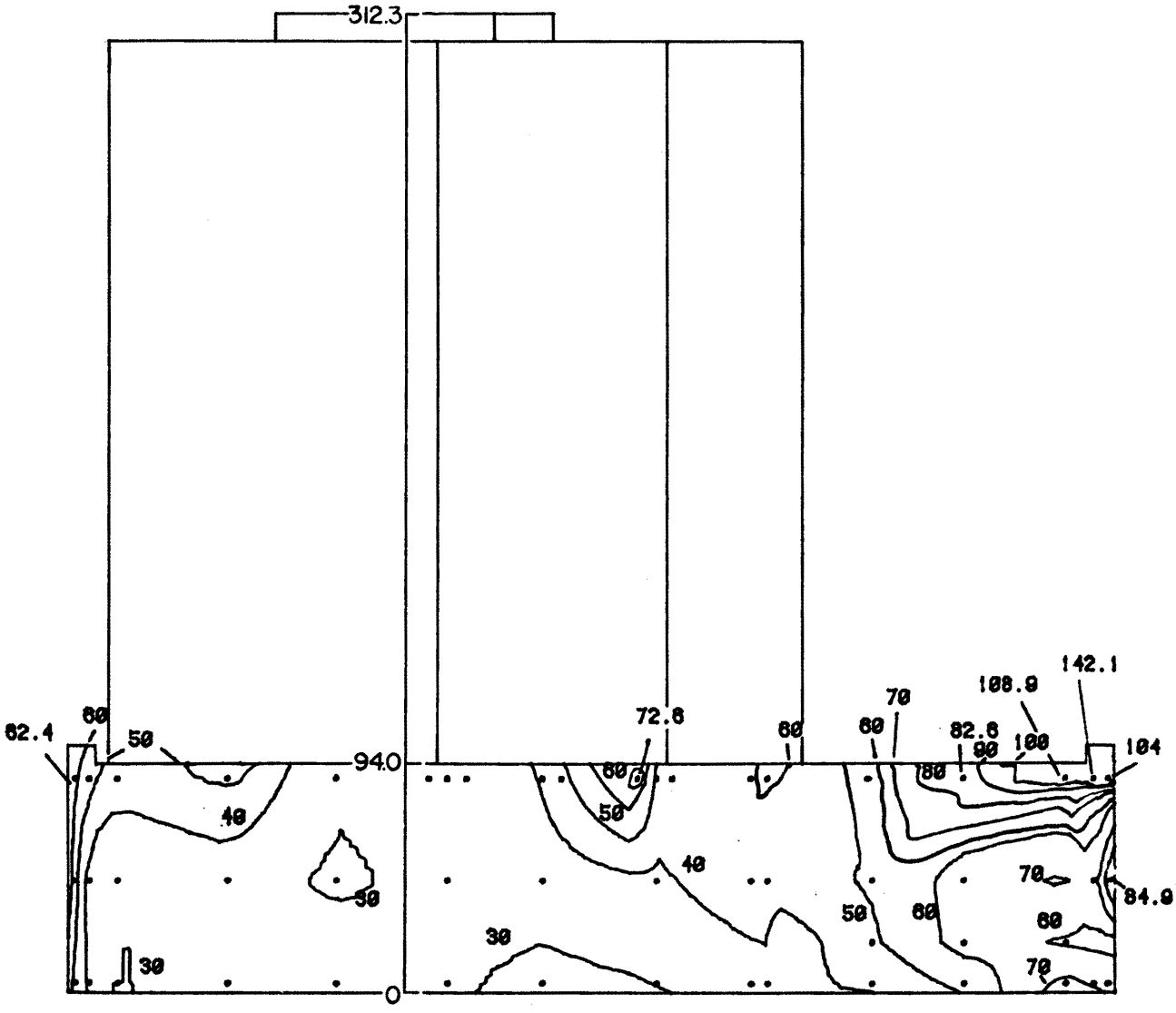



Figure 10ii. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . WEST ELEVATION
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

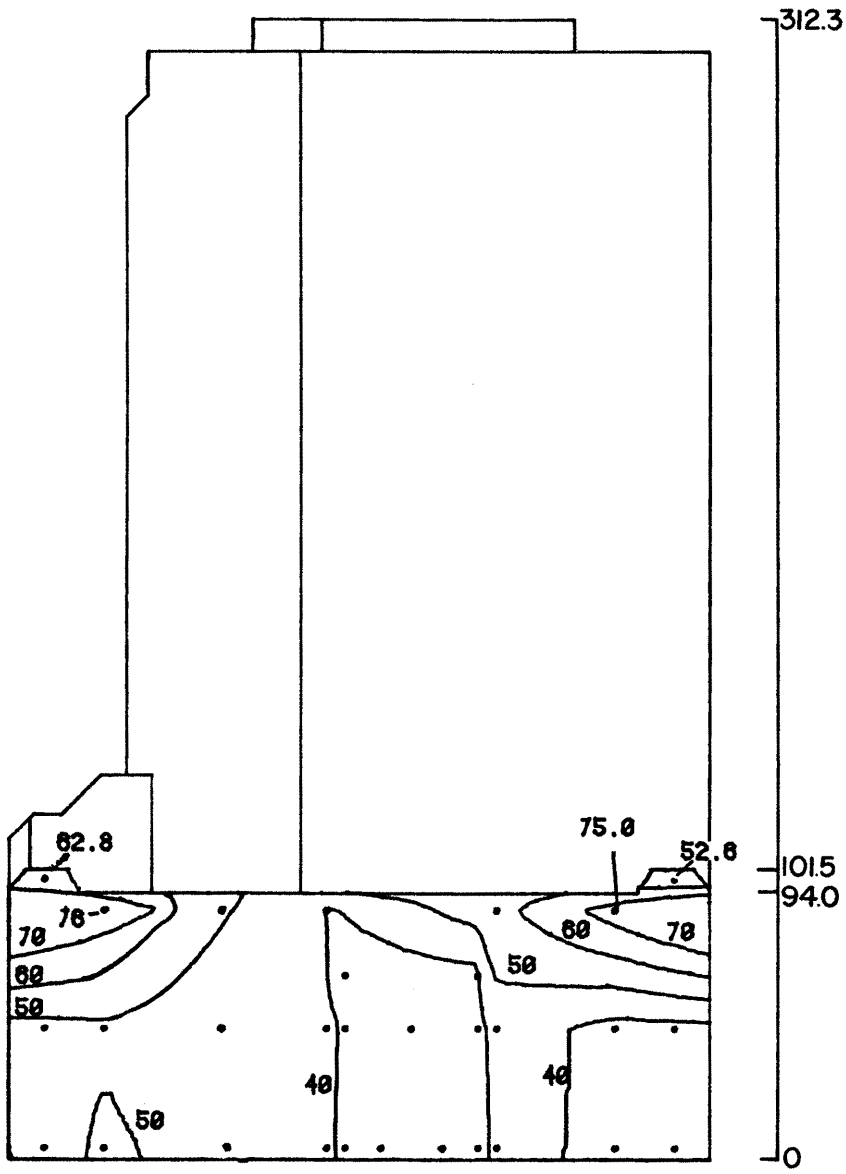
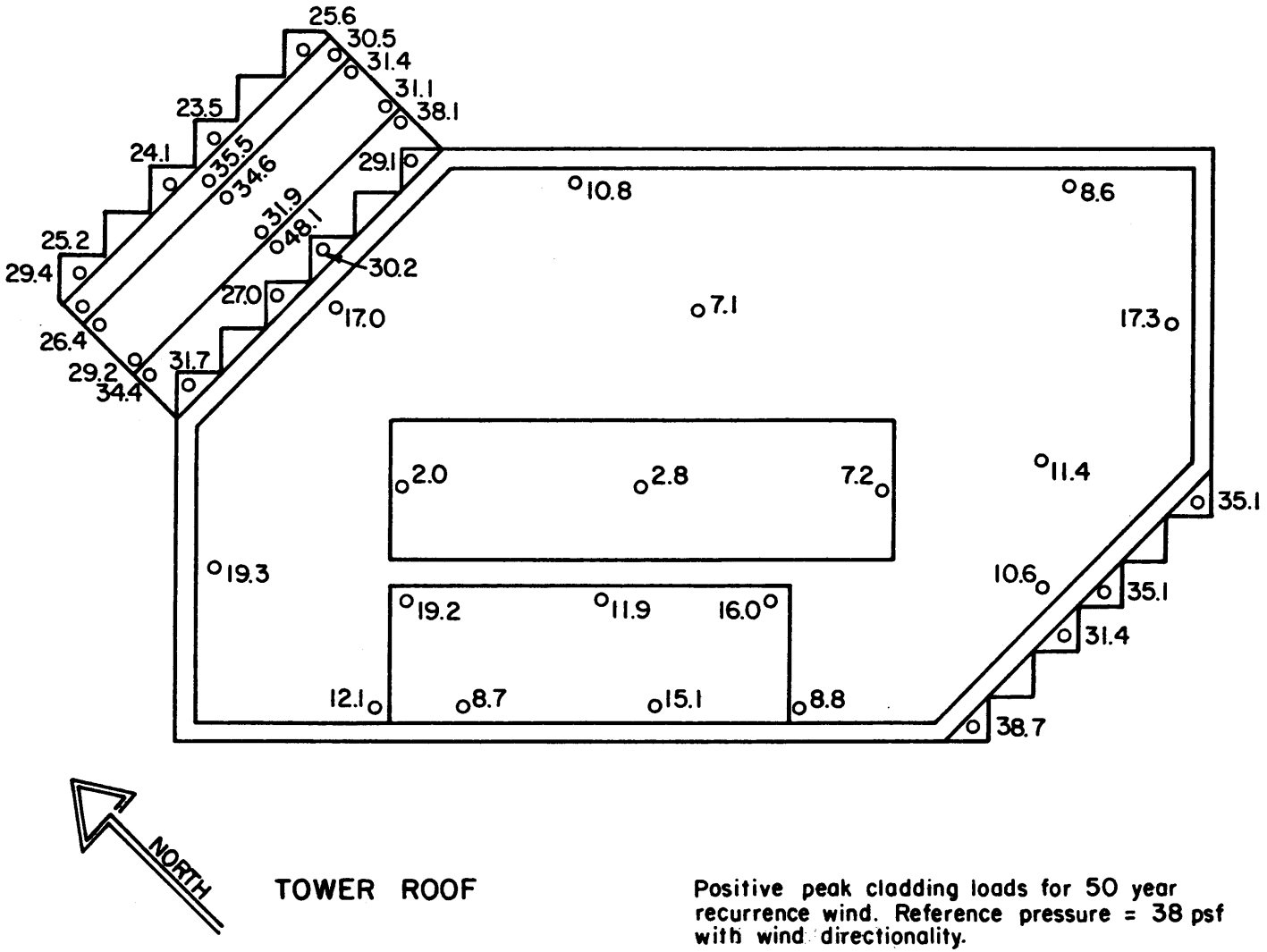



Figure 10jj. Peak Pressure Distribution on the Building for Cladding Loads

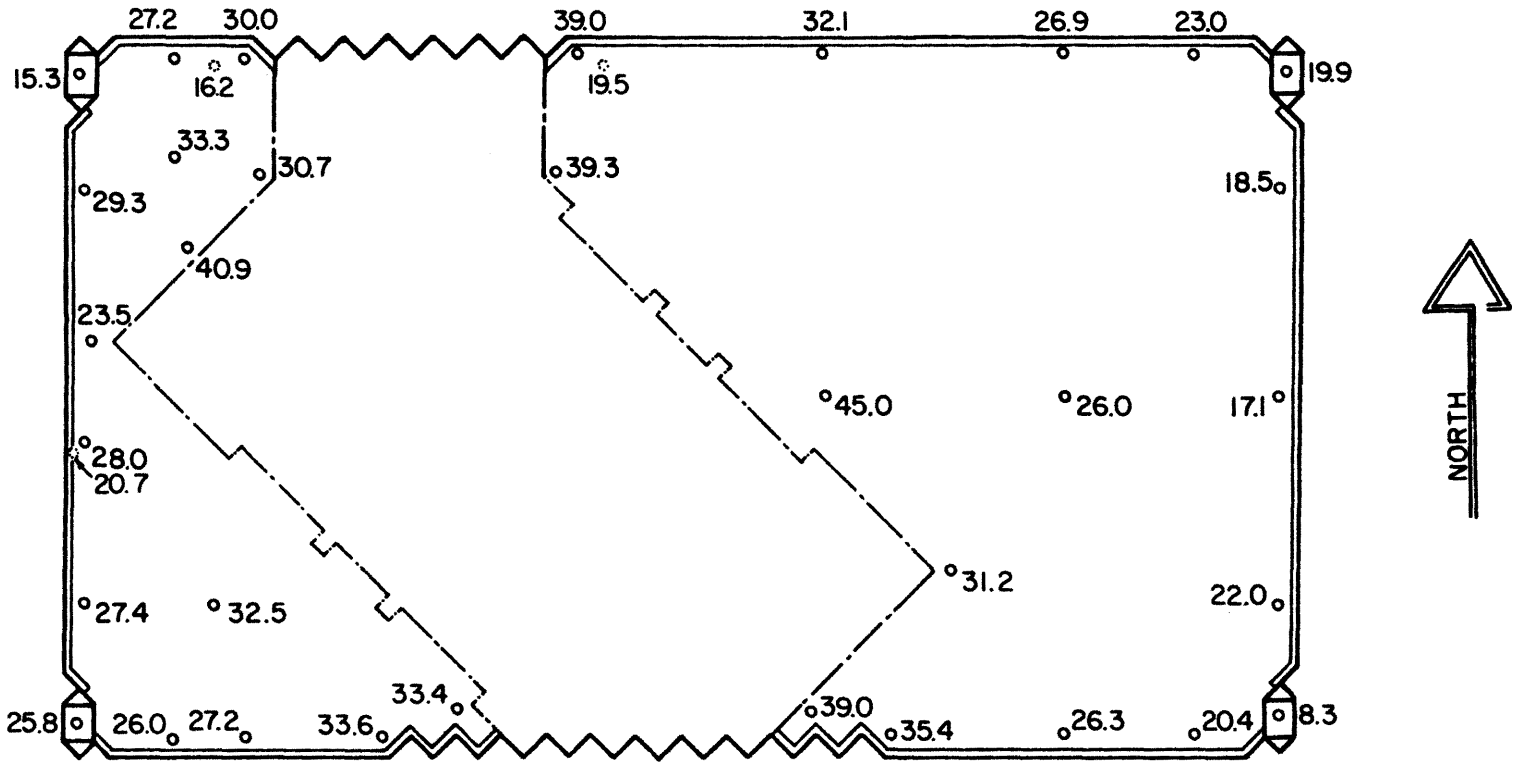



TOWER ROOF

Positive peak cladding loads for 50 year recurrence wind. Reference pressure = 38 psf with wind directionality.

THREE LAKEWAY CENTER

Figure 10kk. Peak Pressure Distribution on the Building for Cladding Loads




LOWRISE ROOF

Positive peak cladding loads for 50 year recurrence wind. Reference pressure = 38psf with wind directionality.

THREE LAKEWAY CENTER

Figure 10ℓℓ. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . NORTH-WEST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

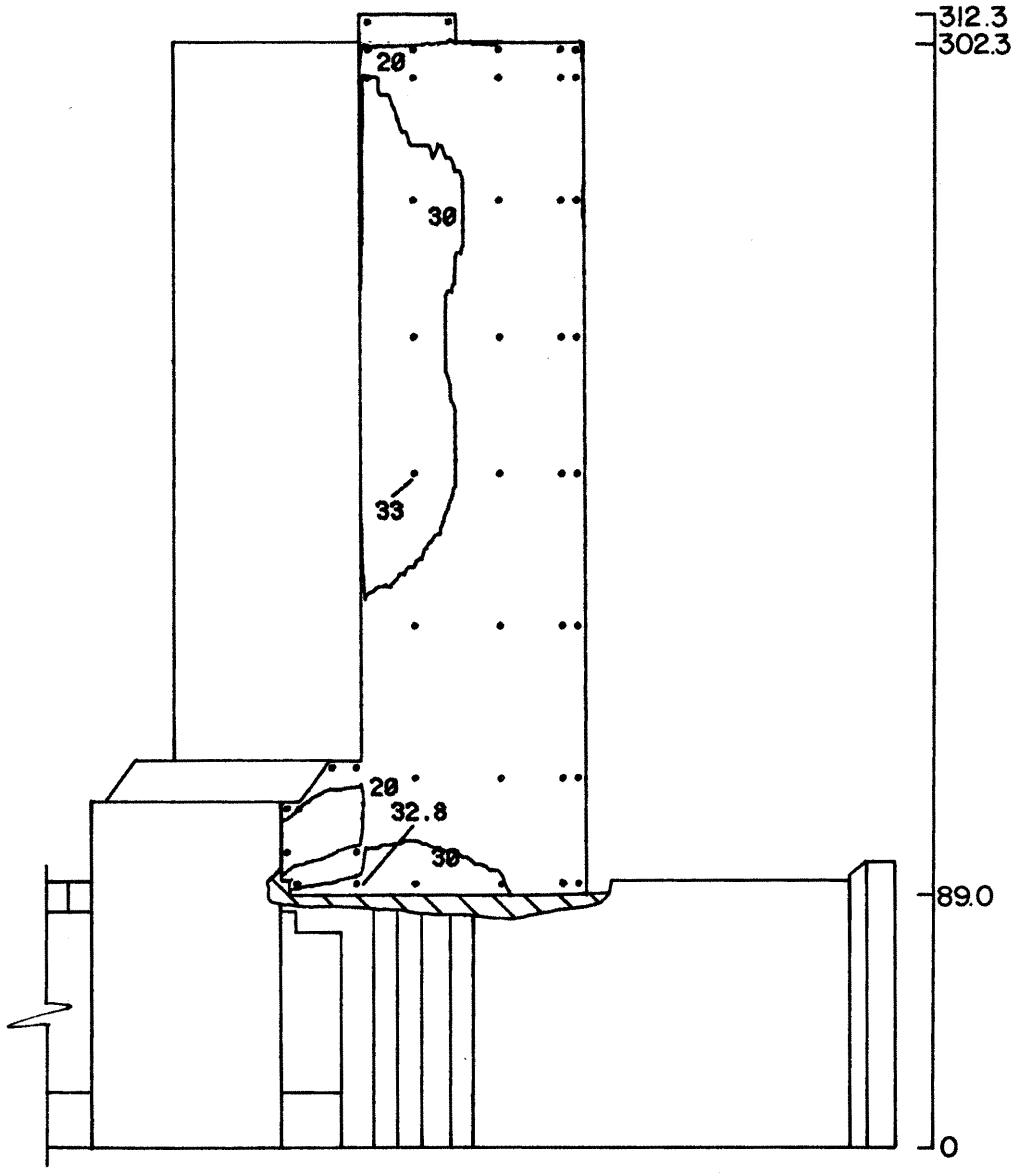



Figure 10mm. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . NORTH ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

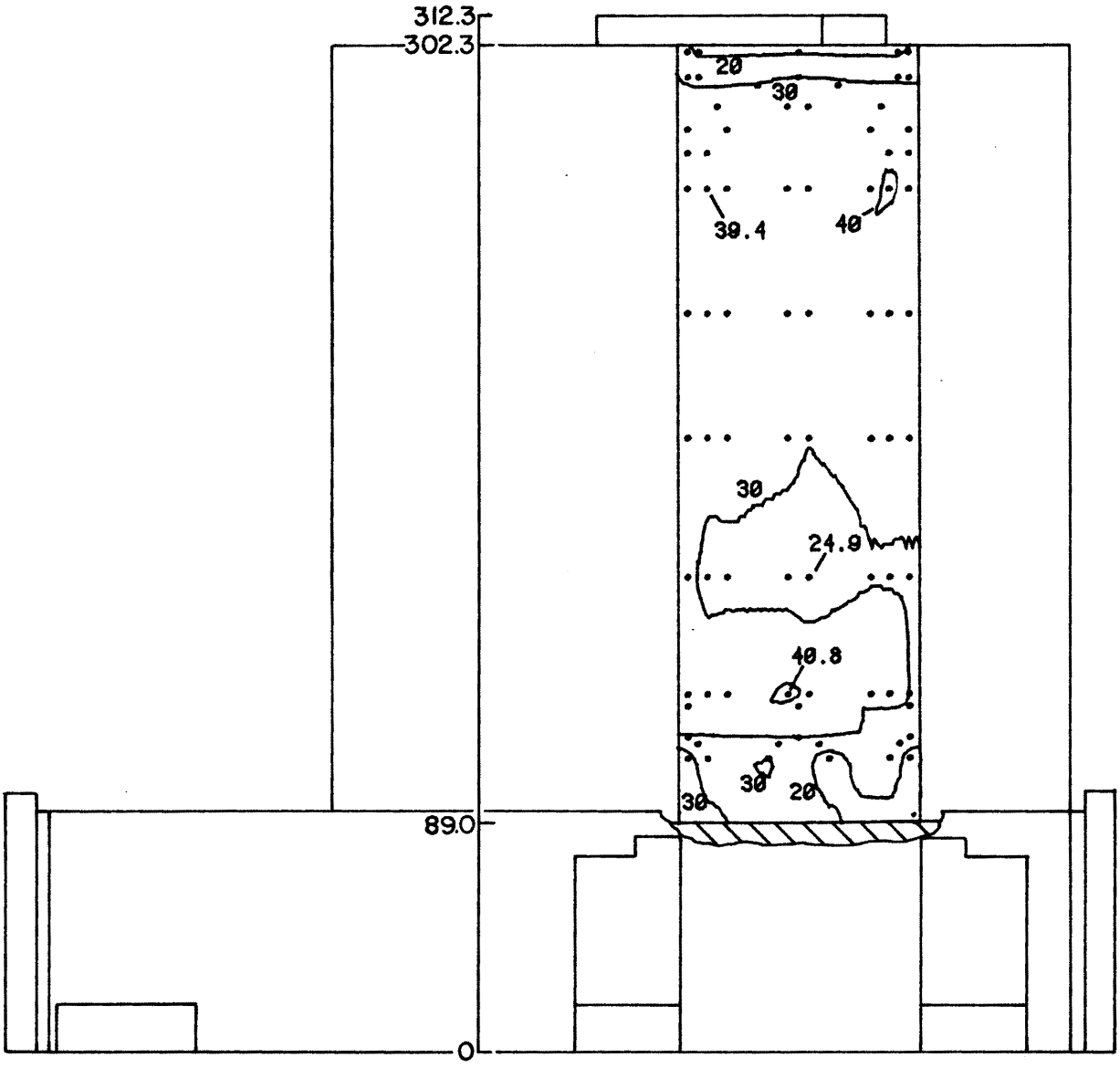



Figure 10nn. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . NORTH-EAST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

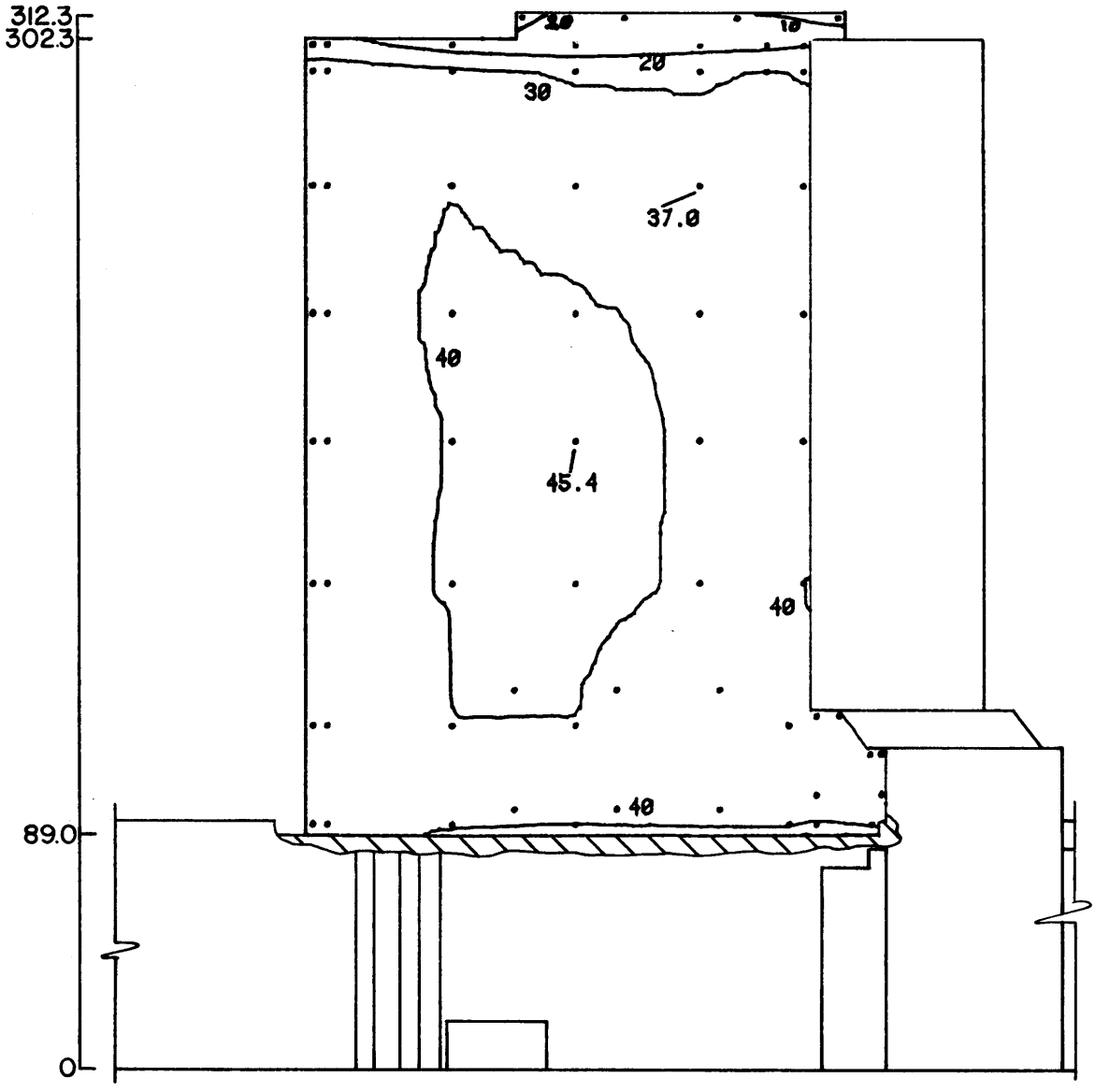



Figure 10oo. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . SOUTH-EAST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

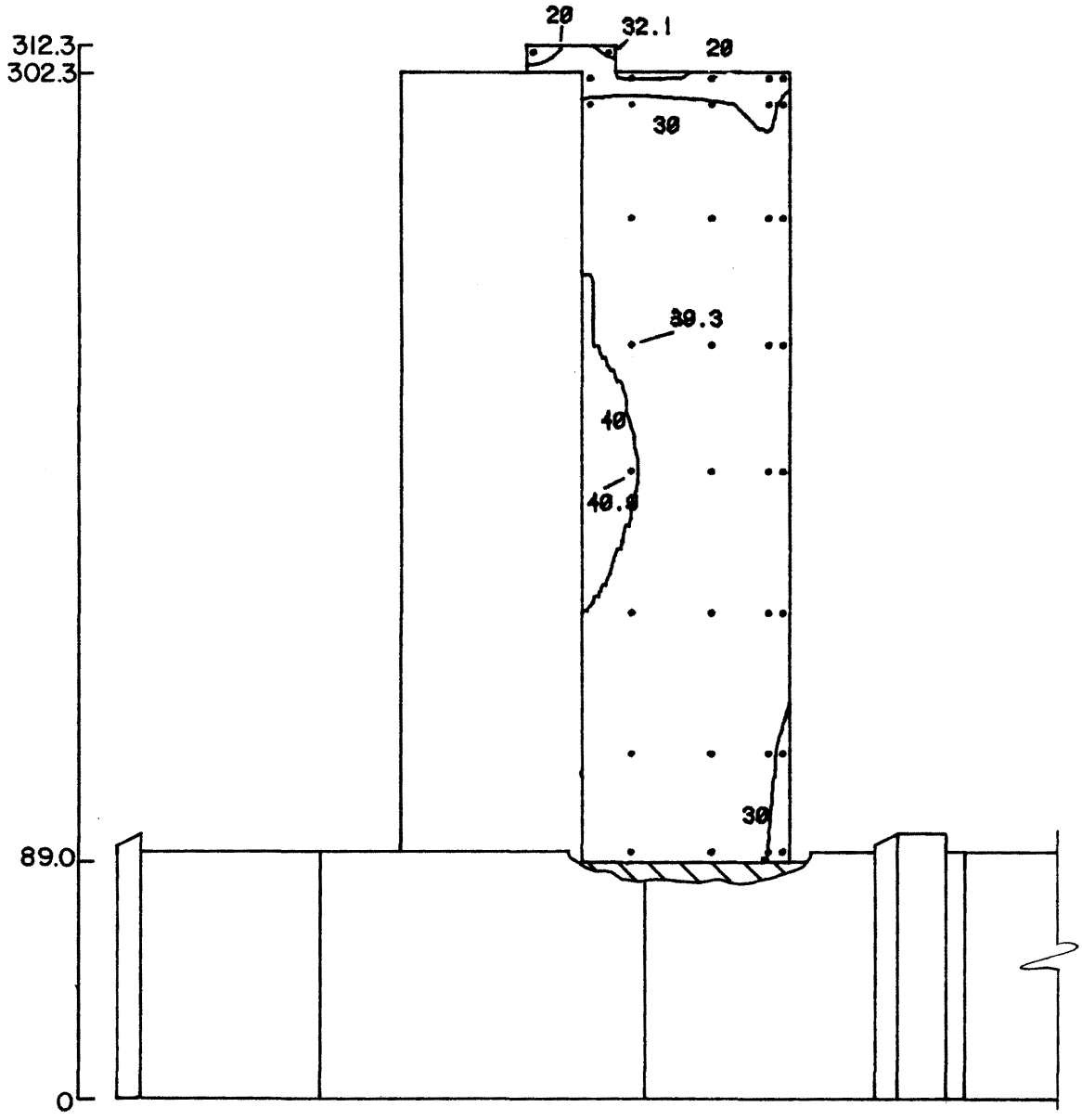



Figure 10pp. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . SOUTH ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

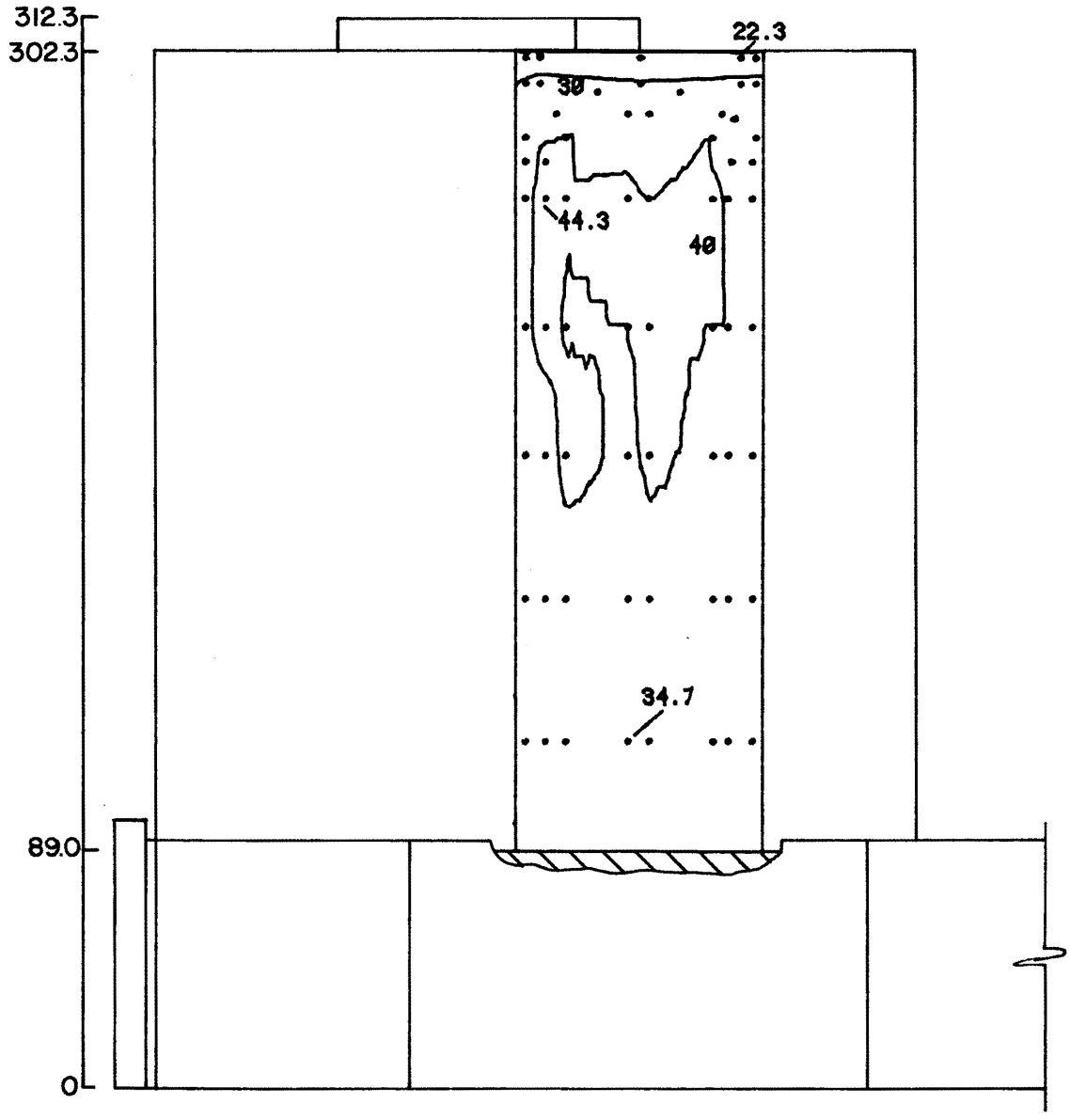



Figure 10qq. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
TOWER . SOUTH-WEST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

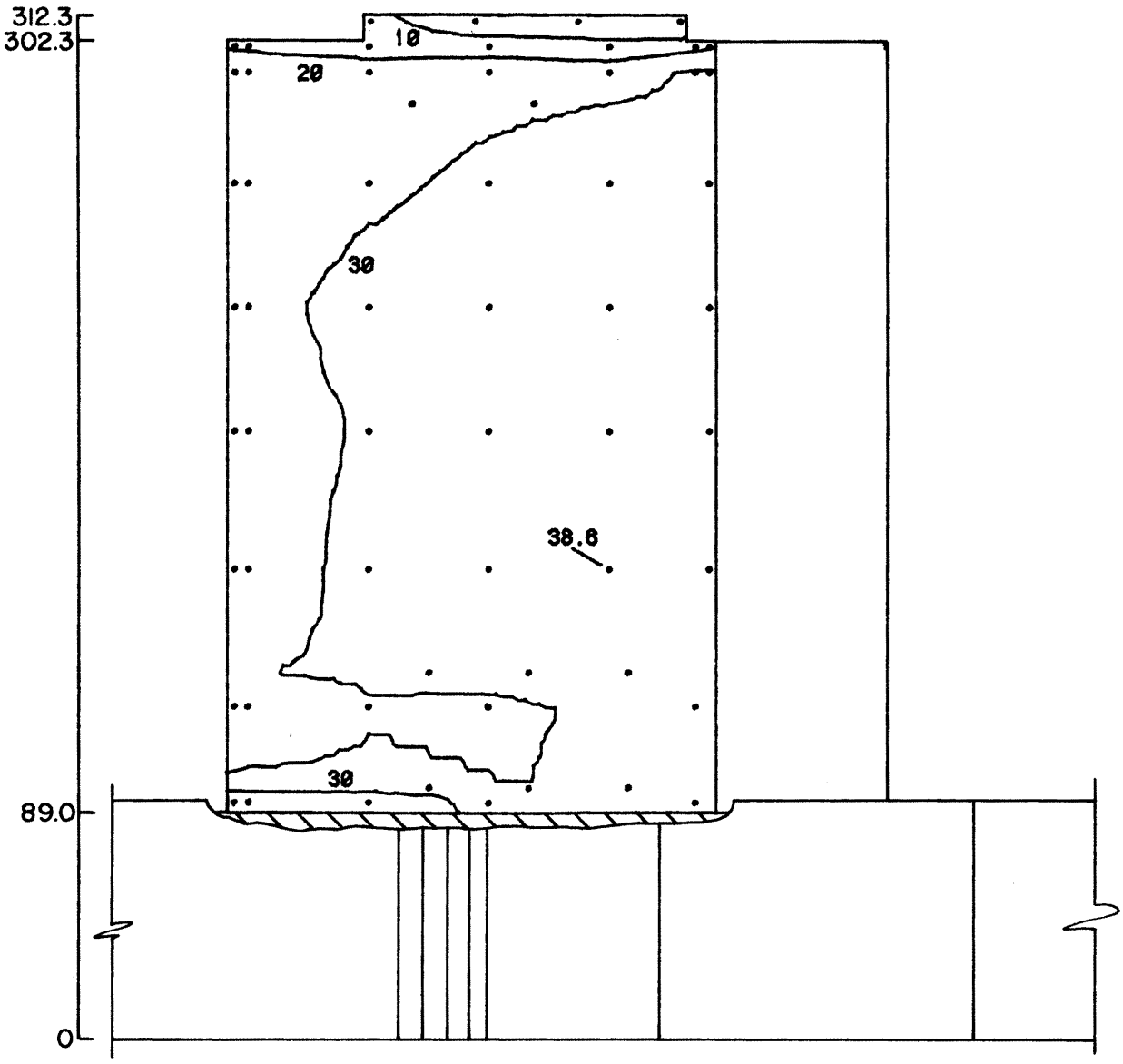



Figure 10rr. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . NORTH ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

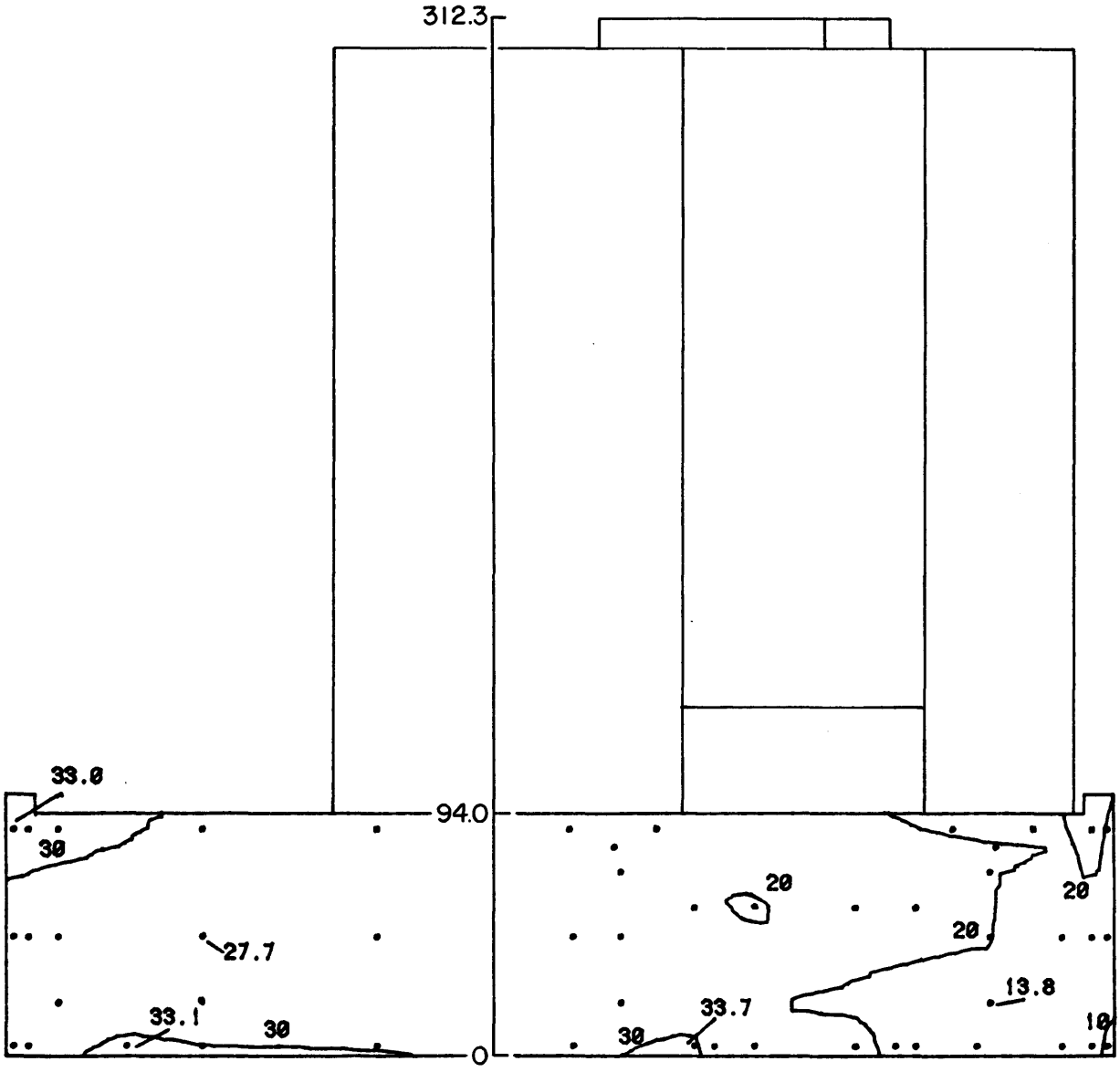



Figure 10ss. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . EAST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

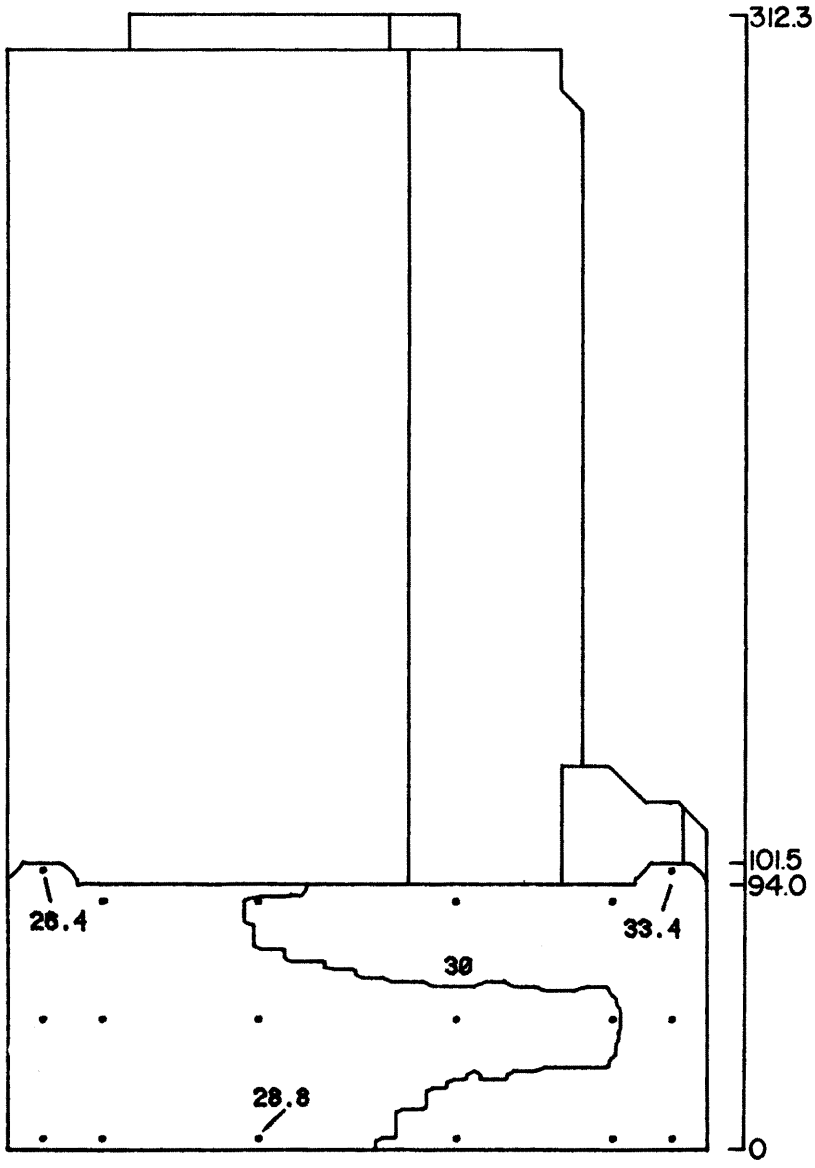



Figure 10tt. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . SOUTH ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

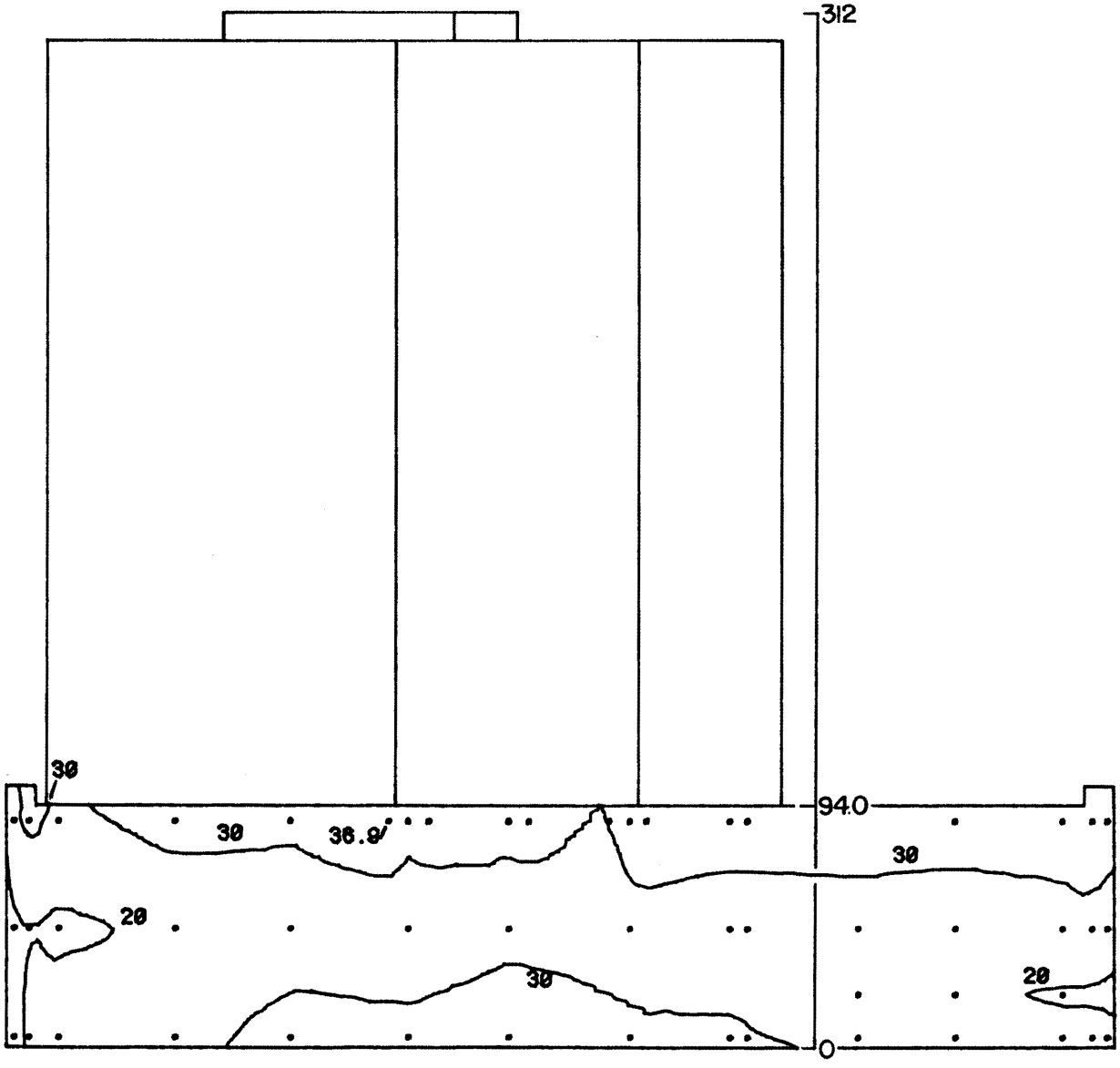



Figure 10uu. Peak Pressure Distribution on the Building for Cladding Loads

THREE LAKEWAY CENTER
LOWRISE . WEST ELEVATION
PEAK POSITIVE CLADDING LOADS (PSF)
FOR 50 YEAR RECURRENCE WIND
WITH WIND DIRECTIONALITY
REFERENCE PRESSURE = 38 PSF

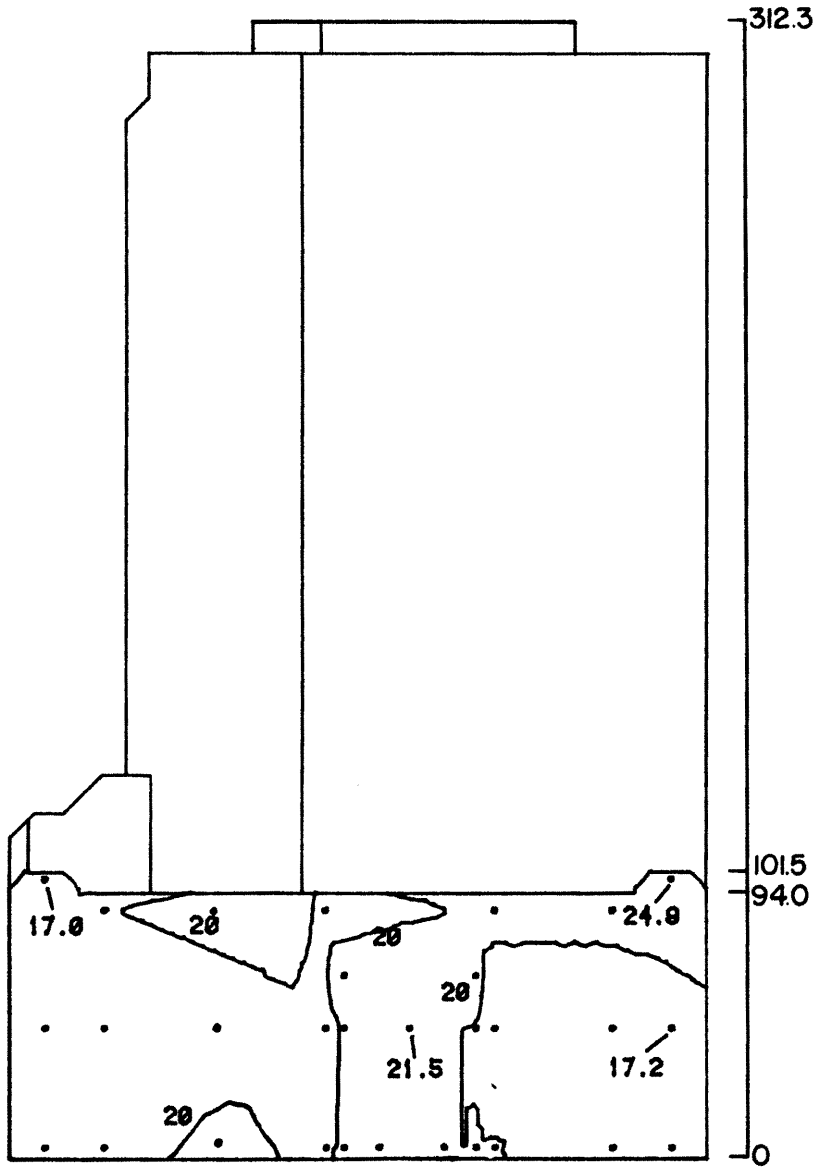



Figure 10vv. Peak Pressure Distribution on the Building for Cladding Loads

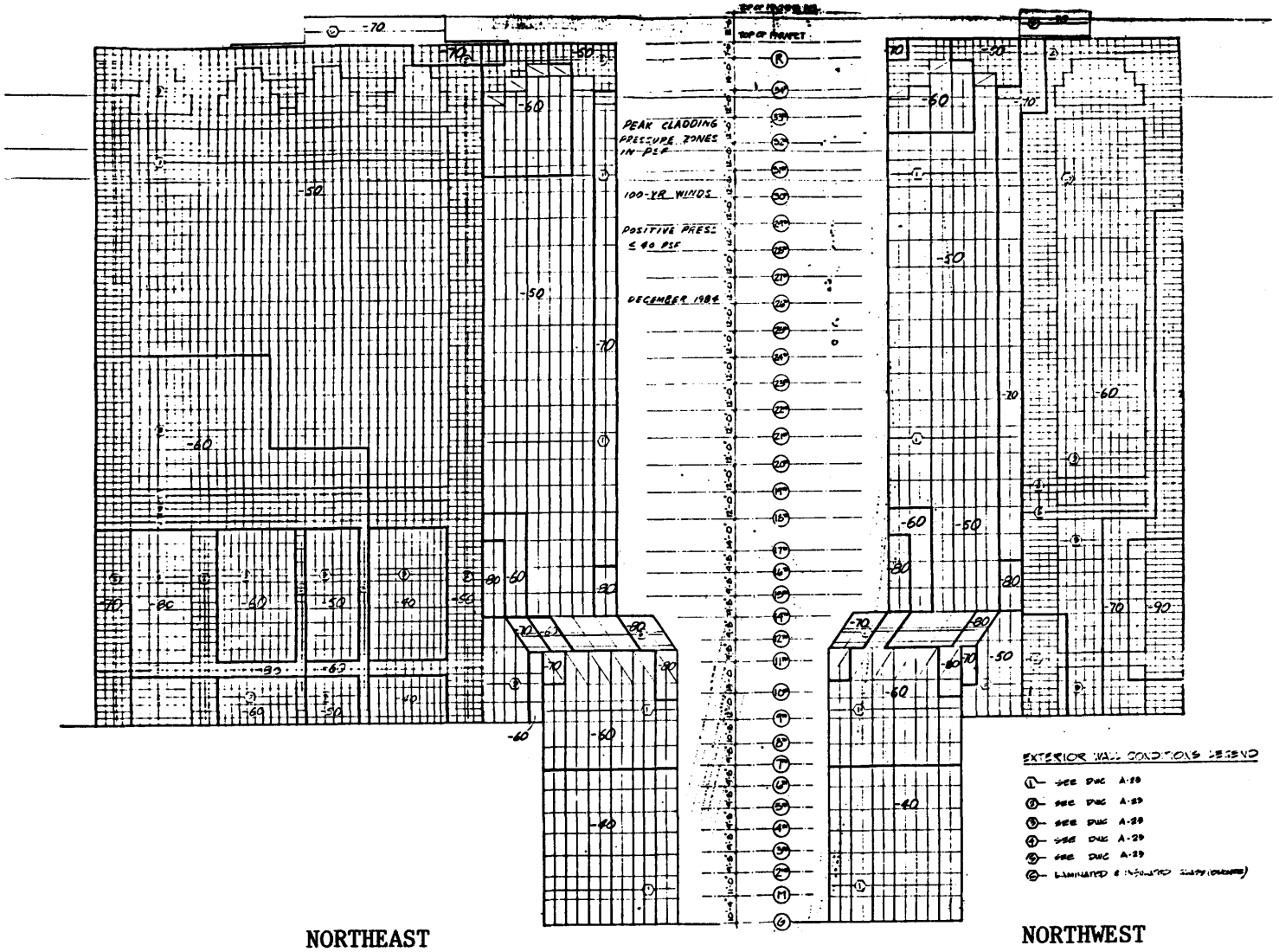



Figure 11a. Peak Cladding Pressure Zones

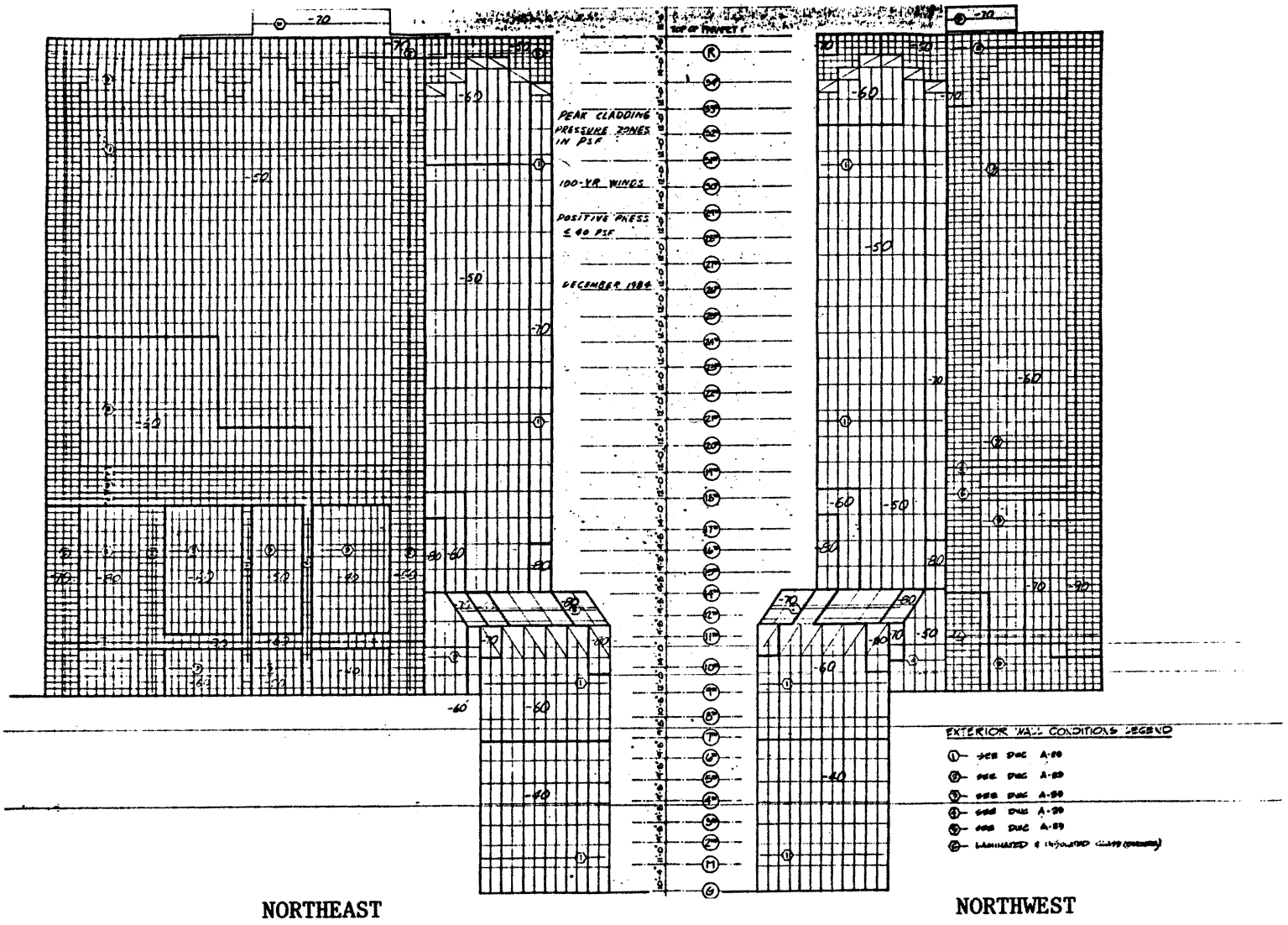



Figure 11b. Peak Cladding Pressure Zones

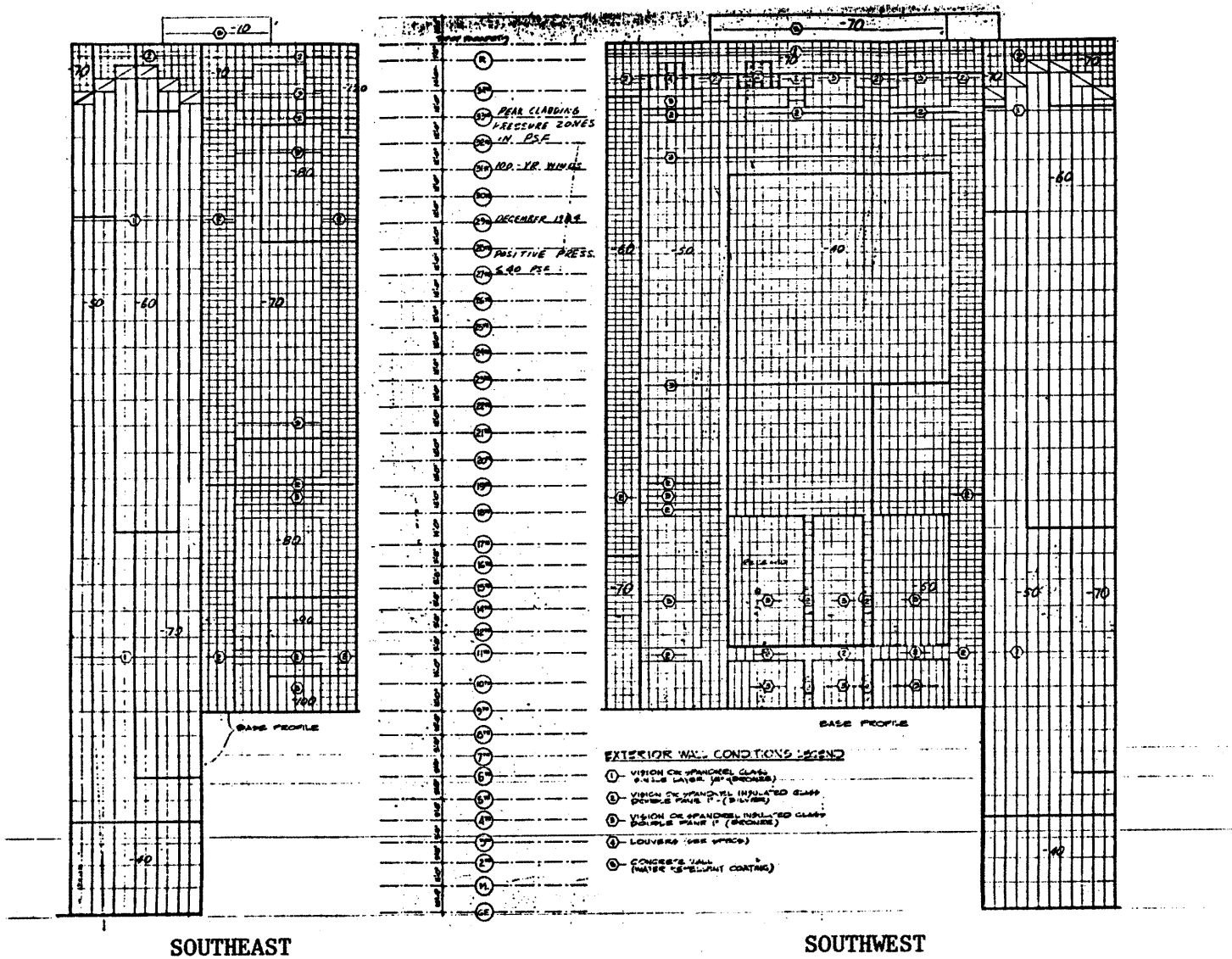



Figure 11c. Peak Cladding Pressure Zones

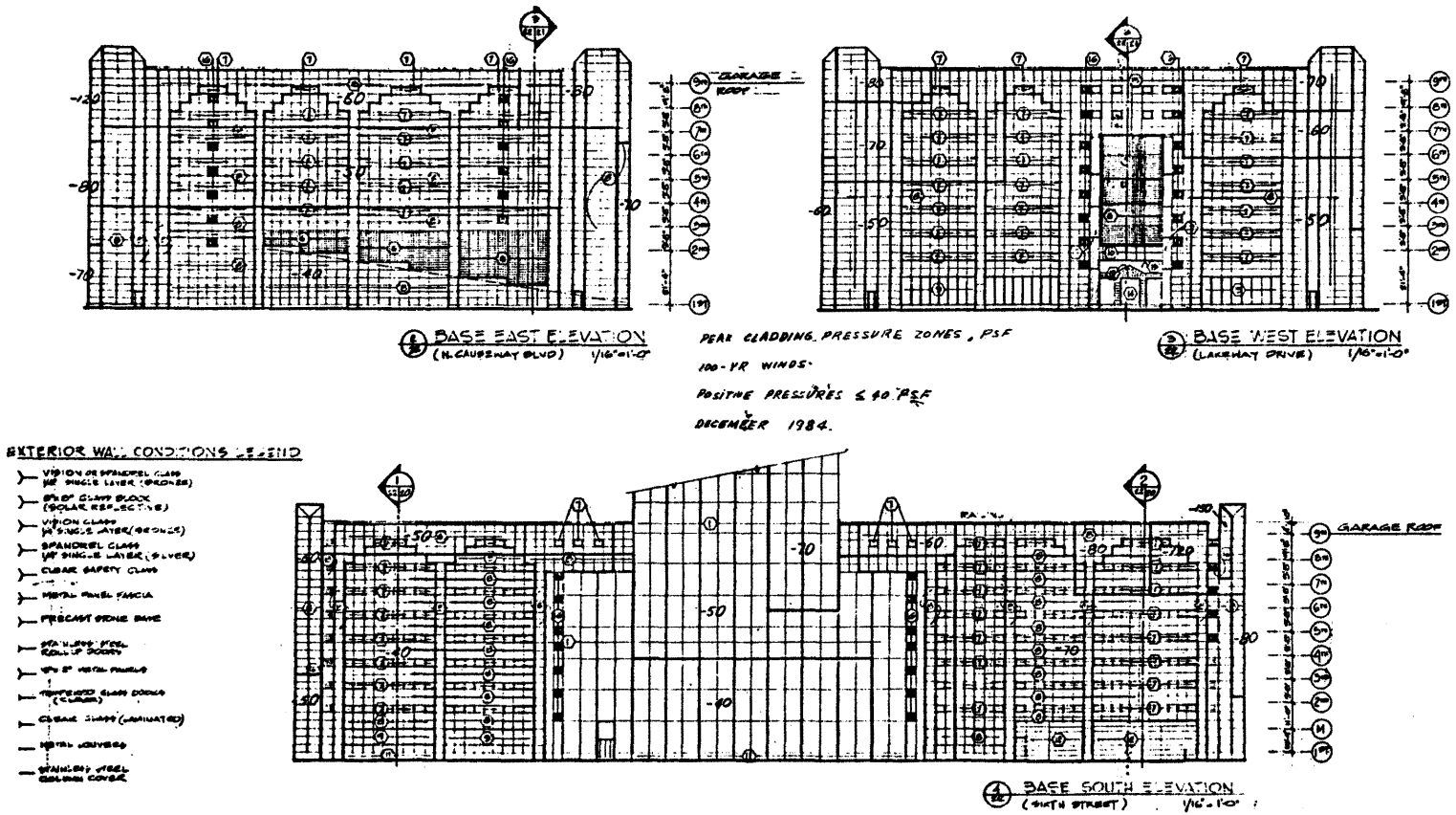



Figure 11d. Peak Cladding Pressure Zones

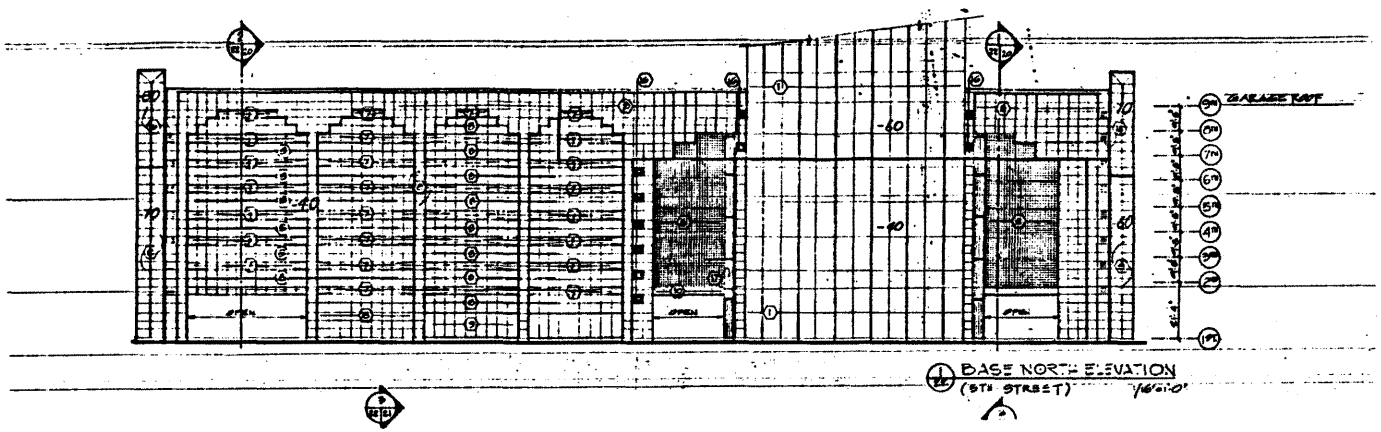
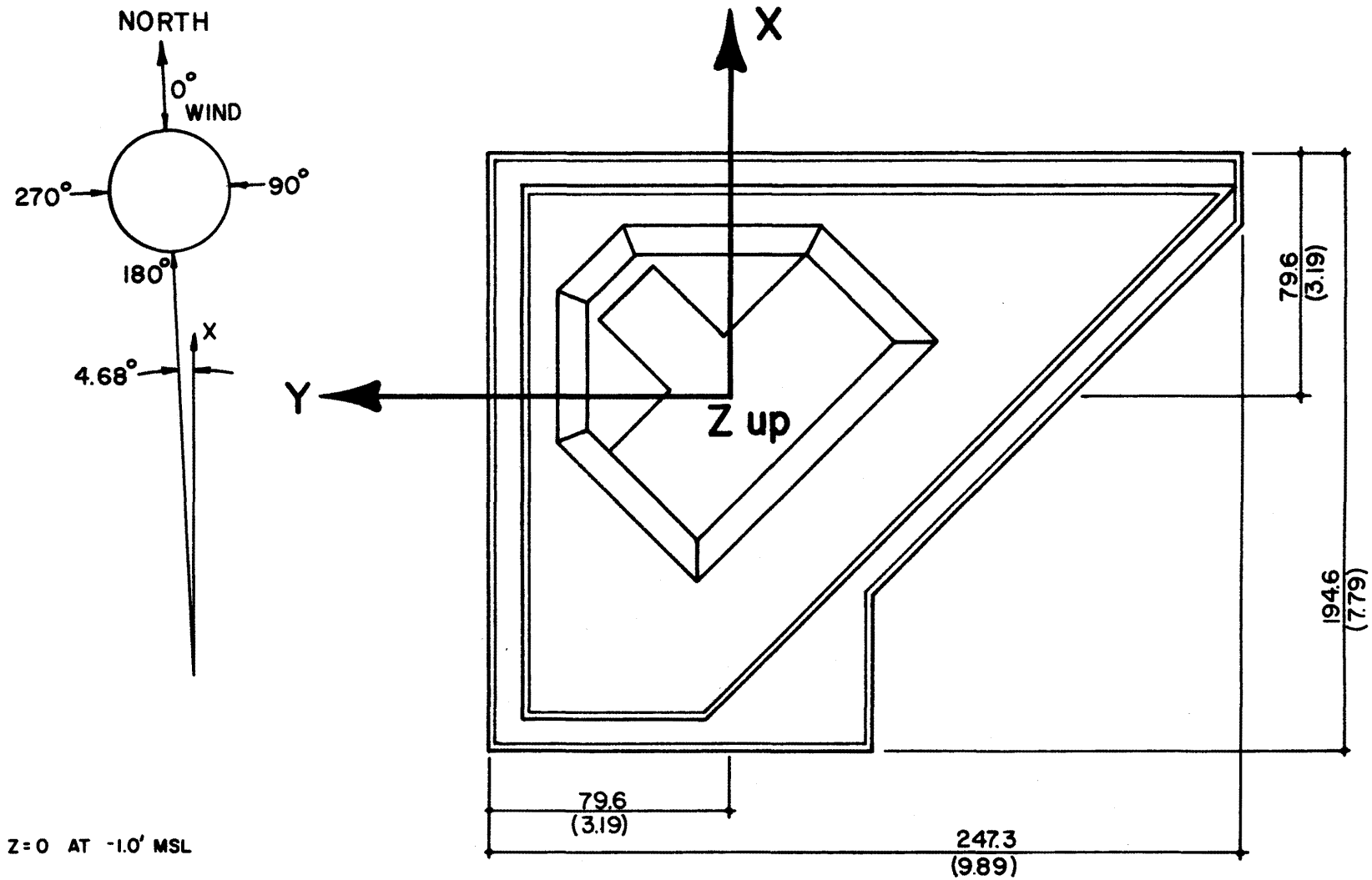
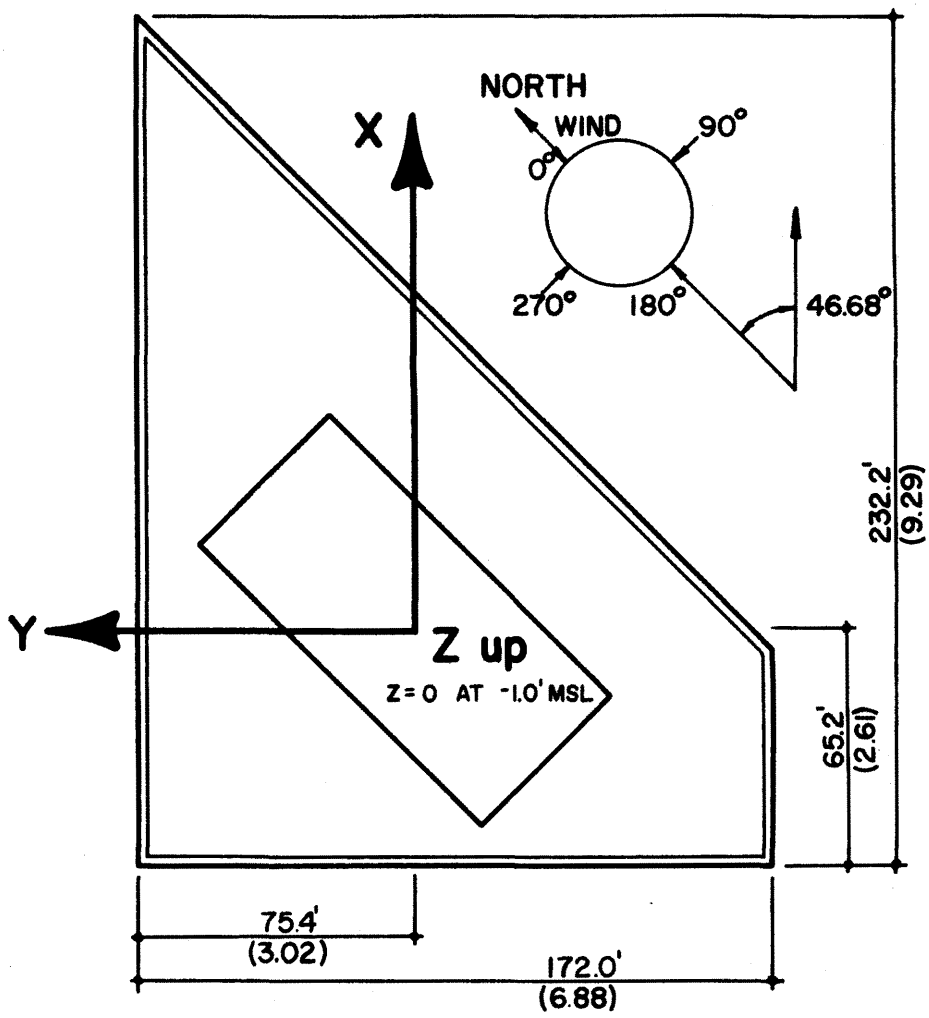



Figure 11e. Peak Cladding Pressure Zones



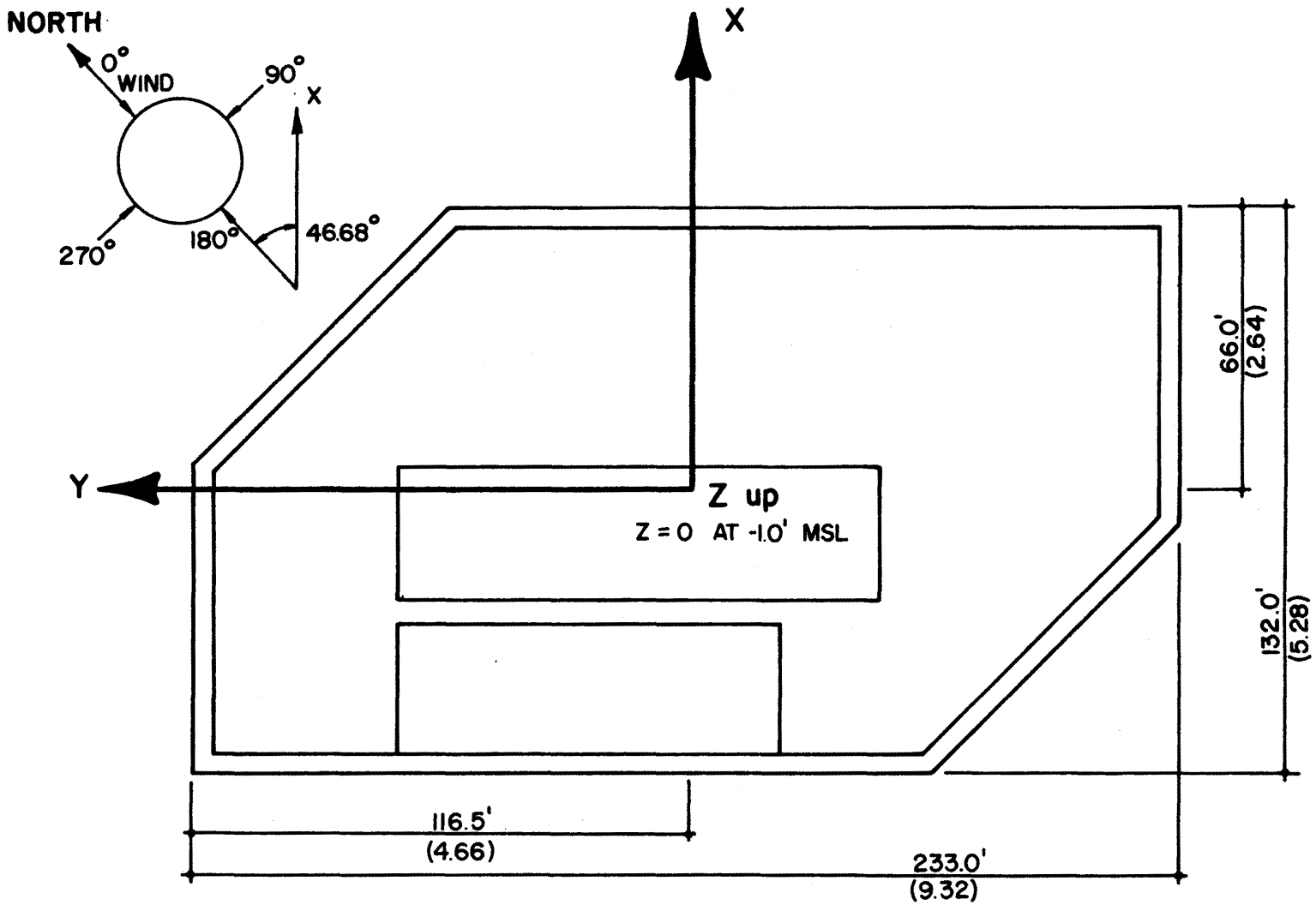

ONE LAKEWAY CENTER

Figure 12a. Coordinate System for Forces and Moments




TWO LAKEWAY CENTER

Figure 12b. Coordinate System for Forces and Moments




THREE LAKEWAY CENTER

Figure 12c. Coordinate System for Forces and Moments

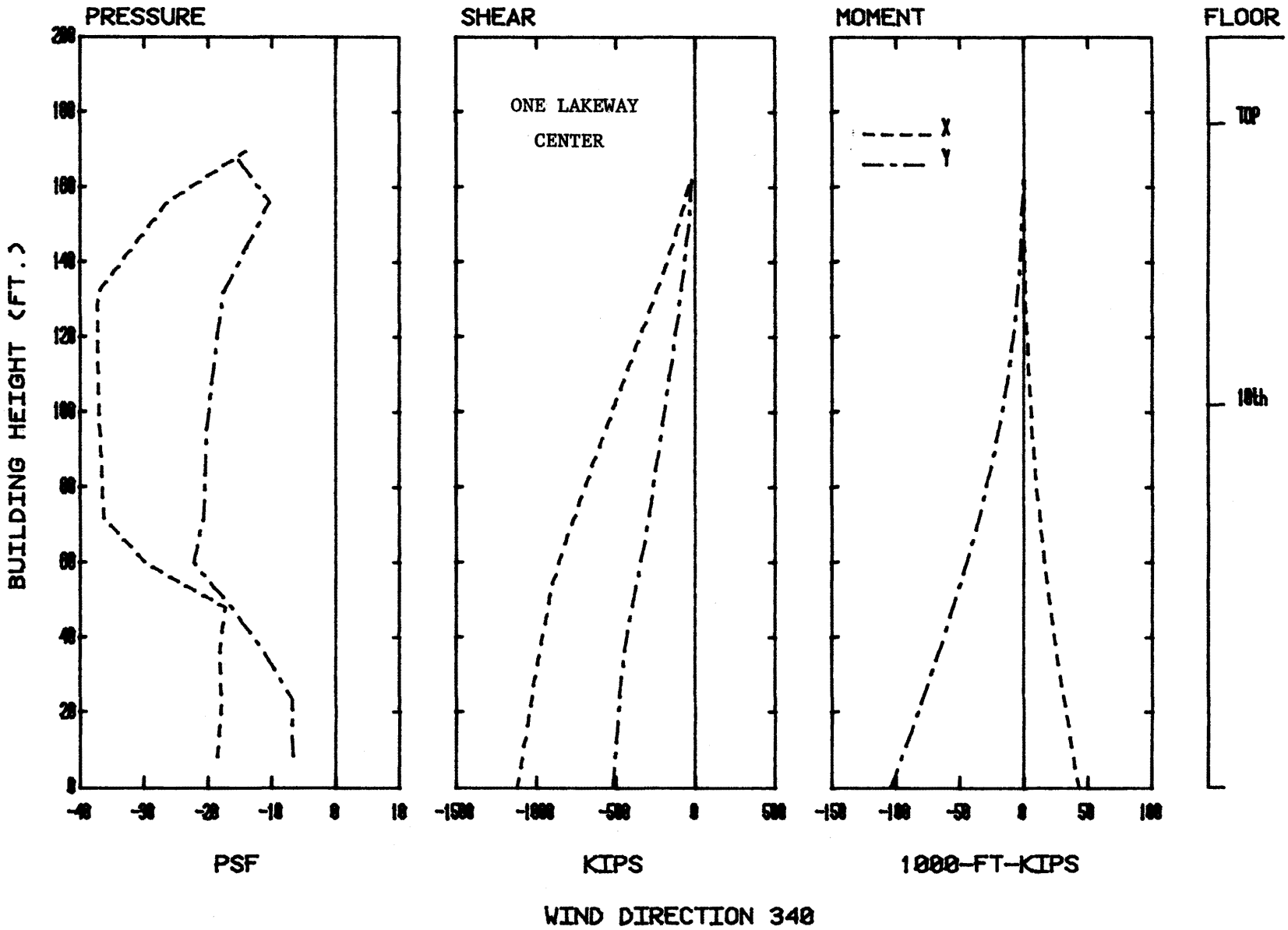



Figure 13a. Load, Shear, and Moment Diagrams for Selected Wind Directions

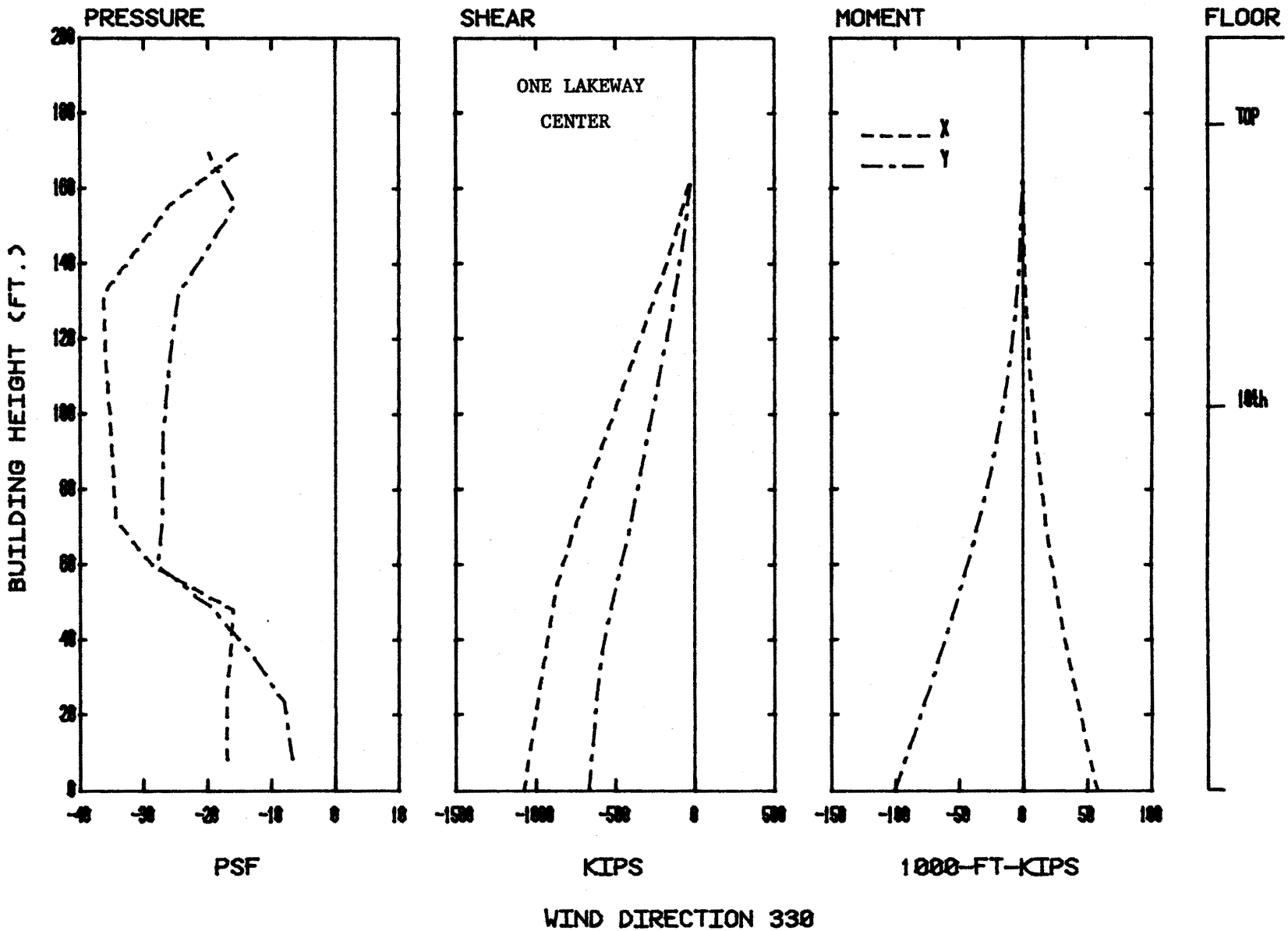



Figure 13b. Load, Shear, and Moment Diagrams for Selected Wind Directions

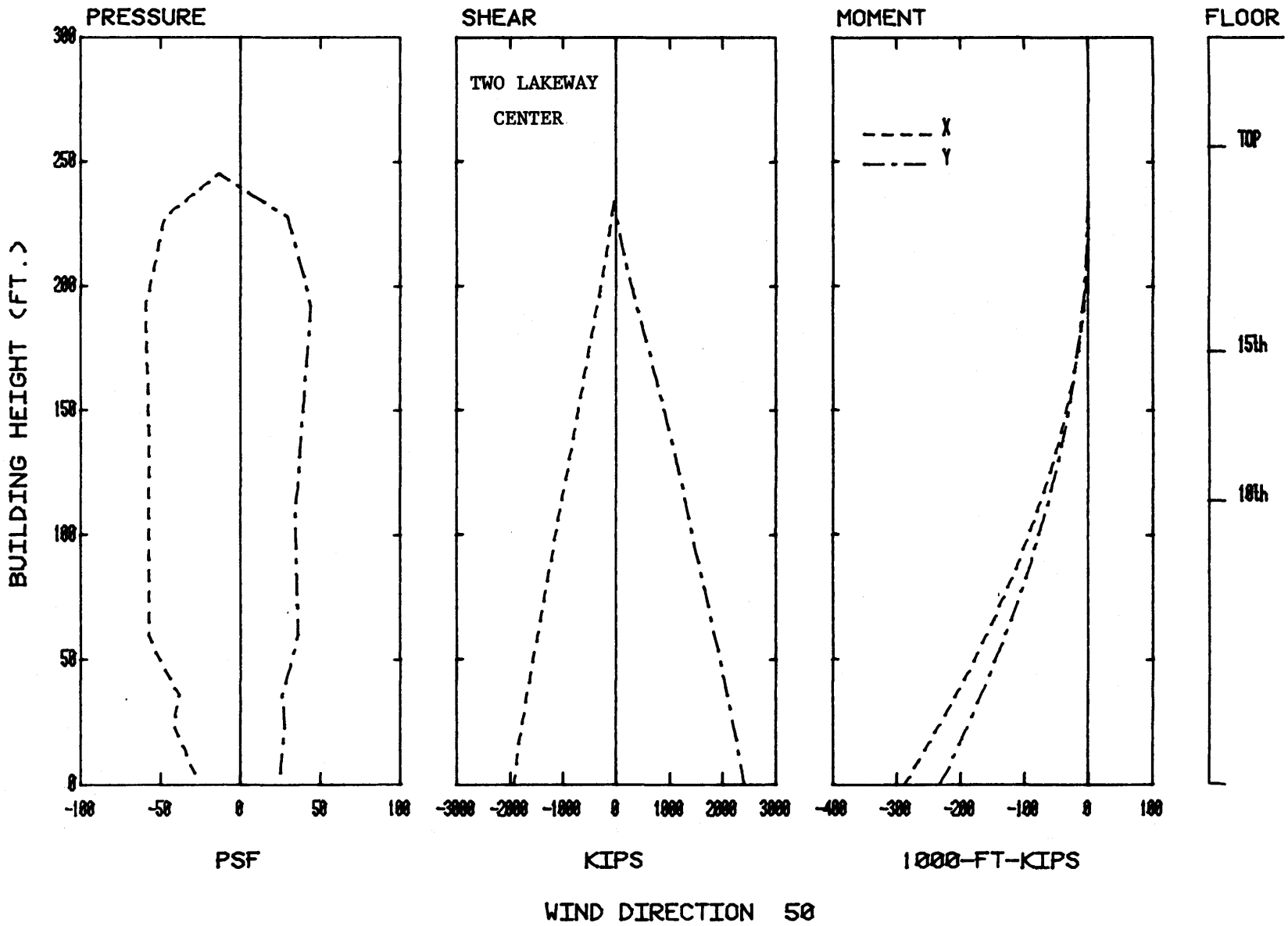



Figure 13c. Load, Shear, and Moment Diagrams for Selected Wind Directions

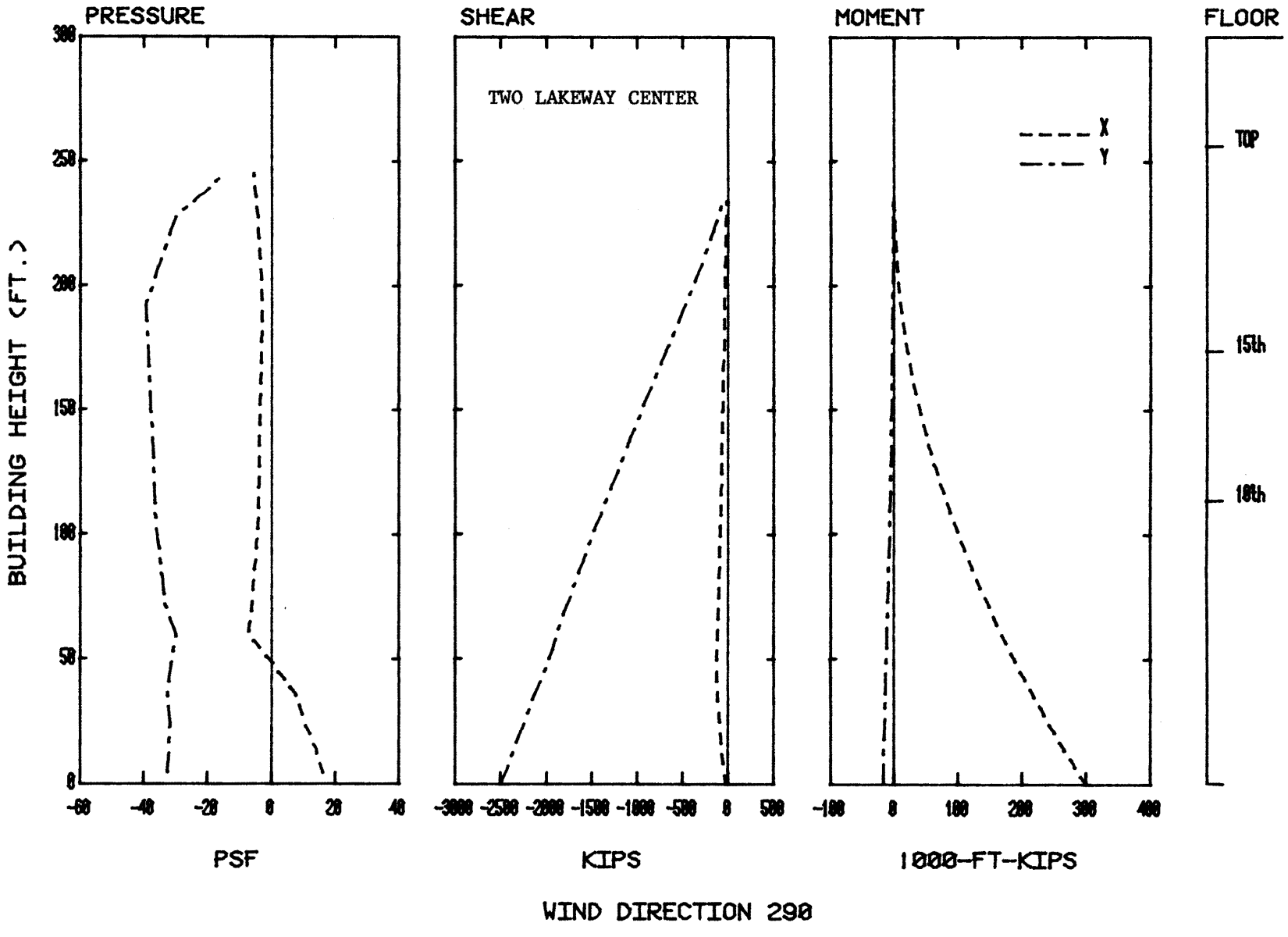



Figure 13d. Load, Shear, and Moment Diagrams for Selected Wind Directions

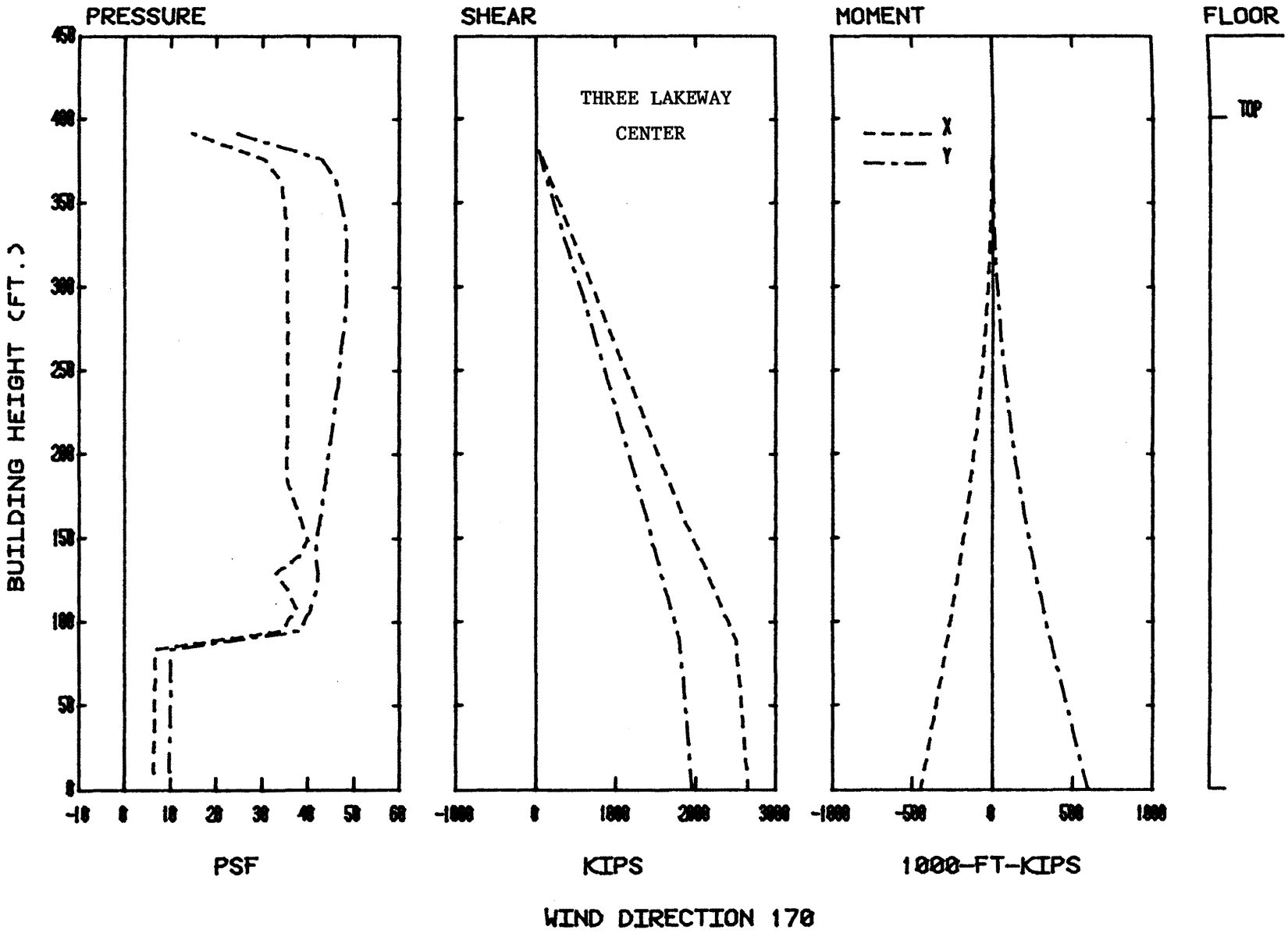



Figure 13e. Load, Shear, and Moment Diagrams for Selected Wind Directions

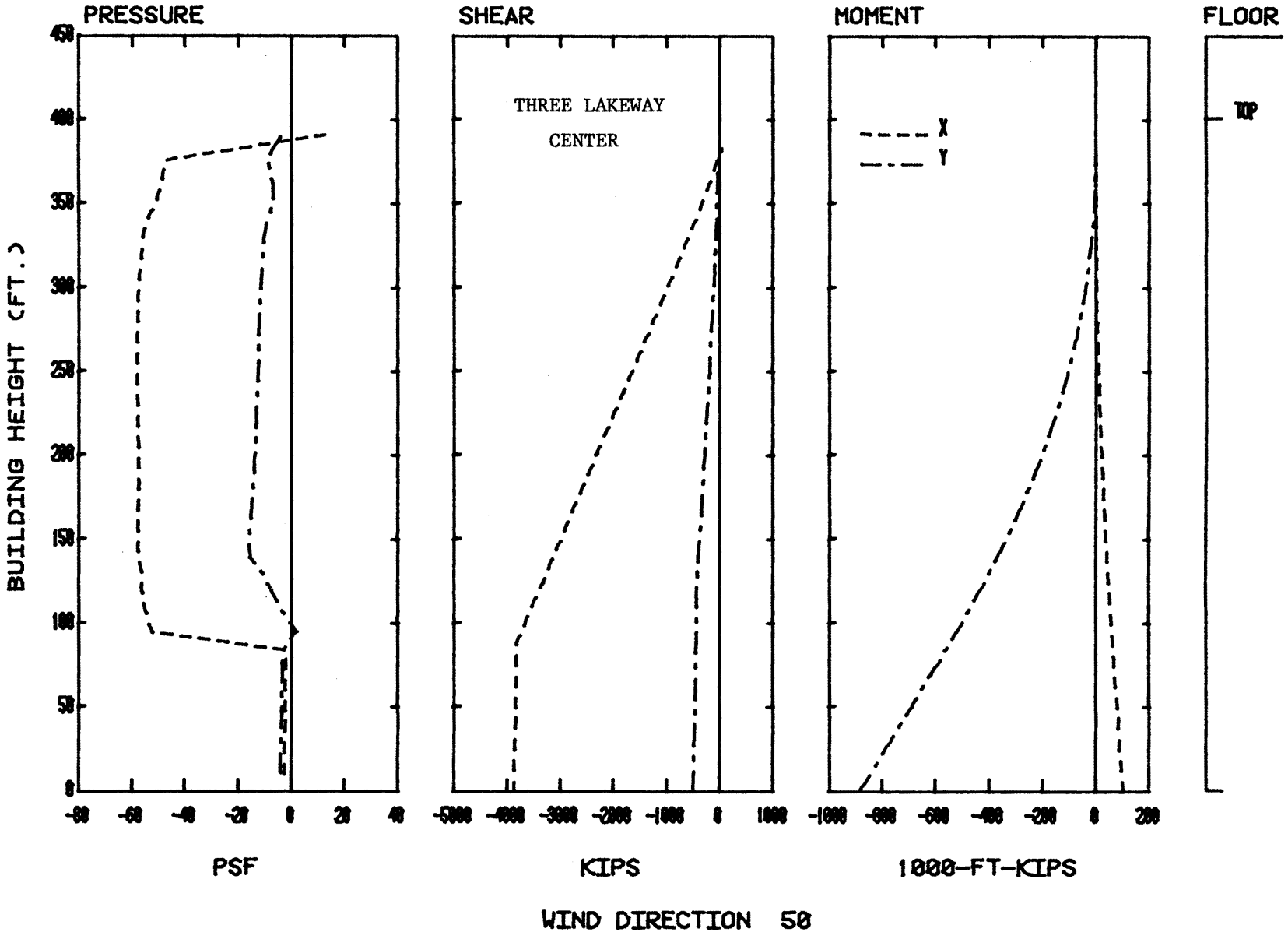



Figure 13f. Load, Shear, and Moment Diagrams for Selected Wind Directions

# TABLES

TABLE 1

Data Configurations

Configuration A:

| | |
|---|---|
| Geometry | - One, Two and Three Lakeway in place. |
| Pressures | - Data measured for 36 wind directions in 10-degree increments from 0, for all tap locations on One, Two, and Three Lakeway. |
| Velocities | - Pedestrian winds measured for 16 wind directions, in 22.5-degree increments from 0, for locations 1-29 (Figure 4). |

Configuration B:

| | |
|---|---|
| Geometry | - One, Two, and Three Lakeway in place (same as Configuration A). |
| Pressures | - Data measured in 2-degree increments to both sides of selected wind directions for selected taps on Two and Three Lakeway where large pressure peaks were observed in Configuration A. Taps were selected to obtain the largest peak pressures on the structure. |

Configuration C:

| | |
|---|---|
| Geometry | - One, Two, and Three Lakeway in place (same as Configuration A). |
| Pressures | - Data measured in 5-degree increments to both sides of selected wind directions for added taps on Three Lakeway where large pressure peaks were observed in Configuration A. |

Configuration D:

| | |
|---|---|
| Geometry | - Three Lakeway out. |
| Velocities | - Pedestrian winds measured for 16 wind directions, in 22.5-degree increments for locations 1-16, 19-20, 24, and 26 (Figure 4). |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITHOUT THREE LAKEWAY

LOCATION 1

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 84.2 | 11.3 | 118.0 |
| 22.50 | 75.1 | 12.7 | 113.2 |
| 45.00 | 80.7 | 11.1 | 113.9 |
| 67.50 | 74.6 | 15.5 | 121.1 |
| 90.00 | 70.2 | 14.4 | 113.3 |
| 112.50 | 34.4 | 9.0 | 61.5 |
| 135.00 | 16.0 | 8.3 | 41.0 |
| 157.50 | 19.0 | 8.7 | 45.1 |
| 180.00 | 40.0 | 15.6 | 86.7 |
| 202.50 | 68.0 | 10.3 | 98.9 |
| 225.00 | 76.0 | 11.1 | 109.4 |
| 247.50 | 72.3 | 11.8 | 107.6 |
| 270.00 | 70.4 | 10.6 | 102.1 |
| 292.50 | 69.0 | 11.0 | 101.9 |
| 315.00 | 48.1 | 11.4 | 82.4 |
| 337.50 | 33.1 | 14.6 | 76.8 |

LOCATION 2

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 16.8 | 8.4 | 42.0 |
| 22.50 | 25.5 | 12.2 | 62.1 |
| 45.00 | 36.7 | 12.1 | 72.9 |
| 67.50 | 30.9 | 14.7 | 74.9 |
| 90.00 | 30.1 | 11.7 | 65.3 |
| 112.50 | 17.6 | 7.4 | 39.8 |
| 135.00 | 21.0 | 8.6 | 46.9 |
| 157.50 | 16.5 | 9.5 | 45.0 |
| 180.00 | 13.9 | 6.0 | 31.8 |
| 202.50 | 28.5 | 14.0 | 70.5 |
| 225.00 | 41.8 | 18.2 | 96.5 |
| 247.50 | 65.2 | 19.1 | 122.6 |
| 270.00 | 68.2 | 12.6 | 105.9 |
| 292.50 | 71.5 | 14.1 | 114.0 |
| 315.00 | 32.9 | 15.9 | 80.5 |
| 337.50 | 18.5 | 8.1 | 42.9 |

LOCATION 3

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 38.6 | 17.3 | 90.3 |
| 22.50 | 54.3 | 17.2 | 105.9 |
| 45.00 | 67.5 | 13.0 | 106.5 |
| 67.50 | 47.6 | 12.8 | 86.0 |
| 90.00 | 19.4 | 9.8 | 48.9 |
| 112.50 | 21.4 | 8.7 | 47.5 |
| 135.00 | 37.1 | 15.0 | 82.1 |
| 157.50 | 48.8 | 14.3 | 91.7 |
| 180.00 | 46.4 | 13.7 | 87.4 |
| 202.50 | 44.7 | 15.1 | 90.1 |
| 225.00 | 23.3 | 8.0 | 47.2 |
| 247.50 | 43.7 | 10.6 | 75.6 |
| 270.00 | 36.5 | 13.9 | 78.3 |
| 292.50 | 37.2 | 16.4 | 86.2 |
| 315.00 | 27.0 | 10.7 | 59.0 |
| 337.50 | 29.4 | 11.8 | 64.8 |

LOCATION 4

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 41.5 | 12.6 | 79.3 |
| 22.50 | 34.6 | 12.0 | 70.6 |
| 45.00 | 26.0 | 10.4 | 57.1 |
| 67.50 | 25.0 | 9.1 | 52.4 |
| 90.00 | 42.0 | 9.4 | 70.2 |
| 112.50 | 57.6 | 11.7 | 92.7 |
| 135.00 | 50.3 | 14.8 | 94.8 |
| 157.50 | 33.6 | 13.9 | 75.3 |
| 180.00 | 21.5 | 9.5 | 50.0 |
| 202.50 | 13.7 | 5.4 | 30.0 |
| 225.00 | 15.7 | 6.0 | 33.6 |
| 247.50 | 20.3 | 6.7 | 40.5 |
| 270.00 | 18.0 | 8.6 | 43.7 |
| 292.50 | 61.3 | 10.6 | 93.0 |
| 315.00 | 55.7 | 10.4 | 87.0 |
| 337.50 | 51.5 | 11.1 | 84.9 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITHOUT THREE LAKEWAY

LOCATION 5

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 61.4 | 13.8 | 102.7 |
| 22.50 | 42.9 | 11.0 | 76.0 |
| 45.00 | 23.0 | 8.3 | 48.0 |
| 67.50 | 18.8 | 8.4 | 44.0 |
| 90.00 | 26.5 | 9.9 | 56.1 |
| 112.50 | 37.5 | 9.6 | 66.4 |
| 135.00 | 50.7 | 11.7 | 85.8 |
| 157.50 | 58.0 | 10.1 | 88.2 |
| 180.00 | 47.2 | 8.9 | 74.0 |
| 202.50 | 35.1 | 6.6 | 55.0 |
| 225.00 | 19.7 | 6.5 | 39.3 |
| 247.50 | 20.6 | 10.2 | 51.1 |
| 270.00 | 19.9 | 9.1 | 47.3 |
| 292.50 | 55.3 | 13.0 | 94.3 |
| 315.00 | 68.5 | 13.1 | 107.9 |
| 337.50 | 69.8 | 16.5 | 119.3 |

LOCATION 6

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 34.2 | 11.5 | 68.6 |
| 22.50 | 30.6 | 14.7 | 74.8 |
| 45.00 | 28.0 | 17.0 | 79.1 |
| 67.50 | 30.3 | 12.7 | 68.4 |
| 90.00 | 26.1 | 13.0 | 65.2 |
| 112.50 | 38.3 | 13.3 | 78.1 |
| 135.00 | 55.6 | 14.9 | 100.2 |
| 157.50 | 59.2 | 13.4 | 99.5 |
| 180.00 | 59.9 | 13.2 | 99.6 |
| 202.50 | 58.4 | 13.8 | 99.7 |
| 225.00 | 47.3 | 10.7 | 79.4 |
| 247.50 | 27.0 | 8.1 | 51.2 |
| 270.00 | 15.5 | 9.2 | 43.1 |
| 292.50 | 83.8 | 22.2 | 150.3 |
| 315.00 | 37.5 | 9.7 | 66.7 |
| 337.50 | 32.0 | 9.6 | 60.8 |

LOCATION 7

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 72.7 | 20.6 | 134.4 |
| 22.50 | 78.9 | 17.1 | 130.2 |
| 45.00 | 68.2 | 13.7 | 109.4 |
| 67.50 | 42.9 | 11.9 | 78.5 |
| 90.00 | 18.7 | 9.3 | 46.6 |
| 112.50 | 24.9 | 10.8 | 57.4 |
| 135.00 | 44.8 | 15.7 | 91.9 |
| 157.50 | 47.9 | 14.2 | 90.4 |
| 180.00 | 60.6 | 14.4 | 103.7 |
| 202.50 | 61.2 | 12.2 | 97.8 |
| 225.00 | 53.1 | 12.8 | 91.4 |
| 247.50 | 24.2 | 12.4 | 61.4 |
| 270.00 | 16.7 | 8.5 | 42.1 |
| 292.50 | 13.9 | 6.5 | 33.5 |
| 315.00 | 29.2 | 12.7 | 67.4 |
| 337.50 | 58.5 | 21.0 | 121.4 |

LOCATION 8

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 76.0 | 13.8 | 117.6 |
| 22.50 | 59.6 | 13.3 | 99.4 |
| 45.00 | 65.0 | 14.8 | 109.6 |
| 67.50 | 50.8 | 15.1 | 96.1 |
| 90.00 | 22.2 | 12.3 | 59.0 |
| 112.50 | 32.7 | 12.1 | 69.1 |
| 135.00 | 38.1 | 12.8 | 76.4 |
| 157.50 | 36.9 | 12.9 | 75.6 |
| 180.00 | 46.7 | 12.5 | 84.4 |
| 202.50 | 54.4 | 12.4 | 91.5 |
| 225.00 | 50.1 | 12.8 | 88.6 |
| 247.50 | 35.5 | 13.5 | 76.0 |
| 270.00 | 23.0 | 12.0 | 58.9 |
| 292.50 | 27.4 | 14.4 | 70.6 |
| 315.00 | 62.2 | 18.5 | 117.8 |
| 337.50 | 82.5 | 14.2 | 125.1 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITHOUT THREE LAKEWAY

LOCATION 9

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 79.5 | 9.1 | 106.8 |
| 22.50 | 73.1 | 9.8 | 102.7 |
| 45.00 | 47.1 | 17.6 | 100.0 |
| 67.50 | 42.2 | 11.6 | 77.0 |
| 90.00 | 25.7 | 12.8 | 64.2 |
| 112.50 | 67.3 | 14.0 | 109.2 |
| 135.00 | 87.4 | 13.3 | 127.4 |
| 157.50 | 80.5 | 12.7 | 118.5 |
| 180.00 | 78.4 | 13.6 | 119.1 |
| 202.50 | 48.3 | 12.6 | 86.2 |
| 225.00 | 31.3 | 9.6 | 60.0 |
| 247.50 | 25.6 | 8.1 | 49.8 |
| 270.00 | 24.0 | 10.8 | 56.5 |
| 292.50 | 57.2 | 23.4 | 127.4 |
| 315.00 | 78.6 | 7.4 | 100.9 |
| 337.50 | 82.8 | 8.6 | 108.5 |

LOCATION 10

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 20.8 | 10.1 | 51.2 |
| 22.50 | 14.2 | 6.9 | 34.8 |
| 45.00 | 17.5 | 7.6 | 40.4 |
| 67.50 | 17.8 | 8.3 | 42.8 |
| 90.00 | 11.9 | 5.2 | 27.5 |
| 112.50 | 11.4 | 5.1 | 26.9 |
| 135.00 | 22.9 | 9.9 | 52.6 |
| 157.50 | 37.2 | 13.2 | 76.7 |
| 180.00 | 54.1 | 12.6 | 91.9 |
| 202.50 | 40.3 | 12.1 | 76.6 |
| 225.00 | 23.2 | 10.3 | 54.1 |
| 247.50 | 33.0 | 12.9 | 71.6 |
| 270.00 | 44.9 | 14.9 | 89.6 |
| 292.50 | 59.9 | 10.0 | 89.9 |
| 315.00 | 71.3 | 9.0 | 98.3 |
| 337.50 | 70.0 | 10.4 | 101.3 |

LOCATION 11

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 67.9 | 17.3 | 119.8 |
| 22.50 | 63.5 | 17.4 | 115.7 |
| 45.00 | 32.5 | 16.6 | 82.2 |
| 67.50 | 41.5 | 17.1 | 92.9 |
| 90.00 | 40.8 | 13.0 | 79.7 |
| 112.50 | 39.4 | 11.0 | 72.3 |
| 135.00 | 36.8 | 10.8 | 69.2 |
| 157.50 | 32.1 | 11.0 | 65.0 |
| 180.00 | 36.3 | 11.0 | 69.2 |
| 202.50 | 51.2 | 16.4 | 100.3 |
| 225.00 | 50.6 | 14.5 | 93.9 |
| 247.50 | 26.6 | 10.6 | 58.4 |
| 270.00 | 23.3 | 10.8 | 55.7 |
| 292.50 | 20.5 | 11.1 | 53.7 |
| 315.00 | 47.0 | 18.7 | 103.3 |
| 337.50 | 59.7 | 17.5 | 112.3 |

LOCATION 12

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 30.9 | 11.5 | 65.6 |
| 22.50 | 20.0 | 8.6 | 45.7 |
| 45.00 | 27.8 | 10.2 | 58.4 |
| 67.50 | 22.3 | 9.7 | 51.5 |
| 90.00 | 41.3 | 13.2 | 80.8 |
| 112.50 | 37.5 | 12.9 | 76.2 |
| 135.00 | 31.6 | 10.5 | 63.2 |
| 157.50 | 24.6 | 10.0 | 54.6 |
| 180.00 | 22.4 | 9.5 | 50.8 |
| 202.50 | 23.0 | 11.1 | 56.2 |
| 225.00 | 32.3 | 13.8 | 73.9 |
| 247.50 | 28.0 | 12.2 | 64.5 |
| 270.00 | 22.5 | 9.4 | 50.8 |
| 292.50 | 16.0 | 7.4 | 38.0 |
| 315.00 | 19.4 | 9.6 | 48.2 |
| 337.50 | 23.0 | 9.8 | 52.3 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITHOUT THREE LAKEWAY

LOCATION 13

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 15.0 | 6.6 | 34.8 |
| 22.50 | 18.5 | 8.5 | 44.0 |
| 45.00 | 13.1 | 4.6 | 26.9 |
| 67.50 | 28.6 | 7.5 | 51.0 |
| 90.00 | 36.9 | 10.1 | 67.3 |
| 112.50 | 19.9 | 8.6 | 45.6 |
| 135.00 | 14.3 | 6.3 | 33.3 |
| 157.50 | 16.9 | 7.4 | 39.1 |
| 180.00 | 29.1 | 13.8 | 70.4 |
| 202.50 | 37.9 | 14.8 | 82.2 |
| 225.00 | 43.3 | 16.3 | 92.3 |
| 247.50 | 26.0 | 11.7 | 61.1 |
| 270.00 | 18.4 | 9.4 | 46.6 |
| 292.50 | 23.3 | 10.9 | 56.0 |
| 315.00 | 26.4 | 8.0 | 50.5 |
| 337.50 | 22.0 | 10.2 | 52.6 |

LOCATION 14

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 44.9 | 11.2 | 78.4 |
| 22.50 | 59.1 | 10.3 | 90.1 |
| 45.00 | 55.3 | 10.5 | 86.8 |
| 67.50 | 30.2 | 12.0 | 66.3 |
| 90.00 | 38.0 | 11.2 | 71.6 |
| 112.50 | 19.5 | 8.2 | 44.1 |
| 135.00 | 22.0 | 8.6 | 47.9 |
| 157.50 | 36.4 | 9.5 | 65.0 |
| 180.00 | 48.0 | 9.7 | 77.2 |
| 202.50 | 52.7 | 9.7 | 81.7 |
| 225.00 | 47.0 | 8.2 | 71.7 |
| 247.50 | 43.2 | 11.6 | 77.9 |
| 270.00 | 24.6 | 11.7 | 59.8 |
| 292.50 | 34.3 | 15.0 | 79.2 |
| 315.00 | 17.4 | 8.2 | 41.9 |
| 337.50 | 21.5 | 9.4 | 49.7 |

LOCATION 15

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 28.8 | 14.8 | 73.3 |
| 22.50 | 40.9 | 21.1 | 104.1 |
| 45.00 | 58.9 | 17.6 | 111.7 |
| 67.50 | 57.4 | 19.4 | 115.5 |
| 90.00 | 84.8 | 16.5 | 134.3 |
| 112.50 | 36.9 | 20.6 | 98.6 |
| 135.00 | 23.0 | 12.3 | 60.0 |
| 157.50 | 22.0 | 11.9 | 57.6 |
| 180.00 | 24.5 | 12.0 | 60.6 |
| 202.50 | 47.4 | 13.1 | 86.6 |
| 225.00 | 59.9 | 12.1 | 96.3 |
| 247.50 | 65.3 | 12.5 | 102.8 |
| 270.00 | 75.5 | 16.3 | 124.2 |
| 292.50 | 34.5 | 18.4 | 89.8 |
| 315.00 | 30.6 | 16.8 | 81.0 |
| 337.50 | 29.4 | 14.1 | 71.6 |

LOCATION 16

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 53.7 | 18.4 | 108.9 |
| 22.50 | 29.5 | 15.8 | 76.8 |
| 45.00 | 32.6 | 14.3 | 75.4 |
| 67.50 | 32.3 | 13.3 | 72.0 |
| 90.00 | 31.3 | 13.0 | 70.4 |
| 112.50 | 28.6 | 10.8 | 61.1 |
| 135.00 | 23.1 | 8.8 | 49.6 |
| 157.50 | 16.1 | 7.2 | 37.7 |
| 180.00 | 14.7 | 7.1 | 36.0 |
| 202.50 | 16.0 | 6.4 | 35.1 |
| 225.00 | 22.5 | 7.7 | 45.5 |
| 247.50 | 17.9 | 5.9 | 35.6 |
| 270.00 | 23.2 | 8.3 | 48.2 |
| 292.50 | 20.6 | 9.7 | 49.8 |
| 315.00 | 37.0 | 15.2 | 82.7 |
| 337.50 | 43.9 | 20.5 | 105.4 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITHOUT THREE LAKEWAY

LOCATION 19

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 46.5 | 12.3 | 83.3 |
| 22.50 | 50.8 | 10.8 | 83.2 |
| 45.00 | 35.1 | 12.4 | 72.3 |
| 67.50 | 53.2 | 14.5 | 96.7 |
| 90.00 | 30.0 | 9.9 | 59.8 |
| 112.50 | 27.9 | 9.5 | 56.4 |
| 135.00 | 26.4 | 10.0 | 56.3 |
| 157.50 | 31.0 | 9.7 | 60.2 |
| 180.00 | 36.0 | 9.6 | 64.7 |
| 202.50 | 40.6 | 10.1 | 71.0 |
| 225.00 | 35.7 | 9.3 | 63.5 |
| 247.50 | 33.3 | 12.2 | 69.9 |
| 270.00 | 29.2 | 11.1 | 62.6 |
| 292.50 | 29.1 | 14.7 | 73.3 |
| 315.00 | 22.8 | 10.2 | 53.3 |
| 337.50 | 22.9 | 10.9 | 55.6 |

LOCATION 20

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 25.0 | 11.7 | 60.1 |
| 22.50 | 24.7 | 13.0 | 63.7 |
| 45.00 | 69.1 | 16.2 | 117.6 |
| 67.50 | 61.3 | 16.8 | 111.6 |
| 90.00 | 53.6 | 18.1 | 108.0 |
| 112.50 | 47.2 | 14.9 | 92.0 |
| 135.00 | 43.0 | 10.7 | 75.1 |
| 157.50 | 27.6 | 10.9 | 60.2 |
| 180.00 | 20.4 | 9.2 | 47.9 |
| 202.50 | 28.7 | 12.4 | 65.9 |
| 225.00 | 47.8 | 12.5 | 85.1 |
| 247.50 | 45.4 | 14.5 | 89.1 |
| 270.00 | 53.0 | 16.8 | 103.3 |
| 292.50 | 76.0 | 15.1 | 121.3 |
| 315.00 | 75.5 | 23.1 | 144.7 |
| 337.50 | 30.2 | 16.3 | 79.2 |

LOCATION 24

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 27.8 | 11.9 | 63.5 |
| 22.50 | 31.3 | 12.5 | 68.8 |
| 45.00 | 35.8 | 10.7 | 67.8 |
| 67.50 | 45.0 | 12.6 | 82.9 |
| 90.00 | 37.4 | 11.0 | 70.5 |
| 112.50 | 29.3 | 11.5 | 63.8 |
| 135.00 | 22.2 | 9.6 | 51.1 |
| 157.50 | 17.8 | 7.4 | 40.0 |
| 180.00 | 28.6 | 9.3 | 56.5 |
| 202.50 | 28.4 | 10.5 | 59.7 |
| 225.00 | 29.8 | 12.5 | 67.3 |
| 247.50 | 34.4 | 13.6 | 75.0 |
| 270.00 | 28.0 | 11.3 | 62.1 |
| 292.50 | 46.3 | 20.0 | 106.3 |
| 315.00 | 52.8 | 19.3 | 110.9 |
| 337.50 | 38.3 | 16.4 | 87.4 |

LOCATION 26

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 40.6 | 13.1 | 79.8 |
| 22.50 | 31.5 | 10.8 | 64.0 |
| 45.00 | 52.2 | 12.0 | 88.1 |
| 67.50 | 49.0 | 11.2 | 82.8 |
| 90.00 | 39.1 | 10.1 | 69.3 |
| 112.50 | 34.5 | 9.9 | 64.1 |
| 135.00 | 38.2 | 12.0 | 74.3 |
| 157.50 | 28.7 | 9.6 | 57.6 |
| 180.00 | 19.4 | 9.6 | 48.2 |
| 202.50 | 35.6 | 15.4 | 81.9 |
| 225.00 | 47.9 | 13.3 | 87.9 |
| 247.50 | 31.7 | 10.7 | 63.8 |
| 270.00 | 31.4 | 11.7 | 66.5 |
| 292.50 | 27.9 | 12.9 | 66.5 |
| 315.00 | 25.2 | 13.2 | 64.8 |
| 337.50 | 22.4 | 11.0 | 55.3 |

TABLE 2 --PEDESTRIAN WIND VELOCITIES AND TURBULANCE INTENSITIES
LAKEWAY CENTER WITHOUT THREE LAKEWAY

** GREATEST VALUES **

UMEAN/UINF (PERCENT)

| LOC | AZ | MEAN | RMS | M+3RMS |
|---|---|---|---|---|
| 9 | 135.0 | 87.4 | 13.3 | 127.4 |
| 15 | 90.0 | 84.8 | 16.5 | 134.3 |
| 1 | 0.0 | 84.2 | 11.3 | 118.0 |
| 6 | 292.5 | 83.8 | 22.2 | 150.3 |
| 9 | 337.5 | 82.8 | 8.6 | 108.5 |
| 8 | 337.5 | 82.5 | 14.2 | 125.1 |
| 1 | 45.0 | 80.7 | 11.1 | 113.9 |
| 9 | 157.5 | 80.5 | 12.7 | 118.5 |
| 9 | 0.0 | 79.5 | 9.1 | 106.8 |
| 7 | 22.5 | 78.9 | 17.1 | 130.2 |

URMS/UINF (PERCENT)

| LOC | AZ | MEAN | RMS | M+3RMS |
|---|---|---|---|---|
| 9 | 292.5 | 57.2 | 23.4 | 127.4 |
| 20 | 315.0 | 75.5 | 23.1 | 144.7 |
| 6 | 292.5 | 83.8 | 22.2 | 150.3 |
| 15 | 22.5 | 40.9 | 21.1 | 104.1 |
| 7 | 337.5 | 58.5 | 21.0 | 121.4 |
| 15 | 112.5 | 36.9 | 20.6 | 98.6 |
| 7 | 0.0 | 72.7 | 20.6 | 134.4 |
| 16 | 337.5 | 43.9 | 20.5 | 105.4 |
| 24 | 292.5 | 46.3 | 20.0 | 106.3 |
| 15 | 67.5 | 57.4 | 19.4 | 115.5 |

UMEAN+3*RMS/UINF (PERCENT)

| LOC | AZ | MEAN | RMS | M+3RMS |
|---|---|---|---|---|
| 6 | 292.5 | 83.8 | 22.2 | 150.3 |
| 20 | 315.0 | 75.5 | 23.1 | 144.7 |
| 7 | 0.0 | 72.7 | 20.6 | 134.4 |
| 15 | 90.0 | 84.8 | 16.5 | 134.3 |
| 7 | 22.5 | 78.9 | 17.1 | 130.2 |
| 9 | 292.5 | 57.2 | 23.4 | 127.4 |
| 9 | 135.0 | 87.4 | 13.3 | 127.4 |
| 8 | 337.5 | 82.5 | 14.2 | 125.1 |
| 15 | 270.0 | 75.5 | 16.3 | 124.2 |
| 2 | 247.5 | 65.2 | 19.1 | 122.6 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 1

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 84.3 | 10.4 | 115.5 |
| 22.50 | 85.1 | 13.4 | 125.3 |
| 45.00 | 90.4 | 11.4 | 124.5 |
| 67.50 | 75.6 | 14.9 | 120.4 |
| 90.00 | 64.8 | 14.5 | 108.3 |
| 112.50 | 35.5 | 11.5 | 69.9 |
| 135.00 | 40.5 | 12.7 | 78.4 |
| 157.50 | 23.9 | 11.3 | 57.9 |
| 180.00 | 33.9 | 14.8 | 78.4 |
| 202.50 | 63.2 | 11.0 | 96.2 |
| 225.00 | 77.4 | 9.9 | 107.0 |
| 247.50 | 69.6 | 9.9 | 99.3 |
| 270.00 | 64.8 | 10.6 | 96.5 |
| 292.50 | 60.9 | 12.0 | 96.9 |
| 315.00 | 49.9 | 12.1 | 86.3 |
| 337.50 | 28.1 | 14.2 | 70.5 |

LOCATION 2

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 17.0 | 8.4 | 42.2 |
| 22.50 | 30.8 | 13.5 | 71.3 |
| 45.00 | 38.2 | 11.8 | 73.6 |
| 67.50 | 33.9 | 15.3 | 79.7 |
| 90.00 | 26.8 | 12.4 | 63.9 |
| 112.50 | 17.7 | 7.8 | 41.0 |
| 135.00 | 18.0 | 8.3 | 42.8 |
| 157.50 | 29.2 | 12.1 | 65.3 |
| 180.00 | 21.6 | 9.8 | 50.9 |
| 202.50 | 36.1 | 15.7 | 83.1 |
| 225.00 | 39.8 | 17.9 | 93.5 |
| 247.50 | 71.4 | 19.7 | 130.6 |
| 270.00 | 69.0 | 13.2 | 108.8 |
| 292.50 | 69.3 | 13.9 | 110.9 |
| 315.00 | 35.2 | 16.8 | 85.5 |
| 337.50 | 18.1 | 7.8 | 41.4 |

LOCATION 3

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 31.4 | 13.7 | 72.6 |
| 22.50 | 56.7 | 16.3 | 105.6 |
| 45.00 | 63.2 | 10.9 | 95.9 |
| 67.50 | 35.6 | 13.3 | 75.6 |
| 90.00 | 19.8 | 8.4 | 45.0 |
| 112.50 | 26.0 | 14.8 | 70.4 |
| 135.00 | 22.2 | 9.3 | 50.0 |
| 157.50 | 11.5 | 5.3 | 27.3 |
| 180.00 | 21.1 | 10.1 | 51.4 |
| 202.50 | 30.2 | 16.7 | 80.3 |
| 225.00 | 27.2 | 17.3 | 79.0 |
| 247.50 | 26.5 | 13.5 | 66.9 |
| 270.00 | 41.4 | 12.8 | 80.0 |
| 292.50 | 42.3 | 17.3 | 94.1 |
| 315.00 | 31.6 | 10.7 | 63.7 |
| 337.50 | 29.2 | 11.3 | 63.1 |

LOCATION 4

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 36.0 | 12.1 | 72.4 |
| 22.50 | 30.5 | 12.7 | 68.6 |
| 45.00 | 25.4 | 10.1 | 55.7 |
| 67.50 | 29.4 | 10.1 | 59.6 |
| 90.00 | 54.5 | 10.1 | 84.8 |
| 112.50 | 56.1 | 11.8 | 91.4 |
| 135.00 | 41.0 | 13.6 | 81.7 |
| 157.50 | 20.1 | 11.9 | 55.8 |
| 180.00 | 13.6 | 5.6 | 30.3 |
| 202.50 | 12.7 | 5.5 | 29.2 |
| 225.00 | 15.2 | 6.8 | 35.6 |
| 247.50 | 21.2 | 10.0 | 51.1 |
| 270.00 | 17.8 | 9.1 | 45.0 |
| 292.50 | 60.3 | 12.8 | 98.7 |
| 315.00 | 55.5 | 10.6 | 87.2 |
| 337.50 | 52.3 | 11.6 | 87.2 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 5

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 50.2 | 14.5 | 93.8 |
| 22.50 | 31.8 | 10.5 | 63.1 |
| 45.00 | 12.8 | 6.6 | 32.7 |
| 67.50 | 15.0 | 8.2 | 39.6 |
| 90.00 | 31.7 | 10.0 | 61.7 |
| 112.50 | 37.4 | 8.8 | 63.6 |
| 135.00 | 43.9 | 11.7 | 79.1 |
| 157.50 | 58.4 | 10.8 | 90.8 |
| 180.00 | 53.1 | 13.4 | 93.2 |
| 202.50 | 21.9 | 11.2 | 55.5 |
| 225.00 | 24.8 | 12.3 | 61.7 |
| 247.50 | 33.8 | 12.3 | 70.6 |
| 270.00 | 34.5 | 12.6 | 72.4 |
| 292.50 | 66.4 | 11.2 | 100.1 |
| 315.00 | 73.3 | 13.6 | 114.0 |
| 337.50 | 68.3 | 15.6 | 115.1 |

LOCATION 6

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 30.4 | 11.2 | 64.1 |
| 22.50 | 35.9 | 16.7 | 86.1 |
| 45.00 | 19.7 | 9.2 | 47.3 |
| 67.50 | 31.2 | 11.7 | 66.2 |
| 90.00 | 33.5 | 8.1 | 58.0 |
| 112.50 | 20.9 | 10.4 | 52.2 |
| 135.00 | 17.0 | 8.7 | 43.2 |
| 157.50 | 33.8 | 14.6 | 77.6 |
| 180.00 | 48.0 | 12.9 | 86.9 |
| 202.50 | 59.6 | 12.6 | 97.5 |
| 225.00 | 66.8 | 13.3 | 106.6 |
| 247.50 | 52.1 | 12.9 | 90.8 |
| 270.00 | 17.4 | 9.4 | 45.7 |
| 292.50 | 62.4 | 19.8 | 121.8 |
| 315.00 | 35.3 | 9.9 | 64.9 |
| 337.50 | 31.3 | 9.4 | 59.6 |

LOCATION 7

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 53.8 | 23.1 | 123.1 |
| 22.50 | 73.3 | 14.9 | 118.0 |
| 45.00 | 41.6 | 14.2 | 84.2 |
| 67.50 | 28.2 | 12.7 | 66.3 |
| 90.00 | 19.3 | 10.1 | 49.4 |
| 112.50 | 26.9 | 13.2 | 66.5 |
| 135.00 | 29.8 | 13.6 | 70.6 |
| 157.50 | 41.1 | 18.4 | 96.2 |
| 180.00 | 38.6 | 17.6 | 91.5 |
| 202.50 | 60.6 | 22.2 | 127.2 |
| 225.00 | 41.8 | 20.8 | 104.1 |
| 247.50 | 24.6 | 12.4 | 61.7 |
| 270.00 | 27.5 | 11.8 | 62.9 |
| 292.50 | 17.2 | 10.8 | 49.7 |
| 315.00 | 21.0 | 11.4 | 55.0 |
| 337.50 | 67.4 | 22.5 | 134.9 |

LOCATION 8

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 73.0 | 15.6 | 119.8 |
| 22.50 | 39.1 | 13.8 | 80.5 |
| 45.00 | 43.5 | 13.8 | 84.8 |
| 67.50 | 28.0 | 14.4 | 71.2 |
| 90.00 | 43.7 | 14.7 | 87.8 |
| 112.50 | 31.6 | 12.8 | 70.0 |
| 135.00 | 49.2 | 12.9 | 87.8 |
| 157.50 | 38.6 | 18.2 | 93.1 |
| 180.00 | 25.5 | 11.0 | 58.7 |
| 202.50 | 27.3 | 14.3 | 70.2 |
| 225.00 | 35.4 | 20.4 | 96.7 |
| 247.50 | 31.7 | 15.2 | 77.2 |
| 270.00 | 46.8 | 13.2 | 86.5 |
| 292.50 | 23.4 | 15.7 | 70.4 |
| 315.00 | 45.3 | 23.2 | 115.0 |
| 337.50 | 86.2 | 14.6 | 130.1 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 9

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 67.3 | 12.5 | 104.7 |
| 22.50 | 44.9 | 13.5 | 85.6 |
| 45.00 | 25.9 | 12.3 | 62.7 |
| 67.50 | 25.9 | 11.8 | 61.3 |
| 90.00 | 27.3 | 14.0 | 69.3 |
| 112.50 | 50.5 | 16.2 | 99.0 |
| 135.00 | 44.7 | 11.2 | 78.2 |
| 157.50 | 31.0 | 13.6 | 71.8 |
| 180.00 | 54.8 | 14.1 | 97.0 |
| 202.50 | 58.8 | 16.8 | 109.2 |
| 225.00 | 59.9 | 16.0 | 107.8 |
| 247.50 | 54.2 | 13.4 | 94.3 |
| 270.00 | 38.6 | 11.6 | 73.3 |
| 292.50 | 56.0 | 25.7 | 133.0 |
| 315.00 | 82.7 | 9.0 | 109.5 |
| 337.50 | 78.3 | 8.3 | 103.1 |

LOCATION 10

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 22.0 | 12.3 | 59.1 |
| 22.50 | 16.8 | 9.1 | 44.2 |
| 45.00 | 17.8 | 9.2 | 45.5 |
| 67.50 | 19.9 | 9.2 | 47.5 |
| 90.00 | 17.3 | 8.8 | 43.7 |
| 112.50 | 60.7 | 12.5 | 98.2 |
| 135.00 | 73.2 | 11.4 | 107.4 |
| 157.50 | 57.3 | 11.7 | 92.5 |
| 180.00 | 48.4 | 12.8 | 86.7 |
| 202.50 | 22.7 | 11.7 | 57.8 |
| 225.00 | 32.1 | 14.7 | 76.1 |
| 247.50 | 25.6 | 13.6 | 66.3 |
| 270.00 | 31.5 | 13.8 | 72.8 |
| 292.50 | 60.6 | 9.3 | 88.5 |
| 315.00 | 68.0 | 10.8 | 100.4 |
| 337.50 | 66.8 | 10.5 | 98.2 |

LOCATION 11

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 27.7 | 16.6 | 77.4 |
| 22.50 | 20.2 | 11.6 | 54.9 |
| 45.00 | 22.0 | 13.2 | 61.4 |
| 67.50 | 26.5 | 14.3 | 69.4 |
| 90.00 | 48.5 | 13.8 | 90.0 |
| 112.50 | 50.9 | 15.3 | 96.9 |
| 135.00 | 29.9 | 11.3 | 63.7 |
| 157.50 | 36.7 | 12.7 | 74.7 |
| 180.00 | 37.0 | 11.7 | 72.2 |
| 202.50 | 39.1 | 11.6 | 74.0 |
| 225.00 | 38.3 | 10.7 | 70.3 |
| 247.50 | 43.7 | 13.7 | 84.8 |
| 270.00 | 36.3 | 13.6 | 77.0 |
| 292.50 | 29.1 | 18.6 | 85.0 |
| 315.00 | 70.5 | 17.3 | 122.4 |
| 337.50 | 55.1 | 17.9 | 108.7 |

LOCATION 12

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 45.2 | 18.3 | 100.0 |
| 22.50 | 33.3 | 14.6 | 77.1 |
| 45.00 | 36.4 | 15.4 | 82.5 |
| 67.50 | 29.6 | 15.1 | 74.8 |
| 90.00 | 56.7 | 14.9 | 101.4 |
| 112.50 | 50.8 | 15.0 | 95.7 |
| 135.00 | 17.7 | 8.5 | 43.2 |
| 157.50 | 37.9 | 15.7 | 85.1 |
| 180.00 | 41.4 | 17.9 | 95.0 |
| 202.50 | 31.0 | 11.8 | 66.3 |
| 225.00 | 33.8 | 13.8 | 75.1 |
| 247.50 | 31.8 | 15.3 | 77.8 |
| 270.00 | 27.8 | 14.1 | 70.0 |
| 292.50 | 17.6 | 10.2 | 48.3 |
| 315.00 | 30.1 | 14.5 | 73.6 |
| 337.50 | 21.7 | 12.8 | 60.1 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 13

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 28.5 | 16.4 | 77.8 |
| 22.50 | 43.7 | 17.0 | 94.6 |
| 45.00 | 46.5 | 14.0 | 88.7 |
| 67.50 | 45.5 | 11.5 | 80.0 |
| 90.00 | 47.5 | 12.3 | 84.3 |
| 112.50 | 40.7 | 14.3 | 83.8 |
| 135.00 | 32.1 | 13.3 | 71.9 |
| 157.50 | 46.8 | 17.2 | 98.3 |
| 180.00 | 44.8 | 18.6 | 100.6 |
| 202.50 | 62.0 | 18.0 | 115.8 |
| 225.00 | 60.3 | 18.5 | 115.7 |
| 247.50 | 64.8 | 14.9 | 109.5 |
| 270.00 | 53.8 | 13.7 | 94.8 |
| 292.50 | 19.2 | 13.1 | 58.5 |
| 315.00 | 30.4 | 15.9 | 77.9 |
| 337.50 | 32.6 | 15.3 | 78.5 |

LOCATION 14

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 37.6 | 21.1 | 101.0 |
| 22.50 | 32.6 | 17.8 | 86.1 |
| 45.00 | 21.4 | 11.1 | 54.6 |
| 67.50 | 19.2 | 10.4 | 50.5 |
| 90.00 | 24.8 | 12.7 | 63.0 |
| 112.50 | 44.2 | 18.5 | 99.7 |
| 135.00 | 51.3 | 16.2 | 100.0 |
| 157.50 | 53.9 | 12.8 | 92.3 |
| 180.00 | 48.2 | 13.7 | 89.3 |
| 202.50 | 22.6 | 9.1 | 50.0 |
| 225.00 | 17.1 | 7.2 | 38.8 |
| 247.50 | 15.8 | 6.6 | 35.5 |
| 270.00 | 26.3 | 11.0 | 59.2 |
| 292.50 | 43.0 | 18.7 | 99.0 |
| 315.00 | 44.0 | 17.2 | 95.7 |
| 337.50 | 45.8 | 17.1 | 97.1 |

LOCATION 15

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 42.5 | 25.8 | 120.0 |
| 22.50 | 52.9 | 21.3 | 116.8 |
| 45.00 | 64.5 | 18.1 | 118.8 |
| 67.50 | 66.8 | 21.0 | 129.8 |
| 90.00 | 90.1 | 17.3 | 141.9 |
| 112.50 | 59.9 | 21.8 | 125.3 |
| 135.00 | 35.3 | 17.1 | 86.7 |
| 157.50 | 33.1 | 13.1 | 72.3 |
| 180.00 | 30.7 | 11.5 | 65.2 |
| 202.50 | 36.6 | 13.4 | 76.9 |
| 225.00 | 49.9 | 10.5 | 81.4 |
| 247.50 | 52.5 | 10.4 | 83.7 |
| 270.00 | 52.9 | 16.0 | 100.7 |
| 292.50 | 36.2 | 21.4 | 100.4 |
| 315.00 | 29.8 | 15.9 | 77.4 |
| 337.50 | 25.0 | 13.6 | 65.7 |

LOCATION 16

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 56.1 | 15.7 | 103.2 |
| 22.50 | 80.0 | 18.0 | 133.9 |
| 45.00 | 80.9 | 17.7 | 133.9 |
| 67.50 | 70.8 | 17.5 | 123.3 |
| 90.00 | 68.8 | 13.1 | 108.1 |
| 112.50 | 59.8 | 11.2 | 93.3 |
| 135.00 | 45.0 | 15.6 | 91.7 |
| 157.50 | 60.8 | 10.0 | 90.9 |
| 180.00 | 69.3 | 9.3 | 97.2 |
| 202.50 | 76.4 | 7.8 | 99.9 |
| 225.00 | 82.1 | 10.5 | 113.7 |
| 247.50 | 74.5 | 10.0 | 104.6 |
| 270.00 | 66.8 | 11.5 | 101.3 |
| 292.50 | 34.9 | 15.8 | 82.3 |
| 315.00 | 54.4 | 18.0 | 108.5 |
| 337.50 | 25.3 | 15.5 | 71.9 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 17

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 35.3 | 16.2 | 84.0 |
| 22.50 | 56.6 | 13.0 | 95.6 |
| 45.00 | 58.1 | 10.9 | 90.7 |
| 67.50 | 56.3 | 12.6 | 94.3 |
| 90.00 | 47.8 | 10.4 | 79.1 |
| 112.50 | 44.3 | 12.0 | 80.2 |
| 135.00 | 28.1 | 12.1 | 64.3 |
| 157.50 | 17.9 | 8.3 | 42.8 |
| 180.00 | 11.9 | 4.7 | 25.8 |
| 202.50 | 15.4 | 6.6 | 35.1 |
| 225.00 | 20.4 | 8.8 | 46.9 |
| 247.50 | 22.4 | 12.8 | 60.9 |
| 270.00 | 43.7 | 26.2 | 122.3 |
| 292.50 | 14.8 | 10.3 | 45.5 |
| 315.00 | 38.8 | 15.0 | 83.8 |
| 337.50 | 33.4 | 14.1 | 75.8 |

LOCATION 18

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 26.2 | 13.4 | 66.4 |
| 22.50 | 36.5 | 11.9 | 72.2 |
| 45.00 | 30.7 | 9.2 | 58.4 |
| 67.50 | 38.6 | 12.9 | 77.4 |
| 90.00 | 40.0 | 10.7 | 72.1 |
| 112.50 | 29.3 | 9.5 | 57.8 |
| 135.00 | 20.8 | 8.0 | 44.7 |
| 157.50 | 19.8 | 9.9 | 49.5 |
| 180.00 | 24.8 | 13.0 | 63.7 |
| 202.50 | 25.2 | 14.0 | 67.1 |
| 225.00 | 35.1 | 18.0 | 89.1 |
| 247.50 | 36.3 | 16.9 | 87.0 |
| 270.00 | 50.3 | 14.3 | 93.1 |
| 292.50 | 21.0 | 11.5 | 55.6 |
| 315.00 | 29.5 | 14.6 | 73.3 |
| 337.50 | 25.7 | 13.4 | 65.9 |

LOCATION 19

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 59.6 | 17.4 | 111.9 |
| 22.50 | 54.8 | 14.1 | 97.2 |
| 45.00 | 37.0 | 14.4 | 80.3 |
| 67.50 | 29.0 | 14.7 | 73.1 |
| 90.00 | 40.1 | 13.5 | 80.7 |
| 112.50 | 61.1 | 12.7 | 99.2 |
| 135.00 | 72.0 | 11.8 | 107.5 |
| 157.50 | 59.4 | 11.1 | 92.7 |
| 180.00 | 55.0 | 14.1 | 97.4 |
| 202.50 | 23.3 | 12.8 | 61.7 |
| 225.00 | 31.7 | 15.7 | 78.7 |
| 247.50 | 21.9 | 11.5 | 56.4 |
| 270.00 | 33.3 | 13.8 | 74.7 |
| 292.50 | 32.6 | 15.3 | 78.4 |
| 315.00 | 43.5 | 21.8 | 108.9 |
| 337.50 | 50.0 | 19.2 | 107.7 |

LOCATION 20

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 26.0 | 15.5 | 72.6 |
| 22.50 | 76.6 | 19.0 | 133.5 |
| 45.00 | 80.7 | 17.3 | 132.6 |
| 67.50 | 66.2 | 22.2 | 132.9 |
| 90.00 | 67.4 | 23.5 | 137.9 |
| 112.50 | 43.2 | 17.1 | 94.4 |
| 135.00 | 23.4 | 10.9 | 56.0 |
| 157.50 | 26.6 | 14.7 | 70.6 |
| 180.00 | 27.4 | 11.6 | 62.1 |
| 202.50 | 19.5 | 9.9 | 49.3 |
| 225.00 | 32.5 | 12.6 | 70.2 |
| 247.50 | 35.8 | 12.4 | 72.9 |
| 270.00 | 34.6 | 15.9 | 82.2 |
| 292.50 | 77.6 | 14.8 | 122.0 |
| 315.00 | 72.1 | 22.7 | 140.4 |
| 337.50 | 27.5 | 15.3 | 73.4 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 21

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 15.6 | 9.6 | 44.4 |
| 22.50 | 32.0 | 18.5 | 87.4 |
| 45.00 | 21.0 | 12.3 | 58.0 |
| 67.50 | 19.3 | 11.3 | 53.3 |
| 90.00 | 20.2 | 12.3 | 57.2 |
| 112.50 | 17.5 | 8.1 | 41.8 |
| 135.00 | 12.3 | 5.3 | 28.3 |
| 157.50 | 35.0 | 16.7 | 84.9 |
| 180.00 | 33.9 | 14.1 | 76.1 |
| 202.50 | 32.7 | 10.5 | 64.1 |
| 225.00 | 30.3 | 9.4 | 58.5 |
| 247.50 | 21.1 | 8.8 | 47.6 |
| 270.00 | 18.8 | 7.4 | 41.1 |
| 292.50 | 23.1 | 12.3 | 60.1 |
| 315.00 | 15.8 | 9.3 | 43.7 |
| 337.50 | 22.2 | 12.0 | 58.1 |

LOCATION 22

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 76.4 | 22.4 | 143.5 |
| 22.50 | 52.0 | 14.7 | 96.0 |
| 45.00 | 42.2 | 14.9 | 87.0 |
| 67.50 | 29.3 | 17.9 | 82.9 |
| 90.00 | 46.8 | 21.1 | 110.3 |
| 112.50 | 47.9 | 14.8 | 92.2 |
| 135.00 | 74.6 | 12.9 | 113.3 |
| 157.50 | 86.5 | 12.8 | 124.9 |
| 180.00 | 65.4 | 22.6 | 133.1 |
| 202.50 | 26.3 | 10.4 | 57.4 |
| 225.00 | 27.8 | 11.8 | 63.2 |
| 247.50 | 25.5 | 12.1 | 61.9 |
| 270.00 | 23.5 | 10.6 | 55.3 |
| 292.50 | 39.7 | 21.0 | 102.9 |
| 315.00 | 69.4 | 16.5 | 119.0 |
| 337.50 | 72.9 | 19.3 | 130.9 |

LOCATION 23

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 65.4 | 12.2 | 101.9 |
| 22.50 | 71.4 | 9.6 | 100.4 |
| 45.00 | 79.0 | 11.1 | 112.3 |
| 67.50 | 83.9 | 11.7 | 118.9 |
| 90.00 | 45.2 | 14.7 | 89.4 |
| 112.50 | 31.8 | 13.9 | 73.4 |
| 135.00 | 71.2 | 12.0 | 107.3 |
| 157.50 | 76.3 | 10.0 | 106.4 |
| 180.00 | 86.4 | 9.7 | 115.5 |
| 202.50 | 78.9 | 13.9 | 120.7 |
| 225.00 | 45.4 | 22.1 | 111.7 |
| 247.50 | 19.9 | 7.0 | 40.9 |
| 270.00 | 20.7 | 8.7 | 46.6 |
| 292.50 | 23.5 | 12.2 | 60.0 |
| 315.00 | 49.9 | 13.4 | 90.1 |
| 337.50 | 50.7 | 12.6 | 88.5 |

LOCATION 24

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 48.8 | 10.6 | 80.7 |
| 22.50 | 58.2 | 17.9 | 111.9 |
| 45.00 | 32.1 | 16.8 | 82.5 |
| 67.50 | 25.8 | 15.5 | 72.4 |
| 90.00 | 44.7 | 15.0 | 89.8 |
| 112.50 | 48.7 | 10.0 | 78.8 |
| 135.00 | 56.5 | 10.3 | 87.3 |
| 157.50 | 78.8 | 11.7 | 113.8 |
| 180.00 | 61.6 | 12.4 | 98.9 |
| 202.50 | 27.3 | 9.4 | 55.6 |
| 225.00 | 20.8 | 8.8 | 47.2 |
| 247.50 | 33.4 | 12.1 | 69.7 |
| 270.00 | 47.2 | 11.8 | 82.5 |
| 292.50 | 61.7 | 18.0 | 115.7 |
| 315.00 | 40.8 | 12.0 | 76.8 |
| 337.50 | 41.9 | 11.4 | 75.9 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 25

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 15.1 | 9.0 | 42.0 |
| 22.50 | 15.9 | 7.1 | 37.3 |
| 45.00 | 39.6 | 17.5 | 92.0 |
| 67.50 | 49.1 | 18.0 | 103.3 |
| 90.00 | 46.0 | 12.0 | 82.1 |
| 112.50 | 43.6 | 9.1 | 70.7 |
| 135.00 | 40.4 | 10.1 | 70.6 |
| 157.50 | 27.6 | 9.9 | 57.1 |
| 180.00 | 20.0 | 8.5 | 45.6 |
| 202.50 | 27.2 | 10.2 | 57.7 |
| 225.00 | 43.3 | 11.5 | 77.8 |
| 247.50 | 50.4 | 10.6 | 82.2 |
| 270.00 | 51.4 | 10.0 | 81.3 |
| 292.50 | 47.6 | 16.1 | 95.7 |
| 315.00 | 10.4 | 6.4 | 29.5 |
| 337.50 | 14.6 | 9.5 | 43.2 |

LOCATION 26

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 56.3 | 13.4 | 96.5 |
| 22.50 | 72.2 | 10.0 | 102.3 |
| 45.00 | 85.7 | 9.8 | 115.1 |
| 67.50 | 93.4 | 10.8 | 126.0 |
| 90.00 | 68.1 | 12.5 | 105.7 |
| 112.50 | 31.1 | 13.0 | 70.2 |
| 135.00 | 30.6 | 12.2 | 67.1 |
| 157.50 | 50.4 | 15.1 | 95.7 |
| 180.00 | 71.7 | 19.4 | 130.0 |
| 202.50 | 85.0 | 16.0 | 133.1 |
| 225.00 | 70.6 | 15.8 | 118.1 |
| 247.50 | 53.7 | 13.6 | 94.3 |
| 270.00 | 34.9 | 14.1 | 77.3 |
| 292.50 | 20.2 | 10.8 | 52.6 |
| 315.00 | 12.6 | 7.7 | 35.6 |
| 337.50 | 38.8 | 12.8 | 77.3 |

LOCATION 27

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 15.1 | 7.1 | 36.3 |
| 22.50 | 14.6 | 6.3 | 33.7 |
| 45.00 | 26.9 | 13.0 | 65.9 |
| 67.50 | 36.5 | 15.7 | 83.6 |
| 90.00 | 25.2 | 13.8 | 66.7 |
| 112.50 | 27.0 | 11.4 | 61.2 |
| 135.00 | 16.8 | 7.7 | 39.9 |
| 157.50 | 20.7 | 9.1 | 48.1 |
| 180.00 | 34.8 | 11.3 | 68.8 |
| 202.50 | 58.4 | 12.6 | 96.1 |
| 225.00 | 53.8 | 11.8 | 89.2 |
| 247.50 | 49.1 | 11.0 | 81.9 |
| 270.00 | 48.5 | 12.3 | 85.4 |
| 292.50 | 28.1 | 14.1 | 70.3 |
| 315.00 | 14.1 | 6.8 | 34.5 |
| 337.50 | 18.5 | 8.4 | 43.8 |

LOCATION 28

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 27.3 | 10.6 | 59.2 |
| 22.50 | 24.0 | 8.4 | 49.1 |
| 45.00 | 17.9 | 7.2 | 39.4 |
| 67.50 | 20.9 | 11.8 | 56.1 |
| 90.00 | 30.8 | 17.5 | 83.2 |
| 112.50 | 18.3 | 7.7 | 41.4 |
| 135.00 | 16.2 | 7.1 | 37.5 |
| 157.50 | 25.9 | 12.4 | 63.0 |
| 180.00 | 32.7 | 15.3 | 78.6 |
| 202.50 | 40.3 | 14.4 | 83.5 |
| 225.00 | 47.2 | 16.2 | 96.0 |
| 247.50 | 30.4 | 10.2 | 60.8 |
| 270.00 | 29.5 | 13.4 | 69.8 |
| 292.50 | 21.8 | 11.0 | 54.7 |
| 315.00 | 40.5 | 20.2 | 101.0 |
| 337.50 | 40.6 | 18.9 | 97.2 |

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
LAKEWAY CENTER WITH THREE LAKEWAY

LOCATION 29

| WIND AZIMUTH | UMEAN/UINF (PERCENT) | URMS/UINF (PERCENT) | UMEAN+3*URMS/UINF (PERCENT) |
|---|---|---|---|
| 0.00 | 13.8 | 5.4 | 29.9 |
| 22.50 | 35.5 | 6.9 | 56.1 |
| 45.00 | 31.3 | 5.3 | 47.2 |
| 67.50 | 22.7 | 5.4 | 38.9 |
| 90.00 | 13.5 | 3.8 | 24.9 |
| 112.50 | 19.4 | 9.4 | 47.6 |
| 135.00 | 32.0 | 16.3 | 81.0 |
| 157.50 | 30.8 | 7.4 | 53.1 |
| 180.00 | 16.9 | 8.3 | 41.9 |
| 202.50 | 17.8 | 9.5 | 46.4 |
| 225.00 | 32.0 | 11.6 | 66.8 |
| 247.50 | 30.6 | 7.3 | 52.5 |
| 270.00 | 29.1 | 6.4 | 48.5 |
| 292.50 | 14.9 | 7.2 | 36.4 |
| 315.00 | 29.9 | 11.2 | 63.4 |
| 337.50 | 33.1 | 9.4 | 61.2 |

TABLE 2 --PEDESTRIAN WIND VELOCITIES AND TURBULANCE INTENSITIES
LAKEWAY CENTER WITH THREE LAKEWAY

** GREATEST VALUES **

UMEAN/UINF (PERCENT)

| LOC | AZ | MEAN | RMS | M+3RMS |
|---|---|---|---|---|
| 26 | 67.5 | 93.4 | 10.8 | 126.0 |
| 1 | 45.0 | 90.4 | 11.4 | 124.5 |
| 15 | 90.0 | 90.1 | 17.3 | 141.9 |
| 22 | 157.5 | 86.5 | 12.8 | 124.9 |
| 23 | 180.0 | 86.4 | 9.7 | 115.5 |
| 8 | 337.5 | 86.2 | 14.6 | 130.1 |
| 26 | 45.0 | 85.7 | 9.8 | 115.1 |
| 1 | 22.5 | 85.1 | 13.4 | 125.3 |
| 26 | 202.5 | 85.0 | 16.0 | 133.1 |
| 1 | 0.0 | 84.3 | 10.4 | 115.5 |

URMS/UINF (PERCENT)

| LOC | AZ | MEAN | RMS | M+3RMS |
|---|---|---|---|---|
| 17 | 270.0 | 43.7 | 26.2 | 122.3 |
| 15 | 0.0 | 42.5 | 25.8 | 120.0 |
| 9 | 292.5 | 56.0 | 25.7 | 133.0 |
| 20 | 90.0 | 67.4 | 23.5 | 137.9 |
| 8 | 315.0 | 45.3 | 23.2 | 115.0 |
| 7 | 0.0 | 53.8 | 23.1 | 123.1 |
| 20 | 315.0 | 72.1 | 22.7 | 140.4 |
| 22 | 180.0 | 65.4 | 22.6 | 133.1 |
| 7 | 337.5 | 67.4 | 22.5 | 134.9 |
| 22 | 0.0 | 76.4 | 22.4 | 143.5 |

UMEAN+3*RMS/UINF (PERCENT)

| LOC | AZ | MEAN | RMS | M+3RMS |
|---|---|---|---|---|
| 22 | 0.0 | 76.4 | 22.4 | 143.5 |
| 15 | 90.0 | 90.1 | 17.3 | 141.9 |
| 20 | 315.0 | 72.1 | 22.7 | 140.4 |
| 20 | 90.0 | 67.4 | 23.5 | 137.9 |
| 7 | 337.5 | 67.4 | 22.5 | 134.9 |
| 16 | 45.0 | 80.9 | 17.7 | 133.9 |
| 16 | 22.5 | 80.0 | 18.0 | 133.9 |
| 20 | 22.5 | 76.6 | 19.0 | 133.5 |
| 26 | 202.5 | 85.0 | 16.0 | 133.1 |
| 22 | 180.0 | 65.4 | 22.6 | 133.1 |

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NEW ORLEANS, LOUISIANA INT. AEPRT (1965-1974)

SEASON : ANNUAL NO. OF OBS.= 29216 HT. OF MEAS.= 20 FT

VELOCITY LEVELS IN MPH

| DIRECTION | 0- 3 | 4- 7 | 8-12 | 13-18 | 19-24 | 25 + | TOTAL |
|---|---|---|---|---|---|---|---|
| N | 1.10 | 3.10 | 3.90 | 2.50 | .20 | 0.00 | 10.80 |
| NNE | .70 | 1.90 | 2.70 | 1.30 | 0.00 | 0.00 | 6.70 |
| NE | .80 | 1.90 | 2.80 | 1.20 | 0.00 | 0.00 | 6.70 |
| ENE | 1.00 | 2.10 | 2.30 | 1.10 | 0.00 | 0.00 | 6.50 |
| E | 1.00 | 2.30 | 2.20 | .90 | .10 | 0.00 | 6.50 |
| ESE | .60 | 2.20 | 2.20 | .80 | .10 | 0.00 | 5.90 |
| SE | .30 | 1.50 | 2.50 | 1.30 | .10 | 0.00 | 5.70 |
| SSE | .20 | 1.30 | 2.40 | 1.60 | .20 | 0.00 | 5.70 |
| S | .50 | 2.50 | 3.80 | 2.50 | .30 | 0.00 | 9.70 |
| SSW | .50 | 1.90 | 1.50 | .50 | .10 | 0.00 | 4.50 |
| SW | .60 | 1.60 | 1.20 | .50 | 0.00 | 0.00 | 3.80 |
| WSW | .70 | 1.20 | .90 | .40 | 0.00 | 0.00 | 3.30 |
| W | 1.30 | 1.70 | .90 | .50 | .10 | 0.00 | 4.60 |
| WNW | .70 | 1.10 | .90 | .40 | 0.00 | 0.00 | 3.00 |
| NW | .70 | 1.00 | 1.10 | .90 | .10 | 0.00 | 3.70 |
| NNW | .80 | 1.10 | 1.60 | 1.20 | .20 | 0.00 | 4.80 |
| CALM | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 |
| TOT | 19.20 | 28.50 | 32.70 | 17.70 | 1.60 | .20 | 100.00 |

TABLE 4

SUMMARY OF WIND EFFECTS ON PEOPLE

| | Beaufort number | Speed (mph) | Effects |
|---|---|---|---|
| Calm, light air | 0,1 | 0-3 | Calm, no noticeable wind |
| Light breeze | 2 | 4-7 | Wind felt on face |
| Gentle breeze | 3 | 8-12 | Wind extends light flag<br>Hair is disburbed<br>Clothing flaps |
| Moderate breeze | 4 | 13-18 | Raises dust, dry soil and loose paper<br>Hair disarranged |
| Fresh breeze | 5 | 19-24 | Force of wind felt on body<br>Drifting snow becomes airborne<br>Limit of agreeable wind on land |
| Strong breeze | 6 | 25-31 | Umbrellas used with difficulty<br>Hair blown straight<br>Difficult to walk steadily<br>Wind noise on ears unpleasant<br>Windborne snow above head height (blizzard) |
| Near gale | 7 | 32-38 | Inconvenience felt when walking |
| Gale | 8 | 39-46 | Generally impedes progress<br>Great difficulty with balance in gusts |
| Strong gale | 9 | 47-54 | People blown over by gusts |

Note: Table from Reference 4, p. 40.

TABLE 5

CALCULATION OF REFERENCE PRESSURE

1. Basic wind speed from ANSI A58.1 (Ref. 6):

50-year fastest mile at 30 ft = 90 mph

Mean hourly wind speed = $\frac{90}{1.28}$ = 70.3 mph

Mean hourly gradient wind speed = $70.3 \left(\frac{900}{30}\right)^{.16}$ = 121.1 mph

Mean hourly wind at reference location = $U_\infty$ = gradient wind

= 121.1 mph

Reference Pressure = $0.5\ \rho\ U_\infty^2 = (.00256)\ (121.1)^2 = \underline{\underline{37.6}}$

<u>Use 38 psf</u>

2. Loads for 100-year recurrence wind:

100-year fastest mile at 30 ft = 102 mph

Multiply 50-year loads by $\left(\frac{102}{90}\right)^2$ = 1.28

3. Gust load factors to convert hourly mean integrated loads to various gust durations (see Section 4.4):

| Gust Duration (sec) | Gust Load Factor |
|---|---|
| 10 - 15 | $(1.40)^2 = 1.96$ |
| 30 | $(1.32)^2 = 1.74$ |
| 45 | $(1.26)^2 = 1.59$ |

The 30-second gust load factor was used in Table 7.

Table 5 (Con't.)

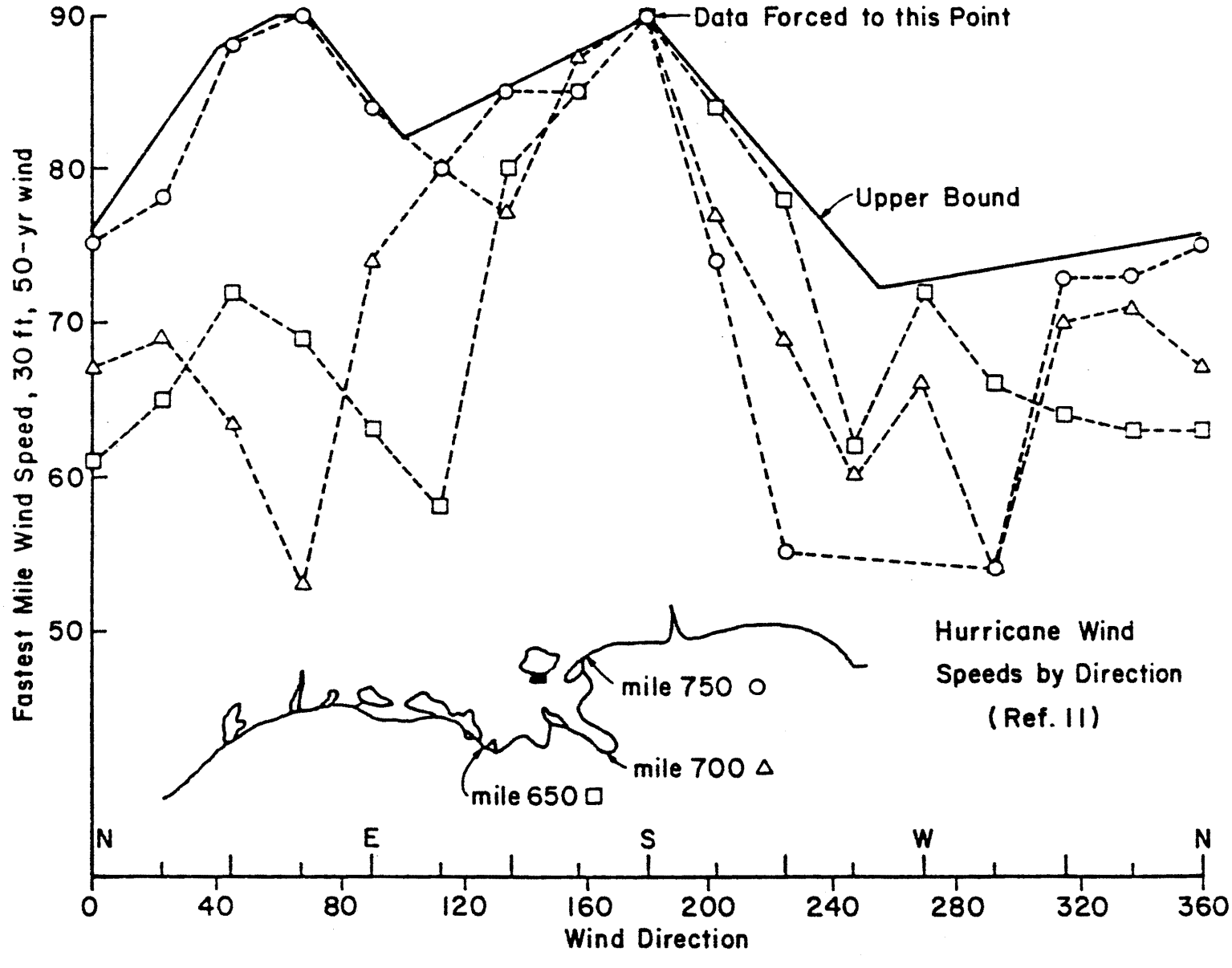

Data Forced to this Point
Upper Bound
Fastest Mile Wind Speed, 30 ft, 50-yr wind
90
80
70
60
50
mile 750 ○
mile 700 △
mile 650 □
Hurricane Wind
Speeds by Direction
(Ref. 11)
N
E
S
W
N
0
40
80
120
160
200
240
280
320
360
Wind Direction

TABLE 5 (continued)

| APPROACH WIND DIRECTION, DEGREES | FASTEST MILE WIND SPEED MPH* | DIRECTIONAL LOAD FACTOR FOR REFERENCE PRESSURE* |
|---|---|---|
| 0 | 76 | 0.71 |
| 10 | 79 | 0.77 |
| 20 | 82 | 0.83 |
| 30 | 85 | 0.89 |
| 40 | 88 | 0.96 |
| 50 | 89 | 0.98 |
| 60 | 90 | 1.00 |
| 70 | 90 | 1.00 |
| 80 | 87 | 0.93 |
| 90 | 85 | 0.89 |
| 100 | 82 | 0.83 |
| 110 | 83 | 0.85 |
| 120 | 84 | 0.87 |
| 130 | 85 | 0.89 |
| 140 | 86 | 0.96 |
| 150 | 87 | 0.93 |
| 160 | 88 | 0.96 |
| 170 | 89 | 0.98 |
| 180 | 90 | 1.00 |
| 190 | 88 | 0.96 |
| 200 | 85 | 0.89 |
| 210 | 83 | 0.85 |
| 220 | 81 | 0.81 |
| 230 | 78 | 0.75 |
| 240 | 76 | 0.71 |
| 250 | 73 | 0.66 |
| 260 | 72 | 0.64 |
| 270 | 73 | 0.66 |
| 280 | 73 | 0.66 |
| 290 | 73 | 0.66 |
| 300 | 74 | 0.68 |
| 310 | 74 | 0.68 |
| 320 | 74 | 0.68 |
| 330 | 75 | 0.83 |
| 340 | 75 | 0.83 |
| 350 | 75 | 0.83 |

*Based on upper-bound curve on previous page.

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : ONE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1101 | 150 | -1.29 | -45.7 | 28.6 | 1149 | 350 | .75 | -19.1 | 23.6 | 1235 | 180 | -2.54 | -96.4 | 28.6 |
| 1102 | 300 | -1.87 | -48.2 | 12.4 | 1150 | 340 | .72 | -16.4 | 22.7 | 1236 | 180 | -1.10 | -42.0 | 24.2 |
| 1103 | 140 | -1.01 | -36.7 | 7.6 | 1151 | 270 | -1.04 | -26.2 | 26.2 | 1237 | 20 | -1.42 | -44.7 | 22.7 |
| 1104 | 240 | -1.60 | -43.2 | 12.1 | 1152 | 90 | -.84 | -28.6 | 27.3 | 1238 | 150 | -1.50 | -52.9 | 29.6 |
| 1105 | 240 | -1.28 | -34.4 | 25.5 | 1153 | 330 | .70 | -18.0 | 22.0 | 1239 | 150 | -1.37 | -48.5 | 27.6 |
| 1106 | 180 | -1.18 | -44.9 | 26.2 | 1154 | 270 | -1.08 | -27.1 | 21.0 | 1240 | 150 | -1.35 | -47.9 | 38.4 |
| 1107 | 80 | -1.60 | -56.7 | 30.0 | 1155 | 270 | -1.23 | -30.8 | 21.9 | 1241 | 330 | -1.18 | -37.2 | 19.4 |
| 1108 | 90 | -1.47 | -49.7 | 24.9 | 1156 | 30 | .73 | -16.5 | 24.7 | 1242 | 180 | -1.21 | -46.0 | 32.1 |
| 1109 | 140 | -1.02 | -37.3 | 18.5 | 1157 | 10 | .82 | -19.8 | 24.1 | 1243 | 190 | -.84 | -30.6 | 27.7 |
| 1110 | 140 | -1.06 | -38.7 | 18.7 | 1158 | 340 | .87 | -19.4 | 27.3 | 1244 | 130 | .83 | -24.1 | 28.0 |
| 1111 | 230 | -1.28 | -36.5 | 17.7 | 1159 | 270 | -1.46 | -36.6 | 21.5 | 1245 | 90 | .70 | -22.4 | 23.8 |
| 1112 | 120 | -1.57 | -52.0 | 19.1 | 1160 | 30 | .73 | -18.9 | 24.7 | 1246 | 70 | .71 | -24.5 | 26.9 |
| 1113 | 140 | -.99 | -35.9 | 21.8 | 1161 | 340 | .87 | -18.4 | 27.5 | 1247 | 130 | -1.41 | -47.6 | 29.4 |
| 1114 | 130 | -.99 | -33.5 | 22.9 | 1162 | 340 | .91 | -16.3 | 28.6 | 1248 | 10 | -1.21 | -35.4 | 30.6 |
| 1115 | 80 | -1.26 | -44.7 | 39.3 | 1163 | 270 | -1.66 | -41.6 | 20.9 | 1249 | 50 | .44 | -11.7 | 16.5 |
| 1116 | 90 | -1.20 | -40.7 | 36.7 | 1201 | 210 | -1.99 | -64.2 | 19.8 | 1250 | 50 | .46 | -13.3 | 17.0 |
| 1117 | 10 | 1.14 | -29.7 | 33.2 | 1202 | 80 | -1.48 | -52.3 | 19.8 | 1251 | 50 | .61 | -15.9 | 22.6 |
| 1118 | 20 | .97 | -25.7 | 30.5 | 1203 | 180 | -1.91 | -72.6 | 17.5 | 1252 | 60 | .60 | -22.6 | 23.0 |
| 1119 | 350 | .95 | -27.3 | 30.0 | 1204 | 180 | -1.47 | -56.0 | 19.0 | 1253 | 30 | .50 | -12.6 | 16.8 |
| 1120 | 340 | 1.03 | -22.7 | 32.6 | 1205 | 180 | -1.15 | -43.6 | 28.8 | 1254 | 40 | .44 | -13.7 | 16.1 |
| 1121 | 340 | 1.00 | -24.9 | 31.6 | 1206 | 200 | -1.25 | -42.2 | 29.7 | 1255 | 50 | .47 | -13.2 | 17.4 |
| 1122 | 330 | .97 | -25.7 | 30.6 | 1207 | 200 | -1.18 | -40.0 | 34.8 | 1256 | 180 | -.47 | -17.8 | 14.7 |
| 1123 | 80 | -1.37 | -48.4 | 37.5 | 1208 | 210 | -1.13 | -36.4 | 31.8 | 1257 | 160 | -.48 | -17.6 | 13.8 |
| 1124 | 90 | -1.39 | -47.0 | 36.7 | 1209 | 190 | -1.15 | -41.8 | 29.2 | 1258 | 190 | -.50 | -18.2 | 14.8 |
| 1125 | 30 | .91 | -28.9 | 30.9 | 1210 | 180 | -2.27 | -86.2 | 10.9 | 1301 | 340 | -1.54 | -48.6 | 22.0 |
| 1126 | 30 | .88 | -24.4 | 29.6 | 1211 | 190 | -2.17 | -79.1 | 16.0 | 1302 | 190 | -1.61 | -58.8 | 23.8 |
| 1127 | 10 | 1.00 | -19.2 | 29.4 | 1212 | 150 | -1.09 | -38.6 | 29.5 | 1303 | 140 | -1.08 | -39.4 | 33.7 |
| 1128 | 340 | .93 | -17.3 | 29.4 | 1213 | 160 | -.91 | -33.2 | 32.5 | 1304 | 90 | -1.19 | -40.3 | 24.3 |
| 1129 | 340 | .96 | -22.2 | 30.2 | 1214 | 150 | 1.05 | -31.5 | 36.9 | 1305 | 110 | -1.70 | -55.1 | 13.7 |
| 1130 | 340 | .93 | -20.7 | 29.2 | 1215 | 90 | 1.02 | -32.5 | 34.6 | 1306 | 40 | -1.55 | -56.5 | 35.1 |
| 1131 | 150 | -1.39 | -49.3 | 40.7 | 1216 | 80 | .96 | -32.1 | 33.9 | 1307 | 120 | -1.18 | -39.2 | 36.5 |
| 1132 | 80 | -1.55 | -54.8 | 31.8 | 1217 | 190 | -2.07 | -75.4 | 11.0 | 1308 | 130 | -1.44 | -48.7 | 6.8 |
| 1133 | 30 | 1.02 | -33.9 | 34.4 | 1218 | 170 | -1.82 | -67.9 | 11.5 | 1309 | 50 | -1.05 | -39.1 | 35.2 |
| 1134 | 10 | 1.00 | -23.1 | 29.3 | 1219 | 160 | -1.45 | -52.8 | 25.5 | 1310 | 120 | -1.06 | -34.9 | 34.4 |
| 1135 | 10 | 1.08 | -19.5 | 31.6 | 1220 | 160 | -.91 | -33.4 | 31.4 | 1311 | 190 | -1.07 | -39.1 | 8.5 |
| 1136 | 350 | 1.00 | -19.7 | 31.6 | 1221 | 120 | .88 | -24.4 | 29.1 | 1312 | 170 | 1.01 | -33.7 | 37.7 |
| 1137 | 240 | -1.05 | -28.4 | 27.0 | 1222 | 70 | 1.02 | -36.9 | 38.9 | 1313 | 180 | .87 | -23.2 | 33.2 |
| 1138 | 230 | -.91 | -25.9 | 25.3 | 1223 | 40 | -1.04 | -38.0 | 34.6 | 1314 | 110 | -1.18 | -38.0 | 12.5 |
| 1139 | 100 | -1.52 | -48.0 | 27.0 | 1224 | 180 | -2.34 | -89.1 | 8.8 | 1315 | 170 | 1.04 | -34.1 | 38.6 |
| 1140 | 80 | -1.14 | -40.1 | 19.1 | 1225 | 180 | -1.76 | -67.0 | 13.4 | 1316 | 190 | .94 | -31.6 | 34.1 |
| 1141 | 150 | -.88 | -31.0 | 26.4 | 1226 | 170 | -.83 | -30.9 | 27.4 | 1317 | 180 | -1.03 | -39.1 | 9.8 |
| 1142 | 120 | -.90 | -29.7 | 24.6 | 1227 | 170 | -.87 | -32.3 | 31.7 | 1318 | 90 | -1.36 | -46.0 | 13.1 |
| 1143 | 350 | .82 | -24.0 | 25.9 | 1228 | 180 | -1.28 | -48.7 | 28.3 | 1319 | 180 | 1.15 | -23.0 | 43.7 |
| 1144 | 350 | .80 | -20.4 | 25.4 | 1229 | 40 | -.84 | -30.8 | 29.4 | 1320 | 230 | -1.19 | -33.9 | 29.4 |
| 1145 | 350 | .89 | -21.0 | 28.0 | 1230 | 50 | -.85 | -31.5 | 29.9 | 1321 | 180 | -1.02 | -38.7 | 14.7 |
| 1146 | 340 | .81 | -22.3 | 25.6 | 1231 | 180 | -1.10 | -41.7 | 24.1 | 1322 | 220 | -.58 | -17.9 | 16.9 |
| 1147 | 340 | .83 | -25.2 | 26.3 | 1233 | 330 | -1.22 | -38.4 | 20.8 | 1323 | 180 | .73 | -16.0 | 27.8 |
| 1148 | 110 | -.93 | -30.0 | 23.9 | 1234 | 190 | -2.11 | -77.1 | 32.3 | 1324 | 330 | -.72 | -22.6 | 21.6 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : ONE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1325 | 190 | -.87 | -31.8 | 11.1 | 1425 | 10 | -1.36 | -39.7 | 21.9 | 1901 | 90 | -1.33 | -45.0 | 36.0 |
| 1326 | 90 | -.92 | -31.0 | 12.2 | 1426 | 20 | -.73 | -23.0 | 18.3 | 1902 | 330 | -1.26 | -39.7 | 16.4 |
| 1327 | 180 | .75 | -17.6 | 28.4 | 1427 | 20 | -.95 | -29.9 | 16.8 | 1903 | 120 | -.96 | -31.7 | 7.2 |
| 1328 | 180 | .60 | -21.6 | 23.0 | 1428 | 200 | -.99 | -33.4 | 19.4 | 1904 | 200 | -1.00 | -33.8 | 12.8 |
| 1329 | 180 | .71 | -22.9 | 27.1 | 1429 | 180 | -1.79 | -67.9 | 25.2 | 1905 | 120 | -1.19 | -39.3 | 13.2 |
| 1330 | 170 | .68 | -18.1 | 25.5 | 1430 | 190 | -2.55 | -92.9 | 23.4 | 1906 | 70 | -1.88 | -71.4 | 26.4 |
| 1331 | 200 | .74 | -15.4 | 24.9 | 1431 | 260 | -1.02 | -24.8 | 24.3 | 1907 | 10 | -1.97 | -57.7 | 28.4 |
| 1332 | 220 | .60 | -17.3 | 18.3 | 1432 | 270 | -1.25 | -31.3 | 23.3 | 1908 | 330 | -1.44 | -45.3 | 15.0 |
| 1333 | 170 | -.81 | -30.3 | 13.5 | 1433 | 30 | -.81 | -27.5 | 21.5 | 1909 | 170 | -1.46 | -54.2 | 8.5 |
| 1334 | 190 | .54 | -17.8 | 19.9 | 1434 | 210 | -.84 | -27.1 | 20.2 | 1910 | 170 | -.83 | -31.0 | 9.5 |
| 1401 | 170 | -1.11 | -41.3 | 19.3 | 1435 | 210 | -1.54 | -49.6 | 23.6 | 1911 | 340 | -.88 | -27.8 | 9.3 |
| 1402 | 200 | -1.44 | -48.6 | 18.8 | 1436 | 200 | -1.61 | -54.4 | 24.5 | 1912 | 200 | -.98 | -33.3 | 7.6 |
| 1403 | 170 | -.87 | -32.5 | 24.5 | 1437 | 180 | -1.61 | -61.2 | 22.3 | 1913 | 150 | -1.09 | -38.4 | 19.8 |
| 1404 | 250 | -1.72 | -43.2 | 22.9 | 1438 | 260 | -1.46 | -35.5 | 27.4 | 1914 | 140 | .98 | -28.5 | 35.7 |
| 1405 | 240 | -1.42 | -38.3 | 9.4 | 1439 | 220 | -1.97 | -60.6 | 22.8 | 1915 | 170 | -1.03 | -38.5 | 11.3 |
| 1406 | 180 | -1.08 | -41.2 | 10.5 | 1440 | 270 | -1.81 | -45.4 | 25.6 | 1916 | 80 | -1.39 | -49.2 | 7.3 |
| 1407 | 160 | -1.21 | -44.2 | 7.4 | 1441 | 190 | -1.94 | -70.9 | 23.9 | 1917 | 340 | -1.17 | -36.9 | 13.7 |
| 1408 | 180 | -1.57 | -59.5 | 8.3 | 1442 | 270 | -1.40 | -35.1 | 24.6 | 1918 | 170 | -.89 | -33.0 | 12.8 |
| 1409 | 180 | -1.81 | -69.0 | 10.1 | 1443 | 270 | -1.14 | -28.5 | 24.3 | 1919 | 170 | -1.14 | -42.4 | 11.9 |
| 1410 | 280 | -1.15 | -28.8 | 26.8 | 1444 | 220 | -.69 | -21.3 | 19.6 | 1920 | 180 | -.93 | -35.2 | 11.4 |
| 1411 | 290 | 1.09 | -26.5 | 27.4 | 1445 | 220 | -.83 | -25.6 | 23.4 | 1921 | 170 | -1.16 | -43.0 | 10.9 |
| 1412 | 150 | -.85 | -30.1 | 18.8 | 1446 | 210 | -1.04 | -33.6 | 30.6 | 1922 | 140 | -1.35 | -49.3 | 13.1 |
| 1413 | 190 | -.76 | -27.6 | 19.5 | 1447 | 180 | -1.01 | -38.4 | 32.7 | 1923 | 190 | -1.02 | -37.1 | 11.4 |
| 1414 | 190 | -1.26 | -46.0 | 15.2 | 1448 | 180 | -.96 | -36.4 | 20.9 | 1924 | 170 | -1.21 | -45.0 | 19.0 |
| 1415 | 180 | -1.54 | -58.5 | 16.1 | 1449 | 180 | .72 | -19.4 | 27.2 | 1925 | 210 | -2.00 | -64.6 | 11.8 |
| 1416 | 180 | -1.97 | -75.0 | 17.0 | 1450 | 270 | -1.46 | -36.7 | 24.3 | 1926 | 180 | -1.18 | -44.9 | 12.3 |
| 1417 | 350 | -.99 | -31.4 | 25.3 | 1451 | 270 | -1.46 | -36.6 | 23.2 | 1927 | 190 | -1.33 | -48.4 | 13.7 |
| 1418 | 10 | -1.13 | -33.1 | 25.3 | 1452 | 350 | .83 | -21.2 | 26.1 | 1928 | 200 | -1.62 | -54.8 | 22.2 |
| 1419 | 190 | -.61 | -22.1 | 19.5 | 1453 | 200 | -.62 | -20.9 | 16.2 | 1929 | 190 | -1.97 | -71.9 | 27.2 |
| 1420 | 210 | -.70 | -22.7 | 19.3 | 1454 | 130 | -.66 | -22.2 | 17.9 | 1930 | 220 | -2.04 | -62.9 | 18.2 |
| 1421 | 200 | -1.36 | -46.0 | 18.6 | 1455 | 180 | -.63 | -24.1 | 20.0 | 1931 | 180 | -1.46 | -55.5 | 19.1 |
| 1422 | 180 | -1.66 | -62.9 | 21.8 | 1456 | 170 | -.67 | -24.9 | 19.4 | 1932 | 330 | -1.45 | -45.6 | 38.5 |
| 1423 | 190 | -1.69 | -61.7 | 13.5 | 1457 | 170 | -1.47 | -54.8 | 17.4 | 1933 | 170 | -1.72 | -63.9 | 25.2 |
| 1424 | 350 | -1.09 | -34.5 | 22.5 | | | | | | | | | | |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : ONE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

* * 15 GREATEST PRESSURE MAGNITUDES * *

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK | POSITIVE PEAK |
|---|---|---|---|---|
| | | | ---- PSF | ---- |
| 1235 | 180 | -2.54 | -96.4 | 28.6 |
| 1430 | 190 | -2.55 | -92.9 | 23.4 |
| 1224 | 180 | -2.34 | -89.1 | 8.8 |
| 1210 | 180 | -2.27 | -86.2 | 10.9 |
| 1211 | 190 | -2.17 | -79.1 | 16.0 |
| 1234 | 190 | -2.11 | -77.1 | 32.3 |
| 1217 | 190 | -2.07 | -75.4 | 11.0 |
| 1416 | 180 | -1.97 | -75.0 | 17.0 |
| 1203 | 180 | -1.91 | -72.6 | 17.5 |
| 1929 | 190 | -1.97 | -71.9 | 27.2 |
| 1906 | 70 | -1.88 | -71.4 | 26.4 |
| 1441 | 190 | -1.94 | -70.9 | 23.9 |
| 1409 | 180 | -1.81 | -69.0 | 10.1 |
| 1429 | 180 | -1.79 | -67.9 | 25.2 |
| 1218 | 170 | -1.82 | -67.9 | 11.5 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : TWO LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2101 | 10 | -1.98 | -58.0 | 40.7 | 2149 | 310 | -1.21 | -31.3 | 30.0 | 2218 | 180 | -1.43 | -54.5 | 21.7 |
| 2102 | 190 | -1.26 | -45.9 | 32.9 | 2150 | 310 | -1.34 | -34.6 | 30.3 | 2219 | 180 | -1.45 | -55.0 | 24.8 |
| 2103 | 350 | -1.99 | -62.9 | 28.2 | 2151 | 40 | 1.00 | -35.7 | 36.6 | 2220 | 180 | -1.89 | -71.7 | 27.1 |
| 2104 | 10 | -1.69 | -49.6 | 33.4 | 2152 | 50 | 1.03 | -26.7 | 38.2 | 2221 | 170 | -2.11 | -78.5 | 27.5 |
| 2105 | 10 | -1.69 | -49.5 | 20.9 | 2153 | 60 | .78 | -25.5 | 29.8 | 2222 | 180 | -2.01 | -76.3 | 32.1 |
| 2106 | 40 | -1.51 | -55.0 | 19.0 | 2154 | 300 | -1.39 | -35.9 | 28.4 | 2223 | 30 | -1.58 | -53.3 | 18.2 |
| 2107 | 140 | -1.60 | -58.3 | 29.9 | 2155 | 310 | -1.62 | -41.9 | 29.2 | 2224 | 180 | -1.29 | -49.0 | 12.7 |
| 2108 | 150 | -1.32 | -46.5 | 32.2 | 2156 | 40 | .85 | -29.0 | 30.9 | 2225 | 190 | -2.79 | -101.8 | 21.4 |
| 2109 | 180 | -1.18 | -44.7 | 30.4 | 2157 | 310 | -1.64 | -42.4 | 27.3 | 2226 | 190 | -1.61 | -58.8 | 28.1 |
| 2110 | 210 | -1.24 | -40.1 | 26.2 | 2158 | 210 | -1.08 | -34.8 | 19.6 | 2227 | 190 | -1.09 | -39.6 | 22.9 |
| 2111 | 180 | -1.36 | -51.5 | 26.4 | 2159 | 170 | -.99 | -36.7 | 22.6 | 2228 | 40 | -1.30 | -47.5 | 16.0 |
| 2112 | 160 | -1.14 | -41.5 | 19.1 | 2160 | 180 | -1.65 | -62.7 | 27.6 | 2229 | 180 | -1.23 | -46.8 | 14.3 |
| 2113 | 180 | -1.55 | -58.9 | 23.2 | 2161 | 290 | -1.55 | -38.8 | 34.4 | 2230 | 200 | -1.67 | -56.4 | 31.7 |
| 2114 | 170 | -1.87 | -69.6 | 24.4 | 2162 | 40 | .92 | -29.5 | 33.4 | 2231 | 340 | -1.06 | -33.5 | 21.3 |
| 2115 | 120 | -1.70 | -56.1 | 35.3 | 2163 | 60 | 1.07 | -25.9 | 40.7 | 2232 | 30 | -1.14 | -38.4 | 33.6 |
| 2116 | 100 | -1.47 | -46.4 | 40.9 | 2164 | 70 | 1.09 | -23.9 | 41.3 | 2233 | 150 | 1.05 | -35.8 | 37.3 |
| 2117 | 150 | -1.11 | -39.1 | 33.6 | 2165 | 300 | -1.09 | -28.3 | 22.5 | 2234 | 220 | -1.45 | -44.5 | 10.7 |
| 2118 | 50 | .98 | -28.8 | 36.7 | 2166 | 300 | -1.07 | -27.5 | 21.0 | 2235 | 70 | -1.69 | -64.3 | 20.0 |
| 2119 | 60 | 1.00 | -30.7 | 38.1 | 2167 | 310 | -1.96 | -50.7 | 19.2 | 2236 | 180 | -1.40 | -53.3 | 18.5 |
| 2120 | 50 | .98 | -36.0 | 36.3 | 2168 | 310 | -1.73 | -44.6 | 21.6 | 2237 | 190 | -.80 | -29.2 | 19.2 |
| 2121 | 180 | -1.24 | -47.1 | 30.6 | 2169 | 180 | -1.47 | -55.7 | 25.4 | 2238 | 140 | -1.02 | -37.4 | 23.2 |
| 2122 | 190 | -2.07 | -75.5 | 31.5 | 2170 | 190 | -1.12 | -40.7 | 27.5 | 2239 | 130 | -.94 | -31.7 | 21.6 |
| 2123 | 120 | -1.89 | -62.5 | 24.3 | 2171 | 300 | -1.20 | -31.0 | 29.6 | 2240 | 130 | -.95 | -32.0 | 18.7 |
| 2124 | 120 | -1.43 | -47.1 | 21.8 | 2172 | 60 | -1.03 | -39.1 | 25.9 | 2241 | 50 | -.81 | -30.3 | 17.1 |
| 2125 | 150 | -1.01 | -35.8 | 26.3 | 2173 | 180 | -1.08 | -41.0 | 26.4 | 2242 | 130 | -.95 | -32.3 | 20.5 |
| 2126 | 50 | .95 | -25.4 | 35.3 | 2174 | 190 | -.97 | -35.6 | 30.9 | 2243 | 140 | -.86 | -31.3 | 9.5 |
| 2127 | 60 | 1.02 | -26.6 | 38.9 | 2175 | 180 | -.88 | -33.5 | 27.5 | 2244 | 190 | -1.45 | -52.9 | 9.3 |
| 2128 | 50 | .99 | -28.1 | 37.0 | 2176 | 60 | 1.02 | -27.8 | 38.6 | 2245 | 220 | -1.11 | -34.2 | 12.2 |
| 2129 | 180 | -1.04 | -39.4 | 29.9 | 2177 | 40 | -2.02 | -73.6 | 19.5 | 2246 | 210 | -.89 | -28.7 | 11.4 |
| 2130 | 190 | -1.00 | -36.4 | 29.1 | 2178 | 30 | 1.09 | -29.4 | 36.8 | 2247 | 190 | -1.36 | -49.6 | 23.3 |
| 2131 | 120 | -1.61 | -53.3 | 11.2 | 2179 | 40 | -1.11 | -40.4 | 20.5 | 2248 | 120 | -.82 | -27.0 | 9.8 |
| 2132 | 120 | -1.33 | -44.1 | 10.6 | 2201 | 220 | -2.16 | -66.6 | 40.0 | 2249 | 190 | -.65 | -23.8 | 15.3 |
| 2133 | 200 | -1.00 | -33.8 | 25.0 | 2202 | 70 | -1.83 | -69.6 | 30.1 | 2250 | 290 | -1.13 | -28.3 | 15.4 |
| 2134 | 50 | .87 | -24.9 | 32.5 | 2203 | 160 | -2.06 | -75.1 | 24.1 | 2251 | 290 | -1.60 | -40.2 | 16.6 |
| 2135 | 60 | 1.11 | -25.0 | 42.1 | 2204 | 180 | -1.49 | -56.6 | 27.6 | 2252 | 330 | .67 | -16.6 | 21.0 |
| 2136 | 70 | .88 | -29.3 | 33.5 | 2205 | 150 | -3.28 | -115.9 | 31.7 | 2253 | 50 | .70 | -17.0 | 26.2 |
| 2137 | 310 | -1.27 | -32.9 | 28.3 | 2206 | 170 | -1.93 | -72.0 | 32.1 | 2254 | 100 | .71 | -17.1 | 22.3 |
| 2138 | 320 | -1.48 | -38.2 | 29.3 | 2207 | 160 | -1.42 | -51.9 | 32.4 | 2255 | 10 | .82 | -14.1 | 24.1 |
| 2139 | 120 | -1.33 | -43.9 | 16.0 | 2208 | 40 | -1.41 | -51.5 | 29.8 | 2256 | 130 | -.71 | -24.2 | 22.1 |
| 2140 | 190 | -1.04 | -37.8 | 16.2 | 2209 | 40 | -2.09 | -76.3 | 30.9 | 2257 | 10 | -1.31 | -38.5 | 19.5 |
| 2141 | 180 | -.88 | -33.4 | 25.1 | 2210 | 140 | -1.75 | -63.9 | 30.0 | 2258 | 200 | -1.54 | -52.2 | 24.1 |
| 2142 | 50 | .91 | -25.6 | 34.0 | 2211 | 150 | -1.61 | -56.7 | 35.6 | 2259 | 60 | .63 | -20.3 | 23.8 |
| 2143 | 60 | .84 | -30.1 | 31.7 | 2212 | 180 | -1.38 | -52.3 | 32.5 | 2260 | 60 | .54 | -19.2 | 20.5 |
| 2144 | 310 | -1.31 | -34.0 | 31.4 | 2213 | 40 | -1.49 | -54.3 | 35.4 | 2261 | 290 | -1.93 | -48.5 | 21.6 |
| 2145 | 310 | -1.39 | -36.0 | 25.9 | 2214 | 180 | -1.48 | -56.2 | 39.6 | 2262 | 180 | -.57 | -21.6 | 15.4 |
| 2146 | 310 | -1.92 | -49.7 | 29.1 | 2215 | 140 | -1.65 | -60.2 | 27.2 | 2301 | 40 | -1.53 | -56.0 | 27.8 |
| 2147 | 180 | -1.19 | -45.1 | 20.7 | 2216 | 170 | -1.58 | -58.7 | 30.5 | 2302 | 210 | -1.50 | -48.4 | 32.5 |
| 2148 | 50 | .98 | -27.5 | 36.5 | 2217 | 190 | -1.55 | -56.7 | 33.2 | 2303 | 180 | -1.82 | -69.2 | 22.9 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : TWO LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- PSF | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- PSF | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- PSF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2304 | 280 | -2.24 | -56.2 | 13.7 | 2352 | 40 | -.68 | -24.7 | 14.0 | 2434 | 150 | -1.31 | -46.3 | 21.6 |
| 2305 | 180 | -1.05 | -39.8 | 29.5 | 2353 | 40 | -.72 | -26.3 | 7.8 | 2435 | 0 | -1.59 | -42.8 | 22.5 |
| 2306 | 180 | -2.46 | -93.4 | 11.0 | 2354 | 40 | -.99 | -35.9 | 6.3 | 2436 | 20 | -1.21 | -38.1 | 21.3 |
| 2307 | 70 | -1.55 | -58.7 | 25.1 | 2355 | 180 | -1.06 | -40.3 | 16.8 | 2437 | 180 | -1.21 | -45.9 | 18.8 |
| 2308 | 70 | -1.43 | -54.5 | 23.3 | 2356 | 40 | -.65 | -23.6 | 8.5 | 2438 | 190 | -2.31 | -84.3 | 19.2 |
| 2309 | 70 | -1.34 | -51.0 | 20.3 | 2357 | 40 | -.58 | -21.3 | 15.2 | 2439 | 200 | -2.28 | -77.2 | 19.1 |
| 2310 | 70 | -2.05 | -78.1 | 17.8 | 2358 | 40 | -.65 | -23.8 | 8.2 | 2440 | 10 | -1.78 | -51.9 | 26.4 |
| 2311 | 40 | -1.43 | -52.0 | 21.5 | 2359 | 40 | -.85 | -31.1 | 4.6 | 2441 | 180 | -.97 | -36.7 | 20.2 |
| 2312 | 90 | -1.86 | -62.9 | 30.6 | 2360 | 190 | -.90 | -33.0 | 15.8 | 2442 | 180 | -1.60 | -60.6 | 22.9 |
| 2313 | 120 | -1.88 | -62.0 | 33.3 | 2361 | 40 | -.53 | -19.3 | 8.5 | 2443 | 30 | -1.42 | -48.0 | 25.1 |
| 2314 | 50 | -1.38 | -51.4 | 30.1 | 2362 | 40 | -.80 | -29.3 | 20.5 | 2444 | 0 | -1.93 | -52.0 | 27.5 |
| 2315 | 70 | -1.10 | -41.9 | 31.6 | 2363 | 40 | -.58 | -21.3 | 11.6 | 2445 | 10 | -1.48 | -43.3 | 24.6 |
| 2316 | 180 | .92 | -32.6 | 35.0 | 2364 | 50 | -.55 | -20.6 | 9.3 | 2446 | 10 | -1.37 | -40.0 | 20.2 |
| 2317 | 170 | .95 | -34.4 | 35.5 | 2365 | 50 | -.68 | -25.2 | 7.6 | 2447 | 180 | -1.18 | -44.9 | 17.9 |
| 2318 | 170 | .98 | -36.4 | 36.5 | 2366 | 160 | -.66 | -23.9 | 22.6 | 2448 | 180 | -1.72 | -65.3 | 20.4 |
| 2319 | 90 | -1.78 | -60.2 | 36.5 | 2401 | 170 | -1.48 | -55.0 | 35.9 | 2449 | 180 | -1.78 | -67.8 | 21.6 |
| 2320 | 90 | -1.74 | -58.8 | 32.6 | 2402 | 200 | -1.69 | -57.1 | 21.4 | 2450 | 40 | -1.08 | -39.4 | 35.2 |
| 2321 | 40 | -1.41 | -51.3 | 29.8 | 2403 | 80 | -1.33 | -47.0 | 37.1 | 2451 | 40 | -1.12 | -40.7 | 32.2 |
| 2322 | 50 | -1.26 | -46.9 | 33.6 | 2404 | 50 | -1.50 | -55.8 | 8.9 | 2452 | 0 | -1.78 | -48.0 | 22.2 |
| 2323 | 180 | .96 | -35.8 | 36.5 | 2405 | 170 | -1.97 | -73.2 | 20.5 | 2453 | 190 | -3.25 | -118.6 | 17.8 |
| 2324 | 170 | .97 | -32.8 | 36.0 | 2406 | 170 | -1.94 | -72.4 | 17.6 | 2454 | 50 | -.72 | -26.6 | 20.3 |
| 2325 | 70 | -1.08 | -41.0 | 37.7 | 2407 | 180 | -1.25 | -47.4 | 12.7 | 2455 | 180 | -.85 | -32.4 | 23.5 |
| 2326 | 100 | -1.82 | -57.3 | 34.0 | 2408 | 190 | -1.70 | -61.9 | 15.4 | 2456 | 0 | -2.65 | -71.6 | 15.1 |
| 2327 | 100 | -1.72 | -54.4 | 28.4 | 2409 | 190 | -1.68 | -61.2 | 13.2 | 2457 | 0 | -1.54 | -41.6 | 16.3 |
| 2328 | 50 | -1.21 | -45.0 | 26.6 | 2410 | 30 | -1.60 | -54.0 | 18.6 | 2458 | 10 | -1.32 | -38.7 | 17.4 |
| 2329 | 40 | -1.30 | -47.6 | 30.1 | 2411 | 210 | -2.46 | -79.5 | 20.4 | 2459 | 170 | -1.05 | -38.9 | 20.8 |
| 2330 | 280 | -1.58 | -39.6 | 30.5 | 2412 | 160 | -1.35 | -49.2 | 29.2 | 2460 | 180 | -1.46 | -55.4 | 17.5 |
| 2331 | 60 | -1.13 | -43.1 | 36.3 | 2413 | 350 | -1.33 | -41.9 | 27.3 | 2461 | 190 | -1.59 | -58.2 | 16.9 |
| 2332 | 70 | -1.14 | -43.2 | 32.8 | 2414 | 0 | -1.83 | -49.4 | 26.7 | 2462 | 190 | -1.42 | -51.9 | 16.4 |
| 2333 | 70 | -1.49 | -56.6 | 30.3 | 2415 | 180 | -.98 | -37.4 | 24.7 | 2463 | 180 | -.78 | -29.6 | 13.6 |
| 2334 | 70 | -1.38 | -52.3 | 33.4 | 2416 | 190 | -1.28 | -46.5 | 23.3 | 2464 | 180 | -.64 | -24.5 | 15.5 |
| 2335 | 270 | -2.98 | -74.7 | 22.2 | 2417 | 30 | -1.31 | -44.3 | 26.7 | 2465 | 10 | -1.44 | -42.1 | 22.9 |
| 2336 | 280 | -1.82 | -45.6 | 21.3 | 2418 | 200 | -1.25 | -42.2 | 25.6 | 2466 | 10 | -1.24 | -36.3 | 27.5 |
| 2337 | 50 | -1.03 | -38.3 | 31.9 | 2419 | 350 | -1.58 | -49.8 | 30.8 | 2467 | 10 | -1.21 | -35.3 | 26.1 |
| 2338 | 30 | -1.17 | -39.5 | 32.9 | 2420 | 0 | -1.29 | -34.7 | 29.2 | 2468 | 260 | 1.20 | -29.2 | 29.3 |
| 2339 | 40 | -1.45 | -52.9 | 32.4 | 2421 | 0 | -1.44 | -39.0 | 25.7 | 2469 | 350 | -1.52 | -48.1 | 23.9 |
| 2340 | 60 | -1.40 | -53.3 | 22.1 | 2422 | 180 | -.96 | -36.3 | 23.7 | 2470 | 10 | -1.07 | -31.4 | 19.2 |
| 2341 | 90 | -1.87 | -63.2 | 18.9 | 2423 | 180 | -1.16 | -43.9 | 24.5 | 2471 | 40 | -.76 | -27.8 | 19.1 |
| 2342 | 280 | -1.91 | -47.9 | 20.9 | 2424 | 200 | -1.35 | -45.8 | 23.7 | 2472 | 40 | -.73 | -26.7 | 23.0 |
| 2343 | 30 | -1.03 | -34.8 | 30.1 | 2425 | 20 | -1.33 | -42.1 | 26.5 | 2801 | 0 | -2.03 | -54.8 | 10.4 |
| 2344 | 80 | -1.04 | -36.8 | 13.9 | 2426 | 350 | -1.20 | -37.8 | 28.0 | 2802 | 0 | -1.76 | -47.4 | 10.7 |
| 2345 | 40 | -.87 | -31.7 | 18.9 | 2427 | 350 | -1.64 | -51.8 | 25.7 | 2803 | 300 | -1.42 | -36.6 | 10.3 |
| 2346 | 40 | -1.17 | -42.7 | 34.1 | 2428 | 0 | -1.58 | -42.6 | 24.5 | 2804 | 50 | -1.48 | -55.0 | 9.1 |
| 2347 | 40 | -1.12 | -40.9 | 36.0 | 2429 | 190 | -1.01 | -37.0 | 23.9 | 2805 | 70 | -1.64 | -62.5 | 16.2 |
| 2348 | 40 | -1.06 | -38.5 | 26.0 | 2430 | 180 | -1.29 | -49.1 | 23.7 | 2806 | 170 | -1.16 | -43.2 | 9.2 |
| 2349 | 180 | 1.03 | -36.5 | 39.3 | 2431 | 190 | -1.48 | -53.9 | 22.5 | 2807 | 180 | -.66 | -25.1 | 11.6 |
| 2350 | 70 | -1.13 | -42.8 | 29.3 | 2432 | 20 | -1.54 | -48.5 | 21.5 | 2808 | 170 | -.51 | -19.1 | 15.4 |
| 2351 | 70 | -2.02 | -76.8 | 20.6 | 2433 | 350 | -1.96 | -61.7 | 22.9 | 2901 | 350 | -3.10 | -97.7 | 9.0 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : TWO LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2902 | 330 | -2.33 | -73.6 | 11.6 | 2925 | 50 | -1.47 | -54.9 | 6.9 | 2948 | 240 | -2.42 | -65.3 | 12.2 |
| 2903 | 180 | -1.23 | -46.9 | 40.7 | 2926 | 60 | -1.86 | -70.8 | 3.2 | 2949 | 180 | -3.11 | -118.1 | 1.3 |
| 2904 | 160 | -.95 | -34.7 | 29.4 | 2927 | 170 | -2.17 | -80.8 | 33.1 | 2950 | 30 | -1.72 | -58.1 | 7.3 |
| 2905 | 300 | -1.69 | -43.8 | 21.5 | 2928 | 170 | -.99 | -36.7 | 14.6 | 2951 | 190 | -1.66 | -60.4 | 22.3 |
| 2906 | 300 | -2.40 | -62.1 | 15.3 | 2929 | 290 | -1.66 | -41.5 | 12.7 | 2952 | 50 | -2.07 | -77.0 | 20.9 |
| 2907 | 70 | -1.71 | -65.0 | 11.0 | 2930 | 190 | -.96 | -35.0 | 11.9 | 2953 | 220 | -2.39 | -73.7 | 8.2 |
| 2908 | 40 | 1.14 | -25.7 | 41.7 | 2931 | 180 | -1.14 | -43.5 | 10.8 | 2954 | 180 | -1.40 | -53.4 | 10.9 |
| 2909 | 190 | -.88 | -32.2 | 26.3 | 2932 | 80 | -2.05 | -72.5 | 6.3 | 2955 | 180 | -1.51 | -57.6 | 12.7 |
| 2910 | 230 | -1.84 | -52.4 | 8.3 | 2933 | 190 | -1.43 | -52.0 | 9.2 | 2956 | 30 | -1.44 | -48.5 | 9.5 |
| 2911 | 170 | -1.31 | -48.7 | 9.5 | 2934 | 220 | -2.58 | -79.6 | 2.0 | 2957 | 180 | -1.13 | -43.0 | 27.0 |
| 2912 | 50 | 1.12 | -40.7 | 41.7 | 2935 | 70 | -2.39 | -90.8 | 4.8 | 2958 | 50 | -1.80 | -67.0 | 14.8 |
| 2913 | 190 | -1.30 | -47.5 | 37.8 | 2936 | 190 | -.90 | -32.7 | 23.3 | 2959 | 50 | -1.26 | -46.9 | 26.1 |
| 2914 | 190 | -1.19 | -43.3 | 22.5 | 2937 | 180 | -1.40 | -53.2 | 9.4 | 2960 | 190 | 1.14 | -41.1 | 41.7 |
| 2915 | 180 | -1.08 | -40.9 | 22.2 | 2938 | 190 | -1.32 | -48.1 | 9.8 | 2961 | 40 | -1.23 | -44.7 | 40.5 |
| 2916 | 220 | -1.17 | -35.9 | 15.2 | 2939 | 70 | -1.71 | -65.1 | 6.0 | 2962 | 40 | -.98 | -35.9 | 22.1 |
| 2917 | 340 | -2.45 | -77.3 | 1.6 | 2940 | 180 | -1.48 | -56.4 | 17.3 | 2963 | 280 | -2.86 | -71.8 | 20.0 |
| 2918 | 170 | -1.40 | -52.2 | 6.1 | 2941 | 40 | -.84 | -30.8 | 16.5 | 2964 | 50 | -1.09 | -40.5 | 37.9 |
| 2919 | 70 | .88 | -33.2 | 33.3 | 2942 | 160 | -1.24 | -45.1 | 20.9 | 2965 | 40 | -1.06 | -38.7 | 37.5 |
| 2920 | 190 | -1.58 | -57.5 | 21.5 | 2943 | 130 | -1.08 | -36.5 | 19.9 | 2966 | 190 | 1.02 | -33.8 | 37.1 |
| 2921 | 300 | -1.58 | -40.7 | 13.1 | 2944 | 150 | -.94 | -33.2 | 18.6 | 2967 | 60 | -1.05 | -39.8 | 28.7 |
| 2922 | 150 | -1.13 | -39.9 | 14.8 | 2945 | 190 | -1.10 | -40.1 | 29.9 | 2968 | 40 | -2.07 | -75.5 | 17.8 |
| 2923 | 150 | -.96 | -34.0 | 11.2 | 2946 | 290 | -1.09 | -27.3 | 19.7 | 2969 | 280 | -1.73 | -43.4 | 34.7 |
| 2924 | 280 | -2.75 | -69.1 | 1.6 | 2947 | 100 | -1.04 | -32.8 | 25.3 | 2970 | 70 | -1.42 | -53.9 | 39.7 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : TWO LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

* * 15 GREATEST PRESSURE MAGNITUDES * *

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- |
|---|---|---|---|---|
| 2453 | 190 | -3.25 | -118.6 | 17.8 |
| 2949 | 180 | -3.11 | -118.1 | 1.3 |
| 2205 | 150 | -3.28 | -115.9 | 31.7 |
| 2225 | 190 | -2.79 | -101.8 | 21.4 |
| 2901 | 350 | -3.10 | -97.7 | 9.0 |
| 2306 | 180 | -2.46 | -93.4 | 11.0 |
| 2935 | 70 | -2.39 | -90.8 | 4.8 |
| 2438 | 190 | -2.31 | -84.3 | 19.2 |
| 2927 | 170 | -2.17 | -80.8 | 33.1 |
| 2934 | 220 | -2.58 | -79.6 | 2.0 |
| 2411 | 210 | -2.46 | -79.5 | 20.4 |
| 2221 | 170 | -2.11 | -78.5 | 27.5 |
| 2310 | 70 | -2.05 | -78.1 | 17.8 |
| 2917 | 340 | -2.45 | -77.3 | 1.6 |
| 2439 | 200 | -2.28 | -77.2 | 19.1 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3101 | 70 | -1.81 | -69.0 | 23.3 | 3149 | 330 | -1.53 | -48.4 | 33.0 | 3227 | 130 | -1.43 | -48.4 | 41.8 |
| 3102 | 70 | -1.57 | -59.6 | 17.2 | 3150 | 80 | -1.41 | -49.8 | 26.8 | 3228 | 140 | -1.32 | -48.1 | 41.1 |
| 3103 | 80 | -1.45 | -51.2 | 16.9 | 3151 | 80 | -1.42 | -50.3 | 28.2 | 3229 | 40 | 1.05 | -38.3 | 38.3 |
| 3104 | 80 | -1.06 | -37.4 | 18.3 | 3152 | 80 | -1.40 | -49.5 | 26.1 | 3230 | 140 | -1.17 | -42.5 | 40.2 |
| 3105 | 290 | -2.09 | -52.4 | 21.5 | 3153 | 80 | -1.45 | -51.1 | 24.9 | 3231 | 120 | -1.39 | -46.0 | 34.6 |
| 3106 | 80 | -1.93 | -68.3 | 26.8 | 3154 | 290 | -1.81 | -45.3 | 29.5 | 3232 | 130 | -1.45 | -49.0 | 35.9 |
| 3107 | 80 | -1.86 | -65.8 | 25.8 | 3155 | 290 | -2.11 | -52.9 | 29.0 | 3233 | 130 | -1.61 | -54.5 | 40.5 |
| 3108 | 80 | -1.21 | -42.7 | 27.9 | 3156 | 30 | -1.64 | -55.6 | 29.7 | 3234 | 60 | 1.19 | -43.2 | 45.4 |
| 3109 | 290 | -2.16 | -54.1 | 28.1 | 3157 | 330 | -1.29 | -40.7 | 34.6 | 3235 | 140 | -1.19 | -43.5 | 38.5 |
| 3110 | 290 | -2.00 | -50.3 | 27.9 | 3158 | 80 | -2.51 | -88.7 | 32.7 | 3236 | 330 | -1.38 | -43.5 | 34.7 |
| 3111 | 80 | -1.31 | -46.5 | 25.7 | 3159 | 80 | -1.73 | -61.0 | 33.7 | 3237 | 120 | -1.53 | -50.5 | 36.3 |
| 3112 | 80 | -1.09 | -38.4 | 31.4 | 3160 | 80 | -1.16 | -41.1 | 37.3 | 3238 | 120 | -1.43 | -47.2 | 35.5 |
| 3113 | 90 | -1.75 | -59.3 | 32.4 | 3161 | 80 | -1.16 | -40.9 | 35.0 | 3239 | 130 | -1.49 | -50.3 | 41.2 |
| 3114 | 80 | -1.56 | -55.1 | 30.5 | 3162 | 290 | -1.71 | -43.0 | 39.0 | 3240 | 140 | -1.47 | -53.6 | 43.4 |
| 3115 | 290 | -2.20 | -55.2 | 28.2 | 3163 | 290 | -2.00 | -50.2 | 36.7 | 3241 | 140 | -1.31 | -47.7 | 38.5 |
| 3116 | 300 | -1.56 | -40.3 | 34.3 | 3164 | 40 | -2.28 | -83.3 | 30.1 | 3242 | 320 | -1.70 | -44.0 | 40.3 |
| 3117 | 80 | -1.44 | -50.9 | 32.3 | 3165 | 80 | -1.52 | -53.6 | 33.6 | 3243 | 140 | -1.37 | -50.1 | 45.1 |
| 3118 | 70 | -1.41 | -53.5 | 38.8 | 3166 | 80 | -1.19 | -42.2 | 25.9 | 3244 | 140 | -1.23 | -45.0 | 37.6 |
| 3119 | 80 | -1.23 | -43.3 | 32.8 | 3167 | 340 | -1.51 | -47.7 | 32.0 | 3245 | 40 | 1.06 | -35.9 | 38.6 |
| 3120 | 220 | -1.43 | -44.1 | 32.7 | 3168 | 340 | -1.50 | -47.4 | 15.2 | 3246 | 130 | -1.46 | -49.3 | 34.5 |
| 3121 | 330 | -1.47 | -46.5 | 34.6 | 3169 | 220 | -1.60 | -49.3 | 30.5 | 3247 | 130 | -1.65 | -55.8 | 30.6 |
| 3122 | 70 | -1.35 | -51.2 | 31.2 | 3170 | 30 | -2.10 | -70.9 | 14.2 | 3248 | 130 | -2.54 | -85.8 | 39.2 |
| 3123 | 290 | -3.03 | -75.9 | 33.2 | 3201 | 70 | -1.76 | -67.0 | 25.3 | 3249 | 130 | -2.41 | -81.4 | 38.3 |
| 3124 | 30 | -1.96 | -66.2 | 34.5 | 3202 | 70 | -1.55 | -59.0 | 11.2 | 3250 | 50 | .99 | -36.4 | 36.8 |
| 3125 | 150 | -1.20 | -42.5 | 34.7 | 3203 | 70 | -1.80 | -68.5 | 10.7 | 3251 | 220 | -1.82 | -56.1 | 40.0 |
| 3126 | 70 | -1.18 | -44.9 | 31.7 | 3204 | 70 | -1.66 | -63.0 | 5.7 | 3252 | 220 | -1.35 | -41.6 | 38.5 |
| 3127 | 80 | -1.57 | -55.4 | 34.5 | 3205 | 130 | -1.21 | -40.9 | 24.8 | 3253 | 310 | -1.76 | -45.5 | 32.9 |
| 3128 | 80 | -1.27 | -44.9 | 35.4 | 3206 | 240 | -1.54 | -41.5 | 25.1 | 3254 | 310 | -2.32 | -60.0 | 31.5 |
| 3129 | 80 | -1.27 | -44.9 | 33.5 | 3207 | 140 | -1.59 | -58.0 | 15.3 | 3255 | 140 | -1.43 | -52.2 | 35.6 |
| 3130 | 290 | -1.69 | -42.3 | 35.1 | 3208 | 140 | -1.37 | -50.0 | 12.9 | 3256 | 140 | -1.42 | -51.7 | 36.9 |
| 3131 | 290 | -1.61 | -40.5 | 36.2 | 3209 | 160 | -1.51 | -55.2 | 17.2 | 3257 | 140 | -1.01 | -36.9 | 35.7 |
| 3132 | 20 | -2.40 | -75.7 | 34.8 | 3210 | 160 | -2.14 | -78.2 | 18.1 | 3258 | 50 | 1.00 | -32.2 | 37.2 |
| 3133 | 140 | -1.10 | -40.3 | 34.5 | 3211 | 330 | -1.69 | -53.4 | 20.0 | 3259 | 40 | -1.70 | -62.2 | 32.7 |
| 3134 | 80 | -1.31 | -46.4 | 32.6 | 3212 | 130 | -1.14 | -38.6 | 34.3 | 3260 | 140 | -1.50 | -54.7 | 32.4 |
| 3135 | 70 | -1.17 | -44.5 | 33.2 | 3213 | 130 | -1.29 | -43.6 | 34.6 | 3261 | 130 | -1.87 | -63.2 | 33.7 |
| 3136 | 80 | -1.23 | -43.5 | 33.8 | 3214 | 140 | -1.23 | -44.8 | 32.6 | 3262 | 140 | -1.68 | -61.2 | 39.2 |
| 3137 | 80 | -1.30 | -45.9 | 33.0 | 3215 | 140 | -1.26 | -45.9 | 29.1 | 3263 | 130 | -2.16 | -72.9 | 40.5 |
| 3138 | 290 | -1.47 | -36.8 | 34.6 | 3216 | 150 | -1.42 | -50.0 | 28.6 | 3264 | 50 | 1.05 | -33.0 | 39.0 |
| 3139 | 90 | -1.21 | -41.0 | 37.4 | 3217 | 150 | -1.43 | -50.4 | 30.6 | 3265 | 60 | 1.17 | -30.2 | 44.4 |
| 3140 | 230 | -2.01 | -57.3 | 35.4 | 3218 | 330 | -1.49 | -47.0 | 29.6 | 3266 | 60 | 1.02 | -38.6 | 38.7 |
| 3141 | 150 | -1.18 | -41.6 | 35.4 | 3219 | 130 | -1.14 | -38.5 | 35.7 | 3301 | 60 | -1.72 | -65.2 | 14.4 |
| 3142 | 80 | -1.25 | -44.2 | 31.2 | 3220 | 130 | -1.32 | -44.8 | 36.4 | 3302 | 190 | -1.49 | -54.3 | 32.1 |
| 3143 | 80 | -1.48 | -52.4 | 33.7 | 3221 | 140 | -1.27 | -46.4 | 40.1 | 3303 | 60 | -1.63 | -61.9 | 22.5 |
| 3144 | 70 | -1.09 | -41.3 | 32.4 | 3222 | 140 | -1.28 | -46.6 | 37.5 | 3304 | 50 | -1.48 | -55.2 | 19.7 |
| 3145 | 80 | -1.31 | -46.4 | 29.3 | 3223 | 140 | -1.13 | -41.2 | 37.0 | 3305 | 60 | -1.73 | -65.8 | 20.3 |
| 3146 | 300 | -2.04 | -52.8 | 32.7 | 3224 | 340 | -1.23 | -39.0 | 37.4 | 3306 | 70 | -2.09 | -79.6 | 23.9 |
| 3147 | 90 | -1.27 | -43.1 | 33.6 | 3225 | 130 | -1.19 | -40.2 | 39.2 | 3307 | 70 | -2.75 | -104.6 | 26.5 |
| 3148 | 230 | -1.96 | -55.8 | 32.0 | 3226 | 120 | -1.36 | -44.8 | 36.3 | 3308 | 210 | -2.19 | -70.7 | 32.5 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3309 | 50 | -1.36 | -50.6 | 35.6 | 3421 | 160 | -1.36 | -49.7 | 39.1 | 3505 | 310 | -2.12 | -54.7 | 19.4 |
| 3310 | 60 | -1.42 | -53.8 | 31.8 | 3422 | 60 | -1.49 | -56.7 | 39.6 | 3506 | 60 | -1.27 | -48.1 | 18.7 |
| 3311 | 70 | -2.19 | -83.1 | 28.0 | 3423 | 60 | -1.82 | -69.0 | 39.1 | 3507 | 130 | -1.26 | -42.6 | 15.5 |
| 3312 | 70 | -3.08 | -117.2 | 31.5 | 3424 | 60 | -1.79 | -68.0 | 40.0 | 3508 | 70 | -1.90 | -72.2 | 15.6 |
| 3313 | 70 | -1.81 | -68.7 | 39.1 | 3425 | 60 | -1.14 | -43.3 | 37.3 | 3509 | 70 | -1.61 | -61.0 | 13.0 |
| 3314 | 70 | -2.01 | -76.2 | 37.5 | 3426 | 60 | -1.40 | -53.3 | 44.3 | 3510 | 330 | -1.97 | -62.1 | 17.8 |
| 3315 | 70 | -1.83 | -69.6 | 36.3 | 3427 | 60 | -1.41 | -53.4 | 40.8 | 3511 | 140 | -1.60 | -58.3 | 19.2 |
| 3316 | 70 | -1.83 | -69.5 | 36.3 | 3428 | 60 | -1.43 | -54.3 | 41.5 | 3512 | 300 | -2.67 | -69.1 | 24.8 |
| 3317 | 60 | -1.87 | -71.2 | 39.3 | 3429 | 60 | -1.31 | -49.9 | 40.1 | 3513 | 310 | -2.78 | -71.9 | 25.3 |
| 3318 | 70 | -1.95 | -74.2 | 37.1 | 3430 | 60 | -1.25 | -47.7 | 42.8 | 3514 | 40 | -1.13 | -41.4 | 25.2 |
| 3319 | 70 | -1.66 | -63.2 | 34.3 | 3431 | 60 | -1.19 | -45.1 | 39.2 | 3515 | 80 | -1.37 | -48.3 | 26.6 |
| 3320 | 70 | -1.72 | -65.4 | 32.4 | 3432 | 210 | -2.03 | -65.5 | 38.2 | 3516 | 70 | -1.55 | -58.9 | 25.6 |
| 3321 | 60 | -1.81 | -68.8 | 40.9 | 3433 | 60 | -1.05 | -39.8 | 39.2 | 3517 | 150 | -1.46 | -51.5 | 31.5 |
| 3322 | 70 | -1.80 | -68.3 | 35.6 | 3434 | 60 | -1.25 | -47.6 | 42.8 | 3518 | 60 | -1.39 | -52.8 | 31.2 |
| 3323 | 70 | -1.78 | -67.5 | 33.1 | 3435 | 60 | -1.20 | -45.7 | 39.6 | 3519 | 310 | -1.52 | -39.3 | 27.3 |
| 3324 | 60 | -1.77 | -67.2 | 31.5 | 3436 | 60 | -1.38 | -52.4 | 40.4 | 3520 | 320 | -1.78 | -46.0 | 29.2 |
| 3325 | 70 | -1.77 | -67.1 | 38.7 | 3437 | 60 | -1.41 | -53.7 | 41.2 | 3521 | 300 | -1.76 | -45.5 | 25.7 |
| 3326 | 60 | -1.99 | -75.6 | 36.0 | 3438 | 60 | -1.31 | -49.6 | 40.3 | 3522 | 310 | -1.41 | -36.5 | 24.4 |
| 3327 | 60 | -1.65 | -62.8 | 32.4 | 3439 | 60 | -1.41 | -53.7 | 40.3 | 3523 | 310 | -1.30 | -33.5 | 28.5 |
| 3328 | 60 | -2.03 | -77.1 | 32.3 | 3440 | 60 | -1.88 | -71.3 | 38.4 | 3524 | 320 | -1.35 | -35.0 | 32.5 |
| 3329 | 60 | -2.15 | -81.5 | 36.1 | 3441 | 150 | -1.33 | -47.1 | 37.7 | 3525 | 140 | -1.07 | -39.2 | 34.4 |
| 3330 | 70 | -2.40 | -91.1 | 31.1 | 3442 | 60 | -1.07 | -40.5 | 36.2 | 3526 | 140 | -1.15 | -42.0 | 38.1 |
| 3331 | 70 | -2.13 | -81.0 | 30.9 | 3443 | 60 | -1.14 | -43.5 | 42.8 | 3527 | 300 | -1.57 | -40.6 | 25.7 |
| 3332 | 70 | -1.73 | -65.9 | 29.8 | 3444 | 70 | -1.17 | -44.4 | 38.8 | 3528 | 310 | -2.14 | -55.2 | 27.0 |
| 3333 | 210 | -1.48 | -47.9 | 39.6 | 3445 | 70 | -1.27 | -48.1 | 41.7 | 3529 | 310 | -1.68 | -43.5 | 33.9 |
| 3334 | 70 | -2.69 | -102.4 | 32.7 | 3446 | 60 | -1.35 | -51.2 | 38.5 | 3530 | 140 | -.98 | -35.8 | 34.1 |
| 3335 | 70 | -2.47 | -94.0 | 30.1 | 3447 | 70 | -1.13 | -42.9 | 39.3 | 3531 | 140 | -1.09 | -39.9 | 33.3 |
| 3336 | 60 | -2.00 | -75.9 | 27.9 | 3448 | 60 | -1.86 | -70.5 | 38.0 | 3532 | 60 | -.99 | -37.7 | 36.7 |
| 3401 | 60 | -1.24 | -47.1 | 21.8 | 3449 | 140 | -1.37 | -50.0 | 36.4 | 3533 | 300 | -2.04 | -52.7 | 25.6 |
| 3402 | 60 | -1.20 | -45.4 | 20.8 | 3450 | 60 | -.98 | -37.1 | 35.5 | 3534 | 310 | -1.98 | -51.2 | 25.5 |
| 3403 | 60 | -1.65 | -62.9 | 20.1 | 3451 | 310 | -1.60 | -41.3 | 36.0 | 3535 | 310 | -1.44 | -37.1 | 31.2 |
| 3404 | 60 | -1.53 | -58.1 | 22.3 | 3452 | 60 | -1.12 | -42.7 | 36.6 | 3536 | 340 | -1.24 | -39.2 | 31.8 |
| 3405 | 70 | -1.54 | -58.6 | 22.7 | 3453 | 60 | -1.14 | -43.3 | 36.8 | 3537 | 140 | -1.07 | -39.2 | 35.7 |
| 3406 | 60 | -1.33 | -50.5 | 32.1 | 3454 | 60 | -1.47 | -56.0 | 38.7 | 3538 | 150 | -1.10 | -38.8 | 35.1 |
| 3407 | 60 | -1.31 | -49.7 | 35.0 | 3455 | 60 | -1.34 | -50.8 | 38.7 | 3539 | 300 | -1.96 | -50.6 | 26.2 |
| 3408 | 60 | -1.51 | -57.4 | 31.1 | 3456 | 70 | -1.68 | -63.8 | 34.7 | 3540 | 300 | -1.85 | -47.8 | 24.4 |
| 3409 | 60 | -1.95 | -74.2 | 33.4 | 3457 | 130 | -1.46 | -49.3 | 30.2 | 3541 | 320 | -1.67 | -43.1 | 33.6 |
| 3410 | 60 | -1.65 | -62.6 | 33.3 | 3458 | 250 | -1.60 | -49.1 | 36.2 | 3542 | 320 | -1.45 | -37.5 | 33.3 |
| 3411 | 60 | -1.26 | -47.8 | 33.7 | 3459 | 310 | -1.88 | -48.5 | 38.1 | 3543 | 140 | -1.20 | -43.9 | 38.6 |
| 3412 | 60 | -1.41 | -53.6 | 34.0 | 3460 | 100 | -1.29 | -40.6 | 34.7 | 3544 | 140 | -1.30 | -47.4 | 34.5 |
| 3413 | 70 | -1.27 | -48.2 | 37.2 | 3461 | 100 | -1.59 | -50.1 | 36.6 | 3545 | 50 | -1.04 | -38.8 | 31.6 |
| 3414 | 60 | -1.62 | -61.5 | 37.5 | 3462 | 60 | -1.60 | -60.8 | 37.3 | 3546 | 60 | -.98 | -37.2 | 32.4 |
| 3415 | 60 | -1.44 | -54.5 | 35.3 | 3463 | 60 | -1.57 | -59.6 | 38.2 | 3547 | 140 | -1.10 | -40.2 | 37.0 |
| 3416 | 60 | -1.54 | -58.4 | 40.3 | 3464 | 210 | -1.87 | -60.5 | 36.6 | 3548 | 310 | -2.89 | -74.7 | 22.4 |
| 3417 | 60 | -1.80 | -68.5 | 39.2 | 3501 | 60 | -1.42 | -53.9 | 14.6 | 3549 | 320 | -1.89 | -49.0 | 24.5 |
| 3418 | 70 | -1.10 | -42.0 | 40.7 | 3502 | 180 | -1.30 | -49.4 | 7.5 | 3550 | 310 | -1.99 | -51.4 | 29.7 |
| 3419 | 60 | -1.55 | -58.7 | 37.7 | 3503 | 190 | -1.27 | -46.5 | 7.3 | 3551 | 340 | -1.25 | -39.3 | 29.0 |
| 3420 | 70 | -1.55 | -58.8 | 37.5 | 3504 | 90 | -2.03 | -68.5 | 3.7 | 3552 | 140 | -1.23 | -44.9 | 32.3 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK (PSF) | POSITIVE PEAK (PSF) | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK (PSF) | POSITIVE PEAK (PSF) | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK (PSF) | POSITIVE PEAK (PSF) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3553 | 50 | -.90 | -33.4 | 30.9 | 3641 | 220 | -1.77 | -54.5 | 33.9 | 3689 | 50 | -.92 | -34.1 | 27.9 |
| 3554 | 50 | -.88 | -32.9 | 30.2 | 3642 | 230 | -1.90 | -54.2 | 30.9 | 3690 | 60 | -1.01 | -38.4 | 27.7 |
| 3555 | 40 | -1.02 | -37.2 | 33.5 | 3643 | 240 | -2.46 | -66.4 | 23.1 | 3691 | 60 | -1.24 | -47.0 | 24.3 |
| 3556 | 320 | -1.97 | -50.8 | 22.1 | 3644 | 290 | -2.12 | -53.1 | 21.4 | 3692 | 60 | -1.18 | -45.0 | 24.4 |
| 3557 | 330 | -1.79 | -56.3 | 23.6 | 3645 | 180 | -1.45 | -55.1 | 26.4 | 3693 | 60 | -1.35 | -51.5 | 25.5 |
| 3558 | 310 | -1.78 | -46.0 | 27.7 | 3646 | 350 | -2.02 | -63.8 | 33.4 | 3694 | 60 | -1.70 | -64.4 | 23.8 |
| 3559 | 330 | -1.17 | -37.0 | 31.3 | 3647 | 180 | -1.45 | -55.1 | 28.3 | 3695 | 60 | -1.89 | -71.9 | 26.2 |
| 3560 | 140 | -1.17 | -42.7 | 37.8 | 3648 | 30 | -1.16 | -39.1 | 30.7 | 3696 | 60 | -1.63 | -62.0 | 28.6 |
| 3601 | 60 | -1.64 | -62.2 | 12.6 | 3649 | 340 | -1.77 | -55.9 | 32.1 | 3697 | 60 | -2.23 | -84.9 | 25.1 |
| 3602 | 60 | -1.72 | -65.5 | 19.8 | 3650 | 340 | -2.61 | -82.4 | 33.4 | 3698 | 40 | -1.33 | -48.7 | 23.7 |
| 3603 | 40 | -1.64 | -59.8 | 21.0 | 3651 | 180 | -1.02 | -38.6 | 21.6 | 3699 | 50 | -1.72 | -64.1 | 21.5 |
| 3604 | 40 | -1.26 | -46.1 | 20.7 | 3652 | 180 | -1.22 | -46.3 | 28.6 | 3700 | 60 | -1.56 | -59.2 | 19.4 |
| 3605 | 240 | -1.77 | -47.9 | 19.6 | 3653 | 190 | -1.00 | -36.6 | 29.5 | 3701 | 160 | -1.33 | -48.6 | 16.4 |
| 3606 | 70 | -1.50 | -57.2 | 28.0 | 3654 | 80 | .83 | -28.8 | 23.5 | 3702 | 300 | -1.42 | -36.7 | 22.5 |
| 3607 | 240 | -1.98 | -53.3 | 21.3 | 3655 | 350 | -1.26 | -39.7 | 29.1 | 3703 | 50 | -.79 | -29.3 | 25.2 |
| 3608 | 40 | -1.83 | -66.7 | 30.8 | 3656 | 210 | -1.37 | -44.3 | 35.8 | 3704 | 50 | -.98 | -36.3 | 26.1 |
| 3609 | 80 | -1.58 | -56.0 | 28.6 | 3657 | 180 | -.84 | -32.0 | 26.3 | 3705 | 40 | -.95 | -34.7 | 34.2 |
| 3610 | 50 | -1.24 | -46.2 | 30.0 | 3658 | 180 | -.87 | -33.1 | 24.3 | 3706 | 190 | .90 | -31.9 | 32.8 |
| 3611 | 230 | -2.08 | -59.2 | 28.6 | 3659 | 90 | .85 | -25.1 | 26.8 | 3707 | 180 | .93 | -27.7 | 35.4 |
| 3612 | 250 | -2.35 | -59.0 | 27.9 | 3660 | 70 | .82 | -26.0 | 31.0 | 3708 | 170 | .84 | -30.3 | 31.2 |
| 3613 | 40 | -1.26 | -45.9 | 31.6 | 3661 | 350 | -1.16 | -36.6 | 32.1 | 3709 | 50 | -.94 | -35.0 | 31.9 |
| 3614 | 230 | -1.67 | -47.7 | 29.6 | 3662 | 220 | -1.53 | -47.2 | 31.4 | 3710 | 40 | -1.03 | -37.5 | 31.0 |
| 3615 | 80 | -1.52 | -53.8 | 28.2 | 3663 | 170 | -1.68 | -62.4 | 25.0 | 3711 | 50 | -1.12 | -41.7 | 27.1 |
| 3616 | 60 | -1.35 | -51.2 | 29.8 | 3664 | 280 | -2.11 | -52.9 | 33.1 | 3712 | 60 | -1.40 | -53.0 | 26.8 |
| 3617 | 30 | -1.46 | -49.4 | 31.1 | 3665 | 280 | -1.75 | -43.8 | 27.1 | 3713 | 60 | -1.92 | -73.0 | 21.9 |
| 3618 | 230 | -1.93 | -55.1 | 28.8 | 3666 | 250 | -2.01 | -50.4 | 34.1 | 3714 | 60 | -1.81 | -68.9 | 24.5 |
| 3619 | 60 | -1.45 | -55.2 | 27.3 | 3667 | 150 | .87 | -31.3 | 31.8 | 3715 | 60 | -1.78 | -67.6 | 23.0 |
| 3620 | 70 | -1.75 | -66.4 | 28.7 | 3668 | 170 | .99 | -32.8 | 36.9 | 3716 | 340 | -1.99 | -62.8 | 17.0 |
| 3621 | 90 | -1.60 | -54.1 | 33.0 | 3669 | 260 | -1.40 | -34.0 | 33.5 | 3717 | 180 | -1.39 | -52.6 | 24.9 |
| 3622 | 230 | -2.19 | -62.4 | 27.5 | 3670 | 170 | .92 | -32.8 | 34.2 | 3718 | 340 | -2.41 | -76.0 | 19.9 |
| 3623 | 230 | -2.13 | -60.7 | 21.4 | 3671 | 60 | -1.07 | -40.7 | 31.4 | 3719 | 50 | -1.48 | -55.1 | 24.3 |
| 3624 | 80 | -1.91 | -67.4 | 26.4 | 3672 | 90 | -1.39 | -47.1 | 31.9 | 3720 | 50 | -1.04 | -38.9 | 17.6 |
| 3625 | 90 | -1.64 | -55.6 | 28.4 | 3673 | 100 | -2.30 | -72.6 | 29.5 | 3721 | 190 | -1.55 | -56.6 | 21.2 |
| 3626 | 220 | -1.86 | -57.2 | 27.8 | 3674 | 90 | -1.32 | -44.6 | 33.4 | 3722 | 180 | -1.97 | -75.0 | 22.4 |
| 3627 | 70 | -1.37 | -52.1 | 24.2 | 3675 | 100 | -1.52 | -48.1 | 35.2 | 3723 | 60 | -.90 | -34.1 | 22.6 |
| 3628 | 230 | -2.51 | -71.4 | 22.8 | 3676 | 40 | -1.28 | -46.7 | 36.5 | 3724 | 50 | -1.00 | -37.2 | 24.5 |
| 3629 | 40 | -1.26 | -45.8 | 27.1 | 3677 | 40 | -1.65 | -60.4 | 32.0 | 3725 | 40 | -1.30 | -47.3 | 13.3 |
| 3630 | 330 | -1.49 | -46.9 | 24.5 | 3678 | 60 | -1.53 | -58.0 | 31.4 | 3726 | 50 | -1.23 | -48.2 | 13.2 |
| 3631 | 220 | -1.63 | -50.3 | 24.7 | 3679 | 70 | -2.17 | -82.6 | 32.2 | 3727 | 40 | -1.17 | -42.7 | 17.9 |
| 3632 | 230 | -2.36 | -67.3 | 24.3 | 3680 | 70 | -2.87 | -108.9 | 28.8 | 3728 | 80 | -1.35 | -47.8 | 18.4 |
| 3633 | 220 | -3.38 | -104.2 | 23.8 | 3681 | 70 | -3.74 | -142.1 | 32.9 | 3729 | 40 | -.99 | -36.1 | 20.6 |
| 3634 | 230 | -2.58 | -73.5 | 24.3 | 3682 | 60 | -2.74 | -104.0 | 28.9 | 3730 | 70 | -.87 | -32.9 | 21.5 |
| 3635 | 40 | -1.91 | -69.6 | 22.3 | 3683 | 290 | -2.21 | -55.4 | 19.1 | 3731 | 50 | -.96 | -35.6 | 19.7 |
| 3636 | 30 | -1.83 | -62.6 | 19.8 | 3684 | 40 | -.86 | -31.3 | 20.5 | 3732 | 50 | -1.23 | -46.0 | 17.7 |
| 3637 | 40 | -1.43 | -52.3 | 12.9 | 3685 | 290 | -1.21 | -30.3 | 18.2 | 3733 | 170 | -.99 | -36.7 | 14.8 |
| 3638 | 40 | -1.26 | -46.0 | 22.5 | 3686 | 50 | -.93 | -34.5 | 22.1 | 3734 | 170 | -.99 | -37.0 | 17.2 |
| 3639 | 40 | -1.46 | -53.2 | 28.3 | 3687 | 50 | -.77 | -28.8 | 24.8 | 3735 | 20 | -1.42 | -44.7 | 13.0 |
| 3640 | 40 | -1.16 | -42.3 | 32.8 | 3688 | 50 | -.89 | -33.0 | 24.1 | 3736 | 30 | -1.54 | -52.2 | 14.8 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3737 | 40 | -1.11 | -40.6 | 21.9 | 3783 | 350 | .96 | -22.3 | 30.3 | 3931 | 60 | -1.62 | -61.7 | 19.3 |
| 3738 | 80 | -1.41 | -49.7 | 19.5 | 3784 | 30 | .87 | -22.5 | 29.6 | 3932 | 60 | -1.23 | -46.7 | 19.2 |
| 3739 | 50 | -.83 | -31.1 | 20.9 | 3785 | 210 | -.99 | -32.1 | 25.9 | 3933 | 50 | -1.17 | -43.4 | 11.9 |
| 3740 | 60 | -.85 | -32.3 | 23.2 | 3786 | 190 | -.99 | -36.0 | 33.7 | 3934 | 170 | -1.11 | -41.5 | 16.0 |
| 3741 | 70 | -.80 | -30.5 | 20.3 | 3787 | 220 | -.98 | -30.1 | 20.3 | 3935 | 60 | -1.46 | -55.3 | 10.6 |
| 3742 | 70 | -.80 | -30.5 | 20.5 | 3788 | 180 | -.98 | -37.3 | 20.1 | 3936 | 60 | -1.40 | -53.0 | 35.1 |
| 3743 | 160 | -1.27 | -46.3 | 20.0 | 3789 | 220 | -1.14 | -35.0 | 23.1 | 3937 | 60 | -1.67 | -63.4 | 31.4 |
| 3744 | 160 | -.98 | -35.9 | 18.3 | 3790 | 180 | -.70 | -26.6 | 17.8 | 3938 | 90 | -1.76 | -59.7 | 12.1 |
| 3745 | 170 | -.94 | -35.0 | 17.7 | 3791 | 330 | -1.35 | -42.5 | 18.5 | 3939 | 60 | -1.22 | -46.5 | 8.7 |
| 3746 | 350 | -2.46 | -77.6 | 33.0 | 3792 | 210 | -.81 | -26.3 | 15.8 | 3940 | 60 | -1.08 | -40.9 | 15.1 |
| 3747 | 110 | -1.01 | -32.6 | 31.6 | 3793 | 210 | -1.16 | -37.5 | 11.8 | 3941 | 140 | -1.50 | -54.6 | 8.8 |
| 3748 | 30 | .96 | -31.5 | 32.5 | 3794 | 280 | -1.77 | -44.3 | 17.2 | 3942 | 50 | -1.52 | -56.5 | 38.7 |
| 3749 | 170 | -.82 | -30.4 | 28.8 | 3795 | 50 | -1.45 | -54.1 | 7.6 | 3943 | 50 | -1.31 | -48.9 | 15.3 |
| 3750 | 170 | -1.10 | -40.9 | 29.8 | 3801 | 280 | -1.28 | -32.2 | 16.2 | 3944 | 40 | -1.49 | -54.3 | 27.2 |
| 3751 | 70 | -1.67 | -63.5 | 27.1 | 3802 | 190 | -1.15 | -41.9 | 19.5 | 3945 | 40 | -1.74 | -63.3 | 30.0 |
| 3752 | 70 | -1.44 | -54.8 | 27.2 | 3803 | 50 | -.84 | -31.1 | 20.7 | 3946 | 310 | -2.30 | -59.5 | 39.0 |
| 3753 | 90 | -1.13 | -38.3 | 19.5 | 3901 | 210 | -1.37 | -44.4 | 25.2 | 3947 | 210 | -1.47 | -47.6 | 32.1 |
| 3754 | 210 | -1.34 | -43.3 | 15.3 | 3902 | 330 | -1.40 | -44.1 | 24.1 | 3948 | 220 | -1.36 | -41.8 | 26.9 |
| 3755 | 210 | -1.33 | -43.0 | 23.8 | 3903 | 330 | -1.54 | -48.6 | 23.5 | 3949 | 280 | -1.42 | -35.6 | 23.0 |
| 3756 | 50 | -1.88 | -69.9 | 19.7 | 3904 | 70 | -1.63 | -62.0 | 25.6 | 3950 | 220 | -1.89 | -58.2 | 19.9 |
| 3757 | 200 | -1.41 | -47.6 | 26.0 | 3905 | 290 | -1.74 | -43.8 | 29.4 | 3951 | 230 | -1.33 | -37.8 | 29.0 |
| 3758 | 90 | -1.28 | -43.2 | 21.1 | 3906 | 80 | -1.36 | -47.9 | 35.5 | 3952 | 220 | -2.31 | -71.1 | 33.3 |
| 3759 | 190 | -.83 | -30.3 | 27.6 | 3907 | 80 | -1.82 | -64.4 | 30.5 | 3953 | 30 | -1.42 | -48.1 | 30.7 |
| 3760 | 220 | -1.07 | -33.0 | 20.5 | 3908 | 290 | -1.97 | -49.3 | 26.4 | 3954 | 40 | 1.08 | -31.6 | 39.3 |
| 3761 | 220 | -.94 | -28.8 | 22.4 | 3909 | 80 | -1.11 | -39.2 | 33.9 | 3955 | 230 | -1.08 | -30.7 | 18.5 |
| 3762 | 200 | -1.23 | -42.2 | 19.6 | 3910 | 80 | -2.31 | -81.6 | 31.4 | 3956 | 230 | -2.18 | -62.1 | 38.3 |
| 3763 | 210 | -.98 | -31.7 | 25.0 | 3911 | 270 | -2.30 | -57.6 | 29.2 | 3957 | 290 | -1.39 | -35.0 | 23.5 |
| 3764 | 220 | -1.21 | -37.2 | 24.6 | 3912 | 80 | -1.18 | -41.6 | 31.9 | 3958 | 140 | -1.96 | -71.5 | 45.0 |
| 3765 | 350 | -1.87 | -58.9 | 26.8 | 3913 | 80 | -1.63 | -57.5 | 31.1 | 3959 | 60 | -.83 | -31.4 | 26.0 |
| 3766 | 60 | .74 | -22.9 | 28.1 | 3914 | 230 | -2.24 | -63.9 | 34.4 | 3960 | 250 | -1.01 | -25.4 | 17.1 |
| 3767 | 120 | -.79 | -26.1 | 25.4 | 3915 | 80 | -1.41 | -49.7 | 39.4 | 3961 | 50 | -.84 | -31.1 | 28.0 |
| 3768 | 20 | .86 | -25.5 | 27.2 | 3916 | 80 | -1.95 | -68.8 | 36.5 | 3962 | 40 | -.88 | -32.3 | 27.4 |
| 3769 | 40 | .75 | -21.7 | 27.5 | 3917 | 30 | -1.57 | -53.3 | 31.7 | 3963 | 310 | -1.32 | -34.0 | 32.5 |
| 3770 | 190 | -.97 | -35.5 | 23.1 | 3918 | 80 | -1.09 | -38.5 | 27.0 | 3964 | 70 | -.93 | -35.2 | 31.2 |
| 3771 | 210 | -1.09 | -35.1 | 25.2 | 3919 | 80 | -1.75 | -61.9 | 25.1 | 3965 | 260 | -1.18 | -28.8 | 18.9 |
| 3772 | 190 | -.88 | -32.2 | 20.9 | 3920 | 60 | -1.56 | -59.3 | 28.6 | 3966 | 50 | -.99 | -36.9 | 25.8 |
| 3773 | 210 | -1.13 | -36.4 | 11.9 | 3921 | 60 | -1.28 | -48.7 | 10.8 | 3967 | 100 | -1.40 | -44.1 | 26.0 |
| 3774 | 210 | -1.09 | -35.1 | 20.2 | 3922 | 90 | -1.88 | -63.7 | 8.6 | 3968 | 140 | -1.07 | -39.1 | 27.2 |
| 3775 | 40 | -1.52 | -55.5 | 13.8 | 3923 | 70 | -1.55 | -58.8 | 17.0 | 3969 | 40 | -1.09 | -39.6 | 33.6 |
| 3776 | 210 | -1.02 | -33.0 | 21.8 | 3924 | 70 | -1.22 | -46.5 | 7.1 | 3970 | 140 | -1.17 | -42.8 | 33.4 |
| 3777 | 20 | .75 | -23.4 | 23.8 | 3925 | 80 | -1.66 | -58.7 | 17.3 | 3971 | 70 | -1.41 | -53.4 | 39.0 |
| 3778 | 220 | -1.07 | -33.0 | 23.3 | 3926 | 70 | -1.44 | -54.9 | 2.0 | 3972 | 200 | -2.10 | -70.9 | 35.4 |
| 3779 | 210 | -1.05 | -34.0 | 16.5 | 3927 | 60 | -1.49 | -56.5 | 2.8 | 3973 | 190 | -1.35 | -49.3 | 24.9 |
| 3780 | 350 | -1.86 | -58.7 | 23.3 | 3928 | 70 | -1.83 | -69.5 | 7.2 | 3974 | 230 | -1.13 | -32.3 | 20.4 |
| 3781 | 210 | -1.00 | -32.5 | 23.1 | 3929 | 60 | -1.46 | -55.5 | 11.4 | 3975 | 40 | -1.77 | -64.5 | 8.3 |
| 3782 | 20 | .97 | -22.5 | 30.7 | 3930 | 70 | -1.49 | -56.6 | 35.1 | | | | | |

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

* * 15 GREATEST PRESSURE MAGNITUDES * *

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- |
|---|---|---|---|---|
| 3681 | 70 | -3.74 | -142.1 | 32.9 |
| 3312 | 70 | -3.08 | -117.2 | 31.5 |
| 3680 | 70 | -2.87 | -108.9 | 28.8 |
| 3307 | 70 | -2.75 | -104.6 | 26.5 |
| 3633 | 220 | -3.38 | -104.2 | 23.8 |
| 3682 | 60 | -2.74 | -104.0 | 28.9 |
| 3334 | 70 | -2.69 | -102.4 | 32.7 |
| 3335 | 70 | -2.47 | -94.0 | 30.1 |
| 3330 | 70 | -2.40 | -91.1 | 31.1 |
| 3158 | 80 | -2.51 | -88.7 | 32.7 |
| 3248 | 130 | -2.54 | -85.8 | 39.2 |
| 3697 | 60 | -2.23 | -84.9 | 25.1 |
| 3164 | 40 | -2.28 | -83.3 | 30.1 |
| 3311 | 70 | -2.19 | -83.1 | 28.0 |
| 3679 | 70 | -2.17 | -82.6 | 32.2 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION B : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3123 | 294 | -2.49 | -62.5 | 37.6 | 3513 | 308 | -1.92 | -49.7 | 17.2 | 3650 | 344 | -2.84 | -89.6 | 34.7 |
| 3307 | 64 | -2.88 | -109.5 | 21.2 | 3548 | 320 | -2.39 | -61.7 | 27.1 | 3680 | 74 | -3.21 | -122.0 | 8.1 |
| 3312 | 62 | -3.55 | -134.8 | 28.0 | 3628 | 240 | -2.13 | -57.6 | 24.9 | 3681 | 64 | -4.16 | -158.0 | 17.4 |
| 3334 | 68 | -2.35 | -89.3 | 21.6 | 3633 | 226 | -2.73 | -77.8 | -3.1 | 3682 | 62 | -2.88 | -109.5 | -2.8 |
| 3512 | 308 | -2.38 | -61.5 | 19.6 | | | | | | | | | | |

TABLE 6A. PEAK LOADS FOR CONFIGURATION B : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

* * 13 GREATEST PRESSURE MAGNITUDES * *

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK | POSITIVE PEAK |
|---|---|---|---|---|
| | | | ---- PSF | ---- |
| 3681 | 64 | -4.16 | -158.0 | 17.4 |
| 3312 | 62 | -3.55 | -134.8 | 28.0 |
| 3680 | 74 | -3.21 | -122.0 | 8.1 |
| 3682 | 62 | -2.88 | -109.5 | -2.8 |
| 3307 | 64 | -2.88 | -109.5 | 21.2 |
| 3650 | 344 | -2.84 | -89.6 | 34.7 |
| 3334 | 68 | -2.35 | -89.3 | 21.6 |
| 3633 | 226 | -2.73 | -77.8 | -3.1 |
| 3123 | 294 | -2.49 | -62.5 | 37.6 |
| 3548 | 320 | -2.39 | -61.7 | 27.1 |
| 3512 | 308 | -2.38 | -61.5 | 19.6 |
| 3628 | 240 | -2.13 | -57.6 | 24.9 |
| 3513 | 308 | -1.92 | -49.7 | 17.2 |

TABLE 6A. PEAK LOADS FOR CONFIGURATION C : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- | TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF ---- | POSITIVE PEAK ---- PSF ---- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3247 | 135 | -1.76 | -64.2 | 7.5 | 4005 | 135 | -1.37 | -49.9 | 15.8 | 4012 | 125 | -1.26 | -42.7 | -1.2 |
| 3248 | 135 | -2.28 | -83.3 | 7.2 | 4006 | 140 | -1.69 | -61.8 | 7.8 | 4013 | 135 | -1.98 | -72.3 | 8.6 |
| 3249 | 135 | -1.87 | -68.1 | 16.2 | 4007 | 130 | -2.27 | -76.7 | 9.4 | 4014 | 135 | -1.88 | -68.6 | 9.3 |
| 4001 | 135 | -1.86 | -67.8 | 10.3 | 4008 | 135 | -1.74 | -63.4 | 7.3 | 4015 | 135 | -1.98 | -72.1 | 10.3 |
| 4002 | 130 | -2.29 | -77.4 | 8.3 | 4009 | 140 | -1.40 | -51.2 | 13.0 | 4016 | 135 | -1.97 | -71.8 | 10.9 |
| 4003 | 135 | -1.55 | -56.4 | 10.3 | 4010 | 140 | -1.35 | -49.2 | 11.8 | 4017 | 140 | -1.49 | -54.4 | 12.9 |
| 4004 | 135 | -2.07 | -75.4 | 9.0 | 4011 | 140 | -1.63 | -59.5 | 5.8 | | | | | |

TABLE 6A. PEAK LOADS FOR CONFIGURATION C : THREE LAKEWAY CENTER
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 38.0 PSF

* * 15 GREATEST PRESSURE MAGNITUDES * *

| TAP | AZI-MUTH | PRESS COEFF | NEGATIVE PEAK ---- PSF | POSITIVE PEAK ---- |
|---|---|---|---|---|
| 3248 | 135 | -2.28 | -83.3 | 7.2 |
| 4002 | 130 | -2.29 | -77.4 | 8.3 |
| 4007 | 130 | -2.27 | -76.7 | 9.4 |
| 4004 | 135 | -2.07 | -75.4 | 9.0 |
| 4013 | 135 | -1.98 | -72.3 | 8.6 |
| 4015 | 135 | -1.98 | -72.1 | 10.3 |
| 4016 | 135 | -1.97 | -71.8 | 10.9 |
| 4014 | 135 | -1.88 | -68.6 | 9.3 |
| 3249 | 135 | -1.87 | -68.1 | 16.2 |
| 4001 | 135 | -1.86 | -67.8 | 10.3 |
| 3247 | 135 | -1.76 | -64.2 | 7.5 |
| 4008 | 135 | -1.74 | -63.4 | 7.3 |
| 4006 | 140 | -1.69 | -61.8 | 7.8 |
| 4011 | 140 | -1.63 | -59.5 | 5.8 |
| 4003 | 135 | -1.55 | -56.4 | 10.3 |

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : ONE LAKEWAY CENTER
CONFIGURATION A REFERENCE PRESSURE 38.0 GUST FACTOR 1.32

| AZIMUTH | SHEAR (KIPS) | | MOMENT (1000-FT-KIPS) | | | ECCEN (FT) | |
|---|---|---|---|---|---|---|---|
| | X | Y | X | Y | Z | X | Y |
| 0 | -784.4 | -151.8 | 11.0 | -77.5 | -26.7 | 6 | -33 |
| 10 | -816.7 | -123.4 | 10.4 | -81.2 | -38.9 | 7 | -47 |
| 20 | -821.6 | -14.1 | 6.2 | -82.1 | -47.5 | 1 | -58 |
| 30 | -747.9 | 113.9 | -2.1 | -72.9 | -54.2 | -11 | -71 |
| 40 | -592.8 | 198.3 | -11.4 | -56.5 | -43.0 | -22 | -65 |
| 50 | -498.6 | 183.5 | -12.6 | -45.9 | -26.5 | -17 | -47 |
| 60 | -364.9 | 248.2 | -19.4 | -30.6 | -7.6 | -10 | -14 |
| 70 | -98.6 | 390.4 | -31.9 | -5.2 | 17.4 | 42 | 11 |
| 80 | 210.1 | 461.8 | -39.8 | 24.8 | 39.5 | 71 | -32 |
| 90 | 491.3 | 590.2 | -50.4 | 52.5 | 58.3 | 58 | -49 |
| 100 | 486.5 | 482.0 | -42.2 | 50.3 | 45.6 | 47 | -47 |
| 110 | 546.5 | 579.9 | -51.5 | 55.7 | 41.8 | 38 | -36 |
| 120 | 597.2 | 655.4 | -60.4 | 60.7 | 39.4 | 33 | -30 |
| 130 | 602.8 | 651.4 | -63.8 | 60.9 | 37.6 | 31 | -29 |
| 140 | 395.2 | 368.3 | -41.6 | 40.1 | 27.2 | 34 | -37 |
| 150 | 260.6 | 168.0 | -19.3 | 22.4 | 19.9 | 35 | -54 |
| 160 | 1.1 | -46.8 | 2.1 | -5.5 | -.0 | 1 | 0 |
| 170 | -86.1 | -123.1 | 10.7 | -15.4 | -10.9 | 59 | -42 |
| 180 | -100.5 | -141.6 | 13.5 | -17.8 | -13.6 | 64 | -45 |
| 190 | -70.4 | -162.4 | 15.6 | -15.9 | -13.3 | 69 | -30 |
| 200 | -31.7 | -121.2 | 12.9 | -12.5 | -12.7 | 98 | -26 |
| 210 | -24.9 | -49.3 | 8.1 | -12.0 | -12.9 | 208 | -105 |
| 220 | 66.5 | 40.1 | 1.9 | -3.4 | -9.7 | -65 | 107 |
| 230 | 56.5 | 44.4 | 2.2 | -3.0 | -7.2 | -62 | 79 |
| 240 | 35.6 | 79.6 | -2.0 | -3.1 | -6.6 | -69 | 31 |
| 250 | 35.4 | 114.9 | -6.6 | -1.4 | -6.2 | -49 | 15 |
| 260 | 12.6 | 122.9 | -8.9 | -2.2 | -5.2 | -42 | 4 |
| 270 | -.1 | 139.5 | -11.3 | -2.5 | -5.3 | -38 | -0 |
| 280 | -148.6 | 85.0 | -7.2 | -15.4 | -5.7 | -17 | -29 |
| 290 | -324.5 | -234.5 | 23.1 | -31.8 | -13.4 | 20 | -27 |
| 300 | -458.2 | -498.5 | 45.0 | -43.3 | -12.8 | 14 | -13 |
| 310 | -619.5 | -560.1 | 49.7 | -56.3 | -14.0 | 11 | -12 |
| 320 | -810.0 | -578.6 | 52.0 | -73.9 | -16.8 | 10 | -14 |
| 330 | -1070.4 | -663.1 | 58.0 | -100.4 | -24.3 | 10 | -16 |
| 340 | -1115.9 | -515.7 | 43.3 | -103.7 | -26.9 | 9 | -20 |
| 350 | -1071.1 | -328.3 | 27.4 | -100.9 | -28.3 | 7 | -24 |

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : TWO LAKEWAY CENTER
CONFIGURATION A REFERENCE PRESSURE 38.0 GUST FACTOR 1.32

| AZIMUTH | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z | ECCEN (FT) X | ECCEN (FT) Y |
|---|---|---|---|---|---|---|---|
| 0 | -1056.5 | 1663.3 | -170.5 | -123.5 | 176.5 | 76 | 48 |
| 10 | -1219.3 | 2202.5 | -234.9 | -145.2 | 189.5 | 66 | 36 |
| 20 | -1450.8 | 2355.4 | -257.1 | -175.0 | 177.6 | 55 | 34 |
| 30 | -1693.3 | 2390.4 | -266.8 | -203.3 | 172.7 | 48 | 34 |
| 40 | -1897.5 | 2426.5 | -278.6 | -225.5 | 173.5 | 44 | 35 |
| 50 | -1915.0 | 2402.0 | -286.8 | -231.7 | 169.3 | 43 | 34 |
| 60 | -1852.3 | 2340.5 | -293.8 | -232.8 | 147.4 | 39 | 31 |
| 70 | -1688.1 | 2084.1 | -272.1 | -218.7 | 109.6 | 32 | 26 |
| 80 | -1368.8 | 1567.8 | -206.3 | -179.1 | 82.0 | 30 | 26 |
| 90 | -944.7 | 821.0 | -108.7 | -124.0 | 41.0 | 22 | 25 |
| 100 | -466.4 | 247.4 | -35.1 | -64.2 | -17.1 | -15 | -29 |
| 110 | -132.5 | -81.2 | 1.3 | -18.8 | -44.5 | 150 | -244 |
| 120 | 22.9 | -267.2 | 21.9 | 3.9 | -52.1 | 193 | 17 |
| 130 | 248.4 | -314.3 | 31.9 | 36.9 | -43.0 | 84 | 66 |
| 140 | 445.0 | -356.4 | 47.4 | 69.0 | -41.3 | 45 | 57 |
| 150 | 886.9 | -808.5 | 113.6 | 124.6 | -54.6 | 31 | 34 |
| 160 | 905.6 | -614.7 | 86.3 | 124.6 | -62.7 | 32 | 47 |
| 170 | 946.4 | -289.3 | 45.0 | 129.0 | -59.8 | 18 | 58 |
| 180 | 1060.2 | -243.3 | 38.9 | 141.7 | -79.2 | 16 | 71 |
| 190 | 1107.7 | -473.3 | 63.5 | 143.4 | -97.8 | 32 | 75 |
| 200 | 1149.1 | -930.8 | 119.4 | 145.0 | -114.1 | 49 | 60 |
| 210 | 1182.9 | -1504.6 | 187.5 | 145.5 | -135.2 | 56 | 44 |
| 220 | 1186.3 | -2014.9 | 251.0 | 143.4 | -154.5 | 57 | 34 |
| 230 | 1005.5 | -2269.3 | 280.5 | 117.1 | -157.1 | 58 | 26 |
| 240 | 756.0 | -2309.0 | 283.7 | 84.2 | -150.2 | 59 | 19 |
| 250 | 478.1 | -2220.1 | 271.3 | 48.4 | -139.3 | 60 | 13 |
| 260 | 175.3 | -2081.4 | 251.5 | 8.4 | -130.2 | 62 | 5 |
| 270 | -138.7 | -2036.3 | 245.9 | -33.5 | -132.5 | 65 | -4 |
| 280 | -326.2 | -1883.8 | 227.6 | -58.4 | -135.4 | 70 | -12 |
| 290 | -26.6 | -2495.7 | 300.3 | -15.8 | -204.9 | 82 | -1 |
| 300 | 3.5 | -2389.5 | 291.7 | -6.1 | -215.7 | 90 | 0 |
| 310 | -235.2 | -1810.2 | 228.3 | -28.8 | -169.8 | 92 | -12 |
| 320 | -588.1 | -1015.3 | 132.3 | -70.7 | -85.6 | 63 | -37 |
| 330 | -950.8 | -397.9 | 66.9 | -112.3 | -13.6 | 5 | -12 |
| 340 | -1080.0 | 370.5 | -20.5 | -127.4 | 72.9 | 21 | 60 |
| 350 | -1148.2 | 1173.5 | -113.0 | -134.8 | 151.1 | 66 | 64 |

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : THREE LAKEWAY CENTER . PROJECT #6013
CONFIGURATION A REFERENCE PRESSURE 38.0 GUST FACTOR 1.32

| AZIMUTH | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z | ECCEN (FT) X | ECCEN (FT) Y |
|---|---|---|---|---|---|---|---|
| 0 | -1959.4 | -946.4 | 247.8 | -473.2 | -7.4 | 1 | -3 |
| 10 | -2501.4 | -759.4 | 204.3 | -589.9 | -33.9 | 4 | -12 |
| 20 | -2858.0 | -488.5 | 125.8 | -662.7 | -67.0 | 4 | -23 |
| 30 | -3179.9 | -326.1 | 72.8 | -733.1 | -101.7 | 3 | -32 |
| 40 | -3659.3 | -387.7 | 81.0 | -839.8 | -136.3 | 4 | -37 |
| 50 | -3868.2 | -485.1 | 104.1 | -884.0 | -176.6 | 6 | -45 |
| 60 | -3705.6 | -823.6 | 188.6 | -840.9 | -225.4 | 13 | -58 |
| 70 | -3161.0 | -637.7 | 150.4 | -710.5 | -250.0 | 15 | -76 |
| 80 | -2422.1 | 533.1 | -128.9 | -543.5 | -206.3 | -18 | -81 |
| 90 | -2156.9 | 911.0 | -214.0 | -498.3 | -159.5 | -27 | -63 |
| 100 | -1823.7 | 690.4 | -155.3 | -440.6 | -113.5 | -21 | -54 |
| 110 | -1284.6 | 925.2 | -205.7 | -317.0 | -63.9 | -24 | -33 |
| 120 | -494.8 | 1143.5 | -261.9 | -124.5 | 10.7 | 8 | 3 |
| 130 | 358.7 | 1129.7 | -264.0 | 77.4 | 70.6 | 57 | -18 |
| 140 | 965.0 | 1271.6 | -300.7 | 215.7 | 66.4 | 33 | -25 |
| 150 | 1530.9 | 1606.5 | -370.5 | 341.5 | 49.5 | 16 | -15 |
| 160 | 2107.9 | 1873.6 | -426.2 | 469.3 | 47.5 | 11 | -13 |
| 170 | 2662.5 | 1963.6 | -443.8 | 598.3 | 35.5 | 6 | -9 |
| 180 | 3203.8 | 1853.3 | -415.3 | 725.5 | 11.7 | 2 | -3 |
| 190 | 3421.3 | 1440.2 | -317.2 | 780.9 | -28.9 | -3 | 7 |
| 200 | 3284.0 | 879.8 | -180.7 | 748.8 | -75.3 | -6 | 21 |
| 210 | 3223.0 | 506.4 | -86.9 | 733.3 | -116.0 | -6 | 35 |
| 220 | 3123.5 | 510.0 | -86.5 | 707.9 | -128.9 | -7 | 40 |
| 230 | 2701.8 | 528.5 | -94.9 | 608.7 | -142.2 | -10 | 51 |
| 240 | 2151.6 | 439.1 | -83.2 | 482.2 | -155.7 | -14 | 69 |
| 250 | 1600.0 | 26.8 | 11.3 | 359.9 | -141.1 | -1 | 88 |
| 260 | 1484.0 | -179.6 | 61.2 | 338.0 | -114.5 | 9 | 76 |
| 270 | 1504.1 | -302.7 | 92.0 | 347.1 | -90.6 | 12 | 58 |
| 280 | 1418.4 | -369.4 | 107.9 | 322.5 | -74.1 | 13 | 49 |
| 290 | 1314.1 | -142.8 | 57.0 | 318.0 | -82.5 | 7 | 62 |
| 300 | 477.0 | -472.1 | 133.1 | 124.6 | -21.5 | 23 | 23 |
| 310 | -122.5 | -789.9 | 216.9 | -41.0 | 41.5 | -51 | 8 |
| 320 | -453.0 | -719.3 | 207.8 | -129.2 | 40.4 | -40 | 25 |
| 330 | -973.4 | -1042.4 | 286.8 | -241.5 | 35.0 | -18 | 17 |
| 340 | -1250.2 | -1252.8 | 326.8 | -303.7 | 19.3 | -8 | 8 |
| 350 | -1759.2 | -1252.8 | 323.3 | -431.1 | 11.0 | -3 | 4 |

TABLE 7. ONE LAKEWAY CENTER

PROJECT 6011 CONFIGURATION A

SCALE = 300 REF. PRESSURE = 38.0

GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.00

NUMBER OF SIDES = 6 NO. OF FLOORS = 14

| SIDE | ANGLE | Z-AXIS | SHFACT |
|---|---|---|---|
| 1 | 0.0 | 6.707 | 1.0 |
| 2 | 90.0 | 3.186 | 1.0 |
| 3 | 180.0 | 3.186 | 1.0 |
| 4 | 270.0 | 4.600 | 1.0 |
| 5 | 225.0 | 3.214 | 1.0 |
| 6 | 225.0 | 3.214 | 0.0 |

| FLOOR # | LABEL | HEIGHT-FT | WIND AZIMUTH | LOAD FACTOR |
|---|---|---|---|---|
| 1 | GRND | 17.00 | 0 | .71 |
| 2 | MEZZ | 13.00 | 10 | .77 |
| 3 | 4TH | 12.00 | 20 | .83 |
| 4 | 5TH | 12.00 | 30 | .89 |
| 5 | 6TH | 12.00 | 40 | .96 |
| 6 | 7TH | 12.00 | 50 | .98 |
| 7 | 8TH | 12.00 | 60 | 1.00 |
| 8 | 9TH | 12.00 | 70 | 1.00 |
| 9 | 10TH | 12.00 | 80 | .93 |
| 10 | 11TH | 12.00 | 90 | .89 |
| 11 | 12TH | 12.00 | 100 | .83 |
| 12 | 13TH | 12.00 | 110 | .85 |
| 13 | 14TH | 12.00 | 120 | .87 |
| 14 | MECH | 14.88 | 130 | .89 |
| | | | 140 | .96 |
| | | | 150 | .93 |
| | | | 160 | .96 |
| | | | 170 | .98 |
| | | | 180 | 1.00 |
| | | | 190 | .96 |
| | | | 200 | .89 |
| | | | 210 | .85 |
| | | | 220 | .81 |
| | | | 230 | .75 |
| | | | 240 | .71 |
| | | | 250 | .66 |
| | | | 260 | .64 |
| | | | 270 | .66 |
| | | | 280 | .66 |
| | | | 290 | .66 |
| | | | 300 | .68 |
| | | | 310 | .68 |
| | | | 320 | .68 |
| | | | 330 | .83 |
| | | | 340 | .83 |
| | | | 350 | .83 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -784.4 | -151.8 | 11.0 | -77.5 | -26.7 |
| | | -30.7 | -15.6 | 3603 | 4785 | -8.5 | -3.3 | -3 | 6 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -753.8 | -136.2 | 8.6 | -64.5 | -27.0 |
| | | -22.2 | -16.3 | 2755 | 3659 | -8.1 | -4.4 | -9 | 12 | | | | | |
| 4TH | 30.00 | | | | | | | | | -731.6 | -119.9 | 6.9 | -54.8 | -27.4 |
| | | -30.2 | -18.1 | 2892 | 3378 | -10.4 | -5.4 | 4 | -7 | | | | | |
| 5TH | 42.00 | | | | | | | | | -701.4 | -101.8 | 5.6 | -46.2 | -27.1 |
| | | -27.9 | -18.9 | 2940 | 3378 | -9.5 | -5.6 | 2 | -2 | | | | | |
| 6TH | 54.00 | | | | | | | | | -673.5 | -82.9 | 4.5 | -38.0 | -27.0 |
| | | -55.2 | -12.6 | 2921 | 2450 | -18.9 | -5.1 | 8 | -36 | | | | | |
| 7TH | 66.00 | | | | | | | | | -618.3 | -70.4 | 3.6 | -30.2 | -24.9 |
| | | -72.3 | -5.2 | 2800 | 2082 | -25.8 | -2.5 | 3 | -42 | | | | | |
| 8TH | 78.00 | | | | | | | | | -546.1 | -65.1 | 2.8 | -23.2 | -21.8 |
| | | -74.6 | -7.9 | 2800 | 2082 | -26.6 | -3.8 | 4 | -42 | | | | | |
| 9TH | 90.00 | | | | | | | | | -471.5 | -57.2 | 2.0 | -17.1 | -18.7 |
| | | -76.9 | -10.5 | 2800 | 2082 | -27.5 | -5.1 | 6 | -41 | | | | | |
| 10TH | 102.00 | | | | | | | | | -394.6 | -46.7 | 1.4 | -11.9 | -15.5 |
| | | -79.4 | -10.5 | 2800 | 2082 | -28.4 | -5.1 | 5 | -40 | | | | | |
| 11TH | 114.00 | | | | | | | | | -315.3 | -36.2 | .9 | -7.7 | -12.3 |
| | | -82.0 | -10.2 | 2800 | 2082 | -29.3 | -4.9 | 5 | -39 | | | | | |
| 12TH | 126.00 | | | | | | | | | -233.3 | -26.0 | .5 | -4.4 | -9.0 |
| | | -83.6 | -9.6 | 2800 | 2082 | -29.9 | -4.6 | 4 | -39 | | | | | |
| 13TH | 138.00 | | | | | | | | | -149.7 | -16.4 | .3 | -2.1 | -5.7 |
| | | -71.9 | -7.1 | 2800 | 2082 | -25.7 | -3.4 | 4 | -40 | | | | | |
| 14TH | 150.00 | | | | | | | | | -77.8 | -9.3 | .1 | -.7 | -2.8 |
| | | -60.1 | -4.5 | 2800 | 2082 | -21.5 | -2.1 | 3 | -41 | | | | | |
| MECH | 162.00 | | | | | | | | | -17.6 | -4.8 | .0 | -.1 | -.3 |
| | | -17.6 | -4.8 | 2031 | 1223 | -8.7 | -3.9 | 5 | -17 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -816.7 | -123.4 | 10.4 | -81.2 | -38.9 |
| | | -26.4 | -.8 | 3603 | 4785 | -7.3 | -.2 | -0 | 8 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -790.3 | -122.6 | 8.3 | -67.5 | -39.1 |
| | | -17.8 | -.4 | 2755 | 3659 | -6.5 | -.1 | -0 | 17 | | | | | |
| 4TH | 30.00 | | | | | | | | | -772.5 | -122.2 | 6.8 | -57.4 | -39.4 |
| | | -28.8 | -11.0 | 2892 | 3378 | -10.0 | -3.3 | 6 | -15 | | | | | |
| 5TH | 42.00 | | | | | | | | | -743.6 | -111.2 | 5.4 | -48.3 | -38.9 |
| | | -23.1 | -31.3 | 2940 | 3378 | -9.9 | -9.3 | -0 | 0 | | | | | |
| 6TH | 54.00 | | | | | | | | | -714.6 | -79.9 | 4.2 | -39.5 | -38.9 |
| | | -64.3 | -17.2 | 2921 | 2450 | -22.0 | -7.0 | 11 | -42 | | | | | |
| 7TH | 66.00 | | | | | | | | | -650.2 | -62.7 | 3.4 | -31.3 | -36.0 |
| | | -80.5 | -5.2 | 2800 | 2082 | -28.8 | -2.5 | 3 | -53 | | | | | |
| 8TH | 78.00 | | | | | | | | | -569.7 | -57.5 | 2.6 | -24.0 | -31.7 |
| | | -80.7 | -6.9 | 2800 | 2082 | -28.8 | -3.3 | 5 | -54 | | | | | |
| 9TH | 90.00 | | | | | | | | | -488.9 | -50.6 | 2.0 | -17.7 | -27.3 |
| | | -80.9 | -8.7 | 2800 | 2082 | -28.9 | -4.2 | 6 | -55 | | | | | |
| 10TH | 102.00 | | | | | | | | | -408.0 | -42.0 | 1.4 | -12.3 | -22.8 |
| | | -82.7 | -8.4 | 2800 | 2082 | -29.5 | -4.0 | 6 | -55 | | | | | |
| 11TH | 114.00 | | | | | | | | | -325.3 | -33.6 | 1.0 | -7.9 | -18.2 |
| | | -84.7 | -7.8 | 2800 | 2082 | -30.3 | -3.7 | 5 | -56 | | | | | |
| 12TH | 126.00 | | | | | | | | | -240.6 | -25.8 | .6 | -4.5 | -13.4 |
| | | -85.9 | -7.2 | 2800 | 2082 | -30.7 | -3.4 | 5 | -56 | | | | | |
| 13TH | 138.00 | | | | | | | | | -154.7 | -18.7 | .3 | -2.1 | -8.6 |
| | | -74.4 | -6.4 | 2800 | 2082 | -26.6 | -3.1 | 5 | -57 | | | | | |
| 14TH | 150.00 | | | | | | | | | -80.3 | -12.3 | .2 | -.7 | -4.3 |
| | | -63.0 | -5.6 | 2800 | 2082 | -22.5 | -2.7 | 5 | -58 | | | | | |
| MECH | 162.00 | | | | | | | | | -17.3 | -6.6 | .0 | -.1 | -.6 |
| | | -17.3 | -6.6 | 2031 | 1223 | -8.5 | -5.4 | 12 | -32 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -821.6 | -14.1 | 6.2 | -82.1 | -47.5 |
| | | -24.8 | 22.3 | 3603 | 4785 | -6.9 | 4.7 | 5 | 6 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -796.8 | -36.4 | 5.8 | -68.4 | -47.8 |
| | | -17.2 | 22.0 | 2755 | 3659 | -6.2 | 6.0 | 8 | 6 | | | | | |
| 4TH | 30.00 | | | | | | | | | -779.6 | -58.4 | 5.1 | -58.1 | -48.1 |
| | | -30.0 | 11.8 | 2892 | 3378 | -10.4 | 3.5 | -9 | -24 | | | | | |
| 5TH | 42.00 | | | | | | | | | -749.6 | -70.2 | 4.4 | -49.0 | -47.2 |
| | | -29.7 | -12.3 | 2940 | 3378 | -10.1 | -3.6 | 4 | -11 | | | | | |
| 6TH | 54.00 | | | | | | | | | -719.8 | -57.9 | 3.6 | -40.1 | -46.9 |
| | | -64.6 | -9.1 | 2921 | 2450 | -22.1 | -3.7 | 9 | -61 | | | | | |
| 7TH | 66.00 | | | | | | | | | -655.2 | -48.8 | 3.0 | -31.9 | -42.8 |
| | | -78.8 | -1.8 | 2800 | 2082 | -28.1 | -.9 | 2 | -66 | | | | | |
| 8TH | 78.00 | | | | | | | | | -576.5 | -47.0 | 2.4 | -24.5 | -37.6 |
| | | -79.5 | -3.8 | 2800 | 2082 | -28.4 | -1.8 | 3 | -66 | | | | | |
| 9TH | 90.00 | | | | | | | | | -497.0 | -43.2 | 1.8 | -18.1 | -32.3 |
| | | -80.3 | -5.9 | 2800 | 2082 | -28.7 | -2.8 | 5 | -67 | | | | | |
| 10TH | 102.00 | | | | | | | | | -416.7 | -37.3 | 1.4 | -12.6 | -26.9 |
| | | -83.2 | -6.1 | 2800 | 2082 | -29.7 | -2.9 | 5 | -66 | | | | | |
| 11TH | 114.00 | | | | | | | | | -333.5 | -31.2 | 1.0 | -8.1 | -21.4 |
| | | -86.4 | -6.2 | 2800 | 2082 | -30.8 | -3.0 | 5 | -65 | | | | | |
| 12TH | 126.00 | | | | | | | | | -247.1 | -25.0 | .6 | -4.6 | -15.8 |
| | | -88.6 | -6.2 | 2800 | 2082 | -31.7 | -3.0 | 4 | -64 | | | | | |
| 13TH | 138.00 | | | | | | | | | -158.5 | -18.8 | .4 | -2.2 | -10.1 |
| | | -76.7 | -6.1 | 2800 | 2082 | -27.4 | -3.0 | 5 | -65 | | | | | |
| 14TH | 150.00 | | | | | | | | | -81.7 | -12.7 | .2 | -.7 | -5.1 |
| | | -64.8 | -6.1 | 2800 | 2082 | -23.2 | -2.9 | 6 | -66 | | | | | |
| MECH | 162.00 | | | | | | | | | -16.9 | -6.6 | .0 | -.1 | -.8 |
| | | -16.9 | -6.6 | 2031 | 1223 | -8.3 | -5.4 | 16 | -41 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -747.9 | 113.9 | -2.1 | -72.9 | -54.2 |
| | | -23.5 | 45.8 | 3603 | 4785 | -6.5 | 9.6 | -1 | -0 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -724.4 | 68.1 | -.5 | -60.3 | -54.2 |
| | | -16.3 | 40.5 | 2755 | 3659 | -5.9 | 11.1 | -2 | -1 | | | | | |
| 4TH | 30.00 | | | | | | | | | -708.1 | 27.5 | .1 | -51.0 | -54.1 |
| | | -29.7 | 30.5 | 2892 | 3378 | -10.3 | 9.0 | -22 | -21 | | | | | |
| 5TH | 42.00 | | | | | | | | | -678.5 | -2.9 | .2 | -42.7 | -52.8 |
| | | -31.4 | 5.7 | 2940 | 3378 | -10.7 | 1.7 | -7 | -36 | | | | | |
| 6TH | 54.00 | | | | | | | | | -647.1 | -8.6 | .2 | -34.8 | -51.6 |
| | | -63.9 | -5.3 | 2921 | 2450 | -21.9 | -2.2 | 7 | -81 | | | | | |
| 7TH | 66.00 | | | | | | | | | -583.2 | -3.3 | .1 | -27.4 | -46.4 |
| | | -74.7 | -1.4 | 2800 | 2082 | -26.7 | -.7 | 1 | -80 | | | | | |
| 8TH | 78.00 | | | | | | | | | -508.4 | -2.0 | .1 | -20.8 | -40.4 |
| | | -75.3 | -1.5 | 2800 | 2082 | -26.9 | -.7 | 2 | -79 | | | | | |
| 9TH | 90.00 | | | | | | | | | -433.2 | -.4 | .0 | -15.2 | -34.5 |
| | | -75.8 | -1.7 | 2800 | 2082 | -27.1 | -.8 | 2 | -77 | | | | | |
| 10TH | 102.00 | | | | | | | | | -357.4 | 1.2 | .1 | -10.4 | -28.6 |
| | | -76.1 | -.4 | 2800 | 2082 | -27.2 | -.2 | 0 | -78 | | | | | |
| 11TH | 114.00 | | | | | | | | | -281.3 | 1.6 | .1 | -6.6 | -22.7 |
| | | -76.5 | 1.1 | 2800 | 2082 | -27.3 | .5 | -1 | -78 | | | | | |
| 12TH | 126.00 | | | | | | | | | -204.8 | .6 | .1 | -3.7 | -16.7 |
| | | -76.1 | 2.4 | 2800 | 2082 | -27.2 | 1.1 | -2 | -79 | | | | | |
| 13TH | 138.00 | | | | | | | | | -128.8 | -1.8 | .1 | -1.7 | -10.7 |
| | | -64.8 | 1.0 | 2800 | 2082 | -23.1 | .5 | -1 | -82 | | | | | |
| 14TH | 150.00 | | | | | | | | | -64.0 | -2.8 | .0 | -.5 | -5.4 |
| | | -53.5 | -.5 | 2800 | 2082 | -19.1 | -.2 | 1 | -85 | | | | | |
| MECH | 162.00 | | | | | | | | | -10.4 | -2.3 | .0 | -.1 | -.8 |
| | | -10.4 | -2.3 | 2031 | 1223 | -5.1 | -1.9 | 17 | -77 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 40 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -592.8 | 198.3 | -11.4 | -56.5 | -43.0 |
| | | -20.7 | 47.5 | 3603 | 4785 | -5.7 | 9.9 | -6 | -2 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -572.2 | 150.8 | -8.4 | -46.6 | -42.7 |
| | | -14.0 | 42.1 | 2755 | 3659 | -5.1 | 11.5 | -6 | -2 | | | | | |
| 4TH | 30.00 | | | | | | | | | -558.2 | 108.7 | -6.7 | -39.3 | -42.4 |
| | | -26.3 | 32.0 | 2892 | 3378 | -9.1 | 9.5 | -23 | -19 | | | | | |
| 5TH | 42.00 | | | | | | | | | -531.8 | 76.8 | -5.6 | -32.7 | -41.2 |
| | | -28.8 | 12.7 | 2940 | 3378 | -9.8 | 3.7 | -14 | -32 | | | | | |
| 6TH | 54.00 | | | | | | | | | -503.0 | 64.1 | -4.8 | -26.5 | -40.1 |
| | | -49.5 | 1.5 | 2921 | 2450 | -16.9 | .6 | -2 | -77 | | | | | |
| 7TH | 66.00 | | | | | | | | | -453.6 | 62.6 | -4.0 | -20.8 | -36.3 |
| | | -58.7 | 1.4 | 2800 | 2082 | -21.0 | .7 | -2 | -76 | | | | | |
| 8TH | 78.00 | | | | | | | | | -394.9 | 61.3 | -3.3 | -15.7 | -31.9 |
| | | -59.6 | 2.8 | 2800 | 2082 | -21.3 | 1.4 | -4 | -74 | | | | | |
| 9TH | 90.00 | | | | | | | | | -335.3 | 58.4 | -2.5 | -11.3 | -27.4 |
| | | -60.5 | 4.3 | 2800 | 2082 | -21.6 | 2.1 | -5 | -73 | | | | | |
| 10TH | 102.00 | | | | | | | | | -274.7 | 54.1 | -1.9 | -7.6 | -23.0 |
| | | -61.2 | 6.9 | 2800 | 2082 | -21.9 | 3.3 | -8 | -75 | | | | | |
| 11TH | 114.00 | | | | | | | | | -213.5 | 47.2 | -1.3 | -4.7 | -18.3 |
| | | -61.9 | 9.8 | 2800 | 2082 | -22.1 | 4.7 | -12 | -76 | | | | | |
| 12TH | 126.00 | | | | | | | | | -151.6 | 37.4 | -.8 | -2.5 | -13.5 |
| | | -61.7 | 12.3 | 2800 | 2082 | -22.0 | 5.9 | -16 | -78 | | | | | |
| 13TH | 138.00 | | | | | | | | | -89.9 | 25.1 | -.4 | -1.1 | -8.5 |
| | | -49.4 | 11.1 | 2800 | 2082 | -17.7 | 5.3 | -19 | -83 | | | | | |
| 14TH | 150.00 | | | | | | | | | -40.4 | 14.1 | -.1 | -.3 | -4.2 |
| | | -37.1 | 9.8 | 2800 | 2082 | -13.3 | 4.7 | -24 | -92 | | | | | |
| MECH | 162.00 | | | | | | | | | -3.3 | 4.3 | -.0 | -.0 | -.5 |
| | | -3.3 | 4.3 | 2031 | 1223 | -1.6 | 3.5 | -73 | -57 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -498.6 | 183.5 | -12.6 | -45.9 | -26.5 |
| | | -22.2 | 29.1 | 3603 | 4785 | -6.2 | 6.1 | -4 | -3 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -476.4 | 154.5 | -9.7 | -37.6 | -26.3 |
| | | -16.3 | 29.4 | 2755 | 3659 | -5.9 | 8.0 | -8 | -5 | | | | | |
| 4TH | 30.00 | | | | | | | | | -460.0 | 125.1 | -7.9 | -31.5 | -26.0 |
| | | -27.3 | 25.6 | 2892 | 3378 | -9.4 | 7.6 | -18 | -19 | | | | | |
| 5TH | 42.00 | | | | | | | | | -432.8 | 99.5 | -6.6 | -26.2 | -25.0 |
| | | -32.2 | 14.6 | 2940 | 3378 | -10.9 | 4.3 | -8 | -18 | | | | | |
| 6TH | 54.00 | | | | | | | | | -400.6 | 84.9 | -5.5 | -21.2 | -24.3 |
| | | -39.8 | 8.1 | 2921 | 2450 | -13.6 | 3.3 | -9 | -43 | | | | | |
| 7TH | 66.00 | | | | | | | | | -360.9 | 76.8 | -4.5 | -16.6 | -22.6 |
| | | -44.8 | 5.1 | 2800 | 2082 | -16.0 | 2.5 | -6 | -50 | | | | | |
| 8TH | 78.00 | | | | | | | | | -316.1 | 71.7 | -3.6 | -12.6 | -20.3 |
| | | -46.9 | 5.1 | 2800 | 2082 | -16.8 | 2.4 | -6 | -52 | | | | | |
| 9TH | 90.00 | | | | | | | | | -269.2 | 66.6 | -2.8 | -9.0 | -17.8 |
| | | -49.1 | 5.1 | 2800 | 2082 | -17.5 | 2.4 | -6 | -54 | | | | | |
| 10TH | 102.00 | | | | | | | | | -220.0 | 61.6 | -2.0 | -6.1 | -15.2 |
| | | -49.4 | 8.5 | 2800 | 2082 | -17.7 | 4.1 | -10 | -58 | | | | | |
| 11TH | 114.00 | | | | | | | | | -170.6 | 53.1 | -1.3 | -3.8 | -12.2 |
| | | -49.5 | 12.4 | 2800 | 2082 | -17.7 | 5.9 | -15 | -61 | | | | | |
| 12TH | 126.00 | | | | | | | | | -121.1 | 40.7 | -.7 | -2.0 | -9.0 |
| | | -48.9 | 15.8 | 2800 | 2082 | -17.5 | 7.6 | -20 | -63 | | | | | |
| 13TH | 138.00 | | | | | | | | | -72.2 | 24.9 | -.4 | -.9 | -5.6 |
| | | -39.7 | 12.3 | 2800 | 2082 | -14.2 | 5.9 | -20 | -66 | | | | | |
| 14TH | 150.00 | | | | | | | | | -32.5 | 12.6 | -.1 | -.2 | -2.8 |
| | | -30.4 | 8.7 | 2800 | 2082 | -10.9 | 4.2 | -20 | -71 | | | | | |
| MECH | 162.00 | | | | | | | | | -2.1 | 3.9 | -.0 | -.0 | -.4 |
| | | -2.1 | 3.9 | 2031 | 1223 | -1.1 | 3.2 | -81 | -44 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -364.9 | 248.2 | -19.4 | -30.6 | -7.6 |
| | | -27.0 | 20.0 | 3603 | 4785 | -7.5 | 4.2 | -6 | -8 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -337.8 | 228.2 | -15.3 | -24.7 | -7.2 |
| | | -20.3 | 21.3 | 2755 | 3659 | -7.4 | 5.8 | -11 | -11 | | | | | |
| 4TH | 30.00 | | | | | | | | | -317.5 | 206.9 | -12.5 | -20.4 | -6.8 |
| | | -28.8 | 22.3 | 2892 | 3378 | -10.0 | 6.6 | -13 | -17 | | | | | |
| 5TH | 42.00 | | | | | | | | | -288.7 | 184.6 | -10.2 | -16.8 | -6.0 |
| | | -34.3 | 22.2 | 2940 | 3378 | -11.7 | 6.6 | -6 | -10 | | | | | |
| 6TH | 54.00 | | | | | | | | | -254.4 | 162.4 | -8.1 | -13.5 | -5.5 |
| | | -29.7 | 21.7 | 2921 | 2450 | -10.2 | 8.8 | -3 | -4 | | | | | |
| 7TH | 66.00 | | | | | | | | | -224.7 | 140.7 | -6.3 | -10.6 | -5.3 |
| | | -29.3 | 19.2 | 2800 | 2082 | -10.5 | 9.2 | -5 | -8 | | | | | |
| 8TH | 78.00 | | | | | | | | | -195.4 | 121.5 | -4.7 | -8.1 | -5.0 |
| | | -29.5 | 18.7 | 2800 | 2082 | -10.5 | 9.0 | -6 | -10 | | | | | |
| 9TH | 90.00 | | | | | | | | | -165.9 | 102.8 | -3.3 | -5.9 | -4.6 |
| | | -29.7 | 18.2 | 2800 | 2082 | -10.6 | 8.8 | -7 | -11 | | | | | |
| 10TH | 102.00 | | | | | | | | | -136.2 | 84.6 | -2.2 | -4.1 | -4.1 |
| | | -29.0 | 19.1 | 2800 | 2082 | -10.4 | 9.2 | -10 | -15 | | | | | |
| 11TH | 114.00 | | | | | | | | | -107.2 | 65.5 | -1.3 | -2.7 | -3.5 |
| | | -28.2 | 20.2 | 2800 | 2082 | -10.1 | 9.7 | -13 | -18 | | | | | |
| 12TH | 126.00 | | | | | | | | | -79.0 | 45.2 | -.6 | -1.6 | -2.7 |
| | | -27.3 | 20.9 | 2800 | 2082 | -9.7 | 10.1 | -16 | -21 | | | | | |
| 13TH | 138.00 | | | | | | | | | -51.7 | 24.3 | -.2 | -.8 | -1.8 |
| | | -23.3 | 15.7 | 2800 | 2082 | -8.3 | 7.5 | -16 | -23 | | | | | |
| 14TH | 150.00 | | | | | | | | | -28.4 | 8.6 | -.0 | -.3 | -1.0 |
| | | -19.3 | 10.4 | 2800 | 2082 | -6.9 | 5.0 | -14 | -26 | | | | | |
| MECH | 162.00 | | | | | | | | | -9.1 | -1.8 | .0 | -.1 | -.4 |
| | | -9.1 | -1.8 | 2031 | 1223 | -4.5 | -1.4 | 7 | -38 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -98.6 | 390.4 | -31.9 | -5.2 | 17.4 |
| | | -20.6 | 24.1 | 3603 | 4785 | -5.7 | 5.0 | -14 | -12 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -78.0 | 366.3 | -25.5 | -3.7 | 18.0 |
| | | -16.5 | 25.8 | 2755 | 3659 | -6.0 | 7.1 | -19 | -12 | | | | | |
| 4TH | 30.00 | | | | | | | | | -61.5 | 340.4 | -20.9 | -2.8 | 18.7 |
| | | -19.6 | 26.3 | 2892 | 3378 | -6.8 | 7.8 | -13 | -10 | | | | | |
| 5TH | 42.00 | | | | | | | | | -41.9 | 314.1 | -16.9 | -2.2 | 19.2 |
| | | -24.7 | 35.9 | 2940 | 3378 | -8.4 | 10.6 | -0 | -0 | | | | | |
| 6TH | 54.00 | | | | | | | | | -17.2 | 278.2 | -13.4 | -1.8 | 19.2 |
| | | -3.8 | 38.5 | 2921 | 2450 | -1.3 | 15.7 | 58 | 6 | | | | | |
| 7TH | 66.00 | | | | | | | | | -13.3 | 239.8 | -10.3 | -1.7 | 17.0 |
| | | .4 | 35.4 | 2800 | 2082 | .2 | 17.0 | 71 | -1 | | | | | |
| 8TH | 78.00 | | | | | | | | | -13.7 | 204.4 | -7.6 | -1.5 | 14.5 |
| | | 1.0 | 34.2 | 2800 | 2082 | .3 | 16.4 | 75 | -2 | | | | | |
| 9TH | 90.00 | | | | | | | | | -14.7 | 170.2 | -5.4 | -1.3 | 11.9 |
| | | 1.5 | 33.0 | 2800 | 2082 | .5 | 15.9 | 79 | -4 | | | | | |
| 10TH | 102.00 | | | | | | | | | -16.2 | 137.2 | -3.5 | -1.1 | 9.3 |
| | | 1.3 | 32.9 | 2800 | 2082 | .5 | 15.8 | 75 | -3 | | | | | |
| 11TH | 114.00 | | | | | | | | | -17.5 | 104.3 | -2.1 | -.9 | 6.8 |
| | | 1.1 | 33.0 | 2800 | 2082 | .4 | 15.9 | 69 | -2 | | | | | |
| 12TH | 126.00 | | | | | | | | | -18.6 | 71.2 | -1.0 | -.7 | 4.5 |
| | | .7 | 32.6 | 2800 | 2082 | .2 | 15.7 | 63 | -1 | | | | | |
| 13TH | 138.00 | | | | | | | | | -19.3 | 38.6 | -.3 | -.5 | 2.5 |
| | | -2.1 | 24.9 | 2800 | 2082 | -.7 | 12.0 | 61 | 5 | | | | | |
| 14TH | 150.00 | | | | | | | | | -17.2 | 13.7 | -.0 | -.3 | .9 |
| | | -4.8 | 17.1 | 2800 | 2082 | -1.7 | 8.2 | 55 | 15 | | | | | |
| MECH | 162.00 | | | | | | | | | -12.4 | -3.4 | .0 | -.1 | -.1 |
| | | -12.4 | -3.4 | 2031 | 1223 | -6.1 | -2.8 | 1 | -5 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 80 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 210.1 | 461.8 | -39.8 | 24.8 | 39.5 |
| | | -10.4 | 25.1 | 3603 | 4785 | -2.9 | 5.2 | -17 | -7 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 220.4 | 436.7 | -32.2 | 21.1 | 40.0 |
| | | -8.8 | 26.0 | 2755 | 3659 | -3.2 | 7.1 | -18 | -6 | | | | | |
| 4TH | 30.00 | | | | | | | | | 229.3 | 410.7 | -26.7 | 18.2 | 40.5 |
| | | -6.4 | 23.7 | 2892 | 3378 | -2.2 | 7.0 | -12 | -3 | | | | | |
| 5TH | 42.00 | | | | | | | | | 235.7 | 387.0 | -21.9 | 15.4 | 40.9 |
| | | -11.4 | 38.1 | 2940 | 3378 | -3.9 | 11.3 | 0 | 0 | | | | | |
| 6TH | 54.00 | | | | | | | | | 247.1 | 349.0 | -17.4 | 12.5 | 40.9 |
| | | 24.3 | 44.9 | 2921 | 2450 | 8.3 | 18.3 | 69 | -38 | | | | | |
| 7TH | 66.00 | | | | | | | | | 222.7 | 304.1 | -13.5 | 9.7 | 36.8 |
| | | 30.5 | 42.1 | 2800 | 2082 | 10.9 | 20.2 | 72 | -52 | | | | | |
| 8TH | 78.00 | | | | | | | | | 192.2 | 262.0 | -10.1 | 7.2 | 32.2 |
| | | 30.5 | 41.3 | 2800 | 2082 | 10.9 | 19.8 | 74 | -55 | | | | | |
| 9TH | 90.00 | | | | | | | | | 161.7 | 220.7 | -7.2 | 5.1 | 27.5 |
| | | 30.6 | 40.4 | 2800 | 2082 | 10.9 | 19.4 | 76 | -58 | | | | | |
| 10TH | 102.00 | | | | | | | | | 131.1 | 180.3 | -4.8 | 3.3 | 22.6 |
| | | 31.0 | 40.9 | 2800 | 2082 | 11.1 | 19.6 | 76 | -57 | | | | | |
| 11TH | 114.00 | | | | | | | | | 100.1 | 139.4 | -2.9 | 2.0 | 17.7 |
| | | 31.4 | 41.5 | 2800 | 2082 | 11.2 | 20.0 | 75 | -57 | | | | | |
| 12TH | 126.00 | | | | | | | | | 68.7 | 97.9 | -1.5 | .9 | 12.8 |
| | | 31.4 | 41.7 | 2800 | 2082 | 11.2 | 20.0 | 75 | -56 | | | | | |
| 13TH | 138.00 | | | | | | | | | 37.3 | 56.2 | -.6 | .3 | 7.9 |
| | | 24.6 | 33.7 | 2800 | 2082 | 8.8 | 16.2 | 80 | -58 | | | | | |
| 14TH | 150.00 | | | | | | | | | 12.7 | 22.5 | -.1 | .0 | 3.8 |
| | | 17.7 | 25.7 | 2800 | 2082 | 6.3 | 12.3 | 89 | -61 | | | | | |
| MECH | 162.00 | | | | | | | | | -5.1 | -3.2 | .0 | -.0 | .4 |
| | | -5.1 | -3.2 | 2031 | 1223 | -2.5 | -2.6 | -40 | 64 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 491.3 | 590.2 | -50.4 | 52.5 | 58.3 |
| | | -2.1 | 38.8 | 3603 | 4785 | -.6 | 8.1 | -28 | -2 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 493.4 | 551.4 | -40.7 | 44.1 | 59.4 |
| | | -4.8 | 39.3 | 2755 | 3659 | -1.8 | 10.7 | -28 | -3 | | | | | |
| 4TH | 30.00 | | | | | | | | | 498.3 | 512.1 | -33.8 | 37.7 | 60.6 |
| | | 5.6 | 30.6 | 2892 | 3378 | 1.9 | 9.1 | -12 | 2 | | | | | |
| 5TH | 42.00 | | | | | | | | | 492.7 | 481.5 | -27.8 | 31.7 | 60.9 |
| | | 3.4 | 46.7 | 2940 | 3378 | 1.2 | 13.8 | 7 | -1 | | | | | |
| 6TH | 54.00 | | | | | | | | | 489.3 | 434.8 | -22.3 | 25.8 | 60.6 |
| | | 52.3 | 52.5 | 2921 | 2450 | 17.9 | 21.4 | 59 | -59 | | | | | |
| 7TH | 66.00 | | | | | | | | | 437.0 | 382.3 | -17.4 | 20.3 | 54.4 |
| | | 57.6 | 49.7 | 2800 | 2082 | 20.6 | 23.9 | 59 | -68 | | | | | |
| 8TH | 78.00 | | | | | | | | | 379.4 | 332.6 | -13.1 | 15.4 | 47.6 |
| | | 56.6 | 50.1 | 2800 | 2082 | 20.2 | 24.1 | 60 | -67 | | | | | |
| 9TH | 90.00 | | | | | | | | | 322.9 | 282.5 | -9.4 | 11.2 | 40.8 |
| | | 55.5 | 50.5 | 2800 | 2082 | 19.8 | 24.3 | 61 | -67 | | | | | |
| 10TH | 102.00 | | | | | | | | | 267.3 | 231.9 | -6.4 | 7.6 | 34.0 |
| | | 56.7 | 51.4 | 2800 | 2082 | 20.3 | 24.7 | 60 | -67 | | | | | |
| 11TH | 114.00 | | | | | | | | | 210.6 | 180.5 | -3.9 | 4.8 | 27.1 |
| | | 58.3 | 52.4 | 2800 | 2082 | 20.8 | 25.2 | 60 | -66 | | | | | |
| 12TH | 126.00 | | | | | | | | | 152.3 | 128.1 | -2.0 | 2.6 | 20.1 |
| | | 59.2 | 52.7 | 2800 | 2082 | 21.1 | 25.3 | 59 | -66 | | | | | |
| 13TH | 138.00 | | | | | | | | | 93.2 | 75.4 | -.8 | 1.1 | 13.0 |
| | | 49.8 | 43.5 | 2800 | 2082 | 17.8 | 20.9 | 62 | -71 | | | | | |
| 14TH | 150.00 | | | | | | | | | 43.4 | 31.9 | -.2 | .3 | 6.8 |
| | | 40.4 | 34.3 | 2800 | 2082 | 14.4 | 16.5 | 66 | -78 | | | | | |
| MECH | 162.00 | | | | | | | | | 3.0 | -2.5 | .0 | .0 | 1.4 |
| | | 3.0 | -2.5 | 2031 | 1223 | 1.5 | -2.0 | -221 | -272 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 486.5 | 482.0 | -42.2 | 50.3 | 45.6 |
| | | 5.9 | 28.6 | 3603 | 4785 | 1.6 | 6.0 | -29 | 6 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 480.7 | 453.3 | -34.2 | 42.1 | 46.5 |
| | | 2.1 | 30.2 | 2755 | 3659 | .8 | 8.2 | -31 | 2 | | | | | |
| 4TH | 30.00 | | | | | | | | | 478.5 | 423.2 | -28.5 | 35.9 | 47.4 |
| | | 11.0 | 22.4 | 2892 | 3378 | 3.8 | 6.6 | -8 | 4 | | | | | |
| 5TH | 42.00 | | | | | | | | | 467.5 | 400.8 | -23.6 | 30.2 | 47.6 |
| | | 9.1 | 36.7 | 2940 | 3378 | 3.1 | 10.9 | 3 | -1 | | | | | |
| 6TH | 54.00 | | | | | | | | | 458.4 | 364.1 | -19.0 | 24.7 | 47.5 |
| | | 47.6 | 42.6 | 2921 | 2450 | 16.3 | 17.4 | 47 | -52 | | | | | |
| 7TH | 66.00 | | | | | | | | | 410.8 | 321.5 | -14.9 | 19.4 | 43.1 |
| | | 52.8 | 41.0 | 2800 | 2082 | 18.9 | 19.7 | 47 | -60 | | | | | |
| 8TH | 78.00 | | | | | | | | | 358.0 | 280.5 | -11.2 | 14.8 | 38.0 |
| | | 52.0 | 41.2 | 2800 | 2082 | 18.6 | 19.8 | 49 | -61 | | | | | |
| 9TH | 90.00 | | | | | | | | | 306.1 | 239.3 | -8.1 | 10.8 | 32.8 |
| | | 51.2 | 41.5 | 2800 | 2082 | 18.3 | 19.9 | 51 | -63 | | | | | |
| 10TH | 102.00 | | | | | | | | | 254.9 | 197.8 | -5.5 | 7.5 | 27.4 |
| | | 52.4 | 42.6 | 2800 | 2082 | 18.7 | 20.5 | 51 | -62 | | | | | |
| 11TH | 114.00 | | | | | | | | | 202.5 | 155.2 | -3.4 | 4.7 | 22.0 |
| | | 53.9 | 43.8 | 2800 | 2082 | 19.2 | 21.1 | 50 | -62 | | | | | |
| 12TH | 126.00 | | | | | | | | | 148.6 | 111.4 | -1.8 | 2.6 | 16.5 |
| | | 54.8 | 44.6 | 2800 | 2082 | 19.6 | 21.4 | 50 | -61 | | | | | |
| 13TH | 138.00 | | | | | | | | | 93.8 | 66.8 | -.7 | 1.2 | 10.9 |
| | | 48.1 | 37.9 | 2800 | 2082 | 17.2 | 18.2 | 51 | -65 | | | | | |
| 14TH | 150.00 | | | | | | | | | 45.7 | 28.9 | -.1 | .3 | 5.8 |
| | | 41.3 | 31.2 | 2800 | 2082 | 14.8 | 15.0 | 53 | -70 | | | | | |
| MECH | 162.00 | | | | | | | | | 4.4 | -2.4 | .0 | .0 | 1.2 |
| | | 4.4 | -2.4 | 2031 | 1223 | 2.2 | -1.9 | -119 | -220 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 546.5 | 579.9 | -51.5 | 55.7 | 41.8 |
| | | 10.2 | 30.3 | 3603 | 4785 | 2.8 | 6.3 | -35 | 12 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 536.2 | 549.6 | -41.9 | 46.5 | 43.0 |
| | | 5.0 | 33.2 | 2755 | 3659 | 1.8 | 9.1 | -35 | 5 | | | | | |
| 4TH | 30.00 | | | | | | | | | 531.3 | 516.4 | -35.0 | 39.6 | 44.2 |
| | | 14.9 | 26.3 | 2892 | 3378 | 5.2 | 7.8 | -14 | 8 | | | | | |
| 5TH | 42.00 | | | | | | | | | 516.3 | 490.2 | -28.9 | 33.3 | 44.6 |
| | | 14.1 | 46.0 | 2940 | 3378 | 4.8 | 13.6 | -7 | 2 | | | | | |
| 6TH | 54.00 | | | | | | | | | 502.2 | 444.2 | -23.3 | 27.2 | 45.0 |
| | | 52.7 | 50.9 | 2921 | 2450 | 18.1 | 20.8 | 38 | -39 | | | | | |
| 7TH | 66.00 | | | | | | | | | 449.5 | 393.3 | -18.3 | 21.5 | 41.0 |
| | | 57.4 | 49.7 | 2800 | 2082 | 20.5 | 23.9 | 41 | -47 | | | | | |
| 8TH | 78.00 | | | | | | | | | 392.1 | 343.6 | -13.9 | 16.4 | 36.3 |
| | | 56.6 | 50.3 | 2800 | 2082 | 20.2 | 24.2 | 43 | -48 | | | | | |
| 9TH | 90.00 | | | | | | | | | 335.5 | 293.3 | -10.1 | 12.1 | 31.4 |
| | | 55.8 | 50.8 | 2800 | 2082 | 19.9 | 24.4 | 45 | -50 | | | | | |
| 10TH | 102.00 | | | | | | | | | 279.7 | 242.4 | -6.9 | 8.4 | 26.3 |
| | | 56.7 | 51.8 | 2800 | 2082 | 20.3 | 24.9 | 45 | -50 | | | | | |
| 11TH | 114.00 | | | | | | | | | 223.0 | 190.6 | -4.3 | 5.3 | 21.2 |
| | | 57.9 | 52.8 | 2800 | 2082 | 20.7 | 25.4 | 45 | -50 | | | | | |
| 12TH | 126.00 | | | | | | | | | 165.1 | 137.8 | -2.3 | 3.0 | 15.9 |
| | | 58.7 | 53.3 | 2800 | 2082 | 20.9 | 25.6 | 45 | -50 | | | | | |
| 13TH | 138.00 | | | | | | | | | 106.5 | 84.5 | -1.0 | 1.4 | 10.6 |
| | | 52.5 | 46.1 | 2800 | 2082 | 18.8 | 22.2 | 46 | -52 | | | | | |
| 14TH | 150.00 | | | | | | | | | 53.9 | 38.3 | -.2 | .4 | 5.7 |
| | | 46.4 | 38.9 | 2800 | 2082 | 16.6 | 18.7 | 47 | -56 | | | | | |
| MECH | 162.00 | | | | | | | | | 7.6 | -.6 | .0 | .1 | 1.3 |
| | | 7.6 | -.6 | 2031 | 1223 | 3.7 | -.5 | -13 | -172 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 120 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 597.2 | 655.4 | -60.4 | 60.7 | 39.4 |
| | | 10.5 | 24.9 | 3603 | 4785 | 2.9 | 5.2 | -38 | 16 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 586.6 | 630.5 | -49.5 | 50.7 | 40.6 |
| | | 6.2 | 28.3 | 2755 | 3659 | 2.2 | 7.7 | -36 | 8 | | | | | |
| 4TH | 30.00 | | | | | | | | | 580.4 | 602.2 | -41.5 | 43.1 | 41.7 |
| | | 18.2 | 25.9 | 2892 | 3378 | 6.3 | 7.7 | -9 | 6 | | | | | |
| 5TH | 42.00 | | | | | | | | | 562.2 | 576.3 | -34.4 | 36.2 | 42.0 |
| | | 18.4 | 53.6 | 2940 | 3378 | 6.3 | 15.9 | -12 | 4 | | | | | |
| 6TH | 54.00 | | | | | | | | | 543.9 | 522.6 | -27.8 | 29.6 | 42.7 |
| | | 58.2 | 58.6 | 2921 | 2450 | 19.9 | 23.9 | 32 | -32 | | | | | |
| 7TH | 66.00 | | | | | | | | | 485.7 | 464.0 | -21.9 | 23.4 | 39.0 |
| | | 61.8 | 57.9 | 2800 | 2082 | 22.1 | 27.8 | 36 | -39 | | | | | |
| 8TH | 78.00 | | | | | | | | | 423.9 | 406.2 | -16.7 | 18.0 | 34.5 |
| | | 60.2 | 58.5 | 2800 | 2082 | 21.5 | 28.1 | 39 | -40 | | | | | |
| 9TH | 90.00 | | | | | | | | | 363.7 | 347.7 | -12.1 | 13.2 | 29.8 |
| | | 58.6 | 59.0 | 2800 | 2082 | 20.9 | 28.4 | 41 | -41 | | | | | |
| 10TH | 102.00 | | | | | | | | | 305.0 | 288.7 | -8.3 | 9.2 | 25.0 |
| | | 60.3 | 60.3 | 2800 | 2082 | 21.5 | 29.0 | 41 | -41 | | | | | |
| 11TH | 114.00 | | | | | | | | | 244.7 | 228.3 | -5.2 | 5.9 | 20.0 |
| | | 62.4 | 61.7 | 2800 | 2082 | 22.3 | 29.6 | 40 | -41 | | | | | |
| 12TH | 126.00 | | | | | | | | | 182.4 | 166.6 | -2.9 | 3.4 | 15.0 |
| | | 63.9 | 62.5 | 2800 | 2082 | 22.8 | 30.0 | 39 | -40 | | | | | |
| 13TH | 138.00 | | | | | | | | | 118.5 | 104.1 | -1.2 | 1.6 | 10.0 |
| | | 57.7 | 55.1 | 2800 | 2082 | 20.6 | 26.5 | 40 | -42 | | | | | |
| 14TH | 150.00 | | | | | | | | | 60.8 | 49.0 | -.3 | .5 | 5.4 |
| | | 51.5 | 47.6 | 2800 | 2082 | 18.4 | 22.9 | 40 | -43 | | | | | |
| MECH | 162.00 | | | | | | | | | 9.3 | 1.4 | -.0 | .1 | 1.3 |
| | | 9.3 | 1.4 | 2031 | 1223 | 4.6 | 1.2 | 21 | -133 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 602.8 | 651.4 | -63.8 | 60.9 | 37.6 |
| | | 11.6 | 12.3 | 3603 | 4785 | 3.2 | 2.6 | -20 | 19 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 591.2 | 639.1 | -52.8 | 50.7 | 38.1 |
| | | 8.8 | 12.5 | 2755 | 3659 | 3.2 | 3.4 | -25 | 18 | | | | | |
| 4TH | 30.00 | | | | | | | | | 582.4 | 626.6 | -44.6 | 43.1 | 38.6 |
| | | 20.6 | 20.7 | 2892 | 3378 | 7.1 | 6.1 | -0 | 0 | | | | | |
| 5TH | 42.00 | | | | | | | | | 561.8 | 605.8 | -37.2 | 36.2 | 38.6 |
| | | 22.4 | 53.3 | 2940 | 3378 | 7.6 | 15.8 | -9 | 4 | | | | | |
| 6TH | 54.00 | | | | | | | | | 539.4 | 552.5 | -30.3 | 29.6 | 39.2 |
| | | 60.1 | 61.0 | 2921 | 2450 | 20.6 | 24.9 | 30 | -29 | | | | | |
| 7TH | 66.00 | | | | | | | | | 479.4 | 491.6 | -24.0 | 23.5 | 35.6 |
| | | 60.9 | 60.1 | 2800 | 2082 | 21.8 | 28.9 | 34 | -34 | | | | | |
| 8TH | 78.00 | | | | | | | | | 418.5 | 431.5 | -18.5 | 18.1 | 31.5 |
| | | 58.5 | 59.1 | 2800 | 2082 | 20.9 | 28.4 | 37 | -36 | | | | | |
| 9TH | 90.00 | | | | | | | | | 360.0 | 372.4 | -13.6 | 13.4 | 27.2 |
| | | 56.1 | 58.1 | 2800 | 2082 | 20.0 | 27.9 | 39 | -38 | | | | | |
| 10TH | 102.00 | | | | | | | | | 303.9 | 314.3 | -9.5 | 9.5 | 22.8 |
| | | 57.7 | 60.7 | 2800 | 2082 | 20.6 | 29.2 | 39 | -37 | | | | | |
| 11TH | 114.00 | | | | | | | | | 246.2 | 253.6 | -6.1 | 6.2 | 18.2 |
| | | 59.9 | 63.8 | 2800 | 2082 | 21.4 | 30.6 | 38 | -36 | | | | | |
| 12TH | 126.00 | | | | | | | | | 186.4 | 189.8 | -3.5 | 3.6 | 13.6 |
| | | 61.7 | 66.4 | 2800 | 2082 | 22.0 | 31.9 | 38 | -35 | | | | | |
| 13TH | 138.00 | | | | | | | | | 124.7 | 123.4 | -1.6 | 1.7 | 9.0 |
| | | 58.2 | 61.2 | 2800 | 2082 | 20.8 | 29.4 | 36 | -34 | | | | | |
| 14TH | 150.00 | | | | | | | | | 66.4 | 62.2 | -.5 | .6 | 4.8 |
| | | 54.7 | 56.0 | 2800 | 2082 | 19.5 | 26.9 | 34 | -33 | | | | | |
| MECH | 162.00 | | | | | | | | | 11.7 | 6.2 | -.0 | .1 | 1.1 |
| | | 11.7 | 6.2 | 2031 | 1223 | 5.8 | 5.1 | 38 | -71 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 140 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 395.2 | 368.3 | -41.6 | 40.1 | 27.2 |
| | | 10.3 | 1.2 | 3603 | 4785 | 2.9 | .3 | -3 | 29 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 384.9 | 367.1 | -35.3 | 33.5 | 27.5 |
| | | 7.3 | -.8 | 2755 | 3659 | 2.6 | -.2 | 2 | 17 | | | | | |
| 4TH | 30.00 | | | | | | | | | 377.6 | 367.9 | -30.6 | 28.5 | 27.7 |
| | | 19.2 | 3.2 | 2892 | 3378 | 6.7 | 1.0 | 4 | -21 | | | | | |
| 5TH | 42.00 | | | | | | | | | 358.4 | 364.7 | -26.2 | 24.1 | 27.2 |
| | | 21.8 | 19.3 | 2940 | 3378 | 7.4 | 5.7 | 4 | -4 | | | | | |
| 6TH | 54.00 | | | | | | | | | 336.6 | 345.4 | -21.9 | 19.9 | 27.1 |
| | | 41.4 | 27.7 | 2921 | 2450 | 14.2 | 11.3 | 29 | -43 | | | | | |
| 7TH | 66.00 | | | | | | | | | 295.3 | 317.7 | -17.9 | 16.2 | 24.5 |
| | | 37.1 | 32.3 | 2800 | 2082 | 13.2 | 15.5 | 34 | -39 | | | | | |
| 8TH | 78.00 | | | | | | | | | 258.2 | 285.4 | -14.3 | 12.8 | 22.0 |
| | | 30.7 | 29.4 | 2800 | 2082 | 11.0 | 14.1 | 38 | -40 | | | | | |
| 9TH | 90.00 | | | | | | | | | 227.5 | 256.0 | -11.1 | 9.9 | 19.6 |
| | | 24.3 | 26.4 | 2800 | 2082 | 8.7 | 12.7 | 44 | -40 | | | | | |
| 10TH | 102.00 | | | | | | | | | 203.2 | 229.6 | -8.1 | 7.3 | 17.5 |
| | | 27.8 | 31.5 | 2800 | 2082 | 9.9 | 15.1 | 45 | -40 | | | | | |
| 11TH | 114.00 | | | | | | | | | 175.4 | 198.1 | -5.6 | 5.1 | 15.0 |
| | | 32.7 | 37.7 | 2800 | 2082 | 11.7 | 18.1 | 46 | -39 | | | | | |
| 12TH | 126.00 | | | | | | | | | 142.7 | 160.4 | -3.4 | 3.2 | 12.0 |
| | | 37.5 | 43.8 | 2800 | 2082 | 13.4 | 21.0 | 45 | -38 | | | | | |
| 13TH | 138.00 | | | | | | | | | 105.2 | 116.6 | -1.8 | 1.7 | 8.6 |
| | | 40.9 | 47.6 | 2800 | 2082 | 14.6 | 22.9 | 43 | -37 | | | | | |
| 14TH | 150.00 | | | | | | | | | 64.3 | 69.0 | -.7 | .7 | 5.1 |
| | | 44.3 | 51.4 | 2800 | 2082 | 15.8 | 24.7 | 41 | -36 | | | | | |
| MECH | 162.00 | | | | | | | | | 19.9 | 17.6 | -.1 | .1 | 1.4 |
| | | 19.9 | 17.6 | 2031 | 1223 | 9.8 | 14.4 | 34 | -38 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 260.6 | 168.0 | -19.3 | 22.4 | 19.9 |
| | | 16.1 | -3.0 | 3603 | 4785 | 4.5 | -.6 | 6 | 31 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 244.5 | 171.0 | -16.5 | 18.1 | 20.4 |
| | | 11.5 | -1.9 | 2755 | 3659 | 4.2 | -.5 | 3 | 16 | | | | | |
| 4TH | 30.00 | | | | | | | | | 233.1 | 172.9 | -14.2 | 15.0 | 20.6 |
| | | 23.0 | 2.4 | 2892 | 3378 | 8.0 | .7 | 1 | -5 | | | | | |
| 5TH | 42.00 | | | | | | | | | 210.0 | 170.6 | -12.2 | 12.3 | 20.5 |
| | | 26.0 | 11.6 | 2940 | 3378 | 8.8 | 3.4 | -1 | 2 | | | | | |
| 6TH | 54.00 | | | | | | | | | 184.1 | 159.0 | -10.2 | 10.0 | 20.5 |
| | | 32.4 | 12.2 | 2921 | 2450 | 11.1 | 5.0 | 18 | -47 | | | | | |
| 7TH | 66.00 | | | | | | | | | 151.6 | 146.8 | -8.4 | 8.0 | 18.8 |
| | | 25.6 | 16.5 | 2800 | 2082 | 9.1 | 7.9 | 28 | -43 | | | | | |
| 8TH | 78.00 | | | | | | | | | 126.1 | 130.3 | -6.7 | 6.3 | 17.2 |
| | | 17.8 | 12.9 | 2800 | 2082 | 6.4 | 6.2 | 37 | -51 | | | | | |
| 9TH | 90.00 | | | | | | | | | 108.2 | 117.4 | -5.2 | 4.9 | 15.8 |
| | | 10.1 | 9.3 | 2800 | 2082 | 3.6 | 4.5 | 60 | -65 | | | | | |
| 10TH | 102.00 | | | | | | | | | 98.1 | 108.1 | -3.9 | 3.6 | 14.6 |
| | | 11.7 | 12.7 | 2800 | 2082 | 4.2 | 6.1 | 71 | -65 | | | | | |
| 11TH | 114.00 | | | | | | | | | 86.4 | 95.4 | -2.6 | 2.5 | 12.9 |
| | | 14.6 | 17.1 | 2800 | 2082 | 5.2 | 8.2 | 74 | -64 | | | | | |
| 12TH | 126.00 | | | | | | | | | 71.7 | 78.3 | -1.6 | 1.6 | 10.7 |
| | | 17.6 | 21.4 | 2800 | 2082 | 6.3 | 10.3 | 76 | -63 | | | | | |
| 13TH | 138.00 | | | | | | | | | 54.1 | 56.9 | -.8 | .8 | 8.0 |
| | | 21.1 | 24.9 | 2800 | 2082 | 7.5 | 11.9 | 74 | -63 | | | | | |
| 14TH | 150.00 | | | | | | | | | 33.0 | 32.1 | -.2 | .3 | 4.8 |
| | | 24.6 | 28.3 | 2800 | 2082 | 8.8 | 13.6 | 72 | -62 | | | | | |
| MECH | 162.00 | | | | | | | | | 8.4 | 3.8 | -.0 | .1 | 1.3 |
| | | 8.4 | 3.8 | 2031 | 1223 | 4.1 | 3.1 | 57 | -126 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1.1 | -46.8 | 2.1 | -5.5 | -.0 |
| | | 16.0 | -15.2 | 3603 | 4785 | 4.4 | -3.2 | 10 | 11 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -14.9 | -31.6 | 1.4 | -5.4 | .3 |
| | | 10.3 | -2.2 | 2755 | 3659 | 3.7 | -.6 | 6 | 28 | | | | | |
| 4TH | 30.00 | | | | | | | | | -25.2 | -29.4 | 1.0 | -5.2 | .6 |
| | | 18.1 | -1.2 | 2892 | 3378 | 6.3 | -.4 | 0 | 6 | | | | | |
| 5TH | 42.00 | | | | | | | | | -43.3 | -28.2 | .6 | -4.8 | .7 |
| | | 19.4 | -1.9 | 2940 | 3378 | 6.6 | -.6 | -0 | -3 | | | | | |
| 6TH | 54.00 | | | | | | | | | -62.7 | -26.2 | .3 | -4.1 | .6 |
| | | 1.0 | -12.0 | 2921 | 2450 | .3 | -4.9 | -7 | -1 | | | | | |
| 7TH | 66.00 | | | | | | | | | -63.7 | -14.2 | .1 | -3.4 | .6 |
| | | -3.0 | -4.9 | 2800 | 2082 | -1.1 | -2.3 | 35 | -22 | | | | | |
| 8TH | 78.00 | | | | | | | | | -60.7 | -9.4 | -.1 | -2.6 | .8 |
| | | -6.9 | -5.6 | 2800 | 2082 | -2.5 | -2.7 | 16 | -20 | | | | | |
| 9TH | 90.00 | | | | | | | | | -53.7 | -3.8 | -.1 | -1.9 | 1.0 |
| | | -10.9 | -6.3 | 2800 | 2082 | -3.9 | -3.0 | 9 | -15 | | | | | |
| 10TH | 102.00 | | | | | | | | | -42.9 | 2.4 | -.1 | -1.4 | 1.2 |
| | | -10.2 | -3.8 | 2800 | 2082 | -3.6 | -1.8 | 3 | -8 | | | | | |
| 11TH | 114.00 | | | | | | | | | -32.7 | 6.2 | -.1 | -.9 | 1.3 |
| | | -8.8 | -.8 | 2800 | 2082 | -3.1 | -.4 | -1 | 6 | | | | | |
| 12TH | 126.00 | | | | | | | | | -23.9 | 7.0 | -.0 | -.6 | 1.3 |
| | | -7.4 | 2.1 | 2800 | 2082 | -2.7 | 1.0 | 7 | 25 | | | | | |
| 13TH | 138.00 | | | | | | | | | -16.5 | 4.9 | .1 | -.3 | 1.1 |
| | | -5.8 | 4.5 | 2800 | 2082 | -2.1 | 2.2 | 26 | 33 | | | | | |
| 14TH | 150.00 | | | | | | | | | -10.7 | .4 | .1 | -.2 | .8 |
| | | -4.1 | 6.9 | 2800 | 2082 | -1.5 | 3.3 | 44 | 26 | | | | | |
| MECH | 162.00 | | | | | | | | | -6.6 | -6.5 | .0 | -.0 | .4 |
| | | -6.6 | -6.5 | 2031 | 1223 | -3.2 | -5.3 | -27 | 28 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -86.1 | -123.1 | 10.7 | -15.4 | -10.9 |
| | | 21.6 | -10.4 | 3603 | 4785 | 6.0 | -2.2 | 12 | 26 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -107.7 | -112.7 | 8.7 | -13.8 | -10.2 |
| | | 13.4 | 2.5 | 2755 | 3659 | 4.9 | .7 | -7 | 39 | | | | | |
| 4TH | 30.00 | | | | | | | | | -121.1 | -115.2 | 7.2 | -12.3 | -9.7 |
| | | 19.7 | .0 | 2892 | 3378 | 6.8 | .0 | -0 | 17 | | | | | |
| 5TH | 42.00 | | | | | | | | | -140.7 | -115.2 | 5.8 | -10.7 | -9.3 |
| | | 19.0 | -12.8 | 2940 | 3378 | 6.5 | -3.8 | -6 | -9 | | | | | |
| 6TH | 54.00 | | | | | | | | | -159.8 | -102.4 | 4.5 | -8.9 | -9.6 |
| | | -14.7 | -25.1 | 2921 | 2450 | -5.0 | -10.2 | 13 | -8 | | | | | |
| 7TH | 66.00 | | | | | | | | | -145.0 | -77.3 | 3.4 | -7.1 | -9.1 |
| | | -17.0 | -13.4 | 2800 | 2082 | -6.1 | -6.4 | 31 | -39 | | | | | |
| 8TH | 78.00 | | | | | | | | | -128.0 | -64.0 | 2.6 | -5.5 | -8.1 |
| | | -18.5 | -12.2 | 2800 | 2082 | -6.6 | -5.9 | 28 | -42 | | | | | |
| 9TH | 90.00 | | | | | | | | | -109.6 | -51.7 | 1.9 | -4.0 | -7.0 |
| | | -20.0 | -11.1 | 2800 | 2082 | -7.1 | -5.3 | 25 | -45 | | | | | |
| 10TH | 102.00 | | | | | | | | | -89.6 | -40.6 | 1.3 | -2.8 | -5.8 |
| | | -19.1 | -9.9 | 2800 | 2082 | -6.8 | -4.8 | 25 | -48 | | | | | |
| 11TH | 114.00 | | | | | | | | | -70.5 | -30.7 | .9 | -1.9 | -4.6 |
| | | -17.8 | -8.7 | 2800 | 2082 | -6.4 | -4.2 | 25 | -51 | | | | | |
| 12TH | 126.00 | | | | | | | | | -52.7 | -22.0 | .6 | -1.1 | -3.5 |
| | | -16.5 | -7.3 | 2800 | 2082 | -5.9 | -3.5 | 25 | -56 | | | | | |
| 13TH | 138.00 | | | | | | | | | -36.2 | -14.7 | .3 | -.6 | -2.4 |
| | | -14.6 | -4.1 | 2800 | 2082 | -5.2 | -2.0 | 21 | -73 | | | | | |
| 14TH | 150.00 | | | | | | | | | -21.6 | -10.6 | .2 | -.3 | -1.3 |
| | | -12.6 | -.9 | 2800 | 2082 | -4.5 | -.4 | 6 | -94 | | | | | |
| MECH | 162.00 | | | | | | | | | -9.0 | -9.7 | .1 | -.1 | -.1 |
| | | -9.0 | -9.7 | 2031 | 1223 | -4.4 | -7.9 | 3 | -3 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -100.5 | -141.6 | 13.5 | -17.8 | -13.6 |
| | | 27.3 | -3.6 | 3603 | 4785 | 7.6 | -.8 | 5 | 35 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -127.9 | -138.0 | 11.1 | -15.9 | -12.6 |
| | | 16.5 | 8.1 | 2755 | 3659 | 6.0 | 2.2 | -17 | 35 | | | | | |
| 4TH | 30.00 | | | | | | | | | -144.4 | -146.1 | 9.2 | -14.1 | -11.9 |
| | | 22.0 | 3.1 | 2892 | 3370 | 7.6 | .9 | -3 | 18 | | | | | |
| 5TH | 42.00 | | | | | | | | | -166.4 | -149.2 | 7.5 | -12.3 | -11. |
| | | 20.1 | -20.7 | 2940 | 3370 | 6.8 | -6.1 | -21 | -21 | | | | | |
| 6TH | 54.00 | | | | | | | | | -186.5 | -128.5 | 5.8 | -10.1 | -12.3 |
| | | -19.3 | -30.8 | 2921 | 2450 | -6.6 | -12.6 | 7 | -5 | | | | | |
| 7TH | 66.00 | | | | | | | | | -167.2 | -97.8 | 4.4 | -8.0 | -12.0 |
| | | -21.7 | -14.8 | 2800 | 2082 | -7.8 | -7.1 | 27 | -40 | | | | | |
| 8TH | 78.00 | | | | | | | | | -145.5 | -83.0 | 3.4 | -6.1 | -10.7 |
| | | -22.5 | -14.6 | 2800 | 2082 | -8.0 | -7.0 | 27 | -42 | | | | | |
| 9TH | 90.00 | | | | | | | | | -123.0 | -68.4 | 2.4 | -4.5 | -9.4 |
| | | -23.2 | -14.5 | 2800 | 2082 | -8.3 | -6.9 | 27 | -43 | | | | | |
| 10TH | 102.00 | | | | | | | | | -99.8 | -54.0 | 1.7 | -3.2 | -8.0 |
| | | -21.4 | -13.1 | 2800 | 2082 | -7.7 | -6.3 | 29 | -48 | | | | | |
| 11TH | 114.00 | | | | | | | | | -78.4 | -40.9 | 1.1 | -2.1 | -6.6 |
| | | -19.3 | -11.5 | 2800 | 2082 | -6.9 | -5.5 | 33 | -55 | | | | | |
| 12TH | 126.00 | | | | | | | | | -59.0 | -29.4 | .7 | -1.3 | -5.2 |
| | | -17.3 | -9.8 | 2800 | 2082 | -6.2 | -4.7 | 36 | -64 | | | | | |
| 13TH | 138.00 | | | | | | | | | -41.7 | -19.6 | .4 | -.7 | -3.7 |
| | | -16.4 | -6.1 | 2800 | 2082 | -5.8 | -2.9 | 33 | -89 | | | | | |
| 14TH | 150.00 | | | | | | | | | -25.4 | -13.5 | .2 | -.3 | -2.0 |
| | | -15.4 | -2.4 | 2800 | 2082 | -5.5 | -1.1 | 18 | -116 | | | | | |
| MECH | 162.00 | | | | | | | | | -10.0 | -11.1 | .1 | -.1 | -.2 |
| | | -10.0 | -11.1 | 2031 | 1223 | -4.9 | -9.1 | 10 | -9 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -70.4 | -162.4 | 15.6 | -15.9 | -13.3 |
| | | 31.7 | -4.1 | 3603 | 4785 | 8.8 | -.9 | 4 | 29 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -102.1 | -158.3 | 12.9 | -14.4 | -12.3 |
| | | 19.3 | 9.8 | 2755 | 3659 | 7.0 | 2.7 | -15 | 29 | | | | | |
| 4TH | 30.00 | | | | | | | | | -121.5 | -168.1 | 10.7 | -13.0 | -11.7 |
| | | 25.8 | 3.1 | 2892 | 3378 | 8.9 | .9 | -1 | 9 | | | | | |
| 5TH | 42.00 | | | | | | | | | -147.3 | -171.2 | 8.7 | -11.3 | -11.4 |
| | | 24.4 | -25.7 | 2940 | 3378 | 8.3 | -7.6 | -25 | -24 | | | | | |
| 6TH | 54.00 | | | | | | | | | -171.7 | -145.5 | 6.8 | -9.4 | -12.6 |
| | | -17.2 | -33.9 | 2921 | 2450 | -5.9 | -13.8 | 6 | -3 | | | | | |
| 7TH | 66.00 | | | | | | | | | -154.5 | -111.6 | 5.3 | -7.5 | -12.4 |
| | | -20.7 | -16.4 | 2800 | 2082 | -7.4 | -7.9 | 31 | -39 | | | | | |
| 8TH | 78.00 | | | | | | | | | -133.8 | -95.2 | 4.0 | -5.7 | -11.1 |
| | | -20.7 | -16.1 | 2800 | 2082 | -7.4 | -7.7 | 32 | -42 | | | | | |
| 9TH | 90.00 | | | | | | | | | -113.1 | -79.1 | 3.0 | -4.3 | -9.7 |
| | | -20.8 | -15.7 | 2800 | 2082 | -7.4 | -7.6 | 34 | -44 | | | | | |
| 10TH | 102.00 | | | | | | | | | -92.3 | -63.4 | 2.1 | -3.0 | -8.2 |
| | | -19.1 | -14.2 | 2800 | 2082 | -6.8 | -6.8 | 37 | -50 | | | | | |
| 11TH | 114.00 | | | | | | | | | -73.2 | -49.2 | 1.4 | -2.0 | -6.8 |
| | | -17.3 | -12.5 | 2800 | 2082 | -6.2 | -6.0 | 42 | -57 | | | | | |
| 12TH | 126.00 | | | | | | | | | -55.9 | -36.7 | .9 | -1.3 | -5.2 |
| | | -15.5 | -10.7 | 2800 | 2082 | -5.5 | -5.2 | 47 | -68 | | | | | |
| 13TH | 138.00 | | | | | | | | | -40.4 | -25.9 | .6 | -.7 | -3.7 |
| | | -15.2 | -7.8 | 2800 | 2082 | -5.4 | -3.7 | 45 | -89 | | | | | |
| 14TH | 150.00 | | | | | | | | | -25.3 | -18.2 | .3 | -.3 | -2.0 |
| | | -14.8 | -4.8 | 2800 | 2082 | -5.3 | -2.3 | 36 | -113 | | | | | |
| MECH | 162.00 | | | | | | | | | -10.4 | -13.4 | .1 | -.1 | -.2 |
| | | -10.4 | -13.4 | 2031 | 1223 | -5.1 | -11.0 | 7 | -6 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 200 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -31.7 | -121.2 | 12.9 | -12.5 | -12.7 |
| | | 33.4 | 2.1 | 3603 | 4785 | 9.3 | .4 | -2 | 32 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -65.1 | -123.3 | 10.9 | -11.6 | -11.6 |
| | | 20.7 | 11.6 | 2755 | 3659 | 7.5 | 3.2 | -16 | 28 | | | | | |
| 4TH | 30.00 | | | | | | | | | -85.8 | -134.9 | 9.2 | -10.7 | -10.8 |
| | | 27.8 | 5.5 | 2892 | 3378 | 9.6 | 1.6 | -2 | 11 | | | | | |
| 5TH | 42.00 | | | | | | | | | -113.6 | -140.4 | 7.5 | -9.5 | -10.5 |
| | | 25.8 | -19.7 | 2940 | 3378 | 8.8 | -5.8 | -21 | -28 | | | | | |
| 6TH | 54.00 | | | | | | | | | -139.4 | -120.7 | 6.0 | -7.9 | -11.6 |
| | | -12.7 | -28.6 | 2921 | 2450 | -4.4 | -11.7 | 6 | -3 | | | | | |
| 7TH | 66.00 | | | | | | | | | -126.7 | -92.1 | 4.7 | -6.3 | -11.4 |
| | | -16.3 | -12.9 | 2800 | 2082 | -5.8 | -6.2 | 35 | -44 | | | | | |
| 8TH | 78.00 | | | | | | | | | -110.4 | -79.2 | 3.7 | -4.9 | -10.2 |
| | | -16.4 | -12.1 | 2800 | 2082 | -5.9 | -5.8 | 38 | -52 | | | | | |
| 9TH | 90.00 | | | | | | | | | -94.0 | -67.1 | 2.8 | -3.7 | -8.9 |
| | | -16.5 | -11.2 | 2800 | 2082 | -5.9 | -5.4 | 40 | -59 | | | | | |
| 10TH | 102.00 | | | | | | | | | -77.5 | -55.9 | 2.1 | -2.7 | -7.5 |
| | | -15.2 | -10.5 | 2800 | 2082 | -5.4 | -5.1 | 44 | -64 | | | | | |
| 11TH | 114.00 | | | | | | | | | -62.3 | -45.4 | 1.4 | -1.8 | -6.1 |
| | | -13.7 | -9.8 | 2800 | 2082 | -4.9 | -4.7 | 50 | -69 | | | | | |
| 12TH | 126.00 | | | | | | | | | -48.6 | -35.5 | 1.0 | -1.2 | -4.6 |
| | | -12.3 | -9.1 | 2800 | 2082 | -4.4 | -4.4 | 56 | -76 | | | | | |
| 13TH | 138.00 | | | | | | | | | -36.2 | -26.4 | .6 | -.7 | -3.2 |
| | | -12.5 | -7.0 | 2800 | 2082 | -4.5 | -3.4 | 52 | -93 | | | | | |
| 14TH | 150.00 | | | | | | | | | -23.7 | -19.4 | .3 | -.3 | -1.7 |
| | | -12.7 | -4.9 | 2800 | 2082 | -4.5 | -2.4 | 43 | -111 | | | | | |
| MECH | 162.00 | | | | | | | | | -11.0 | -14.5 | .1 | -.1 | -.0 |
| | | -11.0 | -14.5 | 2031 | 1223 | -5.4 | -11.8 | 1 | -1 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 210 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -24.9 | -49.3 | 8.1 | -12.0 | -12.9 |
| | | 34.0 | 12.1 | 3603 | 4785 | 9.4 | 2.5 | -13 | 36 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -58.9 | -61.3 | 7.2 | -11.3 | -11.5 |
| | | 20.4 | 16.3 | 2755 | 3659 | 7.4 | 4.5 | -22 | 27 | | | | | |
| 4TH | 30.00 | | | | | | | | | -79.3 | -77.6 | 6.3 | -10.4 | -10.6 |
| | | 27.5 | 11.6 | 2892 | 3378 | 9.5 | 3.4 | -8 | 19 | | | | | |
| 5TH | 42.00 | | | | | | | | | -106.8 | -89.2 | 5.3 | -9.3 | -10.0 |
| | | 26.7 | -8.8 | 2940 | 3378 | 9.1 | -2.6 | -8 | -23 | | | | | |
| 6TH | 54.00 | | | | | | | | | -133.5 | -80.4 | 4.3 | -7.8 | -10.6 |
| | | -11.1 | -20.8 | 2921 | 2450 | -3.8 | -8.5 | 13 | -7 | | | | | |
| 7TH | 66.00 | | | | | | | | | -122.4 | -59.6 | 3.4 | -6.3 | -10.3 |
| | | -14.8 | -7.8 | 2800 | 2082 | -5.3 | -3.7 | 31 | -60 | | | | | |
| 8TH | 78.00 | | | | | | | | | -107.6 | -51.9 | 2.8 | -4.9 | -9.1 |
| | | -15.1 | -6.7 | 2800 | 2082 | -5.4 | -3.2 | 30 | -68 | | | | | |
| 9TH | 90.00 | | | | | | | | | -92.5 | -45.2 | 2.2 | -3.7 | -7.9 |
| | | -15.4 | -5.6 | 2800 | 2082 | -5.5 | -2.7 | 28 | -77 | | | | | |
| 10TH | 102.00 | | | | | | | | | -77.0 | -39.6 | 1.7 | -2.7 | -6.6 |
| | | -14.5 | -5.5 | 2800 | 2082 | -5.2 | -2.6 | 30 | -80 | | | | | |
| 11TH | 114.00 | | | | | | | | | -62.5 | -34.1 | 1.2 | -1.9 | -5.3 |
| | | -13.4 | -5.6 | 2800 | 2082 | -4.8 | -2.7 | 34 | -82 | | | | | |
| 12TH | 126.00 | | | | | | | | | -49.1 | -28.6 | .9 | -1.2 | -4.0 |
| | | -12.4 | -5.6 | 2800 | 2082 | -4.4 | -2.7 | 39 | -85 | | | | | |
| 13TH | 138.00 | | | | | | | | | -36.8 | -23.0 | .6 | -.7 | -2.7 |
| | | -12.5 | -4.6 | 2800 | 2082 | -4.5 | -2.2 | 35 | -95 | | | | | |
| 14TH | 150.00 | | | | | | | | | -24.3 | -18.4 | .3 | -.3 | -1.3 |
| | | -12.7 | -3.5 | 2800 | 2082 | -4.5 | -1.7 | 29 | -104 | | | | | |
| MECH | 162.00 | | | | | | | | | -11.6 | -14.9 | .1 | -.1 | .1 |
| | | -11.6 | -14.9 | 2031 | 1223 | -5.7 | -12.1 | -3 | 2 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 66.5 | 40.1 | 1.9 | -3.4 | -9.7 |
| | | 36.9 | 24.1 | 3603 | 4785 | 10.2 | 5.0 | -20 | 30 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 29.6 | 16.0 | 2.3 | -4.2 | -8.1 |
| | | 22.3 | 23.7 | 2755 | 3659 | 8.1 | 6.5 | -22 | 21 | | | | | |
| 4TH | 30.00 | | | | | | | | | 7.3 | -7.7 | 2.4 | -4.4 | -7.1 |
| | | 31.4 | 20.0 | 2892 | 3378 | 10.9 | 5.9 | -10 | 16 | | | | | |
| 5TH | 42.00 | | | | | | | | | -24.1 | -27.6 | 2.2 | -4.3 | -6.4 |
| | | 33.1 | 2.2 | 2940 | 3378 | 11.3 | .6 | 1 | -13 | | | | | |
| 6TH | 54.00 | | | | | | | | | -57.3 | -29.8 | 1.8 | -3.8 | -6.9 |
| | | -2.0 | -13.0 | 2921 | 2450 | -.7 | -5.3 | 8 | -1 | | | | | |
| 7TH | 66.00 | | | | | | | | | -55.3 | -16.8 | 1.5 | -3.2 | -6.8 |
| | | -5.7 | -1.8 | 2800 | 2082 | -2.0 | -.9 | 40 | -124 | | | | | |
| 8TH | 78.00 | | | | | | | | | -49.6 | -15.0 | 1.4 | -2.5 | -6.0 |
| | | -6.1 | -.6 | 2800 | 2082 | -2.2 | -.3 | 15 | -152 | | | | | |
| 9TH | 90.00 | | | | | | | | | -43.6 | -14.4 | 1.2 | -2.0 | -5.1 |
| | | -6.5 | .6 | 2800 | 2082 | -2.3 | .3 | -16 | -167 | | | | | |
| 10TH | 102.00 | | | | | | | | | -37.1 | -15.0 | 1.0 | -1.5 | -4.0 |
| | | -5.8 | .4 | 2800 | 2082 | -2.1 | .2 | -11 | -172 | | | | | |
| 11TH | 114.00 | | | | | | | | | -31.3 | -15.4 | .8 | -1.1 | -3.0 |
| | | -5.0 | -.1 | 2800 | 2082 | -1.8 | -.0 | 2 | -176 | | | | | |
| 12TH | 126.00 | | | | | | | | | -26.2 | -15.3 | .6 | -.7 | -2.1 |
| | | -4.3 | -.5 | 2800 | 2082 | -1.6 | -.2 | 19 | -175 | | | | | |
| 13TH | 138.00 | | | | | | | | | -21.9 | -14.8 | .5 | -.5 | -1.3 |
| | | -5.6 | -.3 | 2800 | 2082 | -2.0 | -.1 | 7 | -139 | | | | | |
| 14TH | 150.00 | | | | | | | | | -16.3 | -14.6 | .3 | -.2 | -.5 |
| | | -6.8 | -.1 | 2800 | 2082 | -2.4 | -.1 | 2 | -116 | | | | | |
| MECH | 162.00 | | | | | | | | | -9.5 | -14.4 | .1 | -.1 | .3 |
| | | -9.5 | -14.4 | 2031 | 1223 | -4.7 | -11.8 | -13 | 8 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 56.5 | 44.4 | 2.2 | -3.0 | -7.2 |
| | | 23.4 | 27.0 | 3603 | 4785 | 8.2 | 5.7 | -26 | 29 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 27.1 | 17.3 | 2.7 | -3.7 | -5.7 |
| | | 17.4 | 24.0 | 2755 | 3659 | 6.3 | 6.6 | -26 | 19 | | | | | |
| 4TH | 30.00 | | | | | | | | | 9.7 | -6.7 | 2.8 | -3.9 | -4.7 |
| | | 26.5 | 21.3 | 2892 | 3378 | 9.2 | 6.3 | -14 | 17 | | | | | |
| 5TH | 42.00 | | | | | | | | | -16.7 | -27.9 | 2.5 | -3.9 | -4.0 |
| | | 30.4 | 5.9 | 2940 | 3378 | 10.4 | 1.7 | 1 | -5 | | | | | |
| 6TH | 54.00 | | | | | | | | | -47.2 | -33.8 | 2.2 | -3.5 | -4.1 |
| | | .6 | -11.3 | 2921 | 2450 | .2 | -4.6 | -13 | -1 | | | | | |
| 7TH | 66.00 | | | | | | | | | -47.8 | -22.6 | 1.8 | -2.9 | -4.3 |
| | | -2.2 | -2.1 | 2800 | 2082 | -.8 | -1.0 | 77 | -79 | | | | | |
| 8TH | 78.00 | | | | | | | | | -45.6 | -20.4 | 1.6 | -2.4 | -3.9 |
| | | -4.0 | -1.1 | 2800 | 2082 | -1.4 | -.6 | 36 | -124 | | | | | |
| 9TH | 90.00 | | | | | | | | | -41.7 | -19.3 | 1.3 | -1.9 | -3.4 |
| | | -5.8 | -.2 | 2800 | 2082 | -2.1 | -.1 | 4 | -127 | | | | | |
| 10TH | 102.00 | | | | | | | | | -35.9 | -19.1 | 1.1 | -1.4 | -2.7 |
| | | -5.6 | -.4 | 2800 | 2082 | -2.0 | -.2 | 10 | -122 | | | | | |
| 11TH | 114.00 | | | | | | | | | -30.3 | -18.7 | .9 | -1.0 | -2.0 |
| | | -5.2 | -.9 | 2800 | 2082 | -1.9 | -.4 | 20 | -115 | | | | | |
| 12TH | 126.00 | | | | | | | | | -25.0 | -17.8 | .7 | -.7 | -1.3 |
| | | -4.9 | -1.3 | 2800 | 2082 | -1.8 | -.6 | 28 | -104 | | | | | |
| 13TH | 138.00 | | | | | | | | | -20.1 | -16.5 | .5 | -.4 | -.8 |
| | | -5.8 | -1.4 | 2800 | 2082 | -2.1 | -.7 | 21 | -86 | | | | | |
| 14TH | 150.00 | | | | | | | | | -14.3 | -15.0 | .3 | -.2 | -.3 |
| | | -6.7 | -1.5 | 2800 | 2082 | -2.4 | -.7 | 17 | -73 | | | | | |
| MECH | 162.00 | | | | | | | | | -7.6 | -13.5 | .1 | -.1 | .3 |
| | | -7.6 | -13.5 | 2031 | 1223 | -3.7 | -11.0 | -15 | 8 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 35.6 | 79.6 | -2.0 | -3.1 | -6.6 |
| | | 22.7 | 27.5 | 3603 | 4785 | 6.3 | 5.8 | -28 | 23 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 13.0 | 52.1 | -.9 | -3.5 | -5.3 |
| | | 12.6 | 23.2 | 2755 | 3659 | 4.6 | 6.3 | -26 | 14 | | | | | |
| 4TH | 30.00 | | | | | | | | | .3 | 28.8 | -.4 | -3.6 | -4.5 |
| | | 20.5 | 20.0 | 2892 | 3378 | 7.1 | 5.9 | -17 | 18 | | | | | |
| 5TH | 42.00 | | | | | | | | | -20.1 | 8.8 | -.1 | -3.5 | -3.8 |
| | | 25.0 | 8.8 | 2940 | 3378 | 8.5 | 2.6 | -1 | 2 | | | | | |
| 6TH | 54.00 | | | | | | | | | -45.1 | .1 | -.1 | -3.1 | -3.8 |
| | | -.9 | -7.3 | 2921 | 2450 | -.3 | -3.0 | -1 | 0 | | | | | |
| 7TH | 66.00 | | | | | | | | | -44.2 | 7.4 | -.0 | -2.5 | -3.8 |
| | | -2.9 | .2 | 2800 | 2082 | -1.0 | .1 | -9 | -115 | | | | | |
| 8TH | 78.00 | | | | | | | | | -41.3 | 7.2 | .0 | -2.0 | -3.4 |
| | | -4.1 | 1.1 | 2800 | 2082 | -1.5 | .6 | -30 | -106 | | | | | |
| 9TH | 90.00 | | | | | | | | | -37.2 | 6.1 | .1 | -1.6 | -3.0 |
| | | -5.3 | 2.1 | 2800 | 2082 | -1.9 | 1.0 | -39 | -99 | | | | | |
| 10TH | 102.00 | | | | | | | | | -32.0 | 4.0 | .2 | -1.1 | -2.4 |
| | | -5.3 | 2.2 | 2800 | 2082 | -1.9 | 1.0 | -38 | -93 | | | | | |
| 11TH | 114.00 | | | | | | | | | -26.7 | 1.8 | .2 | -.8 | -1.8 |
| | | -5.1 | 2.1 | 2800 | 2082 | -1.8 | 1.0 | -36 | -87 | | | | | |
| 12TH | 126.00 | | | | | | | | | -21.6 | -.3 | .2 | -.5 | -1.3 |
| | | -5.0 | 2.1 | 2800 | 2082 | -1.8 | 1.0 | -33 | -79 | | | | | |
| 13TH | 138.00 | | | | | | | | | -16.5 | -2.4 | .2 | -.3 | -.8 |
| | | -5.9 | 3.1 | 2800 | 2082 | -2.1 | 1.5 | -33 | -64 | | | | | |
| 14TH | 150.00 | | | | | | | | | -10.6 | -5.4 | .2 | -.1 | -.3 |
| | | -6.8 | 4.0 | 2800 | 2082 | -2.4 | 1.9 | -31 | -53 | | | | | |
| MECH | 162.00 | | | | | | | | | -3.8 | -9.4 | .1 | -.0 | .2 |
| | | -3.8 | -9.4 | 2031 | 1223 | -1.9 | -7.7 | -14 | 6 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 250 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 35.4 | 114.9 | -6.6 | -1.4 | -6.2 |
| | | 18.6 | 24.0 | 3603 | 4785 | 5.2 | 5.0 | -26 | 20 | | | | | |
| MEZZ | 17.00 | | | | | | | | | 16.8 | 90.9 | -4.9 | -1.9 | -5.2 |
| | | 10.0 | 20.4 | 2755 | 3659 | 3.6 | 5.6 | -22 | 11 | | | | | |
| 4TH | 30.00 | | | | | | | | | 6.8 | 70.5 | -3.8 | -2.0 | -4.6 |
| | | 15.7 | 18.4 | 2892 | 3378 | 5.4 | 5.4 | -17 | 15 | | | | | |
| 5TH | 42.00 | | | | | | | | | -9.0 | 52.2 | -3.1 | -2.0 | -4.0 |
| | | 19.1 | 11.5 | 2940 | 3378 | 6.5 | 3.4 | -2 | 4 | | | | | |
| 6TH | 54.00 | | | | | | | | | -28.1 | 40.7 | -2.5 | -1.8 | -3.9 |
| | | -1.2 | -1.3 | 2921 | 2450 | -.4 | -.5 | 75 | -72 | | | | | |
| 7TH | 66.00 | | | | | | | | | -26.8 | 42.0 | -2.0 | -1.4 | -3.7 |
| | | -2.3 | 4.3 | 2800 | 2082 | -.8 | 2.1 | -80 | -43 | | | | | |
| 8TH | 78.00 | | | | | | | | | -24.5 | 37.6 | -1.6 | -1.1 | -3.3 |
| | | -2.8 | 4.9 | 2800 | 2082 | -1.0 | 2.4 | -76 | -43 | | | | | |
| 9TH | 90.00 | | | | | | | | | -21.7 | 32.7 | -1.1 | -.9 | -2.8 |
| | | -3.2 | 5.5 | 2800 | 2082 | -1.2 | 2.7 | -73 | -43 | | | | | |
| 10TH | 102.00 | | | | | | | | | -18.5 | 27.2 | -.8 | -.6 | -2.3 |
| | | -3.2 | 5.4 | 2800 | 2082 | -1.1 | 2.6 | -65 | -39 | | | | | |
| 11TH | 114.00 | | | | | | | | | -15.2 | 21.8 | -.5 | -.4 | -1.8 |
| | | -3.1 | 5.2 | 2800 | 2082 | -1.1 | 2.5 | -56 | -34 | | | | | |
| 12TH | 126.00 | | | | | | | | | -12.1 | 16.6 | -.2 | -.3 | -1.4 |
| | | -3.1 | 5.1 | 2800 | 2082 | -1.1 | 2.4 | -48 | -29 | | | | | |
| 13TH | 138.00 | | | | | | | | | -9.1 | 11.5 | -.1 | -.1 | -1.1 |
| | | -3.8 | 6.7 | 2800 | 2082 | -1.4 | 3.2 | -53 | -30 | | | | | |
| 14TH | 150.00 | | | | | | | | | -5.3 | 4.8 | .0 | -.0 | -.6 |
| | | -4.6 | 8.3 | 2800 | 2082 | -1.6 | 4.0 | -56 | -31 | | | | | |
| MECH | 162.00 | | | | | | | | | -.7 | -3.5 | .0 | -.0 | .0 |
| | | -.7 | -3.5 | 2031 | 1223 | -.3 | -2.9 | -4 | 1 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 12.6 | 122.9 | -8.9 | -2.2 | -5.2 |
| | | 13.2 | 17.8 | 3603 | 4785 | 3.7 | 3.7 | -24 | 18 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -.5 | 105.1 | -6.9 | -2.3 | -4.5 |
| | | 7.2 | 15.5 | 2755 | 3659 | 2.6 | 4.2 | -18 | 8 | | | | | |
| 4TH | 30.00 | | | | | | | | | -7.7 | 89.5 | -5.7 | -2.3 | -4.2 |
| | | 11.8 | 15.0 | 2892 | 3378 | 4.1 | 4.5 | -11 | 9 | | | | | |
| 5TH | 42.00 | | | | | | | | | -19.5 | 74.5 | -4.7 | -2.1 | -3.9 |
| | | 14.2 | 11.6 | 2940 | 3378 | 4.8 | 3.4 | 3 | -3 | | | | | |
| 6TH | 54.00 | | | | | | | | | -33.7 | 62.9 | -3.8 | -1.8 | -4.0 |
| | | -2.5 | 2.5 | 2921 | 2450 | -.8 | 1.0 | -29 | -28 | | | | | |
| 7TH | 66.00 | | | | | | | | | -31.2 | 60.4 | -3.1 | -1.4 | -3.9 |
| | | -3.9 | 6.6 | 2800 | 2082 | -1.4 | 3.2 | -46 | -27 | | | | | |
| 8TH | 78.00 | | | | | | | | | -27.3 | 53.8 | -2.4 | -1.0 | -3.4 |
| | | -4.2 | 6.8 | 2800 | 2082 | -1.5 | 3.3 | -47 | -29 | | | | | |
| 9TH | 90.00 | | | | | | | | | -23.0 | 47.0 | -1.8 | -.7 | -3.0 |
| | | -4.5 | 7.0 | 2800 | 2082 | -1.6 | 3.4 | -49 | -31 | | | | | |
| 10TH | 102.00 | | | | | | | | | -18.5 | 40.0 | -1.3 | -.5 | -2.5 |
| | | -4.3 | 7.1 | 2800 | 2082 | -1.5 | 3.4 | -46 | -28 | | | | | |
| 11TH | 114.00 | | | | | | | | | -14.2 | 32.9 | -.9 | -.3 | -2.1 |
| | | -4.0 | 7.1 | 2800 | 2082 | -1.4 | 3.4 | -44 | -24 | | | | | |
| 12TH | 126.00 | | | | | | | | | -10.2 | 25.7 | -.5 | -.2 | -1.7 |
| | | -3.7 | 7.2 | 2800 | 2082 | -1.3 | 3.5 | -41 | -21 | | | | | |
| 13TH | 138.00 | | | | | | | | | -6.6 | 18.5 | -.2 | -.0 | -1.3 |
| | | -3.9 | 8.3 | 2800 | 2082 | -1.4 | 4.0 | -53 | -25 | | | | | |
| 14TH | 150.00 | | | | | | | | | -2.6 | 10.2 | -.1 | .0 | -.7 |
| | | -4.2 | 9.4 | 2800 | 2082 | -1.5 | 4.5 | -62 | -28 | | | | | |
| MECH | 162.00 | | | | | | | | | 1.6 | .8 | -.0 | .0 | -.1 |
| | | 1.6 | .8 | 2031 | 1223 | .8 | .7 | -13 | 25 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 270 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -.1 | 139.5 | -11.3 | -2.5 | -5.3 |
| | | 8.1 | 15.6 | 3603 | 4785 | 2.2 | 3.3 | -28 | 15 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -8.2 | 123.9 | -9.1 | -2.5 | -4.7 |
| | | 4.5 | 9.4 | 2755 | 3659 | 1.6 | 2.6 | -18 | 9 | | | | | |
| 4TH | 30.00 | | | | | | | | | -12.6 | 114.5 | -7.5 | -2.3 | -4.5 |
| | | 7.8 | 10.8 | 2892 | 3378 | 2.7 | 3.2 | -3 | 2 | | | | | |
| 5TH | 42.00 | | | | | | | | | -20.5 | 103.7 | -6.2 | -2.1 | -4.5 |
| | | 9.3 | 12.7 | 2940 | 3378 | 3.1 | 3.8 | 11 | -8 | | | | | |
| 6TH | 54.00 | | | | | | | | | -29.7 | 90.9 | -5.0 | -1.8 | -4.7 |
| | | -1.4 | 8.0 | 2921 | 2450 | -.5 | 3.3 | -7 | -1 | | | | | |
| 7TH | 66.00 | | | | | | | | | -28.3 | 82.9 | -4.0 | -1.5 | -4.6 |
| | | -2.4 | 10.9 | 2800 | 2082 | -.8 | 5.2 | -31 | -7 | | | | | |
| 8TH | 78.00 | | | | | | | | | -26.0 | 72.0 | -3.1 | -1.2 | -4.3 |
| | | -2.7 | 10.7 | 2800 | 2082 | -1.0 | 5.1 | -34 | -9 | | | | | |
| 9TH | 90.00 | | | | | | | | | -23.2 | 61.3 | -2.3 | -.9 | -3.9 |
| | | -3.1 | 10.5 | 2800 | 2082 | -1.1 | 5.1 | -37 | -11 | | | | | |
| 10TH | 102.00 | | | | | | | | | -20.2 | 50.8 | -1.6 | -.6 | -3.5 |
| | | -3.5 | 10.2 | 2800 | 2082 | -1.3 | 4.9 | -42 | -15 | | | | | |
| 11TH | 114.00 | | | | | | | | | -16.6 | 40.6 | -1.0 | -.4 | -3.0 |
| | | -4.0 | 9.9 | 2800 | 2082 | -1.4 | 4.7 | -48 | -19 | | | | | |
| 12TH | 126.00 | | | | | | | | | -12.7 | 30.7 | -.6 | -.2 | -2.4 |
| | | -4.4 | 9.5 | 2800 | 2082 | -1.6 | 4.6 | -53 | -24 | | | | | |
| 13TH | 138.00 | | | | | | | | | -8.3 | 21.2 | -.3 | -.1 | -1.8 |
| | | -4.5 | 9.5 | 2800 | 2082 | -1.6 | 4.5 | -66 | -31 | | | | | |
| 14TH | 150.00 | | | | | | | | | -3.8 | 11.7 | -.1 | -.0 | -1.0 |
| | | -4.6 | 9.4 | 2800 | 2082 | -1.7 | 4.5 | -78 | -39 | | | | | |
| MECH | 162.00 | | | | | | | | | .8 | 2.3 | -.0 | .0 | -.1 |
| | | .8 | 2.3 | 2031 | 1223 | .4 | 1.9 | -52 | 18 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -148.6 | 85.0 | -7.2 | -15.4 | -5.7 |
| | | -5.3 | 5.2 | 3603 | 4785 | -1.5 | 1.1 | -26 | -26 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -143.3 | 79.8 | -5.8 | -12.9 | -5.5 |
| | | -5.2 | 2.5 | 2755 | 3659 | -1.9 | .7 | -10 | -21 | | | | | |
| 4TH | 30.00 | | | | | | | | | -138.2 | 77.3 | -4.8 | -11.1 | -5.3 |
| | | -2.9 | 4.3 | 2892 | 3378 | -1.0 | 1.3 | 19 | 13 | | | | | |
| 5TH | 42.00 | | | | | | | | | -135.3 | 73.1 | -3.9 | -9.4 | -5.4 |
| | | -4.4 | 9.3 | 2940 | 3378 | -1.5 | 2.8 | 22 | 10 | | | | | |
| 6TH | 54.00 | | | | | | | | | -130.9 | 63.7 | -3.0 | -7.8 | -5.7 |
| | | -11.0 | 7.6 | 2921 | 2450 | -3.8 | 3.1 | -7 | -10 | | | | | |
| 7TH | 66.00 | | | | | | | | | -119.9 | 56.1 | -2.3 | -6.3 | -5.5 |
| | | -11.9 | 9.6 | 2800 | 2082 | -4.3 | 4.6 | -17 | -22 | | | | | |
| 8TH | 78.00 | | | | | | | | | -108.0 | 46.5 | -1.7 | -5.0 | -5.1 |
| | | -12.8 | 8.9 | 2800 | 2082 | -4.6 | 4.3 | -17 | -25 | | | | | |
| 9TH | 90.00 | | | | | | | | | -95.2 | 37.6 | -1.2 | -3.7 | -4.6 |
| | | -13.6 | 8.2 | 2800 | 2082 | -4.8 | 3.9 | -17 | -28 | | | | | |
| 10TH | 102.00 | | | | | | | | | -81.7 | 29.5 | -.8 | -2.7 | -4.1 |
| | | -14.4 | 7.3 | 2800 | 2082 | -5.1 | 3.5 | -18 | -35 | | | | | |
| 11TH | 114.00 | | | | | | | | | -67.3 | 22.1 | -.5 | -1.8 | -3.5 |
| | | -15.2 | 6.4 | 2800 | 2082 | -5.4 | 3.1 | -18 | -41 | | | | | |
| 12TH | 126.00 | | | | | | | | | -52.0 | 15.7 | -.3 | -1.1 | -2.7 |
| | | -16.0 | 5.6 | 2800 | 2082 | -5.7 | 2.7 | -17 | -47 | | | | | |
| 13TH | 138.00 | | | | | | | | | -36.0 | 10.1 | -.1 | -.5 | -1.9 |
| | | -15.4 | 5.4 | 2800 | 2082 | -5.5 | 2.6 | -18 | -52 | | | | | |
| 14TH | 150.00 | | | | | | | | | -20.6 | 4.7 | -.0 | -.2 | -1.0 |
| | | -14.8 | 5.2 | 2800 | 2082 | -5.3 | 2.5 | -20 | -57 | | | | | |
| MECH | 162.00 | | | | | | | | | -5.8 | -.5 | .0 | -.0 | -.0 |
| | | -5.8 | -.5 | 2031 | 1223 | -2.8 | -.4 | 1 | -6 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 290 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -324.5 | -234.5 | 23.1 | -31.8 | -13.4 |
| | | -19.4 | -5.5 | 3603 | 4785 | -5.4 | -1.2 | 15 | -53 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -305.1 | -229.0 | 19.2 | -26.5 | -12.3 |
| | | -13.8 | -6.8 | 2755 | 3659 | -5.0 | -1.9 | 22 | -44 | | | | | |
| 4TH | 30.00 | | | | | | | | | -291.2 | -222.1 | 16.2 | -22.6 | -11.5 |
| | | -5.7 | -10.3 | 2892 | 3378 | -2.0 | -3.0 | 16 | -9 | | | | | |
| 5TH | 42.00 | | | | | | | | | -285.6 | -211.9 | 13.6 | -19.2 | -11.3 |
| | | -8.7 | -17.1 | 2940 | 3378 | -3.0 | -5.1 | -7 | 4 | | | | | |
| 6TH | 54.00 | | | | | | | | | -276.9 | -194.8 | 11.2 | -15.8 | -11.5 |
| | | -25.0 | -22.7 | 2921 | 2450 | -8.6 | -9.2 | 18 | -19 | | | | | |
| 7TH | 66.00 | | | | | | | | | -251.9 | -172.1 | 9.0 | -12.6 | -10.6 |
| | | -28.2 | -18.5 | 2800 | 2082 | -10.1 | -8.9 | 23 | -35 | | | | | |
| 8TH | 78.00 | | | | | | | | | -223.7 | -153.6 | 7.0 | -9.8 | -9.2 |
| | | -29.4 | -18.9 | 2800 | 2082 | -10.5 | -9.1 | 22 | -34 | | | | | |
| 9TH | 90.00 | | | | | | | | | -194.3 | -134.7 | 5.3 | -7.2 | -7.8 |
| | | -30.6 | -19.2 | 2800 | 2082 | -10.9 | -9.2 | 22 | -34 | | | | | |
| 10TH | 102.00 | | | | | | | | | -163.7 | -115.5 | 3.8 | -5.1 | -6.3 |
| | | -31.9 | -20.6 | 2800 | 2082 | -11.4 | -9.9 | 21 | -32 | | | | | |
| 11TH | 114.00 | | | | | | | | | -131.8 | -94.9 | 2.5 | -3.3 | -4.9 |
| | | -33.2 | -22.1 | 2800 | 2082 | -11.9 | -10.6 | 20 | -30 | | | | | |
| 12TH | 126.00 | | | | | | | | | -98.6 | -72.8 | 1.5 | -1.9 | -3.4 |
| | | -34.2 | -23.3 | 2800 | 2082 | -12.2 | -11.2 | 19 | -28 | | | | | |
| 13TH | 138.00 | | | | | | | | | -64.4 | -49.5 | .8 | -1.0 | -2.0 |
| | | -29.0 | -20.3 | 2800 | 2082 | -10.3 | -9.8 | 20 | -29 | | | | | |
| 14TH | 150.00 | | | | | | | | | -35.4 | -29.2 | .3 | -.4 | -.8 |
| | | -23.8 | -17.3 | 2800 | 2082 | -8.5 | -8.3 | 22 | -30 | | | | | |
| MECH | 162.00 | | | | | | | | | -11.6 | -11.9 | .1 | -.1 | .3 |
| | | -11.6 | -11.9 | 2031 | 1223 | -5.7 | -9.7 | -14 | 13 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 300 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -458.2 | -498.5 | 45.0 | -43.3 | -12.8 |
| | | -29.6 | -22.7 | 3603 | 4785 | -8.2 | -4.7 | 12 | -15 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -428.6 | -475.7 | 36.7 | -35.8 | -12.1 |
| | | -21.4 | -19.5 | 2755 | 3659 | -7.8 | -5.3 | 13 | -14 | | | | | |
| 4TH | 30.00 | | | | | | | | | -407.2 | -456.3 | 30.7 | -30.4 | -11.6 |
| | | -14.9 | -26.7 | 2892 | 3378 | -5.1 | -7.9 | 3 | -1 | | | | | |
| 5TH | 42.00 | | | | | | | | | -392.3 | -429.6 | 25.3 | -25.6 | -11.5 |
| | | -16.9 | -42.2 | 2940 | 3378 | -5.8 | -12.5 | -9 | 4 | | | | | |
| 6TH | 54.00 | | | | | | | | | -375.4 | -387.4 | 20.4 | -21.0 | -11.9 |
| | | -37.5 | -48.6 | 2921 | 2450 | -12.8 | -19.8 | 12 | -9 | | | | | |
| 7TH | 66.00 | | | | | | | | | -337.9 | -338.9 | 16.1 | -16.7 | -11.0 |
| | | -40.8 | -42.8 | 2800 | 2082 | -14.6 | -20.6 | 18 | -18 | | | | | |
| 8TH | 78.00 | | | | | | | | | -297.2 | -296.1 | 12.3 | -12.9 | -9.5 |
| | | -41.0 | -43.4 | 2800 | 2082 | -14.6 | -20.9 | 19 | -18 | | | | | |
| 9TH | 90.00 | | | | | | | | | -256.2 | -252.6 | 9.0 | -9.6 | -8.0 |
| | | -41.2 | -44.1 | 2800 | 2082 | -14.7 | -21.2 | 19 | -18 | | | | | |
| 10TH | 102.00 | | | | | | | | | -215.0 | -208.6 | 6.2 | -6.7 | -6.4 |
| | | -42.4 | -44.2 | 2800 | 2082 | -15.1 | -21.2 | 18 | -17 | | | | | |
| 11TH | 114.00 | | | | | | | | | -172.7 | -164.3 | 4.0 | -4.4 | -4.8 |
| | | -43.7 | -44.3 | 2800 | 2082 | -15.6 | -21.3 | 17 | -17 | | | | | |
| 12TH | 126.00 | | | | | | | | | -128.9 | -120.0 | 2.3 | -2.6 | -3.3 |
| | | -44.5 | -43.9 | 2800 | 2082 | -15.9 | -21.1 | 16 | -16 | | | | | |
| 13TH | 138.00 | | | | | | | | | -84.4 | -76.1 | 1.1 | -1.3 | -1.9 |
| | | -37.0 | -36.0 | 2800 | 2082 | -13.2 | -17.3 | 17 | -17 | | | | | |
| 14TH | 150.00 | | | | | | | | | -47.4 | -40.1 | .4 | -.5 | -.7 |
| | | -29.5 | -28.1 | 2800 | 2082 | -10.6 | -13.5 | 18 | -19 | | | | | |
| MECH | 162.00 | | | | | | | | | -17.8 | -12.0 | .1 | -.1 | .4 |
| | | -17.8 | -12.0 | 2031 | 1223 | -8.8 | -9.8 | -11 | 16 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 310 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -619.5 | -560.1 | 49.7 | -56.3 | -14.0 |
| | | -45.4 | -33.2 | 3603 | 4785 | -12.6 | -6.9 | 3 | -4 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -574.1 | -526.9 | 40.5 | -46.2 | -13.7 |
| | | -33.4 | -27.1 | 2755 | 3659 | -12.1 | -7.4 | 4 | -5 | | | | | |
| 4TH | 30.00 | | | | | | | | | -540.7 | -499.7 | 33.8 | -38.9 | -13.5 |
| | | -28.6 | -31.8 | 2892 | 3378 | -9.9 | -9.4 | -2 | 2 | | | | | |
| 5TH | 42.00 | | | | | | | | | -512.1 | -467.9 | 28.0 | -32.6 | -13.6 |
| | | -29.4 | -42.8 | 2940 | 3378 | -10.0 | -12.7 | -9 | 6 | | | | | |
| 6TH | 54.00 | | | | | | | | | -482.7 | -425.1 | 22.6 | -26.6 | -14.2 |
| | | -50.0 | -52.4 | 2921 | 2450 | -17.1 | -21.4 | 10 | -10 | | | | | |
| 7TH | 66.00 | | | | | | | | | -432.7 | -372.7 | 17.9 | -21.1 | -13.1 |
| | | -53.8 | -46.8 | 2800 | 2082 | -19.2 | -22.5 | 16 | -18 | | | | | |
| 8TH | 78.00 | | | | | | | | | -378.9 | -325.9 | 13.7 | -16.3 | -11.4 |
| | | -54.0 | -47.3 | 2800 | 2082 | -19.3 | -22.7 | 16 | -19 | | | | | |
| 9TH | 90.00 | | | | | | | | | -324.9 | -278.6 | 10.0 | -12.0 | -9.6 |
| | | -54.2 | -47.9 | 2800 | 2082 | -19.4 | -23.0 | 17 | -19 | | | | | |
| 10TH | 102.00 | | | | | | | | | -270.7 | -230.7 | 7.0 | -8.5 | -7.8 |
| | | -54.5 | -48.1 | 2800 | 2082 | -19.5 | -23.1 | 16 | -19 | | | | | |
| 11TH | 114.00 | | | | | | | | | -216.2 | -182.6 | 4.5 | -5.5 | -6.0 |
| | | -54.7 | -48.2 | 2800 | 2082 | -19.6 | -23.2 | 16 | -18 | | | | | |
| 12TH | 126.00 | | | | | | | | | -161.5 | -134.4 | 2.6 | -3.3 | -4.3 |
| | | -54.5 | -47.8 | 2800 | 2082 | -19.5 | -23.0 | 16 | -18 | | | | | |
| 13TH | 138.00 | | | | | | | | | -107.0 | -86.5 | 1.3 | -1.7 | -2.5 |
| | | -46.5 | -39.9 | 2800 | 2082 | -16.6 | -19.2 | 16 | -19 | | | | | |
| 14TH | 150.00 | | | | | | | | | -60.5 | -46.6 | .5 | -.7 | -1.0 |
| | | -38.6 | -32.0 | 2800 | 2082 | -13.8 | -15.4 | 16 | -20 | | | | | |
| MECH | 162.00 | | | | | | | | | -21.9 | -14.5 | .1 | -.2 | .3 |
| | | -21.9 | -14.5 | 2031 | 1223 | -10.8 | -11.9 | -6 | 10 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER
WIND DIRECTION 320 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -810.0 | -578.6 | 52.0 | -73.9 | -16.8 |
| | | -56.0 | -32.4 | 3603 | 4785 | -15.6 | -6.8 | 0 | -0 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -753.9 | -546.1 | 42.4 | -60.6 | -16.8 |
| | | -42.2 | -26.4 | 2755 | 3659 | -15.3 | -7.2 | 0 | -0 | | | | | |
| 4TH | 30.00 | | | | | | | | | -711.7 | -519.7 | 35.5 | -51.1 | -16.8 |
| | | -39.7 | -32.5 | 2892 | 3378 | -13.7 | -9.6 | -3 | 4 | | | | | |
| 5TH | 42.00 | | | | | | | | | -672.0 | -487.2 | 29.4 | -42.8 | -17.1 |
| | | -39.1 | -44.1 | 2940 | 3378 | -13.3 | -13.1 | -9 | 8 | | | | | |
| 6TH | 54.00 | | | | | | | | | -632.9 | -443.1 | 23.8 | -35.0 | -17.8 |
| | | -63.6 | -54.6 | 2921 | 2450 | -21.8 | -22.3 | 10 | -12 | | | | | |
| 7TH | 66.00 | | | | | | | | | -569.3 | -388.5 | 18.9 | -27.7 | -16.4 |
| | | -70.0 | -47.9 | 2800 | 2082 | -25.0 | -23.0 | 14 | -21 | | | | | |
| 8TH | 78.00 | | | | | | | | | -499.3 | -340.6 | 14.5 | -21.3 | -14.3 |
| | | -70.8 | -48.8 | 2800 | 2082 | -25.3 | -23.4 | 14 | -21 | | | | | |
| 9TH | 90.00 | | | | | | | | | -428.4 | -291.8 | 10.7 | -15.8 | -12.1 |
| | | -71.6 | -49.6 | 2800 | 2082 | -25.6 | -23.8 | 14 | -20 | | | | | |
| 10TH | 102.00 | | | | | | | | | -356.8 | -242.2 | 7.5 | -11.1 | -10.0 |
| | | -72.2 | -49.7 | 2800 | 2082 | -25.8 | -23.9 | 14 | -21 | | | | | |
| 11TH | 114.00 | | | | | | | | | -284.7 | -192.5 | 4.9 | -7.2 | -7.8 |
| | | -72.7 | -49.6 | 2800 | 2082 | -26.0 | -23.8 | 14 | -21 | | | | | |
| 12TH | 126.00 | | | | | | | | | -212.0 | -142.9 | 2.9 | -4.2 | -5.6 |
| | | -72.5 | -49.1 | 2800 | 2082 | -25.9 | -23.6 | 14 | -21 | | | | | |
| 13TH | 138.00 | | | | | | | | | -139.5 | -93.8 | 1.4 | -2.1 | -3.3 |
| | | -62.0 | -41.3 | 2800 | 2082 | -22.1 | -19.9 | 14 | -22 | | | | | |
| 14TH | 150.00 | | | | | | | | | -77.5 | -52.4 | .6 | -.8 | -1.4 |
| | | -51.5 | -33.6 | 2800 | 2082 | -18.4 | -16.1 | 15 | -22 | | | | | |
| MECH | 162.00 | | | | | | | | | -26.1 | -18.9 | .1 | -.2 | .2 |
| | | -26.1 | -18.9 | 2031 | 1223 | -12.8 | -15.4 | -4 | 6 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1070.4 | -663.1 | 58.0 | -100.4 | -24.3 |
| | | -61.0 | -32.3 | 3603 | 4785 | -16.9 | -6.8 | -0 | 1 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -1009.4 | -630.8 | 47.0 | -82.8 | -24.3 |
| | | -46.8 | -29.6 | 2755 | 3659 | -17.0 | -8.1 | -1 | 2 | | | | | |
| 4TH | 30.00 | | | | | | | | | -962.5 | -601.1 | 39.0 | -70.0 | -24.4 |
| | | -47.7 | -43.7 | 2892 | 3378 | -16.5 | -12.9 | -3 | 4 | | | | | |
| 5TH | 42.00 | | | | | | | | | -914.8 | -557.4 | 32.0 | -58.7 | -24.8 |
| | | -47.0 | -64.3 | 2940 | 3378 | -16.0 | -19.0 | -11 | 8 | | | | | |
| 6TH | 54.00 | | | | | | | | | -867.8 | -493.2 | 25.7 | -48.0 | -25.8 |
| | | -83.9 | -68.0 | 2921 | 2450 | -28.7 | -27.7 | 11 | -14 | | | | | |
| 7TH | 66.00 | | | | | | | | | -783.9 | -425.2 | 20.2 | -38.1 | -23.9 |
| | | -96.2 | -56.3 | 2800 | 2082 | -34.3 | -27.1 | 15 | -25 | | | | | |
| 8TH | 78.00 | | | | | | | | | -687.7 | -368.9 | 15.5 | -29.3 | -20.6 |
| | | -97.3 | -56.1 | 2800 | 2082 | -34.7 | -27.0 | 14 | -25 | | | | | |
| 9TH | 90.00 | | | | | | | | | -590.4 | -312.8 | 11.4 | -21.6 | -17.4 |
| | | -98.4 | -55.9 | 2800 | 2082 | -35.1 | -26.8 | 14 | -24 | | | | | |
| 10TH | 102.00 | | | | | | | | | -492.0 | -256.9 | 8.0 | -15.1 | -14.2 |
| | | -99.7 | -54.5 | 2800 | 2082 | -35.6 | -26.2 | 13 | -24 | | | | | |
| 11TH | 114.00 | | | | | | | | | -392.3 | -202.4 | 5.2 | -9.8 | -11.1 |
| | | -101.1 | -53.0 | 2800 | 2082 | -36.1 | -25.5 | 13 | -24 | | | | | |
| 12TH | 126.00 | | | | | | | | | -291.2 | -149.4 | 3.1 | -5.7 | -7.9 |
| | | -101.4 | -51.0 | 2800 | 2082 | -36.2 | -24.5 | 12 | -24 | | | | | |
| 13TH | 138.00 | | | | | | | | | -189.8 | -98.4 | 1.6 | -2.8 | -4.8 |
| | | -86.7 | -41.7 | 2800 | 2082 | -31.0 | -20.0 | 12 | -25 | | | | | |
| 14TH | 150.00 | | | | | | | | | -103.1 | -56.7 | .7 | -1.0 | -2.1 |
| | | -71.9 | -32.5 | 2800 | 2082 | -25.7 | -15.6 | 12 | -26 | | | | | |
| MECH | 162.00 | | | | | | | | | -31.2 | -24.2 | .2 | -.2 | .1 |
| | | -31.2 | -24.2 | 2031 | 1223 | -15.3 | -19.8 | -2 | 3 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1115.9 | -515.7 | 43.3 | -103.7 | -26.9 |
| | | -66.2 | -32.0 | 3603 | 4785 | -18.4 | -6.7 | -1 | 3 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -1049.7 | -483.7 | 34.9 | -85.3 | -27.1 |
| | | -49.1 | -25.0 | 2755 | 3659 | -17.8 | -6.8 | -2 | 5 | | | | | |
| 4TH | 30.00 | | | | | | | | | -1000.6 | -458.7 | 28.7 | -71.9 | -27.4 |
| | | -52.4 | -37.5 | 2892 | 3378 | -18.1 | -11.1 | -1 | 1 | | | | | |
| 5TH | 42.00 | | | | | | | | | -948.2 | -421.1 | 23.4 | -60.3 | -27.5 |
| | | -50.8 | -54.8 | 2940 | 3378 | -17.3 | -16.2 | -7 | 7 | | | | | |
| 6TH | 54.00 | | | | | | | | | -897.4 | -366.4 | 18.7 | -49.2 | -28.2 |
| | | -86.8 | -54.4 | 2921 | 2450 | -29.7 | -22.2 | 10 | -15 | | | | | |
| 7TH | 66.00 | | | | | | | | | -810.6 | -312.0 | 14.7 | -38.9 | -26.4 |
| | | -101.5 | -42.9 | 2800 | 2082 | -36.2 | -20.6 | 12 | -28 | | | | | |
| 8TH | 78.00 | | | | | | | | | -709.1 | -269.2 | 11.2 | -29.8 | -23.0 |
| | | -102.4 | -42.4 | 2800 | 2082 | -36.6 | -20.3 | 12 | -29 | | | | | |
| 9TH | 90.00 | | | | | | | | | -606.6 | -226.8 | 8.2 | -21.9 | -19.6 |
| | | -103.4 | -41.8 | 2800 | 2082 | -36.9 | -20.1 | 12 | -29 | | | | | |
| 10TH | 102.00 | | | | | | | | | -503.3 | -185.0 | 5.7 | -15.3 | -16.1 |
| | | -103.9 | -40.2 | 2800 | 2082 | -37.1 | -19.3 | 11 | -29 | | | | | |
| 11TH | 114.00 | | | | | | | | | -399.4 | -144.7 | 3.7 | -9.8 | -12.6 |
| | | -104.4 | -38.5 | 2800 | 2082 | -37.3 | -18.5 | 11 | -30 | | | | | |
| 12TH | 126.00 | | | | | | | | | -295.0 | -106.3 | 2.2 | -5.7 | -9.1 |
| | | -103.9 | -36.3 | 2800 | 2082 | -37.1 | -17.5 | 10 | -30 | | | | | |
| 13TH | 138.00 | | | | | | | | | -191.2 | -69.9 | 1.2 | -2.8 | -5.6 |
| | | -88.7 | -28.9 | 2800 | 2082 | -31.7 | -13.9 | 10 | -31 | | | | | |
| 14TH | 150.00 | | | | | | | | | -102.4 | -41.0 | .5 | -1.0 | -2.6 |
| | | -73.6 | -21.5 | 2800 | 2082 | -26.3 | -10.3 | 9 | -32 | | | | | |
| MECH | 162.00 | | | | | | | | | -28.8 | -19.5 | .1 | -.2 | -.0 |
| | | -28.8 | -19.5 | 2031 | 1223 | -14.2 | -16.0 | 0 | -0 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : ONE LAKEWAY CENTER

WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1071.1 | -328.3 | 27.4 | -100.9 | -28.3 |
| | | -58.5 | -23.1 | 3603 | 4785 | -16.2 | -4.8 | -1 | 3 | | | | | |
| MEZZ | 17.00 | | | | | | | | | -1012.6 | -305.2 | 22.0 | -83.2 | -28.5 |
| | | -43.3 | -20.3 | 2755 | 3659 | -15.7 | -5.6 | -2 | 5 | | | | | |
| 4TH | 30.00 | | | | | | | | | -969.3 | -284.9 | 18.1 | -70.3 | -28.8 |
| | | -49.7 | -22.9 | 2892 | 3378 | -17.2 | -6.8 | 2 | -4 | | | | | |
| 5TH | 42.00 | | | | | | | | | -919.6 | -262.0 | 14.9 | -58.9 | -28.6 |
| | | -47.2 | -32.6 | 2940 | 3378 | -16.1 | -9.7 | -3 | 4 | | | | | |
| 6TH | 54.00 | | | | | | | | | -872.4 | -229.3 | 11.9 | -48.2 | -28.9 |
| | | -80.6 | -32.9 | 2921 | 2450 | -27.6 | -13.4 | 8 | -20 | | | | | |
| 7TH | 66.00 | | | | | | | | | -791.8 | -196.5 | 9.4 | -38.2 | -27.0 |
| | | -97.7 | -24.2 | 2800 | 2082 | -34.9 | -11.6 | 8 | -32 | | | | | |
| 8TH | 78.00 | | | | | | | | | -694.1 | -172.2 | 7.1 | -29.3 | -23.7 |
| | | -98.4 | -25.8 | 2800 | 2082 | -35.1 | -12.4 | 8 | -32 | | | | | |
| 9TH | 90.00 | | | | | | | | | -595.7 | -146.4 | 5.2 | -21.6 | -20.3 |
| | | -99.1 | -27.4 | 2800 | 2082 | -35.4 | -13.2 | 9 | -32 | | | | | |
| 10TH | 102.00 | | | | | | | | | -496.5 | -119.1 | 3.6 | -15.0 | -17.0 |
| | | -101.1 | -26.4 | 2800 | 2082 | -36.1 | -12.7 | 8 | -32 | | | | | |
| 11TH | 114.00 | | | | | | | | | -395.5 | -92.7 | 2.4 | -9.7 | -13.5 |
| | | -103.2 | -25.1 | 2800 | 2082 | -36.9 | -12.1 | 8 | -33 | | | | | |
| 12TH | 126.00 | | | | | | | | | -292.3 | -67.6 | 1.4 | -5.5 | -9.9 |
| | | -104.3 | -23.5 | 2800 | 2082 | -37.2 | -11.3 | 8 | -34 | | | | | |
| 13TH | 138.00 | | | | | | | | | -188.0 | -44.1 | .7 | -2.6 | -6.1 |
| | | -89.3 | -18.4 | 2800 | 2082 | -31.9 | -8.8 | 7 | -35 | | | | | |
| 14TH | 150.00 | | | | | | | | | -98.7 | -25.7 | .3 | -.9 | -2.9 |
| | | -74.3 | -13.2 | 2800 | 2082 | -26.5 | -6.3 | 6 | -35 | | | | | |
| MECH | 162.00 | | | | | | | | | -24.4 | -12.5 | .1 | -.2 | -.2 |
| | | -24.4 | -12.5 | 2031 | 1223 | -12.0 | -10.2 | 4 | -7 | | | | | |
| TOP | 177.00 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. TWO LAKEWAY CENTER

PROJECT 6012 CONFIGURATION A

SCALE = 300 REF. PRESSURE = 38.0

GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.00

NUMBER OF SIDES = 4 NO. OF FLOORS = 21

| SIDE | ANGLE | Z-AXIS | SHFACT |
|---|---|---|---|
| 1 | 315.0 | 2.873 | 1.0 |
| 2 | 90.0 | 6.679 | 1.0 |
| 3 | 180.0 | 3.017 | 1.0 |
| 4 | 270.0 | 2.607 | 1.0 |

| FLOOR # | LABEL | HEIGHT-FT | WIND AZIMUTH | LOAD FACTOR |
|---|---|---|---|---|
| 1 | GRND | 9.00 | 0 | .71 |
| 2 | MEZZ | 9.00 | 10 | .77 |
| 3 | PONT | 12.00 | 20 | .83 |
| 4 | 3RD | 12.00 | 30 | .89 |
| 5 | 4TH | 12.00 | 40 | .96 |
| 6 | 5TH | 12.00 | 50 | .98 |
| 7 | 6TH | 12.00 | 60 | 1.00 |
| 8 | 7TH | 12.00 | 70 | 1.00 |
| 9 | 8TH | 12.00 | 80 | .93 |
| 10 | 9TH | 12.00 | 90 | .89 |
| 11 | 10TH | 12.00 | 100 | .83 |
| 12 | 11TH | 12.00 | 110 | .85 |
| 13 | 12TH | 12.00 | 120 | .87 |
| 14 | 13TH | 12.00 | 130 | .89 |
| 15 | 14TH | 12.00 | 140 | .96 |
| 16 | 15TH | 12.00 | 150 | .93 |
| 17 | 16TH | 12.00 | 160 | .96 |
| 18 | 17TH | 12.00 | 170 | .98 |
| 19 | 18TH | 12.00 | 180 | 1.00 |
| 20 | 19TH | 12.00 | 190 | .96 |
| 21 | MECH | 22.17 | 200 | .89 |
| | | | 210 | .85 |
| | | | 220 | .81 |
| | | | 230 | .75 |
| | | | 240 | .71 |
| | | | 250 | .66 |
| | | | 260 | .64 |
| | | | 270 | .66 |
| | | | 280 | .66 |
| | | | 290 | .66 |
| | | | 300 | .68 |
| | | | 310 | .68 |
| | | | 320 | .68 |
| | | | 330 | .83 |
| | | | 340 | .83 |
| | | | 350 | .83 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1056.5 | 1663.3 | -170.5 | -123.5 | 176.5 |
| | | -34.5 | 71.4 | 1649 | 2872 | -20.9 | 24.9 | 27 | 13 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1022.0 | 1592.0 | -155.9 | -114.2 | 174.2 |
| | | -37.7 | 70.6 | 1687 | 2921 | -22.4 | 24.2 | 39 | 21 | | | | | |
| PONT | 18.00 | | | | | | | | | -984.3 | 1521.4 | -141.9 | -105.1 | 170.6 |
| | | -55.3 | 101.4 | 2351 | 4025 | -23.5 | 25.2 | 53 | 29 | | | | | |
| 3RD | 30.00 | | | | | | | | | -929.0 | 1419.9 | -124.2 | -93.6 | 163.6 |
| | | -55.3 | 95.2 | 2282 | 3996 | -24.2 | 23.8 | 57 | 33 | | | | | |
| 4TH | 42.00 | | | | | | | | | -873.7 | 1324.7 | -107.7 | -82.8 | 156.3 |
| | | -55.4 | 101.9 | 2047 | 3899 | -27.0 | 26.1 | 73 | 40 | | | | | |
| 5TH | 54.00 | | | | | | | | | -818.3 | 1222.8 | -92.5 | -72.7 | 146.7 |
| | | -55.6 | 103.2 | 1762 | 3423 | -31.6 | 30.1 | 74 | 40 | | | | | |
| 6TH | 66.00 | | | | | | | | | -762.8 | 1119.6 | -78.4 | -63.2 | 136.8 |
| | | -54.6 | 101.3 | 1762 | 3517 | -31.0 | 28.8 | 79 | 43 | | | | | |
| 7TH | 78.00 | | | | | | | | | -708.1 | 1018.3 | -65.6 | -54.4 | 126.5 |
| | | -54.9 | 98.2 | 1762 | 3517 | -31.2 | 27.9 | 82 | 46 | | | | | |
| 8TH | 90.00 | | | | | | | | | -653.2 | 920.1 | -53.9 | -46.2 | 116.0 |
| | | -55.3 | 95.1 | 1762 | 3517 | -31.4 | 27.0 | 84 | 49 | | | | | |
| 9TH | 102.00 | | | | | | | | | -597.9 | 825.0 | -43.5 | -38.7 | 105.2 |
| | | -55.6 | 92.3 | 1762 | 3517 | -31.6 | 26.2 | 87 | 52 | | | | | |
| 10TH | 114.00 | | | | | | | | | -542.3 | 732.7 | -34.1 | -31.8 | 94.3 |
| | | -56.2 | 92.3 | 1762 | 3517 | -31.9 | 26.2 | 88 | 53 | | | | | |
| 11TH | 126.00 | | | | | | | | | -486.1 | 640.5 | -25.9 | -25.7 | 83.2 |
| | | -56.7 | 92.2 | 1762 | 3517 | -32.2 | 26.2 | 89 | 54 | | | | | |
| 12TH | 138.00 | | | | | | | | | -429.4 | 548.2 | -18.8 | -20.2 | 72.0 |
| | | -57.2 | 92.2 | 1762 | 3517 | -32.5 | 26.2 | 89 | 55 | | | | | |
| 13TH | 150.00 | | | | | | | | | -372.2 | 456.0 | -12.7 | -15.4 | 60.5 |
| | | -57.2 | 91.6 | 1762 | 3517 | -32.5 | 26.1 | 90 | 56 | | | | | |
| 14TH | 162.00 | | | | | | | | | -315.1 | 364.4 | -7.8 | -11.3 | 49.1 |
| | | -56.7 | 90.6 | 1762 | 3517 | -32.2 | 25.8 | 90 | 57 | | | | | |
| 15TH | 174.00 | | | | | | | | | -258.3 | 273.8 | -4.0 | -7.8 | 37.7 |
| | | -56.3 | 89.5 | 1762 | 3517 | -31.9 | 25.5 | 91 | 57 | | | | | |
| 16TH | 186.00 | | | | | | | | | -202.1 | 184.3 | -1.2 | -5.0 | 26.4 |
| | | -55.7 | 88.1 | 1762 | 3517 | -31.6 | 25.1 | 91 | 58 | | | | | |
| 17TH | 198.00 | | | | | | | | | -146.3 | 96.2 | .5 | -3.0 | 15.1 |
| | | -49.5 | 70.1 | 1762 | 3517 | -28.1 | 19.9 | 87 | 62 | | | | | |
| 18TH | 210.00 | | | | | | | | | -96.8 | 26.0 | 1.2 | -1.5 | 6.0 |
| | | -43.4 | 52.1 | 1762 | 3517 | -24.6 | 14.8 | 81 | 67 | | | | | |
| 19TH | 222.00 | | | | | | | | | -53.4 | -26.1 | 1.2 | -.6 | -1.2 |
| | | -37.2 | 34.1 | 1762 | 3517 | -21.1 | 9.7 | 68 | 74 | | | | | |
| MECH | 234.00 | | | | | | | | | -16.2 | -60.3 | .7 | -.2 | -6.2 |
| | | -16.2 | -60.3 | 2262 | 3733 | -7.2 | -16.1 | 96 | -26 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1219.3 | 2202.5 | -234.9 | -145.2 | 189.5 |
| | | -33.7 | 92.3 | 1649 | 2872 | -20.4 | 32.1 | 29 | 11 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1185.6 | 2110.2 | -215.5 | -134.4 | 186.5 |
| | | -38.0 | 90.5 | 1687 | 2921 | -22.5 | 31.0 | 36 | 15 | | | | | |
| PONT | 18.00 | | | | | | | | | -1147.6 | 2019.7 | -196.9 | -123.9 | 182.6 |
| | | -60.6 | 125.4 | 2351 | 4025 | -25.8 | 31.1 | 43 | 21 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1087.0 | 1894.3 | -173.4 | -110.5 | 176.0 |
| | | -57.8 | 120.0 | 2282 | 3996 | -25.3 | 30.0 | 50 | 24 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1029.2 | 1774.4 | -151.4 | -97.8 | 168.7 |
| | | -65.1 | 130.8 | 2047 | 3899 | -31.8 | 33.6 | 61 | 30 | | | | | |
| 5TH | 54.00 | | | | | | | | | -964.1 | 1643.5 | -130.9 | -85.8 | 158.7 |
| | | -62.5 | 127.9 | 1762 | 3423 | -35.5 | 37.4 | 64 | 31 | | | | | |
| 6TH | 66.00 | | | | | | | | | -901.6 | 1515.7 | -112.0 | -74.6 | 148.6 |
| | | -63.1 | 128.4 | 1762 | 3517 | -35.8 | 36.5 | 68 | 33 | | | | | |
| 7TH | 78.00 | | | | | | | | | -838.4 | 1387.3 | -94.6 | -64.2 | 137.8 |
| | | -63.7 | 124.9 | 1762 | 3517 | -36.1 | 35.5 | 70 | 36 | | | | | |
| 8TH | 90.00 | | | | | | | | | -774.8 | 1262.4 | -78.7 | -54.5 | 126.7 |
| | | -64.2 | 121.4 | 1762 | 3517 | -36.5 | 34.5 | 73 | 39 | | | | | |
| 9TH | 102.00 | | | | | | | | | -710.5 | 1140.9 | -64.2 | -45.6 | 115.4 |
| | | -64.8 | 118.3 | 1762 | 3517 | -36.8 | 33.7 | 76 | 41 | | | | | |
| 10TH | 114.00 | | | | | | | | | -645.7 | 1022.6 | -51.3 | -37.5 | 103.7 |
| | | -66.1 | 119.4 | 1762 | 3517 | -37.5 | 33.9 | 76 | 42 | | | | | |
| 11TH | 126.00 | | | | | | | | | -579.6 | 903.2 | -39.7 | -30.1 | 91.8 |
| | | -67.3 | 120.4 | 1762 | 3517 | -38.2 | 34.2 | 77 | 43 | | | | | |
| 12TH | 138.00 | | | | | | | | | -512.3 | 782.8 | -29.6 | -23.6 | 79.6 |
| | | -68.6 | 121.4 | 1762 | 3517 | -38.9 | 34.5 | 78 | 44 | | | | | |
| 13TH | 150.00 | | | | | | | | | -443.7 | 661.4 | -20.9 | -17.8 | 67.1 |
| | | -69.0 | 121.6 | 1762 | 3517 | -39.1 | 34.6 | 78 | 44 | | | | | |
| 14TH | 162.00 | | | | | | | | | -374.8 | 539.8 | -13.7 | -12.9 | 54.5 |
| | | -68.7 | 121.1 | 1762 | 3517 | -39.0 | 34.4 | 79 | 45 | | | | | |
| 15TH | 174.00 | | | | | | | | | -306.0 | 418.7 | -8.0 | -8.8 | 41.9 |
| | | -68.5 | 120.6 | 1762 | 3517 | -38.9 | 34.3 | 79 | 45 | | | | | |
| 16TH | 186.00 | | | | | | | | | -237.5 | 298.1 | -3.7 | -5.6 | 29.4 |
| | | -68.1 | 119.7 | 1762 | 3517 | -38.7 | 34.0 | 79 | 45 | | | | | |
| 17TH | 198.00 | | | | | | | | | -169.4 | 178.4 | -.8 | -3.1 | 16.8 |
| | | -60.9 | 100.8 | 1762 | 3517 | -34.5 | 28.7 | 76 | 46 | | | | | |
| 18TH | 210.00 | | | | | | | | | -108.6 | 77.6 | .7 | -1.5 | 6.4 |
| | | -53.6 | 81.9 | 1762 | 3517 | -30.4 | 23.3 | 71 | 47 | | | | | |
| 19TH | 222.00 | | | | | | | | | -55.0 | -4.3 | 1.2 | -.5 | -2.0 |
| | | -46.3 | 63.0 | 1762 | 3517 | -26.3 | 17.9 | 64 | 47 | | | | | |
| MECH | 234.00 | | | | | | | | | -8.7 | -67.4 | .7 | -.1 | -8.2 |
| | | -8.7 | -67.4 | 2262 | 3733 | -3.8 | -18.0 | 119 | -15 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1450.8 | 2355.4 | -257.1 | -175.0 | 177.6 |
| | | -39.4 | 95.9 | 1649 | 2872 | -23.9 | 33.4 | 20 | 8 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1411.4 | 2259.5 | -236.3 | -162.1 | 175.4 |
| | | -44.8 | 92.4 | 1687 | 2921 | -26.6 | 31.6 | 23 | 11 | | | | | |
| PONT | 18.00 | | | | | | | | | -1366.6 | 2167.0 | -216.4 | -149.6 | 172.7 |
| | | -74.0 | 126.8 | 2351 | 4025 | -31.5 | 31.5 | 28 | 16 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1292.6 | 2040.2 | -191.1 | -133.7 | 167.9 |
| | | -67.7 | 121.3 | 2282 | 3996 | -29.7 | 30.4 | 37 | 21 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1224.9 | 1918.9 | -167.4 | -118.6 | 162.0 |
| | | -76.8 | 137.2 | 2047 | 3899 | -37.5 | 35.2 | 50 | 28 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1148.1 | 1781.7 | -145.2 | -104.3 | 153.0 |
| | | -73.0 | 132.1 | 1762 | 3423 | -41.4 | 38.6 | 53 | 29 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1075.1 | 1649.7 | -124.6 | -91.0 | 143.9 |
| | | -73.5 | 131.9 | 1762 | 3517 | -41.7 | 37.5 | 57 | 32 | | | | | |
| 7TH | 78.00 | | | | | | | | | -1001.6 | 1517.8 | -105.6 | -78.5 | 134.0 |
| | | -74.0 | 130.7 | 1762 | 3517 | -42.0 | 37.2 | 60 | 34 | | | | | |
| 8TH | 90.00 | | | | | | | | | -927.7 | 1387.1 | -88.1 | -66.9 | 123.6 |
| | | -74.5 | 129.5 | 1762 | 3517 | -42.3 | 36.8 | 63 | 36 | | | | | |
| 9TH | 102.00 | | | | | | | | | -853.2 | 1257.6 | -72.3 | -56.3 | 112.7 |
| | | -75.1 | 128.4 | 1762 | 3517 | -42.6 | 36.5 | 66 | 39 | | | | | |
| 10TH | 114.00 | | | | | | | | | -778.1 | 1129.2 | -58.0 | -46.5 | 101.4 |
| | | -76.7 | 129.7 | 1762 | 3517 | -43.5 | 36.9 | 67 | 39 | | | | | |
| 11TH | 126.00 | | | | | | | | | -701.4 | 999.5 | -45.2 | -37.6 | 89.7 |
| | | -78.4 | 131.0 | 1762 | 3517 | -44.5 | 37.3 | 68 | 40 | | | | | |
| 12TH | 138.00 | | | | | | | | | -623.1 | 868.4 | -34.0 | -29.6 | 77.7 |
| | | -80.0 | 132.3 | 1762 | 3517 | -45.4 | 37.6 | 68 | 41 | | | | | |
| 13TH | 150.00 | | | | | | | | | -543.1 | 736.1 | -24.3 | -22.7 | 65.3 |
| | | -80.8 | 132.3 | 1762 | 3517 | -45.9 | 37.6 | 69 | 42 | | | | | |
| 14TH | 162.00 | | | | | | | | | -462.3 | 603.8 | -16.3 | -16.6 | 52.9 |
| | | -80.9 | 131.3 | 1762 | 3517 | -45.9 | 37.3 | 68 | 42 | | | | | |
| 15TH | 174.00 | | | | | | | | | -381.3 | 472.6 | -9.9 | -11.6 | 40.5 |
| | | -81.1 | 130.2 | 1762 | 3517 | -46.0 | 37.0 | 68 | 43 | | | | | |
| 16TH | 186.00 | | | | | | | | | -300.3 | 342.4 | -5.0 | -7.5 | 28.1 |
| | | -81.0 | 128.8 | 1762 | 3517 | -46.0 | 36.6 | 68 | 43 | | | | | |
| 17TH | 198.00 | | | | | | | | | -219.2 | 213.6 | -1.6 | -4.4 | 15.9 |
| | | -73.7 | 110.1 | 1762 | 3517 | -41.9 | 31.3 | 64 | 43 | | | | | |
| 18TH | 210.00 | | | | | | | | | -145.5 | 103.4 | .3 | -2.2 | 5.7 |
| | | -66.4 | 91.4 | 1762 | 3517 | -37.7 | 26.0 | 58 | 42 | | | | | |
| 19TH | 222.00 | | | | | | | | | -79.1 | 12.0 | 1.0 | -.8 | -2.5 |
| | | -59.1 | 72.8 | 1762 | 3517 | -33.6 | 20.7 | 50 | 41 | | | | | |
| MECH | 234.00 | | | | | | | | | -19.9 | -60.8 | .7 | -.2 | -8.6 |
| | | -19.9 | -60.8 | 2262 | 3733 | -8.8 | -16.3 | 127 | -42 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1693.3 | 2390.4 | -266.8 | -203.3 | 172.7 |
| | | -45.5 | 92.5 | 1649 | 2872 | -27.6 | 32.2 | 9 | 4 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1647.8 | 2297.9 | -245.7 | -188.3 | 171.7 |
| | | -52.7 | 90.0 | 1687 | 2921 | -31.2 | 30.8 | 12 | 7 | | | | | |
| PONT | 18.00 | | | | | | | | | -1595.1 | 2207.9 | -225.4 | -173.7 | 170.3 |
| | | -86.3 | 127.2 | 2351 | 4025 | -36.7 | 31.6 | 19 | 13 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1508.8 | 2080.7 | -199.7 | -155.1 | 166.8 |
| | | -77.4 | 118.7 | 2282 | 3996 | -33.9 | 29.7 | 27 | 18 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1431.5 | 1962.0 | -175.4 | -137.5 | 162.2 |
| | | -90.9 | 134.3 | 2047 | 3899 | -44.4 | 34.5 | 40 | 27 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1340.6 | 1827.7 | -152.7 | -120.8 | 154.2 |
| | | -86.8 | 127.9 | 1762 | 3423 | -49.3 | 37.4 | 46 | 31 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1253.7 | 1699.8 | -131.5 | -105.3 | 145.7 |
| | | -88.3 | 128.9 | 1762 | 3517 | -50.1 | 36.7 | 51 | 35 | | | | | |
| 7TH | 78.00 | | | | | | | | | -1165.4 | 1570.8 | -111.9 | -90.7 | 136.1 |
| | | -88.7 | 128.5 | 1762 | 3517 | -50.3 | 36.5 | 54 | 37 | | | | | |
| 8TH | 90.00 | | | | | | | | | -1076.8 | 1442.3 | -93.8 | -77.3 | 125.9 |
| | | -89.0 | 128.1 | 1762 | 3517 | -50.5 | 36.4 | 57 | 40 | | | | | |
| 9TH | 102.00 | | | | | | | | | -987.7 | 1314.2 | -77.3 | -64.9 | 115.1 |
| | | -89.4 | 127.9 | 1762 | 3517 | -50.8 | 36.4 | 60 | 42 | | | | | |
| 10TH | 114.00 | | | | | | | | | -898.3 | 1186.2 | -62.3 | -53.6 | 103.6 |
| | | -90.4 | 130.2 | 1762 | 3517 | -51.3 | 37.0 | 62 | 43 | | | | | |
| 11TH | 126.00 | | | | | | | | | -807.9 | 1056.1 | -48.8 | -43.4 | 91.7 |
| | | -91.3 | 132.5 | 1762 | 3517 | -51.8 | 37.7 | 63 | 43 | | | | | |
| 12TH | 138.00 | | | | | | | | | -716.6 | 923.6 | -37.0 | -34.2 | 79.4 |
| | | -92.2 | 134.7 | 1762 | 3517 | -52.3 | 38.3 | 64 | 44 | | | | | |
| 13TH | 150.00 | | | | | | | | | -624.4 | 788.9 | -26.7 | -26.2 | 66.8 |
| | | -92.6 | 136.3 | 1762 | 3517 | -52.6 | 38.8 | 64 | 44 | | | | | |
| 14TH | 162.00 | | | | | | | | | -531.8 | 652.6 | -18.0 | -19.2 | 54.0 |
| | | -92.7 | 137.3 | 1762 | 3517 | -52.6 | 39.1 | 64 | 43 | | | | | |
| 15TH | 174.00 | | | | | | | | | -439.1 | 515.2 | -11.0 | -13.4 | 41.2 |
| | | -92.7 | 138.4 | 1762 | 3517 | -52.6 | 39.3 | 63 | 42 | | | | | |
| 16TH | 186.00 | | | | | | | | | -346.4 | 376.8 | -5.7 | -8.7 | 28.5 |
| | | -92.6 | 139.0 | 1762 | 3517 | -52.6 | 39.5 | 63 | 42 | | | | | |
| 17TH | 198.00 | | | | | | | | | -253.8 | 237.9 | -2.0 | -5.1 | 15.9 |
| | | -84.6 | 119.6 | 1762 | 3517 | -48.0 | 34.0 | 58 | 41 | | | | | |
| 18TH | 210.00 | | | | | | | | | -169.2 | 118.2 | .2 | -2.5 | 5.4 |
| | | -76.5 | 100.3 | 1762 | 3517 | -43.4 | 28.5 | 52 | 40 | | | | | |
| 19TH | 222.00 | | | | | | | | | -92.7 | 18.0 | 1.0 | -1.0 | -2.9 |
| | | -68.5 | 80.9 | 1762 | 3517 | -38.9 | 23.0 | 44 | 38 | | | | | |
| MECH | 234.00 | | | | | | | | | -24.2 | -62.9 | .7 | -.3 | -9.1 |
| | | -24.2 | -62.9 | 2262 | 3733 | -10.7 | -16.9 | 126 | -48 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 40 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1897.5 | 2426.5 | -278.6 | -225.5 | 173.5 |
| | | -51.1 | 82.7 | 1649 | 2872 | -31.0 | 28.8 | -4 | -3 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1846.4 | 2343.7 | -257.2 | -208.6 | 174.0 |
| | | -61.1 | 84.2 | 1687 | 2921 | -36.2 | 28.8 | 5 | 4 | | | | | |
| PONT | 18.00 | | | | | | | | | -1785.2 | 2259.5 | -236.5 | -192.3 | 173.3 |
| | | -102.5 | 126.2 | 2351 | 4025 | -43.6 | 31.4 | 15 | 12 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1682.7 | 2133.3 | -210.1 | -171.5 | 170.1 |
| | | -90.4 | 116.5 | 2282 | 3996 | -39.6 | 29.2 | 24 | 19 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1592.3 | 2016.8 | -185.2 | -151.8 | 165.6 |
| | | -102.2 | 129.5 | 2047 | 3899 | -49.9 | 33.2 | 37 | 29 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1490.1 | 1887.3 | -161.8 | -133.3 | 157.9 |
| | | -97.4 | 124.4 | 1762 | 3423 | -55.3 | 36.3 | 44 | 34 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1392.7 | 1762.9 | -139.9 | -116.1 | 149.1 |
| | | -99.8 | 128.5 | 1762 | 3517 | -56.7 | 36.5 | 49 | 38 | | | | | |
| 7TH | 78.00 | | | | | | | | | -1292.9 | 1634.4 | -119.5 | -99.9 | 139.0 |
| | | -100.4 | 127.5 | 1762 | 3517 | -57.0 | 36.3 | 51 | 41 | | | | | |
| 8TH | 90.00 | | | | | | | | | -1192.4 | 1506.9 | -100.6 | -85.0 | 128.4 |
| | | -101.0 | 126.5 | 1762 | 3517 | -57.3 | 36.0 | 54 | 43 | | | | | |
| 9TH | 102.00 | | | | | | | | | -1091.4 | 1380.4 | -83.3 | -71.3 | 117.2 |
| | | -101.6 | 126.0 | 1762 | 3517 | -57.7 | 35.8 | 56 | 45 | | | | | |
| 10TH | 114.00 | | | | | | | | | -989.9 | 1254.4 | -67.5 | -58.8 | 105.5 |
| | | -101.6 | 129.9 | 1762 | 3517 | -57.6 | 36.9 | 58 | 45 | | | | | |
| 11TH | 126.00 | | | | | | | | | -888.3 | 1124.5 | -53.2 | -47.6 | 93.4 |
| | | -101.6 | 133.8 | 1762 | 3517 | -57.6 | 38.0 | 59 | 45 | | | | | |
| 12TH | 138.00 | | | | | | | | | -786.7 | 990.7 | -40.5 | -37.5 | 80.9 |
| | | -101.5 | 137.7 | 1762 | 3517 | -57.6 | 39.2 | 60 | 45 | | | | | |
| 13TH | 150.00 | | | | | | | | | -685.2 | 853.0 | -29.5 | -28.7 | 68.1 |
| | | -101.6 | 141.3 | 1762 | 3517 | -57.6 | 40.2 | 61 | 44 | | | | | |
| 14TH | 162.00 | | | | | | | | | -583.6 | 711.7 | -20.1 | -21.1 | 55.1 |
| | | -101.6 | 144.7 | 1762 | 3517 | -57.6 | 41.1 | 60 | 42 | | | | | |
| 15TH | 174.00 | | | | | | | | | -482.1 | 567.0 | -12.4 | -14.7 | 42.0 |
| | | -101.6 | 148.0 | 1762 | 3517 | -57.7 | 42.1 | 60 | 41 | | | | | |
| 16TH | 186.00 | | | | | | | | | -380.5 | 419.0 | -6.5 | -9.5 | 29.0 |
| | | -101.4 | 150.9 | 1762 | 3517 | -57.6 | 42.9 | 59 | 40 | | | | | |
| 17TH | 198.00 | | | | | | | | | -279.1 | 268.1 | -2.4 | -5.5 | 16.0 |
| | | -93.1 | 131.4 | 1762 | 3517 | -52.8 | 37.4 | 55 | 39 | | | | | |
| 18TH | 210.00 | | | | | | | | | -186.0 | 136.7 | .0 | -2.8 | 5.2 |
| | | -84.8 | 111.9 | 1762 | 3517 | -48.1 | 31.8 | 49 | 37 | | | | | |
| 19TH | 222.00 | | | | | | | | | -101.2 | 24.8 | 1.0 | -1.0 | -3.4 |
| | | -76.5 | 92.4 | 1762 | 3517 | -43.4 | 26.3 | 41 | 34 | | | | | |
| MECH | 234.00 | | | | | | | | | -24.7 | -67.6 | .8 | -.3 | -9.7 |
| | | -24.7 | -67.6 | 2262 | 3733 | -10.9 | -18.1 | 127 | -46 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1915.0 | 2402.0 | -286.8 | -231.7 | 169.3 |
| | | -47.1 | 72.6 | 1649 | 2872 | -28.6 | 25.3 | -6 | -4 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1867.9 | 2329.4 | -265.5 | -214.7 | 169.9 |
| | | -57.7 | 76.4 | 1687 | 2921 | -34.2 | 26.1 | 7 | 5 | | | | | |
| PONT | 18.00 | | | | | | | | | -1810.2 | 2253.1 | -244.9 | -198.1 | 169.1 |
| | | -97.9 | 112.4 | 2351 | 4025 | -41.6 | 27.9 | 16 | 14 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1712.3 | 2140.7 | -218.5 | -177.0 | 166.0 |
| | | -87.4 | 103.8 | 2282 | 3996 | -38.3 | 26.0 | 23 | 20 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1624.9 | 2036.9 | -193.4 | -156.9 | 161.9 |
| | | -100.6 | 122.3 | 2047 | 3899 | -49.2 | 31.4 | 37 | 31 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1524.3 | 1914.6 | -169.7 | -138.0 | 154.3 |
| | | -100.7 | 123.4 | 1762 | 3423 | -57.2 | 36.1 | 44 | 36 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1423.5 | 1791.2 | -147.5 | -120.4 | 145.1 |
| | | -101.2 | 125.0 | 1762 | 3517 | -57.5 | 35.5 | 49 | 40 | | | | | |
| 7TH | 78.00 | | | | | | | | | -1322.3 | 1666.2 | -126.8 | -103.9 | 134.9 |
| | | -101.3 | 123.6 | 1762 | 3517 | -57.5 | 35.1 | 51 | 42 | | | | | |
| 8TH | 90.00 | | | | | | | | | -1221.0 | 1542.5 | -107.5 | -88.6 | 124.3 |
| | | -101.4 | 122.2 | 1762 | 3517 | -57.5 | 34.7 | 53 | 44 | | | | | |
| 9TH | 102.00 | | | | | | | | | -1119.6 | 1420.3 | -89.7 | -74.6 | 113.3 |
| | | -101.4 | 121.3 | 1762 | 3517 | -57.6 | 34.5 | 55 | 46 | | | | | |
| 10TH | 114.00 | | | | | | | | | -1018.2 | 1299.0 | -73.4 | -61.8 | 102.0 |
| | | -101.4 | 125.9 | 1762 | 3517 | -57.6 | 35.8 | 56 | 45 | | | | | |
| 11TH | 126.00 | | | | | | | | | -916.8 | 1173.2 | -58.6 | -50.1 | 90.4 |
| | | -101.5 | 130.5 | 1762 | 3517 | -57.6 | 37.1 | 57 | 44 | | | | | |
| 12TH | 138.00 | | | | | | | | | -815.3 | 1042.7 | -45.3 | -39.8 | 78.5 |
| | | -101.5 | 135.1 | 1762 | 3517 | -57.6 | 38.4 | 58 | 43 | | | | | |
| 13TH | 150.00 | | | | | | | | | -713.9 | 907.6 | -33.6 | -30.6 | 66.3 |
| | | -101.9 | 140.1 | 1762 | 3517 | -57.9 | 39.8 | 58 | 42 | | | | | |
| 14TH | 162.00 | | | | | | | | | -611.9 | 767.5 | -23.5 | -22.6 | 54.0 |
| | | -102.8 | 145.3 | 1762 | 3517 | -58.3 | 41.3 | 57 | 40 | | | | | |
| 15TH | 174.00 | | | | | | | | | -509.2 | 622.2 | -15.2 | -15.9 | 41.6 |
| | | -103.6 | 150.6 | 1762 | 3517 | -58.8 | 42.8 | 56 | 38 | | | | | |
| 16TH | 186.00 | | | | | | | | | -405.6 | 471.6 | -8.6 | -10.4 | 29.2 |
| | | -104.2 | 155.4 | 1762 | 3517 | -59.2 | 44.2 | 55 | 37 | | | | | |
| 17TH | 198.00 | | | | | | | | | -301.3 | 316.2 | -3.9 | -6.2 | 16.8 |
| | | -97.1 | 138.3 | 1762 | 3517 | -55.1 | 39.3 | 50 | 35 | | | | | |
| 18TH | 210.00 | | | | | | | | | -204.2 | 177.8 | -.9 | -3.1 | 6.5 |
| | | -90.0 | 121.2 | 1762 | 3517 | -51.1 | 34.5 | 44 | 33 | | | | | |
| 19TH | 222.00 | | | | | | | | | -114.2 | 56.6 | .5 | -1.2 | -1.9 |
| | | -82.9 | 104.1 | 1762 | 3517 | -47.1 | 29.6 | 37 | 30 | | | | | |
| MECH | 234.00 | | | | | | | | | -31.3 | -47.4 | .5 | -.3 | -8.2 |
| | | -31.3 | -47.4 | 2262 | 3733 | -13.8 | -12.7 | 121 | -80 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1852.3 | 2340.5 | -293.8 | -232.8 | 147.4 |
| | | -41.6 | 74.1 | 1649 | 2872 | -25.2 | 25.8 | 10 | 5 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1810.7 | 2266.4 | -273.1 | -216.3 | 146.5 |
| | | -48.1 | 71.8 | 1687 | 2921 | -28.5 | 24.6 | 12 | 8 | | | | | |
| PONT | 18.00 | | | | | | | | | -1762.6 | 2194.5 | -253.0 | -200.2 | 145.2 |
| | | -86.1 | 101.5 | 2351 | 4025 | -36.6 | 25.2 | 11 | 10 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1676.6 | 2093.0 | -227.3 | -179.6 | 143.2 |
| | | -73.4 | 92.5 | 2282 | 3996 | -32.2 | 23.2 | 19 | 15 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1603.1 | 2000.5 | -202.7 | -159.9 | 140.3 |
| | | -93.5 | 108.4 | 2047 | 3899 | -45.7 | 27.8 | 29 | 25 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1509.6 | 1892.0 | -179.4 | -141.2 | 134.8 |
| | | -93.4 | 109.1 | 1762 | 3423 | -53.0 | 31.9 | 36 | 30 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1416.2 | 1782.9 | -157.3 | -123.7 | 128.1 |
| | | -95.1 | 108.1 | 1762 | 3517 | -54.0 | 30.7 | 41 | 36 | | | | | |
| 7TH | 78.00 | | | | | | | | | -1321.1 | 1674.8 | -136.6 | -107.2 | 120.2 |
| | | -95.9 | 107.9 | 1762 | 3517 | -54.4 | 30.7 | 43 | 38 | | | | | |
| 8TH | 90.00 | | | | | | | | | -1225.2 | 1566.9 | -117.1 | -92.0 | 111.9 |
| | | -96.6 | 107.7 | 1762 | 3517 | -54.8 | 30.6 | 46 | 41 | | | | | |
| 9TH | 102.00 | | | | | | | | | -1128.6 | 1459.1 | -99.0 | -77.8 | 103.0 |
| | | -97.3 | 108.2 | 1762 | 3517 | -55.3 | 30.8 | 48 | 43 | | | | | |
| 10TH | 114.00 | | | | | | | | | -1031.2 | 1351.0 | -82.1 | -64.9 | 93.7 |
| | | -97.7 | 115.3 | 1762 | 3517 | -55.4 | 32.8 | 49 | 42 | | | | | |
| 11TH | 126.00 | | | | | | | | | -933.6 | 1235.6 | -66.6 | -53.1 | 83.9 |
| | | -98.0 | 122.5 | 1762 | 3517 | -55.6 | 34.8 | 50 | 40 | | | | | |
| 12TH | 138.00 | | | | | | | | | -835.6 | 1113.1 | -52.5 | -42.5 | 73.8 |
| | | -98.3 | 129.7 | 1762 | 3517 | -55.8 | 36.9 | 51 | 39 | | | | | |
| 13TH | 150.00 | | | | | | | | | -737.3 | 983.4 | -39.9 | -33.0 | 63.4 |
| | | -99.3 | 137.2 | 1762 | 3517 | -56.4 | 39.0 | 51 | 37 | | | | | |
| 14TH | 162.00 | | | | | | | | | -638.0 | 846.2 | -28.9 | -24.8 | 52.7 |
| | | -100.8 | 144.9 | 1762 | 3517 | -57.2 | 41.2 | 51 | 36 | | | | | |
| 15TH | 174.00 | | | | | | | | | -537.2 | 701.2 | -19.6 | -17.7 | 41.7 |
| | | -102.3 | 152.7 | 1762 | 3517 | -58.1 | 43.4 | 51 | 34 | | | | | |
| 16TH | 186.00 | | | | | | | | | -434.9 | 548.6 | -12.1 | -11.9 | 30.5 |
| | | -103.7 | 159.9 | 1762 | 3517 | -58.9 | 45.5 | 50 | 33 | | | | | |
| 17TH | 198.00 | | | | | | | | | -331.2 | 388.7 | -6.5 | -7.3 | 19.1 |
| | | -98.7 | 145.5 | 1762 | 3517 | -56.0 | 41.4 | 46 | 31 | | | | | |
| 18TH | 210.00 | | | | | | | | | -232.5 | 243.2 | -2.7 | -3.9 | 9.3 |
| | | -93.6 | 131.0 | 1762 | 3517 | -53.1 | 37.3 | 41 | 29 | | | | | |
| 19TH | 222.00 | | | | | | | | | -138.9 | 112.1 | -.6 | -1.7 | 1.3 |
| | | -88.6 | 116.6 | 1762 | 3517 | -50.3 | 33.2 | 35 | 26 | | | | | |
| MECH | 234.00 | | | | | | | | | -50.3 | -4.5 | .0 | -.6 | -5.1 |
| | | -50.3 | -4.5 | 2262 | 3733 | -22.2 | -1.2 | 9 | -101 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1688.1 | 2084.1 | -272.1 | -218.7 | 109.6 |
| | | -34.8 | 63.0 | 1649 | 2872 | -21.1 | 21.9 | 13 | 7 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1653.3 | 2021.0 | -253.6 | -203.7 | 108.5 |
| | | -37.7 | 58.8 | 1687 | 2921 | -22.3 | 20.1 | 8 | 5 | | | | | |
| PONT | 18.00 | | | | | | | | | -1615.6 | 1962.2 | -235.7 | -189.0 | 107.9 |
| | | -72.2 | 82.3 | 2351 | 4025 | -30.7 | 20.5 | 2 | 2 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1543.5 | 1879.9 | -212.7 | -170.0 | 107.5 |
| | | -59.4 | 76.1 | 2282 | 3996 | -26.0 | 19.0 | 11 | 9 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1484.1 | 1803.9 | -190.6 | -151.9 | 106.1 |
| | | -84.2 | 89.9 | 2047 | 3899 | -41.1 | 23.1 | 17 | 16 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1399.9 | 1713.9 | -169.5 | -134.6 | 103.3 |
| | | -82.5 | 89.7 | 1762 | 3423 | -46.8 | 26.2 | 23 | 22 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1317.4 | 1624.2 | -149.4 | -118.3 | 99.4 |
| | | -82.7 | 89.6 | 1762 | 3517 | -46.9 | 25.5 | 30 | 28 | | | | | |
| 7TH | 78.00 | | | | | | | | | -1234.7 | 1534.6 | -130.5 | -102.9 | 94.5 |
| | | -83.4 | 89.0 | 1762 | 3517 | -47.4 | 25.3 | 33 | 31 | | | | | |
| 8TH | 90.00 | | | | | | | | | -1151.3 | 1445.6 | -112.6 | -88.6 | 89.0 |
| | | -84.2 | 88.4 | 1762 | 3517 | -47.8 | 25.1 | 36 | 34 | | | | | |
| 9TH | 102.00 | | | | | | | | | -1067.1 | 1357.2 | -95.8 | -75.3 | 83.0 |
| | | -85.1 | 88.7 | 1762 | 3517 | -48.3 | 25.2 | 38 | 37 | | | | | |
| 10TH | 114.00 | | | | | | | | | -982.0 | 1268.5 | -80.0 | -63.0 | 76.5 |
| | | -87.3 | 98.1 | 1762 | 3517 | -49.6 | 27.9 | 40 | 36 | | | | | |
| 11TH | 126.00 | | | | | | | | | -894.7 | 1170.4 | -65.4 | -51.8 | 69.4 |
| | | -89.5 | 107.5 | 1762 | 3517 | -50.8 | 30.6 | 42 | 35 | | | | | |
| 12TH | 138.00 | | | | | | | | | -805.2 | 1062.9 | -52.0 | -41.6 | 61.7 |
| | | -91.8 | 116.9 | 1762 | 3517 | -52.1 | 33.2 | 44 | 34 | | | | | |
| 13TH | 150.00 | | | | | | | | | -713.4 | 946.0 | -39.9 | -32.5 | 53.5 |
| | | -93.8 | 125.6 | 1762 | 3517 | -53.2 | 35.7 | 44 | 33 | | | | | |
| 14TH | 162.00 | | | | | | | | | -619.7 | 820.5 | -29.3 | -24.5 | 44.8 |
| | | -95.6 | 133.7 | 1762 | 3517 | -54.3 | 38.0 | 45 | 32 | | | | | |
| 15TH | 174.00 | | | | | | | | | -524.1 | 686.8 | -20.3 | -17.6 | 35.8 |
| | | -97.4 | 141.8 | 1762 | 3517 | -55.3 | 40.3 | 45 | 31 | | | | | |
| 16TH | 186.00 | | | | | | | | | -426.6 | 544.9 | -12.9 | -11.9 | 26.4 |
| | | -99.1 | 149.6 | 1762 | 3517 | -56.3 | 42.5 | 45 | 30 | | | | | |
| 17TH | 198.00 | | | | | | | | | -327.5 | 395.3 | -7.3 | -7.4 | 16.8 |
| | | -95.2 | 138.3 | 1762 | 3517 | -54.0 | 39.3 | 41 | 28 | | | | | |
| 18TH | 210.00 | | | | | | | | | -232.3 | 257.0 | -3.3 | -4.0 | 8.5 |
| | | -91.3 | 127.1 | 1762 | 3517 | -51.8 | 36.1 | 36 | 26 | | | | | |
| 19TH | 222.00 | | | | | | | | | -141.0 | 130.0 | -1.0 | -1.8 | 1.5 |
| | | -87.4 | 115.8 | 1762 | 3517 | -49.6 | 32.9 | 31 | 23 | | | | | |
| MECH | 234.00 | | | | | | | | | -53.7 | 14.2 | -.2 | -.6 | -4.1 |
| | | -53.7 | 14.2 | 2262 | 3733 | -23.7 | 3.8 | -19 | -72 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 80 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1368.8 | 1567.8 | -206.3 | -179.1 | 82.0 |
| | | -26.2 | 48.2 | 1649 | 2872 | -15.9 | 16.8 | 12 | 7 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1342.6 | 1519.5 | -192.5 | -166.9 | 81.3 |
| | | -28.9 | 44.1 | 1687 | 2921 | -17.1 | 15.1 | 6 | 4 | | | | | |
| PONT | 18.00 | | | | | | | | | -1313.7 | 1475.4 | -179.0 | -154.9 | 80.9 |
| | | -59.8 | 63.7 | 2351 | 4025 | -25.4 | 15.8 | 2 | 2 | | | | | |
| 3RD | 30.00 | | | | | | | | | -1254.0 | 1411.7 | -161.7 | -139.5 | 80.6 |
| | | -50.2 | 54.9 | 2282 | 3996 | -22.0 | 13.7 | 8 | 8 | | | | | |
| 4TH | 42.00 | | | | | | | | | -1203.8 | 1356.8 | -145.0 | -124.8 | 79.8 |
| | | -69.3 | 73.5 | 2047 | 3899 | -33.9 | 18.8 | 17 | 16 | | | | | |
| 5TH | 54.00 | | | | | | | | | -1134.5 | 1283.3 | -129.2 | -110.8 | 77.5 |
| | | -68.8 | 71.7 | 1762 | 3423 | -39.0 | 20.9 | 21 | 20 | | | | | |
| 6TH | 66.00 | | | | | | | | | -1065.7 | 1211.6 | -114.2 | -97.5 | 74.6 |
| | | -67.5 | 72.5 | 1762 | 3517 | -38.3 | 20.6 | 27 | 25 | | | | | |
| 7TH | 78.00 | | | | | | | | | -998.1 | 1139.1 | -100.1 | -85.2 | 70.9 |
| | | -66.6 | 68.6 | 1762 | 3517 | -37.8 | 19.5 | 29 | 28 | | | | | |
| 8TH | 90.00 | | | | | | | | | -931.6 | 1070.5 | -86.9 | -73.6 | 67.1 |
| | | -65.6 | 64.7 | 1762 | 3517 | -37.2 | 18.4 | 31 | 32 | | | | | |
| 9TH | 102.00 | | | | | | | | | -866.0 | 1005.8 | -74.4 | -62.8 | 62.9 |
| | | -64.9 | 61.7 | 1762 | 3517 | -36.8 | 17.5 | 34 | 35 | | | | | |
| 10TH | 114.00 | | | | | | | | | -801.1 | 944.2 | -62.7 | -52.8 | 58.6 |
| | | -66.9 | 67.4 | 1762 | 3517 | -38.0 | 19.2 | 36 | 36 | | | | | |
| 11TH | 126.00 | | | | | | | | | -734.2 | 876.8 | -51.8 | -43.6 | 53.7 |
| | | -68.9 | 73.2 | 1762 | 3517 | -39.1 | 20.8 | 39 | 36 | | | | | |
| 12TH | 138.00 | | | | | | | | | -665.3 | 803.6 | -41.7 | -35.2 | 48.4 |
| | | -70.9 | 78.9 | 1762 | 3517 | -40.2 | 22.4 | 41 | 36 | | | | | |
| 13TH | 150.00 | | | | | | | | | -594.4 | 724.7 | -32.5 | -27.6 | 42.6 |
| | | -73.6 | 86.1 | 1762 | 3517 | -41.8 | 24.5 | 42 | 36 | | | | | |
| 14TH | 162.00 | | | | | | | | | -520.9 | 638.6 | -24.4 | -20.9 | 36.4 |
| | | -76.8 | 94.6 | 1762 | 3517 | -43.6 | 26.9 | 43 | 35 | | | | | |
| 15TH | 174.00 | | | | | | | | | -444.1 | 544.0 | -17.3 | -15.2 | 29.6 |
| | | -80.0 | 103.0 | 1762 | 3517 | -45.4 | 29.3 | 44 | 34 | | | | | |
| 16TH | 186.00 | | | | | | | | | -364.1 | 441.0 | -11.3 | -10.3 | 22.4 |
| | | -83.1 | 111.1 | 1762 | 3517 | -47.2 | 31.6 | 44 | 33 | | | | | |
| 17TH | 198.00 | | | | | | | | | -281.0 | 330.0 | -6.7 | -6.4 | 14.7 |
| | | -80.1 | 105.2 | 1762 | 3517 | -45.5 | 29.9 | 41 | 31 | | | | | |
| 18TH | 210.00 | | | | | | | | | -200.9 | 224.7 | -3.4 | -3.5 | 7.9 |
| | | -77.2 | 99.4 | 1762 | 3517 | -43.8 | 28.3 | 37 | 28 | | | | | |
| 19TH | 222.00 | | | | | | | | | -123.8 | 125.3 | -1.3 | -1.6 | 2.1 |
| | | -74.2 | 93.6 | 1762 | 3517 | -42.1 | 26.6 | 32 | 25 | | | | | |
| MECH | 234.00 | | | | | | | | | -49.6 | 31.7 | -.4 | -.6 | -2.8 |
| | | -49.6 | 31.7 | 2262 | 3733 | -21.9 | 8.5 | -26 | -40 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -944.7 | 821.0 | -108.7 | -124.0 | 41.0 |
| | | -17.2 | 27.9 | 1649 | 2872 | -10.5 | 9.7 | 0 | 0 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -927.5 | 793.1 | -101.4 | -115.6 | 41.0 |
| | | -18.3 | 24.4 | 1687 | 2921 | -10.9 | 8.4 | -8 | -6 | | | | | |
| PONT | 18.00 | | | | | | | | | -909.2 | 768.7 | -94.4 | -107.3 | 41.4 |
| | | -41.1 | 35.1 | 2351 | 4025 | -17.5 | 8.7 | -8 | -10 | | | | | |
| 3RD | 30.00 | | | | | | | | | -868.1 | 733.6 | -85.4 | -96.7 | 42.0 |
| | | -34.5 | 24.3 | 2282 | 3996 | -15.1 | 6.1 | -4 | -6 | | | | | |
| 4TH | 42.00 | | | | | | | | | -833.6 | 709.3 | -76.7 | -86.5 | 42.3 |
| | | -46.0 | 32.8 | 2047 | 3899 | -22.5 | 8.4 | 8 | 11 | | | | | |
| 5TH | 54.00 | | | | | | | | | -787.5 | 676.5 | -68.4 | -76.7 | 41.5 |
| | | -47.5 | 35.9 | 1762 | 3423 | -26.9 | 10.5 | 11 | 15 | | | | | |
| 6TH | 66.00 | | | | | | | | | -740.1 | 640.6 | -60.5 | -67.6 | 40.4 |
| | | -47.0 | 38.2 | 1762 | 3517 | -26.7 | 10.9 | 17 | 21 | | | | | |
| 7TH | 78.00 | | | | | | | | | -693.1 | 602.4 | -53.1 | -59.0 | 38.8 |
| | | -46.5 | 35.9 | 1762 | 3517 | -26.4 | 10.2 | 19 | 25 | | | | | |
| 8TH | 90.00 | | | | | | | | | -646.6 | 566.6 | -46.1 | -50.9 | 37.0 |
| | | -46.0 | 33.5 | 1762 | 3517 | -26.1 | 9.5 | 22 | 30 | | | | | |
| 9TH | 102.00 | | | | | | | | | -600.6 | 533.0 | -39.5 | -43.4 | 34.9 |
| | | -45.6 | 31.7 | 1762 | 3517 | -25.9 | 9.0 | 24 | 35 | | | | | |
| 10TH | 114.00 | | | | | | | | | -555.0 | 501.3 | -33.2 | -36.5 | 32.5 |
| | | -47.0 | 35.4 | 1762 | 3517 | -26.7 | 10.1 | 28 | 37 | | | | | |
| 11TH | 126.00 | | | | | | | | | -508.0 | 465.9 | -27.4 | -30.1 | 29.8 |
| | | -48.4 | 39.1 | 1762 | 3517 | -27.5 | 11.1 | 31 | 39 | | | | | |
| 12TH | 138.00 | | | | | | | | | -459.5 | 426.8 | -22.1 | -24.3 | 26.7 |
| | | -49.8 | 42.7 | 1762 | 3517 | -28.3 | 12.2 | 34 | 40 | | | | | |
| 13TH | 150.00 | | | | | | | | | -409.7 | 384.1 | -17.2 | -19.1 | 23.2 |
| | | -51.4 | 46.5 | 1762 | 3517 | -29.2 | 13.2 | 36 | 40 | | | | | |
| 14TH | 162.00 | | | | | | | | | -358.3 | 337.6 | -12.9 | -14.5 | 19.5 |
| | | -53.0 | 50.3 | 1762 | 3517 | -30.1 | 14.3 | 38 | 40 | | | | | |
| 15TH | 174.00 | | | | | | | | | -305.3 | 287.3 | -9.1 | -10.5 | 15.5 |
| | | -54.6 | 54.1 | 1762 | 3517 | -31.0 | 15.4 | 39 | 39 | | | | | |
| 16TH | 186.00 | | | | | | | | | -250.7 | 233.2 | -6.0 | -7.2 | 11.2 |
| | | -56.2 | 57.7 | 1762 | 3517 | -31.9 | 16.4 | 40 | 39 | | | | | |
| 17TH | 198.00 | | | | | | | | | -194.5 | 175.5 | -3.6 | -4.5 | 6.7 |
| | | -54.5 | 55.5 | 1762 | 3517 | -30.9 | 15.8 | 35 | 34 | | | | | |
| 18TH | 210.00 | | | | | | | | | -140.0 | 120.0 | -1.8 | -2.5 | 2.9 |
| | | -52.8 | 53.2 | 1762 | 3517 | -30.0 | 15.1 | 30 | 29 | | | | | |
| 19TH | 222.00 | | | | | | | | | -87.2 | 66.9 | -.7 | -1.1 | -.2 |
| | | -51.1 | 50.9 | 1762 | 3517 | -29.0 | 14.5 | 24 | 24 | | | | | |
| MECH | 234.00 | | | | | | | | | -36.1 | 16.0 | -.2 | -.4 | -2.7 |
| | | -36.1 | 16.0 | 2262 | 3733 | -15.9 | 4.3 | -27 | -61 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -466.4 | 247.4 | -35.1 | -64.2 | -17.1 |
| MEZZ | 9.00 | -6.5 | 9.7 | 1649 | 2872 | -3.9 | 3.4 | -51 | -34 | -459.9 | 237.7 | -32.9 | -60.0 | -16.4 |
| PONT | 18.00 | -7.3 | 8.8 | 1687 | 2921 | -4.3 | 3.0 | -40 | -33 | -452.6 | 228.9 | -30.8 | -55.9 | -15.8 |
| 3RD | 30.00 | -15.8 | 10.8 | 2351 | 4025 | -6.7 | 2.7 | -28 | -42 | -436.8 | 218.1 | -28.1 | -50.5 | -14.8 |
| 4TH | 42.00 | -13.7 | 5.1 | 2282 | 3996 | -6.0 | 1.3 | -18 | -50 | -423.1 | 213.0 | -25.5 | -45.4 | -14.1 |
| 5TH | 54.00 | -20.5 | 8.9 | 2047 | 3899 | -10.0 | 2.3 | -9 | -21 | -402.5 | 204.1 | -23.0 | -40.4 | -13.5 |
| 6TH | 66.00 | -23.9 | 9.6 | 1762 | 3423 | -13.6 | 2.8 | -10 | -25 | -378.6 | 194.5 | -20.6 | -35.7 | -12.8 |
| 7TH | 78.00 | -22.8 | 10.4 | 1762 | 3517 | -12.9 | 3.0 | -11 | -24 | -355.9 | 184.1 | -18.3 | -31.3 | -12.2 |
| 8TH | 90.00 | -22.9 | 9.2 | 1762 | 3517 | -13.0 | 2.6 | -11 | -26 | -333.0 | 174.8 | -16.2 | -27.2 | -11.5 |
| 9TH | 102.00 | -23.1 | 8.0 | 1762 | 3517 | -13.1 | 2.3 | -10 | -28 | -309.9 | 166.8 | -14.1 | -23.3 | -10.7 |
| 10TH | 114.00 | -23.3 | 7.0 | 1762 | 3517 | -13.2 | 2.0 | -9 | -30 | -286.6 | 159.8 | -12.2 | -19.8 | -10.0 |
| 11TH | 126.00 | -23.5 | 7.5 | 1762 | 3517 | -13.3 | 2.1 | -10 | -30 | -263.1 | 152.3 | -10.3 | -16.5 | -9.2 |
| 12TH | 138.00 | -23.7 | 8.0 | 1762 | 3517 | -13.4 | 2.3 | -10 | -30 | -239.4 | 144.3 | -8.5 | -13.5 | -8.4 |
| 13TH | 150.00 | -23.9 | 8.5 | 1762 | 3517 | -13.6 | 2.4 | -11 | -30 | -215.5 | 135.8 | -6.8 | -10.7 | -7.6 |
| 14TH | 162.00 | -24.5 | 10.5 | 1762 | 3517 | -13.9 | 3.0 | -12 | -27 | -191.0 | 125.3 | -5.3 | -8.3 | -6.8 |
| 15TH | 174.00 | -25.4 | 13.6 | 1762 | 3517 | -14.4 | 3.9 | -12 | -23 | -165.6 | 111.7 | -3.9 | -6.1 | -6.0 |
| 16TH | 186.00 | -26.4 | 16.7 | 1762 | 3517 | -15.0 | 4.7 | -12 | -20 | -139.2 | 95.0 | -2.6 | -4.3 | -5.3 |
| 17TH | 198.00 | -27.3 | 19.7 | 1762 | 3517 | -15.5 | 5.6 | -12 | -17 | -111.9 | 75.3 | -1.6 | -2.8 | -4.6 |
| 18TH | 210.00 | -27.8 | 21.2 | 1762 | 3517 | -15.8 | 6.0 | -12 | -16 | -84.1 | 54.1 | -.8 | -1.6 | -3.9 |
| 19TH | 222.00 | -28.3 | 22.8 | 1762 | 3517 | -16.1 | 6.5 | -13 | -16 | -55.8 | 31.3 | -.3 | -.8 | -3.2 |
| MECH | 234.00 | -28.8 | 24.3 | 1762 | 3517 | -16.3 | 6.9 | -13 | -15 | -27.0 | 7.0 | -.1 | -.3 | -2.4 |
| TOP | 256.25 | -27.0 | 7.0 | 2262 | 3733 | -12.0 | 1.9 | -22 | -84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -132.5 | -81.2 | 1.3 | -18.8 | -44.5 |
| | | -3.5 | -4.9 | 1649 | 2872 | -2.1 | -1.7 | 233 | -166 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -129.0 | -76.3 | .6 | -17.7 | -42.8 |
| | | -3.7 | -5.1 | 1687 | 2921 | -2.2 | -1.7 | 211 | -155 | | | | | |
| PONT | 18.00 | | | | | | | | | -125.3 | -71.2 | -.1 | -16.5 | -41.1 |
| | | -7.9 | -10.7 | 2351 | 4025 | -3.4 | -2.7 | 147 | -109 | | | | | |
| 3RD | 30.00 | | | | | | | | | -117.3 | -60.5 | -.9 | -15.1 | -38.7 |
| | | -6.8 | -16.8 | 2282 | 3996 | -3.0 | -4.2 | 123 | -50 | | | | | |
| 4TH | 42.00 | | | | | | | | | -110.6 | -43.7 | -1.5 | -13.7 | -36.3 |
| | | -2.5 | -14.9 | 2047 | 3899 | -1.2 | -3.8 | 136 | -22 | | | | | |
| 5TH | 54.00 | | | | | | | | | -108.1 | -28.8 | -1.9 | -12.4 | -34.2 |
| | | -6.0 | -8.3 | 1762 | 3423 | -3.4 | -2.4 | 158 | -114 | | | | | |
| 6TH | 66.00 | | | | | | | | | -102.1 | -20.5 | -2.2 | -11.1 | -32.2 |
| | | -5.1 | -7.4 | 1762 | 3517 | -2.9 | -2.1 | 184 | -127 | | | | | |
| 7TH | 78.00 | | | | | | | | | -97.0 | -13.1 | -2.4 | -9.9 | -30.2 |
| | | -5.2 | -7.7 | 1762 | 3517 | -3.0 | -2.2 | 192 | -131 | | | | | |
| 8TH | 90.00 | | | | | | | | | -91.8 | -5.4 | -2.5 | -8.8 | -28.0 |
| | | -5.3 | -8.0 | 1762 | 3517 | -3.0 | -2.3 | 200 | -134 | | | | | |
| 9TH | 102.00 | | | | | | | | | -86.4 | 2.6 | -2.5 | -7.7 | -25.7 |
| | | -5.4 | -8.1 | 1762 | 3517 | -3.1 | -2.3 | 208 | -139 | | | | | |
| 10TH | 114.00 | | | | | | | | | -81.0 | 10.7 | -2.5 | -6.7 | -23.3 |
| | | -5.1 | -7.2 | 1762 | 3517 | -2.9 | -2.0 | 223 | -159 | | | | | |
| 11TH | 126.00 | | | | | | | | | -75.9 | 17.9 | -2.3 | -5.8 | -20.9 |
| | | -4.8 | -6.2 | 1762 | 3517 | -2.7 | -1.8 | 239 | -185 | | | | | |
| 12TH | 138.00 | | | | | | | | | -71.1 | 24.1 | -2.0 | -4.9 | -18.5 |
| | | -4.5 | -5.3 | 1762 | 3517 | -2.6 | -1.5 | 257 | -219 | | | | | |
| 13TH | 150.00 | | | | | | | | | -66.6 | 29.4 | -1.7 | -4.1 | -16.1 |
| | | -4.6 | -3.1 | 1762 | 3517 | -2.6 | -.9 | 229 | -335 | | | | | |
| 14TH | 162.00 | | | | | | | | | -62.0 | 32.5 | -1.3 | -3.3 | -13.9 |
| | | -4.9 | -.0 | 1762 | 3517 | -2.8 | -.0 | 3 | -427 | | | | | |
| 15TH | 174.00 | | | | | | | | | -57.1 | 32.5 | -1.0 | -2.6 | -11.8 |
| | | -5.3 | 3.0 | 1762 | 3517 | -3.0 | .9 | -160 | -277 | | | | | |
| 16TH | 186.00 | | | | | | | | | -51.8 | 29.5 | -.6 | -1.9 | -9.9 |
| | | -5.7 | 6.1 | 1762 | 3517 | -3.2 | 1.7 | -159 | -147 | | | | | |
| 17TH | 198.00 | | | | | | | | | -46.2 | 23.4 | -.3 | -1.3 | -8.1 |
| | | -8.0 | 8.1 | 1762 | 3517 | -4.5 | 2.3 | -108 | -107 | | | | | |
| 18TH | 210.00 | | | | | | | | | -38.2 | 15.3 | -.0 | -.8 | -6.3 |
| | | -10.3 | 10.1 | 1762 | 3517 | -5.8 | 2.9 | -80 | -82 | | | | | |
| 19TH | 222.00 | | | | | | | | | -27.9 | 5.2 | .1 | -.4 | -4.7 |
| | | -12.6 | 12.1 | 1762 | 3517 | -7.2 | 3.4 | -62 | -65 | | | | | |
| MECH | 234.00 | | | | | | | | | -15.3 | -6.8 | .1 | -.2 | -3.1 |
| | | -15.3 | -6.8 | 2262 | 3733 | -6.8 | -1.8 | 76 | -169 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 120 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 22.9 | -267.2 | 21.9 | 3.9 | -52.1 |
| | | -2.5 | -13.9 | 1649 | 2872 | -1.5 | -4.9 | 152 | -27 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 25.4 | -253.2 | 19.5 | 3.6 | -49.9 |
| | | -1.0 | -14.5 | 1687 | 2921 | -.6 | -5.0 | 150 | -10 | | | | | |
| PONT | 18.00 | | | | | | | | | 26.4 | -238.7 | 17.3 | 3.4 | -47.7 |
| | | -2.3 | -24.4 | 2351 | 4025 | -1.0 | -6.1 | 125 | -12 | | | | | |
| 3RD | 30.00 | | | | | | | | | 28.7 | -214.3 | 14.6 | 3.1 | -44.6 |
| | | -3.3 | -29.3 | 2282 | 3996 | -1.5 | -7.3 | 109 | -12 | | | | | |
| 4TH | 42.00 | | | | | | | | | 32.0 | -185.0 | 12.2 | 2.7 | -41.4 |
| | | 3.3 | -25.5 | 2047 | 3899 | 1.6 | -6.5 | 107 | 14 | | | | | |
| 5TH | 54.00 | | | | | | | | | 28.7 | -159.6 | 10.1 | 2.3 | -38.6 |
| | | .6 | -16.9 | 1762 | 3423 | .3 | -4.9 | 167 | 6 | | | | | |
| 6TH | 66.00 | | | | | | | | | 28.2 | -142.7 | 8.3 | 2.0 | -35.8 |
| | | .9 | -14.9 | 1762 | 3517 | .5 | -4.2 | 174 | 11 | | | | | |
| 7TH | 78.00 | | | | | | | | | 27.3 | -127.8 | 6.7 | 1.7 | -33.2 |
| | | 1.1 | -15.8 | 1762 | 3517 | .6 | -4.5 | 169 | 12 | | | | | |
| 8TH | 90.00 | | | | | | | | | 26.2 | -112.1 | 5.2 | 1.4 | -30.5 |
| | | 1.3 | -16.7 | 1762 | 3517 | .7 | -4.7 | 164 | 13 | | | | | |
| 9TH | 102.00 | | | | | | | | | 24.9 | -95.4 | 4.0 | 1.0 | -27.8 |
| | | 1.5 | -17.4 | 1762 | 3517 | .9 | -4.9 | 161 | 14 | | | | | |
| 10TH | 114.00 | | | | | | | | | 23.4 | -78.0 | 3.0 | .8 | -25.0 |
| | | 2.2 | -16.3 | 1762 | 3517 | 1.2 | -4.6 | 166 | 22 | | | | | |
| 11TH | 126.00 | | | | | | | | | 21.2 | -61.7 | 2.1 | .5 | -22.2 |
| | | 2.9 | -15.1 | 1762 | 3517 | 1.6 | -4.3 | 170 | 32 | | | | | |
| 12TH | 138.00 | | | | | | | | | 18.3 | -46.6 | 1.5 | .3 | -19.5 |
| | | 3.5 | -14.0 | 1762 | 3517 | 2.0 | -4.0 | 174 | 44 | | | | | |
| 13TH | 150.00 | | | | | | | | | 14.8 | -32.6 | 1.0 | .1 | -17.0 |
| | | 4.0 | -11.8 | 1762 | 3517 | 2.3 | -3.3 | 187 | 64 | | | | | |
| 14TH | 162.00 | | | | | | | | | 10.7 | -20.9 | .7 | -.1 | -14.5 |
| | | 4.4 | -8.7 | 1762 | 3517 | 2.5 | -2.5 | 209 | 105 | | | | | |
| 15TH | 174.00 | | | | | | | | | 6.4 | -12.2 | .5 | -.2 | -12.2 |
| | | 4.7 | -5.6 | 1762 | 3517 | 2.7 | -1.6 | 219 | 182 | | | | | |
| 16TH | 186.00 | | | | | | | | | 1.7 | -6.6 | .4 | -.2 | -10.1 |
| | | 5.0 | -2.6 | 1762 | 3517 | 2.8 | -.7 | 158 | 303 | | | | | |
| 17TH | 198.00 | | | | | | | | | -3.3 | -4.0 | .3 | -.2 | -8.2 |
| | | 2.7 | -.3 | 1762 | 3517 | 1.5 | -.1 | 82 | 684 | | | | | |
| 18TH | 210.00 | | | | | | | | | -5.9 | -3.6 | .3 | -.2 | -6.4 |
| | | .4 | 2.0 | 1762 | 3517 | .2 | .6 | -882 | 167 | | | | | |
| 19TH | 222.00 | | | | | | | | | -6.3 | -5.6 | .2 | -.1 | -4.6 |
| | | -1.9 | 4.2 | 1762 | 3517 | -1.1 | 1.2 | -337 | -153 | | | | | |
| MECH | 234.00 | | | | | | | | | -4.4 | -9.8 | .1 | -.0 | -2.9 |
| | | -4.4 | -9.8 | 2262 | 3733 | -1.9 | -2.6 | 246 | -109 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 248.4 | -314.3 | 31.9 | 36.9 | -43.0 |
| | | -.8 | -15.6 | 1649 | 2872 | -.5 | -5.4 | 143 | -7 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 249.2 | -298.8 | 29.1 | 34.7 | -40.7 |
| | | -.3 | -14.6 | 1687 | 2921 | -.2 | -5.0 | 146 | -3 | | | | | |
| PONT | 18.00 | | | | | | | | | 249.5 | -284.1 | 26.5 | 32.4 | -38.6 |
| | | -1.1 | -22.1 | 2351 | 4025 | -.5 | -5.5 | 123 | -6 | | | | | |
| 3RD | 30.00 | | | | | | | | | 250.6 | -262.0 | 23.2 | 29.4 | -35.9 |
| | | -2.7 | -24.1 | 2282 | 3996 | -1.2 | -6.0 | 123 | -14 | | | | | |
| 4TH | 42.00 | | | | | | | | | 253.3 | -238.0 | 20.2 | 26.4 | -32.9 |
| | | 12.1 | -18.7 | 2047 | 3899 | 5.9 | -4.8 | 84 | 54 | | | | | |
| 5TH | 54.00 | | | | | | | | | 241.3 | -219.2 | 17.5 | 23.4 | -30.6 |
| | | 12.1 | -12.4 | 1762 | 3423 | 6.9 | -3.6 | 86 | 83 | | | | | |
| 6TH | 66.00 | | | | | | | | | 229.2 | -206.8 | 14.9 | 20.6 | -28.6 |
| | | 12.8 | -14.0 | 1762 | 3517 | 7.3 | -4.0 | 83 | 76 | | | | | |
| 7TH | 78.00 | | | | | | | | | 216.4 | -192.8 | 12.5 | 17.9 | -26.4 |
| | | 11.8 | -16.1 | 1762 | 3517 | 6.7 | -4.6 | 88 | 65 | | | | | |
| 8TH | 90.00 | | | | | | | | | 204.6 | -176.7 | 10.3 | 15.4 | -24.3 |
| | | 10.9 | -18.1 | 1762 | 3517 | 6.2 | -5.1 | 90 | 54 | | | | | |
| 9TH | 102.00 | | | | | | | | | 193.7 | -158.7 | 8.3 | 13.0 | -22.0 |
| | | 10.2 | -19.9 | 1762 | 3517 | 5.8 | -5.7 | 89 | 46 | | | | | |
| 10TH | 114.00 | | | | | | | | | 183.4 | -138.8 | 6.5 | 10.8 | -19.8 |
| | | 13.1 | -19.8 | 1762 | 3517 | 7.5 | -5.6 | 75 | 50 | | | | | |
| 11TH | 126.00 | | | | | | | | | 170.3 | -118.9 | 5.0 | 8.6 | -17.6 |
| | | 16.0 | -19.8 | 1762 | 3517 | 9.1 | -5.6 | 62 | 50 | | | | | |
| 12TH | 138.00 | | | | | | | | | 154.3 | -99.1 | 3.7 | 6.7 | -15.6 |
| | | 18.9 | -19.7 | 1762 | 3517 | 10.7 | -5.6 | 51 | 49 | | | | | |
| 13TH | 150.00 | | | | | | | | | 135.4 | -79.4 | 2.6 | 4.9 | -13.7 |
| | | 20.9 | -18.4 | 1762 | 3517 | 11.8 | -5.2 | 43 | 49 | | | | | |
| 14TH | 162.00 | | | | | | | | | 114.5 | -61.1 | 1.7 | 3.4 | -11.9 |
| | | 22.1 | -16.0 | 1762 | 3517 | 12.5 | -4.6 | 36 | 50 | | | | | |
| 15TH | 174.00 | | | | | | | | | 92.5 | -45.0 | 1.1 | 2.2 | -10.2 |
| | | 23.3 | -13.7 | 1762 | 3517 | 13.2 | -3.9 | 29 | 50 | | | | | |
| 16TH | 186.00 | | | | | | | | | 69.2 | -31.3 | .6 | 1.2 | -8.6 |
| | | 24.4 | -11.4 | 1762 | 3517 | 13.9 | -3.2 | 23 | 48 | | | | | |
| 17TH | 198.00 | | | | | | | | | 44.7 | -19.9 | .3 | .6 | -7.2 |
| | | 20.6 | -8.8 | 1762 | 3517 | 11.7 | -2.5 | 26 | 61 | | | | | |
| 18TH | 210.00 | | | | | | | | | 24.2 | -11.2 | .2 | .1 | -5.7 |
| | | 16.8 | -6.1 | 1762 | 3517 | 9.5 | -1.7 | 30 | 81 | | | | | |
| 19TH | 222.00 | | | | | | | | | 7.4 | -5.1 | .1 | -.1 | -4.2 |
| | | 12.9 | -3.5 | 1762 | 3517 | 7.3 | -1.0 | 31 | 114 | | | | | |
| MECH | 234.00 | | | | | | | | | -5.6 | -1.5 | .0 | -.1 | -2.6 |
| | | -5.6 | -1.5 | 2262 | 3733 | -2.5 | -.4 | 119 | -433 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 140 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 445.0 | -356.4 | 47.4 | 69.0 | -41.3 |
| | | -.8 | -13.0 | 1649 | 2872 | -.5 | -4.5 | 165 | -10 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 445.8 | -343.4 | 44.3 | 65.0 | -39.2 |
| | | -.9 | -10.0 | 1687 | 2921 | -.5 | -3.4 | 206 | -18 | | | | | |
| PONT | 18.00 | | | | | | | | | 446.6 | -333.4 | 41.2 | 60.9 | -37.1 |
| | | -2.7 | -13.1 | 2351 | 4025 | -1.1 | -3.3 | 191 | -39 | | | | | |
| 3RD | 30.00 | | | | | | | | | 449.3 | -320.2 | 37.3 | 55.6 | -34.5 |
| | | -3.4 | -15.0 | 2282 | 3996 | -1.5 | -3.8 | 184 | -42 | | | | | |
| 4TH | 42.00 | | | | | | | | | 452.7 | -305.2 | 33.6 | 50.2 | -31.6 |
| | | 16.3 | -13.1 | 2047 | 3899 | 7.9 | -3.3 | 68 | 85 | | | | | |
| 5TH | 54.00 | | | | | | | | | 436.5 | -292.2 | 30.0 | 44.8 | -29.3 |
| | | 17.0 | -8.3 | 1762 | 3423 | 9.7 | -2.4 | 42 | 85 | | | | | |
| 6TH | 66.00 | | | | | | | | | 419.4 | -283.8 | 26.5 | 39.7 | -27.5 |
| | | 20.2 | -11.0 | 1762 | 3517 | 11.5 | -3.1 | 39 | 72 | | | | | |
| 7TH | 78.00 | | | | | | | | | 399.2 | -272.8 | 23.2 | 34.8 | -25.6 |
| | | 19.4 | -13.5 | 1762 | 3517 | 11.0 | -3.8 | 47 | 68 | | | | | |
| 8TH | 90.00 | | | | | | | | | 379.9 | -259.3 | 20.0 | 30.1 | -23.7 |
| | | 18.5 | -16.0 | 1762 | 3517 | 10.5 | -4.5 | 54 | 62 | | | | | |
| 9TH | 102.00 | | | | | | | | | 361.4 | -243.3 | 17.0 | 25.6 | -21.7 |
| | | 18.1 | -18.4 | 1762 | 3517 | 10.3 | -5.2 | 57 | 56 | | | | | |
| 10TH | 114.00 | | | | | | | | | 343.3 | -224.9 | 14.2 | 21.4 | -19.6 |
| | | 22.5 | -19.7 | 1762 | 3517 | 12.8 | -5.6 | 42 | 48 | | | | | |
| 11TH | 126.00 | | | | | | | | | 320.8 | -205.2 | 11.6 | 17.4 | -17.7 |
| | | 26.9 | -21.0 | 1762 | 3517 | 15.3 | -6.0 | 32 | 41 | | | | | |
| 12TH | 138.00 | | | | | | | | | 293.9 | -184.2 | 9.2 | 13.7 | -15.9 |
| | | 31.3 | -22.3 | 1762 | 3517 | 17.8 | -6.3 | 25 | 35 | | | | | |
| 13TH | 150.00 | | | | | | | | | 262.6 | -161.9 | 7.2 | 10.4 | -14.3 |
| | | 35.2 | -22.8 | 1762 | 3517 | 20.0 | -6.5 | 20 | 31 | | | | | |
| 14TH | 162.00 | | | | | | | | | 227.4 | -139.1 | 5.4 | 7.5 | -12.7 |
| | | 38.8 | -22.6 | 1762 | 3517 | 22.0 | -6.4 | 16 | 28 | | | | | |
| 15TH | 174.00 | | | | | | | | | 188.6 | -116.5 | 3.8 | 5.0 | -11.3 |
| | | 42.4 | -22.4 | 1762 | 3517 | 24.0 | -6.4 | 13 | 24 | | | | | |
| 16TH | 186.00 | | | | | | | | | 146.2 | -94.1 | 2.6 | 3.0 | -10.0 |
| | | 45.8 | -22.2 | 1762 | 3517 | 26.0 | -6.3 | 11 | 22 | | | | | |
| 17TH | 198.00 | | | | | | | | | 100.5 | -71.9 | 1.6 | 1.5 | -8.8 |
| | | 40.8 | -21.4 | 1762 | 3517 | 23.2 | -6.1 | 14 | 27 | | | | | |
| 18TH | 210.00 | | | | | | | | | 59.7 | -50.4 | .8 | .5 | -7.3 |
| | | 35.8 | -20.6 | 1762 | 3517 | 20.3 | -5.9 | 19 | 33 | | | | | |
| 19TH | 222.00 | | | | | | | | | 23.8 | -29.8 | .3 | .0 | -5.8 |
| | | 30.9 | -19.8 | 1762 | 3517 | 17.5 | -5.6 | 26 | 40 | | | | | |
| MECH | 234.00 | | | | | | | | | -7.1 | -10.0 | .1 | -.1 | -4.0 |
| | | -7.1 | -10.0 | 2262 | 3733 | -3.1 | -2.7 | 267 | -190 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 886.9 | -808.5 | 113.6 | 124.6 | -54.6 |
| MEZZ | 9.00 | 7.6 | -16.9 | 1649 | 2872 | 4.6 | -5.9 | 100 | 45 | 879.3 | -791.6 | 106.4 | 116.6 | -52.6 |
| PONT | 18.00 | 5.5 | -16.5 | 1687 | 2921 | 3.2 | -5.7 | 123 | 41 | 873.8 | -775.1 | 99.4 | 108.8 | -50.3 |
| 3RD | 30.00 | 4.5 | -24.6 | 2351 | 4025 | 1.9 | -6.1 | 127 | 23 | 869.3 | -750.5 | 90.2 | 98.3 | -47.1 |
| 4TH | 42.00 | 5.2 | -32.6 | 2282 | 3996 | 2.3 | -8.1 | 112 | 18 | 864.1 | -717.9 | 81.4 | 87.9 | -43.3 |
| 5TH | 54.00 | 36.3 | -32.6 | 2047 | 3899 | 17.8 | -8.4 | 41 | 46 | 827.7 | -685.3 | 73.0 | 77.8 | -40.3 |
| 6TH | 66.00 | 35.3 | -25.6 | 1762 | 3423 | 20.0 | -7.5 | 27 | 37 | 792.4 | -659.7 | 64.9 | 68.0 | -38.4 |
| 7TH | 78.00 | 45.3 | -28.1 | 1762 | 3517 | 25.7 | -8.0 | 19 | 31 | 747.1 | -631.5 | 57.2 | 58.8 | -36.4 |
| 8TH | 90.00 | 48.1 | -30.9 | 1762 | 3517 | 27.3 | -8.8 | 19 | 29 | 699.0 | -600.7 | 49.8 | 50.1 | -34.5 |
| 9TH | 102.00 | 50.9 | -33.6 | 1762 | 3517 | 28.9 | -9.6 | 18 | 28 | 648.1 | -567.1 | 42.8 | 42.0 | -32.4 |
| 10TH | 114.00 | 53.7 | -36.4 | 1762 | 3517 | 30.5 | -10.3 | 18 | 26 | 594.4 | -530.7 | 36.2 | 34.6 | -30.4 |
| 11TH | 126.00 | 56.4 | -39.9 | 1762 | 3517 | 32.0 | -11.3 | 18 | 25 | 538.1 | -490.8 | 30.1 | 27.8 | -28.2 |
| 12TH | 138.00 | 59.0 | -43.4 | 1762 | 3517 | 33.5 | -12.3 | 17 | 24 | 479.1 | -447.5 | 24.4 | 21.7 | -26.1 |
| 13TH | 150.00 | 61.7 | -46.9 | 1762 | 3517 | 35.0 | -13.3 | 17 | 22 | 417.4 | -400.6 | 19.4 | 16.3 | -23.9 |
| 14TH | 162.00 | 63.6 | -48.9 | 1762 | 3517 | 36.1 | -13.9 | 17 | 22 | 353.8 | -351.7 | 14.8 | 11.7 | -21.7 |
| 15TH | 174.00 | 65.1 | -49.9 | 1762 | 3517 | 36.9 | -14.2 | 17 | 22 | 288.7 | -301.9 | 10.9 | 7.8 | -19.5 |
| 16TH | 186.00 | 66.5 | -50.8 | 1762 | 3517 | 37.7 | -14.4 | 17 | 22 | 222.2 | -251.0 | 7.6 | 4.8 | -17.2 |
| 17TH | 198.00 | 67.7 | -51.7 | 1762 | 3517 | 38.4 | -14.7 | 17 | 22 | 154.5 | -199.3 | 4.9 | 2.5 | -14.8 |
| 18TH | 210.00 | 60.2 | -51.5 | 1762 | 3517 | 34.2 | -14.7 | 22 | 26 | 94.3 | -147.8 | 2.8 | 1.0 | -12.1 |
| 19TH | 222.00 | 52.7 | -51.3 | 1762 | 3517 | 29.9 | -14.6 | 29 | 30 | 41.5 | -96.4 | 1.4 | .2 | -9.0 |
| MECH | 234.00 | 45.3 | -51.2 | 1762 | 3517 | 25.7 | -14.5 | 38 | 33 | -3.7 | -45.3 | .5 | -.0 | -5.6 |
| TOP | 256.25 | -3.7 | -45.3 | 2262 | 3733 | -1.7 | -12.1 | 123 | -10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 905.6 | -614.7 | 86.3 | 124.6 | -62.7 |
| | | 13.0 | -15.7 | 1649 | 2872 | 7.9 | -5.5 | 98 | 81 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 892.6 | -599.0 | 80.8 | 116.5 | -60.1 |
| | | 11.1 | -14.0 | 1687 | 2921 | 6.6 | -4.8 | 121 | 96 | | | | | |
| PONT | 18.00 | | | | | | | | | 881.5 | -585.0 | 75.5 | 108.5 | -57.3 |
| | | 10.9 | -19.2 | 2351 | 4025 | 4.7 | -4.8 | 151 | 86 | | | | | |
| 3RD | 30.00 | | | | | | | | | 870.5 | -565.8 | 68.6 | 98.0 | -53.5 |
| | | 8.5 | -23.9 | 2282 | 3996 | 3.7 | -6.0 | 155 | 55 | | | | | |
| 4TH | 42.00 | | | | | | | | | 862.1 | -541.9 | 61.9 | 87.6 | -49.3 |
| | | 37.3 | -24.5 | 2047 | 3899 | 18.2 | -6.3 | 43 | 66 | | | | | |
| 5TH | 54.00 | | | | | | | | | 824.8 | -517.4 | 55.6 | 77.5 | -45.8 |
| | | 35.6 | -19.5 | 1762 | 3423 | 20.2 | -5.7 | 30 | 55 | | | | | |
| 6TH | 66.00 | | | | | | | | | 789.2 | -497.9 | 49.5 | 67.8 | -43.2 |
| | | 46.3 | -22.8 | 1762 | 3517 | 26.3 | -6.5 | 22 | 45 | | | | | |
| 7TH | 78.00 | | | | | | | | | 742.9 | -475.1 | 43.7 | 58.6 | -40.7 |
| | | 47.9 | -24.2 | 1762 | 3517 | 27.2 | -6.9 | 21 | 42 | | | | | |
| 8TH | 90.00 | | | | | | | | | 695.0 | -450.9 | 38.1 | 50.0 | -38.1 |
| | | 49.6 | -25.5 | 1762 | 3517 | 28.1 | -7.2 | 20 | 39 | | | | | |
| 9TH | 102.00 | | | | | | | | | 645.4 | -425.4 | 32.8 | 41.9 | -35.7 |
| | | 51.4 | -26.9 | 1762 | 3517 | 29.2 | -7.6 | 19 | 37 | | | | | |
| 10TH | 114.00 | | | | | | | | | 594.0 | -398.5 | 27.9 | 34.5 | -33.2 |
| | | 54.6 | -29.1 | 1762 | 3517 | 31.0 | -8.3 | 19 | 35 | | | | | |
| 11TH | 126.00 | | | | | | | | | 539.5 | -369.4 | 23.3 | 27.7 | -30.8 |
| | | 57.8 | -31.3 | 1762 | 3517 | 32.8 | -8.9 | 18 | 33 | | | | | |
| 12TH | 138.00 | | | | | | | | | 481.7 | -338.2 | 19.0 | 21.6 | -28.3 |
| | | 61.0 | -33.5 | 1762 | 3517 | 34.6 | -9.5 | 17 | 31 | | | | | |
| 13TH | 150.00 | | | | | | | | | 420.7 | -304.7 | 15.2 | 16.2 | -25.9 |
| | | 63.7 | -35.1 | 1762 | 3517 | 36.2 | -10.0 | 17 | 30 | | | | | |
| 14TH | 162.00 | | | | | | | | | 357.0 | -269.6 | 11.7 | 11.5 | -23.3 |
| | | 66.0 | -36.2 | 1762 | 3517 | 37.5 | -10.3 | 16 | 30 | | | | | |
| 15TH | 174.00 | | | | | | | | | 290.9 | -233.4 | 8.7 | 7.6 | -20.8 |
| | | 68.4 | -37.4 | 1762 | 3517 | 38.8 | -10.6 | 16 | 29 | | | | | |
| 16TH | 186.00 | | | | | | | | | 222.6 | -196.0 | 6.1 | 4.5 | -18.2 |
| | | 70.5 | -38.5 | 1762 | 3517 | 40.0 | -11.0 | 16 | 28 | | | | | |
| 17TH | 198.00 | | | | | | | | | 152.1 | -157.5 | 4.0 | 2.3 | -15.6 |
| | | 62.1 | -38.7 | 1762 | 3517 | 35.2 | -11.0 | 21 | 33 | | | | | |
| 18TH | 210.00 | | | | | | | | | 90.0 | -118.7 | 2.4 | .8 | -12.8 |
| | | 53.6 | -38.9 | 1762 | 3517 | 30.4 | -11.1 | 28 | 39 | | | | | |
| 19TH | 222.00 | | | | | | | | | 36.4 | -79.8 | 1.2 | .1 | -9.6 |
| | | 45.2 | -39.1 | 1762 | 3517 | 25.7 | -11.1 | 38 | 44 | | | | | |
| MECH | 234.00 | | | | | | | | | -8.8 | -40.7 | .5 | -.1 | -6.1 |
| | | -8.8 | -40.7 | 2262 | 3733 | -3.9 | -10.9 | 144 | -31 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 946.4 | -289.3 | 45.0 | 129.0 | -59.8 |
| | | 15.6 | -9.8 | 1649 | 2872 | 9.4 | -3.4 | 78 | 125 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 930.9 | -279.5 | 42.4 | 120.5 | -57.1 |
| | | 14.3 | -4.3 | 1687 | 2921 | 8.5 | -1.5 | 55 | 183 | | | | | |
| PONT | 18.00 | | | | | | | | | 916.6 | -275.2 | 39.9 | 112.2 | -54.3 |
| | | 13.5 | -3.9 | 2351 | 4025 | 5.7 | -1.0 | 80 | 279 | | | | | |
| 3RD | 30.00 | | | | | | | | | 903.0 | -271.3 | 36.7 | 101.3 | -50.2 |
| | | 11.5 | -10.3 | 2282 | 3996 | 5.1 | -2.6 | 193 | 216 | | | | | |
| 4TH | 42.00 | | | | | | | | | 891.5 | -261.0 | 33.5 | 90.5 | -45.7 |
| | | 40.3 | -11.3 | 2047 | 3899 | 19.7 | -2.9 | 23 | 82 | | | | | |
| 5TH | 54.00 | | | | | | | | | 851.2 | -249.7 | 30.4 | 80.1 | -42.1 |
| | | 36.5 | -3.5 | 1762 | 3423 | 20.7 | -1.0 | 7 | 71 | | | | | |
| 6TH | 66.00 | | | | | | | | | 814.7 | -246.2 | 27.4 | 70.1 | -39.5 |
| | | 46.1 | -6.2 | 1762 | 3517 | 26.2 | -1.8 | 7 | 53 | | | | | |
| 7TH | 78.00 | | | | | | | | | 768.6 | -240.0 | 24.5 | 60.6 | -37.0 |
| | | 48.3 | -7.5 | 1762 | 3517 | 27.4 | -2.1 | 8 | 49 | | | | | |
| 8TH | 90.00 | | | | | | | | | 720.3 | -232.5 | 21.7 | 51.6 | -34.6 |
| | | 50.4 | -8.8 | 1762 | 3517 | 28.6 | -2.5 | 8 | 45 | | | | | |
| 9TH | 102.00 | | | | | | | | | 669.9 | -223.7 | 18.9 | 43.3 | -32.2 |
| | | 52.7 | -10.2 | 1762 | 3517 | 29.9 | -2.9 | 8 | 42 | | | | | |
| 10TH | 114.00 | | | | | | | | | 617.3 | -213.5 | 16.3 | 35.6 | -30.0 |
| | | 56.5 | -12.0 | 1762 | 3517 | 32.1 | -3.4 | 8 | 37 | | | | | |
| 11TH | 126.00 | | | | | | | | | 560.7 | -201.5 | 13.8 | 28.5 | -27.8 |
| | | 60.4 | -13.8 | 1762 | 3517 | 34.3 | -3.9 | 7 | 33 | | | | | |
| 12TH | 138.00 | | | | | | | | | 500.3 | -187.7 | 11.5 | 22.1 | -25.7 |
| | | 64.3 | -15.5 | 1762 | 3517 | 36.5 | -4.4 | 7 | 29 | | | | | |
| 13TH | 150.00 | | | | | | | | | 436.1 | -172.2 | 9.3 | 16.5 | -23.7 |
| | | 67.2 | -16.8 | 1762 | 3517 | 38.1 | -4.8 | 7 | 28 | | | | | |
| 14TH | 162.00 | | | | | | | | | 368.9 | -155.4 | 7.4 | 11.7 | -21.8 |
| | | 69.4 | -17.8 | 1762 | 3517 | 39.4 | -5.0 | 7 | 27 | | | | | |
| 15TH | 174.00 | | | | | | | | | 299.5 | -137.6 | 5.6 | 7.7 | -19.7 |
| | | 71.5 | -18.7 | 1762 | 3517 | 40.6 | -5.3 | 7 | 27 | | | | | |
| 16TH | 186.00 | | | | | | | | | 228.0 | -118.9 | 4.1 | 4.5 | -17.7 |
| | | 73.5 | -19.6 | 1762 | 3517 | 41.7 | -5.6 | 7 | 27 | | | | | |
| 17TH | 198.00 | | | | | | | | | 154.5 | -99.3 | 2.8 | 2.2 | -15.5 |
| | | 64.6 | -21.0 | 1762 | 3517 | 36.6 | -6.0 | 12 | 36 | | | | | |
| 18TH | 210.00 | | | | | | | | | 89.9 | -78.4 | 1.7 | .7 | -13.0 |
| | | 55.6 | -22.3 | 1762 | 3517 | 31.6 | -6.3 | 18 | 45 | | | | | |
| 19TH | 222.00 | | | | | | | | | 34.3 | -56.1 | .9 | -.0 | -10.0 |
| | | 46.7 | -23.6 | 1762 | 3517 | 26.5 | -6.7 | 28 | 56 | | | | | |
| MECH | 234.00 | | | | | | | | | -12.4 | -32.4 | .4 | -.1 | -6.7 |
| | | -12.4 | -32.4 | 2262 | 3733 | -5.5 | -8.7 | 181 | -69 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1060.2 | -243.3 | 38.9 | 141.7 | -79.2 |
| | | 20.7 | -12.9 | 1649 | 2872 | 12.5 | -4.5 | 69 | 111 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 1039.6 | -230.4 | 36.8 | 132.3 | -76.0 |
| | | 19.7 | -5.8 | 1687 | 2921 | 11.7 | -2.0 | 45 | 155 | | | | | |
| PONT | 18.00 | | | | | | | | | 1019.9 | -224.6 | 34.8 | 123.0 | -72.7 |
| | | 20.1 | -5.0 | 2351 | 4025 | 8.6 | -1.2 | 57 | 228 | | | | | |
| 3RD | 30.00 | | | | | | | | | 999.8 | -219.6 | 32.1 | 110.9 | -67.8 |
| | | 15.5 | -8.5 | 2282 | 3996 | 6.8 | -2.1 | 147 | 268 | | | | | |
| 4TH | 42.00 | | | | | | | | | 984.3 | -211.1 | 29.5 | 99.0 | -62.4 |
| | | 45.9 | -10.5 | 2047 | 3899 | 22.4 | -2.7 | 21 | 90 | | | | | |
| 5TH | 54.00 | | | | | | | | | 938.3 | -200.6 | 27.0 | 87.5 | -58.1 |
| | | 40.6 | 2.6 | 1762 | 3423 | 23.0 | .8 | -5 | 79 | | | | | |
| 6TH | 66.00 | | | | | | | | | 897.8 | -203.2 | 24.6 | 76.4 | -54.9 |
| | | 51.0 | -2.2 | 1762 | 3517 | 28.9 | -.6 | 3 | 67 | | | | | |
| 7TH | 78.00 | | | | | | | | | 846.8 | -201.0 | 22.2 | 66.0 | -51.4 |
| | | 53.5 | -3.5 | 1762 | 3517 | 30.4 | -1.0 | 4 | 62 | | | | | |
| 8TH | 90.00 | | | | | | | | | 793.3 | -197.5 | 19.8 | 56.1 | -48.1 |
| | | 56.0 | -4.8 | 1762 | 3517 | 31.8 | -1.4 | 5 | 56 | | | | | |
| 9TH | 102.00 | | | | | | | | | 737.3 | -192.7 | 17.5 | 47.0 | -45.0 |
| | | 58.7 | -6.1 | 1762 | 3517 | 33.3 | -1.7 | 5 | 52 | | | | | |
| 10TH | 114.00 | | | | | | | | | 678.6 | -186.7 | 15.2 | 38.5 | -41.9 |
| | | 63.2 | -8.0 | 1762 | 3517 | 35.9 | -2.3 | 6 | 47 | | | | | |
| 11TH | 126.00 | | | | | | | | | 615.4 | -178.7 | 13.0 | 30.7 | -38.8 |
| | | 67.7 | -9.9 | 1762 | 3517 | 38.4 | -2.8 | 6 | 43 | | | | | |
| 12TH | 138.00 | | | | | | | | | 547.7 | -168.7 | 10.9 | 23.7 | -35.8 |
| | | 72.2 | -11.9 | 1762 | 3517 | 41.0 | -3.4 | 7 | 40 | | | | | |
| 13TH | 150.00 | | | | | | | | | 475.4 | -156.8 | 9.0 | 17.6 | -32.9 |
| | | 75.4 | -13.4 | 1762 | 3517 | 42.8 | -3.8 | 7 | 39 | | | | | |
| 14TH | 162.00 | | | | | | | | | 400.1 | -143.4 | 7.2 | 12.3 | -29.8 |
| | | 77.4 | -14.6 | 1762 | 3517 | 43.9 | -4.2 | 7 | 39 | | | | | |
| 15TH | 174.00 | | | | | | | | | 322.7 | -128.8 | 5.5 | 8.0 | -26.7 |
| | | 79.5 | -15.9 | 1762 | 3517 | 45.1 | -4.5 | 8 | 39 | | | | | |
| 16TH | 186.00 | | | | | | | | | 243.2 | -112.9 | 4.1 | 4.6 | -23.4 |
| | | 81.3 | -17.1 | 1762 | 3517 | 46.1 | -4.9 | 8 | 40 | | | | | |
| 17TH | 198.00 | | | | | | | | | 161.9 | -95.8 | 2.8 | 2.2 | -20.1 |
| | | 70.4 | -18.5 | 1762 | 3517 | 40.0 | -5.2 | 13 | 49 | | | | | |
| 18TH | 210.00 | | | | | | | | | 91.4 | -77.3 | 1.8 | .6 | -16.4 |
| | | 59.6 | -19.8 | 1762 | 3517 | 33.8 | -5.6 | 20 | 61 | | | | | |
| 19TH | 222.00 | | | | | | | | | 31.8 | -57.5 | 1.0 | -.1 | -12.3 |
| | | 48.7 | -21.1 | 1762 | 3517 | 27.7 | -6.0 | 33 | 75 | | | | | |
| MECH | 234.00 | | | | | | | | | -16.9 | -36.4 | .4 | -.2 | -8.0 |
| | | -16.9 | -36.4 | 2262 | 3733 | -7.5 | -9.8 | 180 | -84 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1107.7 | -473.3 | 63.5 | 143.4 | -97.8 |
| | | 26.5 | -22.7 | 1649 | 2872 | 16.1 | -7.9 | 61 | 72 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 1081.2 | -450.7 | 59.3 | 133.5 | -94.5 |
| | | 26.5 | -17.1 | 1687 | 2921 | 15.7 | -5.8 | 60 | 93 | | | | | |
| PONT | 18.00 | | | | | | | | | 1054.7 | -433.6 | 55.3 | 123.9 | -91.0 |
| | | 29.8 | -21.6 | 2351 | 4025 | 12.7 | -5.4 | 84 | 116 | | | | | |
| 3RD | 30.00 | | | | | | | | | 1024.9 | -412.0 | 50.2 | 111.4 | -85.7 |
| | | 24.4 | -24.2 | 2282 | 3996 | 10.7 | -6.1 | 121 | 121 | | | | | |
| 4TH | 42.00 | | | | | | | | | 1000.5 | -387.8 | 45.4 | 99.3 | -79.8 |
| | | 47.4 | -25.5 | 2047 | 3899 | 23.1 | -6.5 | 45 | 83 | | | | | |
| 5TH | 54.00 | | | | | | | | | 953.1 | -362.3 | 40.9 | 87.6 | -74.8 |
| | | 43.6 | -9.3 | 1762 | 3423 | 24.7 | -2.7 | 19 | 88 | | | | | |
| 6TH | 66.00 | | | | | | | | | 909.6 | -353.0 | 36.6 | 76.4 | -70.7 |
| | | 53.4 | -13.6 | 1762 | 3517 | 30.3 | -3.9 | 20 | 78 | | | | | |
| 7TH | 78.00 | | | | | | | | | 856.2 | -339.5 | 32.5 | 65.8 | -66.3 |
| | | 56.3 | -15.3 | 1762 | 3517 | 32.0 | -4.3 | 19 | 71 | | | | | |
| 8TH | 90.00 | | | | | | | | | 799.8 | -324.2 | 28.5 | 55.8 | -62.0 |
| | | 59.3 | -17.0 | 1762 | 3517 | 33.7 | -4.8 | 19 | 66 | | | | | |
| 9TH | 102.00 | | | | | | | | | 740.5 | -307.1 | 24.7 | 46.6 | -57.8 |
| | | 62.3 | -18.7 | 1762 | 3517 | 35.4 | -5.3 | 18 | 61 | | | | | |
| 10TH | 114.00 | | | | | | | | | 678.2 | -288.4 | 21.2 | 38.1 | -53.6 |
| | | 65.9 | -20.1 | 1762 | 3517 | 37.4 | -5.7 | 18 | 57 | | | | | |
| 11TH | 126.00 | | | | | | | | | 612.3 | -268.3 | 17.8 | 30.3 | -49.5 |
| | | 69.5 | -21.6 | 1762 | 3517 | 39.5 | -6.1 | 17 | 54 | | | | | |
| 12TH | 138.00 | | | | | | | | | 542.7 | -246.7 | 14.7 | 23.4 | -45.4 |
| | | 73.1 | -23.0 | 1762 | 3517 | 41.5 | -6.5 | 16 | 52 | | | | | |
| 13TH | 150.00 | | | | | | | | | 469.6 | -223.7 | 11.9 | 17.3 | -41.2 |
| | | 75.5 | -23.9 | 1762 | 3517 | 42.9 | -6.8 | 16 | 51 | | | | | |
| 14TH | 162.00 | | | | | | | | | 394.1 | -199.8 | 9.4 | 12.2 | -37.0 |
| | | 77.0 | -24.5 | 1762 | 3517 | 43.7 | -7.0 | 16 | 52 | | | | | |
| 15TH | 174.00 | | | | | | | | | 317.1 | -175.3 | 7.1 | 7.9 | -32.6 |
| | | 78.5 | -25.0 | 1762 | 3517 | 44.6 | -7.1 | 17 | 52 | | | | | |
| 16TH | 186.00 | | | | | | | | | 238.6 | -150.3 | 5.2 | 4.6 | -28.1 |
| | | 79.7 | -25.5 | 1762 | 3517 | 45.3 | -7.3 | 17 | 53 | | | | | |
| 17TH | 198.00 | | | | | | | | | 158.9 | -124.8 | 3.5 | 2.2 | -23.4 |
| | | 68.7 | -26.5 | 1762 | 3517 | 39.0 | -7.5 | 24 | 62 | | | | | |
| 18TH | 210.00 | | | | | | | | | 90.1 | -98.3 | 2.2 | .7 | -18.5 |
| | | 57.8 | -27.5 | 1762 | 3517 | 32.8 | -7.8 | 34 | 71 | | | | | |
| 19TH | 222.00 | | | | | | | | | 32.4 | -70.8 | 1.2 | -.1 | -13.5 |
| | | 46.8 | -28.4 | 1762 | 3517 | 26.5 | -8.1 | 49 | 81 | | | | | |
| MECH | 234.00 | | | | | | | | | -14.4 | -42.4 | .5 | -.2 | -8.3 |
| | | -14.4 | -42.4 | 2262 | 3733 | -6.4 | -11.4 | 175 | -60 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 200 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1149.1 | -930.8 | 119.4 | 145.0 | -114.1 |
| | | 34.1 | -35.4 | 1649 | 2872 | 20.7 | -12.3 | 46 | 44 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 1114.9 | -895.4 | 111.2 | 134.8 | -111.0 |
| | | 33.3 | -31.4 | 1687 | 2921 | 19.7 | -10.8 | 50 | 53 | | | | | |
| PONT | 18.00 | | | | | | | | | 1081.6 | -864.0 | 103.2 | 124.9 | -107.6 |
| | | 39.9 | -43.6 | 2351 | 4025 | 17.0 | -10.8 | 64 | 59 | | | | | |
| 3RD | 30.00 | | | | | | | | | 1041.7 | -820.4 | 93.1 | 112.2 | -102.5 |
| | | 34.3 | -46.6 | 2282 | 3996 | 15.0 | -11.7 | 82 | 60 | | | | | |
| 4TH | 42.00 | | | | | | | | | 1007.5 | -773.8 | 83.6 | 99.9 | -96.6 |
| | | 49.9 | -46.1 | 2047 | 3899 | 24.4 | -11.8 | 54 | 58 | | | | | |
| 5TH | 54.00 | | | | | | | | | 957.6 | -727.7 | 74.6 | 88.1 | -91.2 |
| | | 46.6 | -31.8 | 1762 | 3423 | 26.4 | -9.3 | 44 | 65 | | | | | |
| 6TH | 66.00 | | | | | | | | | 911.0 | -695.9 | 66.0 | 76.9 | -86.8 |
| | | 55.4 | -37.0 | 1762 | 3517 | 31.4 | -10.5 | 42 | 63 | | | | | |
| 7TH | 78.00 | | | | | | | | | 855.7 | -658.9 | 57.9 | 66.3 | -81.7 |
| | | 58.1 | -39.7 | 1762 | 3517 | 33.0 | -11.3 | 41 | 60 | | | | | |
| 8TH | 90.00 | | | | | | | | | 797.6 | -619.2 | 50.2 | 56.4 | -76.6 |
| | | 60.8 | -42.4 | 1762 | 3517 | 34.5 | -12.1 | 39 | 56 | | | | | |
| 9TH | 102.00 | | | | | | | | | 736.7 | -576.8 | 43.1 | 47.2 | -71.5 |
| | | 63.5 | -45.0 | 1762 | 3517 | 36.1 | -12.8 | 38 | 54 | | | | | |
| 10TH | 114.00 | | | | | | | | | 673.2 | -531.9 | 36.4 | 38.7 | -66.4 |
| | | 66.1 | -45.5 | 1762 | 3517 | 37.5 | -12.9 | 37 | 54 | | | | | |
| 11TH | 126.00 | | | | | | | | | 607.1 | -486.4 | 30.3 | 31.0 | -61.2 |
| | | 68.7 | -46.1 | 1762 | 3517 | 39.0 | -13.1 | 36 | 54 | | | | | |
| 12TH | 138.00 | | | | | | | | | 538.4 | -440.3 | 24.7 | 24.2 | -55.8 |
| | | 71.3 | -46.6 | 1762 | 3517 | 40.5 | -13.3 | 35 | 54 | | | | | |
| 13TH | 150.00 | | | | | | | | | 467.1 | -393.7 | 19.7 | 18.1 | -50.3 |
| | | 73.1 | -47.1 | 1762 | 3517 | 41.5 | -13.4 | 35 | 54 | | | | | |
| 14TH | 162.00 | | | | | | | | | 394.0 | -346.6 | 15.3 | 13.0 | -44.7 |
| | | 74.2 | -47.4 | 1762 | 3517 | 42.1 | -13.5 | 35 | 55 | | | | | |
| 15TH | 174.00 | | | | | | | | | 319.9 | -299.2 | 11.4 | 8.7 | -39.0 |
| | | 75.3 | -47.8 | 1762 | 3517 | 42.7 | -13.6 | 35 | 55 | | | | | |
| 16TH | 186.00 | | | | | | | | | 244.6 | -251.4 | 8.1 | 5.3 | -33.1 |
| | | 76.1 | -48.2 | 1762 | 3517 | 43.2 | -13.7 | 36 | 56 | | | | | |
| 17TH | 198.00 | | | | | | | | | 168.5 | -203.2 | 5.4 | 2.8 | -27.1 |
| | | 66.0 | -48.1 | 1762 | 3517 | 37.4 | -13.7 | 44 | 60 | | | | | |
| 18TH | 210.00 | | | | | | | | | 102.5 | -155.1 | 3.2 | 1.2 | -21.1 |
| | | 55.8 | -48.0 | 1762 | 3517 | 31.7 | -13.6 | 54 | 63 | | | | | |
| 19TH | 222.00 | | | | | | | | | 46.8 | -107.1 | 1.7 | .3 | -15.0 |
| | | 45.6 | -47.8 | 1762 | 3517 | 25.9 | -13.6 | 67 | 64 | | | | | |
| MECH | 234.00 | | | | | | | | | 1.2 | -59.3 | .7 | .0 | -8.8 |
| | | 1.2 | -59.3 | 2262 | 3733 | .5 | -15.9 | 149 | 3 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 210 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1182.9 | -1504.6 | 187.5 | 145.5 | -135.2 |
| | | 41.3 | -51.8 | 1649 | 2872 | 25.0 | -18.0 | 39 | 31 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 1141.6 | -1452.8 | 174.2 | 135.0 | -131.9 |
| | | 40.1 | -50.9 | 1687 | 2921 | 23.8 | -17.4 | 44 | 34 | | | | | |
| PONT | 18.00 | | | | | | | | | 1101.5 | -1401.9 | 161.3 | 124.9 | -128.3 |
| | | 51.1 | -73.8 | 2351 | 4025 | 21.8 | -18.3 | 51 | 36 | | | | | |
| 3RD | 30.00 | | | | | | | | | 1050.4 | -1328.1 | 145.0 | 112.0 | -122.7 |
| | | 44.9 | -78.9 | 2282 | 3996 | 19.7 | -19.7 | 63 | 36 | | | | | |
| 4TH | 42.00 | | | | | | | | | 1005.5 | -1249.2 | 129.5 | 99.7 | -116.1 |
| | | 52.3 | -77.8 | 2047 | 3899 | 25.5 | -20.0 | 60 | 40 | | | | | |
| 5TH | 54.00 | | | | | | | | | 953.2 | -1171.4 | 115.0 | 87.9 | -109.3 |
| | | 50.6 | -61.2 | 1762 | 3423 | 28.7 | -17.9 | 52 | 43 | | | | | |
| 6TH | 66.00 | | | | | | | | | 902.6 | -1110.2 | 101.3 | 76.8 | -104.0 |
| | | 55.9 | -67.0 | 1762 | 3517 | 31.8 | -19.1 | 54 | 45 | | | | | |
| 7TH | 78.00 | | | | | | | | | 846.7 | -1043.2 | 88.4 | 66.3 | -97.9 |
| | | 58.3 | -69.5 | 1762 | 3517 | 33.1 | -19.8 | 52 | 44 | | | | | |
| 8TH | 90.00 | | | | | | | | | 788.3 | -973.7 | 76.3 | 56.5 | -91.7 |
| | | 60.7 | -71.9 | 1762 | 3517 | 34.5 | -20.4 | 51 | 43 | | | | | |
| 9TH | 102.00 | | | | | | | | | 727.6 | -901.8 | 65.0 | 47.4 | -85.4 |
| | | 63.1 | -74.2 | 1762 | 3517 | 35.8 | -21.1 | 50 | 42 | | | | | |
| 10TH | 114.00 | | | | | | | | | 664.4 | -827.6 | 54.6 | 39.0 | -79.0 |
| | | 65.2 | -74.9 | 1762 | 3517 | 37.0 | -21.3 | 50 | 43 | | | | | |
| 11TH | 126.00 | | | | | | | | | 599.2 | -752.8 | 45.2 | 31.4 | -72.4 |
| | | 67.4 | -75.5 | 1762 | 3517 | 38.2 | -21.5 | 50 | 44 | | | | | |
| 12TH | 138.00 | | | | | | | | | 531.8 | -677.3 | 36.6 | 24.6 | -65.7 |
| | | 69.5 | -76.2 | 1762 | 3517 | 39.4 | -21.7 | 50 | 45 | | | | | |
| 13TH | 150.00 | | | | | | | | | 462.4 | -601.1 | 28.9 | 18.7 | -58.8 |
| | | 70.8 | -76.8 | 1762 | 3517 | 40.2 | -21.8 | 49 | 46 | | | | | |
| 14TH | 162.00 | | | | | | | | | 391.6 | -524.3 | 22.2 | 13.6 | -51.8 |
| | | 71.4 | -77.3 | 1762 | 3517 | 40.5 | -22.0 | 50 | 46 | | | | | |
| 15TH | 174.00 | | | | | | | | | 320.2 | -447.0 | 16.3 | 9.3 | -44.7 |
| | | 72.0 | -77.9 | 1762 | 3517 | 40.9 | -22.2 | 50 | 46 | | | | | |
| 16TH | 186.00 | | | | | | | | | 248.2 | -369.1 | 11.4 | 5.9 | -37.5 |
| | | 72.5 | -78.4 | 1762 | 3517 | 41.1 | -22.3 | 50 | 46 | | | | | |
| 17TH | 198.00 | | | | | | | | | 175.7 | -290.7 | 7.5 | 3.3 | -30.3 |
| | | 63.3 | -74.3 | 1762 | 3517 | 35.9 | -21.1 | 55 | 47 | | | | | |
| 18TH | 210.00 | | | | | | | | | 112.4 | -216.4 | 4.4 | 1.6 | -23.2 |
| | | 54.1 | -70.2 | 1762 | 3517 | 30.7 | -20.0 | 62 | 48 | | | | | |
| 19TH | 222.00 | | | | | | | | | 58.3 | -146.2 | 2.2 | .6 | -16.3 |
| | | 44.9 | -66.1 | 1762 | 3517 | 25.5 | -18.8 | 70 | 47 | | | | | |
| MECH | 234.00 | | | | | | | | | 13.4 | -80.1 | .9 | .1 | -9.5 |
| | | 13.4 | -80.1 | 2262 | 3733 | 5.9 | -21.5 | 116 | 19 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1186.3 | -2014.9 | 251.0 | 143.4 | -154.5 |
| | | 44.8 | -66.7 | 1649 | 2872 | 27.2 | -23.2 | 39 | 26 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 1141.5 | -1948.2 | 233.2 | 132.9 | -150.8 |
| | | 44.5 | -68.1 | 1687 | 2921 | 26.4 | -23.3 | 42 | 27 | | | | | |
| PONT | 18.00 | | | | | | | | | 1097.0 | -1880.1 | 215.9 | 122.9 | -146.8 |
| | | 58.9 | -98.7 | 2351 | 4025 | 25.0 | -24.5 | 47 | 28 | | | | | |
| 3RD | 30.00 | | | | | | | | | 1038.1 | -1781.4 | 194.0 | 110.1 | -140.5 |
| | | 53.1 | -105.4 | 2282 | 3996 | 23.2 | -26.4 | 55 | 28 | | | | | |
| 4TH | 42.00 | | | | | | | | | 985.1 | -1676.0 | 173.2 | 97.9 | -133.2 |
| | | 53.2 | -102.8 | 2047 | 3899 | 26.0 | -26.4 | 61 | 31 | | | | | |
| 5TH | 54.00 | | | | | | | | | 931.9 | -1573.2 | 153.7 | 86.4 | -125.3 |
| | | 51.9 | -83.3 | 1762 | 3423 | 29.4 | -24.3 | 54 | 34 | | | | | |
| 6TH | 66.00 | | | | | | | | | 880.0 | -1489.9 | 135.3 | 75.5 | -119.1 |
| | | 55.7 | -91.8 | 1762 | 3517 | 31.6 | -26.1 | 57 | 34 | | | | | |
| 7TH | 78.00 | | | | | | | | | 824.3 | -1398.1 | 118.0 | 65.3 | -112.0 |
| | | 57.6 | -94.4 | 1762 | 3517 | 32.7 | -26.8 | 56 | 34 | | | | | |
| 8TH | 90.00 | | | | | | | | | 766.7 | -1303.7 | 101.8 | 55.8 | -104.7 |
| | | 59.6 | -97.0 | 1762 | 3517 | 33.8 | -27.6 | 56 | 34 | | | | | |
| 9TH | 102.00 | | | | | | | | | 707.1 | -1206.7 | 86.7 | 46.9 | -97.2 |
| | | 61.5 | -99.5 | 1762 | 3517 | 34.9 | -28.3 | 55 | 34 | | | | | |
| 10TH | 114.00 | | | | | | | | | 645.5 | -1107.2 | 72.9 | 38.8 | -89.7 |
| | | 63.2 | -100.6 | 1762 | 3517 | 35.9 | -28.6 | 55 | 35 | | | | | |
| 11TH | 126.00 | | | | | | | | | 582.4 | -1006.5 | 60.2 | 31.4 | -81.9 |
| | | 64.8 | -101.8 | 1762 | 3517 | 36.8 | -28.9 | 55 | 35 | | | | | |
| 12TH | 138.00 | | | | | | | | | 517.5 | -904.8 | 48.7 | 24.8 | -74.0 |
| | | 66.5 | -102.9 | 1762 | 3517 | 37.7 | -29.3 | 55 | 36 | | | | | |
| 13TH | 150.00 | | | | | | | | | 451.1 | -801.8 | 38.5 | 19.0 | -66.0 |
| | | 67.3 | -103.7 | 1762 | 3517 | 38.2 | -29.5 | 55 | 36 | | | | | |
| 14TH | 162.00 | | | | | | | | | 383.7 | -698.2 | 29.5 | 14.0 | -57.9 |
| | | 67.6 | -104.0 | 1762 | 3517 | 38.4 | -29.6 | 55 | 36 | | | | | |
| 15TH | 174.00 | | | | | | | | | 316.1 | -594.1 | 21.7 | 9.8 | -49.7 |
| | | 67.9 | -104.4 | 1762 | 3517 | 38.5 | -29.7 | 55 | 36 | | | | | |
| 16TH | 186.00 | | | | | | | | | 248.2 | -489.7 | 15.2 | 6.4 | -41.5 |
| | | 68.0 | -104.7 | 1762 | 3517 | 38.6 | -29.8 | 56 | 36 | | | | | |
| 17TH | 198.00 | | | | | | | | | 180.2 | -385.0 | 10.0 | 3.9 | -33.2 |
| | | 59.2 | -98.2 | 1762 | 3517 | 33.6 | -27.9 | 60 | 36 | | | | | |
| 18TH | 210.00 | | | | | | | | | 121.0 | -286.7 | 5.9 | 2.1 | -25.2 |
| | | 50.5 | -91.8 | 1762 | 3517 | 28.7 | -26.1 | 65 | 36 | | | | | |
| 19TH | 222.00 | | | | | | | | | 70.5 | -194.9 | 3.0 | .9 | -17.4 |
| | | 41.8 | -85.4 | 1762 | 3517 | 23.7 | -24.3 | 71 | 35 | | | | | |
| MECH | 234.00 | | | | | | | | | 28.7 | -109.6 | 1.2 | .3 | -9.9 |
| | | 28.7 | -109.6 | 2262 | 3733 | 12.7 | -29.3 | 85 | 22 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1005.5 | -2269.3 | 280.5 | 117.1 | -157.1 |
| | | 43.6 | -76.9 | 1649 | 2872 | 26.5 | -26.8 | 39 | 22 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 961.8 | -2192.4 | 260.4 | 108.3 | -153.1 |
| | | 43.9 | -77.7 | 1687 | 2921 | 26.0 | -26.6 | 41 | 23 | | | | | |
| PONT | 18.00 | | | | | | | | | 917.9 | -2114.7 | 241.0 | 99.8 | -148.9 |
| | | 57.8 | -110.2 | 2351 | 4025 | 24.6 | -27.4 | 44 | 23 | | | | | |
| 3RD | 30.00 | | | | | | | | | 860.1 | -2004.5 | 216.3 | 89.1 | -142.7 |
| | | 51.6 | -117.2 | 2282 | 3996 | 22.6 | -29.3 | 52 | 23 | | | | | |
| 4TH | 42.00 | | | | | | | | | 808.5 | -1887.3 | 192.9 | 79.1 | -135.4 |
| | | 45.8 | -114.6 | 2047 | 3899 | 22.4 | -29.4 | 60 | 24 | | | | | |
| 5TH | 54.00 | | | | | | | | | 762.7 | -1772.8 | 171.0 | 69.7 | -127.4 |
| | | 46.1 | -94.7 | 1762 | 3423 | 26.2 | -27.7 | 55 | 27 | | | | | |
| 6TH | 66.00 | | | | | | | | | 716.6 | -1678.1 | 150.3 | 60.8 | -120.9 |
| | | 47.1 | -104.8 | 1762 | 3517 | 26.7 | -29.8 | 59 | 27 | | | | | |
| 7TH | 78.00 | | | | | | | | | 669.5 | -1573.3 | 130.8 | 52.5 | -113.5 |
| | | 48.5 | -108.1 | 1762 | 3517 | 27.5 | -30.8 | 59 | 26 | | | | | |
| 8TH | 90.00 | | | | | | | | | 621.0 | -1465.2 | 112.5 | 44.8 | -105.8 |
| | | 49.8 | -111.5 | 1762 | 3517 | 28.3 | -31.7 | 58 | 26 | | | | | |
| 9TH | 102.00 | | | | | | | | | 571.2 | -1353.7 | 95.6 | 37.6 | -98.1 |
| | | 51.1 | -114.7 | 1762 | 3517 | 29.0 | -32.6 | 58 | 26 | | | | | |
| 10TH | 114.00 | | | | | | | | | 520.1 | -1239.0 | 80.1 | 31.1 | -90.2 |
| | | 52.1 | -115.5 | 1762 | 3517 | 29.6 | -32.8 | 58 | 26 | | | | | |
| 11TH | 126.00 | | | | | | | | | 468.0 | -1123.5 | 65.9 | 25.1 | -82.1 |
| | | 53.1 | -116.3 | 1762 | 3517 | 30.1 | -33.1 | 58 | 26 | | | | | |
| 12TH | 138.00 | | | | | | | | | 414.9 | -1007.2 | 53.1 | 19.8 | -74.0 |
| | | 54.1 | -117.2 | 1762 | 3517 | 30.7 | -33.3 | 58 | 27 | | | | | |
| 13TH | 150.00 | | | | | | | | | 360.8 | -890.0 | 41.7 | 15.2 | -65.8 |
| | | 54.4 | -117.9 | 1762 | 3517 | 30.9 | -33.5 | 58 | 27 | | | | | |
| 14TH | 162.00 | | | | | | | | | 306.4 | -772.1 | 31.7 | 11.2 | -57.5 |
| | | 54.2 | -118.4 | 1762 | 3517 | 30.8 | -33.7 | 58 | 27 | | | | | |
| 15TH | 174.00 | | | | | | | | | 252.2 | -653.7 | 23.2 | 7.8 | -49.3 |
| | | 54.1 | -119.0 | 1762 | 3517 | 30.7 | -33.8 | 58 | 26 | | | | | |
| 16TH | 186.00 | | | | | | | | | 198.1 | -534.7 | 16.1 | 5.1 | -40.9 |
| | | 53.8 | -119.4 | 1762 | 3517 | 30.5 | -34.0 | 58 | 26 | | | | | |
| 17TH | 198.00 | | | | | | | | | 144.3 | -415.2 | 10.4 | 3.1 | -32.6 |
| | | 47.3 | -111.3 | 1762 | 3517 | 26.8 | -31.6 | 62 | 26 | | | | | |
| 18TH | 210.00 | | | | | | | | | 97.0 | -303.9 | 6.0 | 1.6 | -24.5 |
| | | 40.8 | -103.1 | 1762 | 3517 | 23.1 | -29.3 | 66 | 26 | | | | | |
| 19TH | 222.00 | | | | | | | | | 56.2 | -200.9 | 3.0 | .7 | -16.7 |
| | | 34.3 | -94.9 | 1762 | 3517 | 19.4 | -27.0 | 70 | 25 | | | | | |
| MECH | 234.00 | | | | | | | | | 22.0 | -106.0 | 1.2 | .2 | -9.1 |
| | | 22.0 | -106.0 | 2262 | 3733 | 9.7 | -28.4 | 83 | 17 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 756.0 | -2309.0 | 283.7 | 84.2 | -150.2 |
| | | 39.7 | -82.3 | 1649 | 2872 | 24.1 | -28.6 | 40 | 19 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 716.3 | -2226.8 | 263.3 | 77.6 | -146.1 |
| | | 39.9 | -80.6 | 1687 | 2921 | 23.6 | -27.6 | 41 | 20 | | | | | |
| PONT | 18.00 | | | | | | | | | 676.4 | -2146.1 | 243.6 | 71.3 | -142.0 |
| | | 52.2 | -112.0 | 2351 | 4025 | 22.2 | -27.8 | 44 | 21 | | | | | |
| 3RD | 30.00 | | | | | | | | | 624.2 | -2034.2 | 218.5 | 63.5 | -136.0 |
| | | 45.8 | -118.8 | 2282 | 3996 | 20.1 | -29.7 | 50 | 19 | | | | | |
| 4TH | 42.00 | | | | | | | | | 578.5 | -1915.3 | 194.8 | 56.3 | -129.1 |
| | | 34.9 | -115.7 | 2047 | 3899 | 17.1 | -29.7 | 60 | 18 | | | | | |
| 5TH | 54.00 | | | | | | | | | 543.5 | -1799.6 | 172.6 | 49.6 | -121.5 |
| | | 34.4 | -96.0 | 1762 | 3423 | 19.5 | -28.0 | 57 | 20 | | | | | |
| 6TH | 66.00 | | | | | | | | | 509.2 | -1703.6 | 151.5 | 43.3 | -115.4 |
| | | 34.1 | -106.4 | 1762 | 3517 | 19.4 | -30.2 | 61 | 20 | | | | | |
| 7TH | 78.00 | | | | | | | | | 475.1 | -1597.3 | 131.7 | 37.4 | -108.2 |
| | | 34.8 | -110.0 | 1762 | 3517 | 19.8 | -31.3 | 60 | 19 | | | | | |
| 8TH | 90.00 | | | | | | | | | 440.2 | -1487.3 | 113.2 | 31.9 | -100.9 |
| | | 35.6 | -113.6 | 1762 | 3517 | 20.2 | -32.3 | 60 | 19 | | | | | |
| 9TH | 102.00 | | | | | | | | | 404.7 | -1373.7 | 96.1 | 26.8 | -93.5 |
| | | 36.3 | -117.0 | 1762 | 3517 | 20.6 | -33.3 | 59 | 18 | | | | | |
| 10TH | 114.00 | | | | | | | | | 368.4 | -1256.7 | 80.3 | 22.2 | -85.9 |
| | | 36.9 | -118.2 | 1762 | 3517 | 20.9 | -33.6 | 59 | 19 | | | | | |
| 11TH | 126.00 | | | | | | | | | 331.5 | -1138.5 | 65.9 | 18.0 | -78.2 |
| | | 37.4 | -119.4 | 1762 | 3517 | 21.3 | -34.0 | 60 | 19 | | | | | |
| 12TH | 138.00 | | | | | | | | | 294.1 | -1019.1 | 53.0 | 14.2 | -70.4 |
| | | 38.0 | -120.6 | 1762 | 3517 | 21.6 | -34.3 | 60 | 19 | | | | | |
| 13TH | 150.00 | | | | | | | | | 256.1 | -898.5 | 41.5 | 10.9 | -62.5 |
| | | 38.2 | -121.4 | 1762 | 3517 | 21.7 | -34.5 | 60 | 19 | | | | | |
| 14TH | 162.00 | | | | | | | | | 217.8 | -777.1 | 31.4 | 8.1 | -54.5 |
| | | 38.1 | -121.8 | 1762 | 3517 | 21.6 | -34.6 | 60 | 19 | | | | | |
| 15TH | 174.00 | | | | | | | | | 179.7 | -655.2 | 22.8 | 5.7 | -46.5 |
| | | 38.0 | -122.2 | 1762 | 3517 | 21.6 | -34.8 | 60 | 19 | | | | | |
| 16TH | 186.00 | | | | | | | | | 141.7 | -533.0 | 15.7 | 3.8 | -38.5 |
| | | 37.8 | -122.5 | 1762 | 3517 | 21.5 | -34.8 | 60 | 18 | | | | | |
| 17TH | 198.00 | | | | | | | | | 103.9 | -410.5 | 10.0 | 2.3 | -30.5 |
| | | 33.3 | -113.4 | 1762 | 3517 | 18.9 | -32.2 | 63 | 18 | | | | | |
| 18TH | 210.00 | | | | | | | | | 70.6 | -297.1 | 5.8 | 1.2 | -22.7 |
| | | 28.7 | -104.3 | 1762 | 3517 | 16.3 | -29.7 | 67 | 18 | | | | | |
| 19TH | 222.00 | | | | | | | | | 41.9 | -192.8 | 2.8 | .6 | -15.3 |
| | | 24.1 | -95.2 | 1762 | 3517 | 13.7 | -27.1 | 71 | 18 | | | | | |
| MECH | 234.00 | | | | | | | | | 17.8 | -97.6 | 1.1 | .2 | -8.1 |
| | | 17.8 | -97.6 | 2262 | 3733 | 7.9 | -26.1 | 80 | 15 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 250 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 478.1 | -2220.1 | 271.3 | 48.4 | -139.3 |
| | | 33.9 | -83.2 | 1649 | 2872 | 20.5 | -29.0 | 41 | 17 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 444.2 | -2136.9 | 251.7 | 44.2 | -135.3 |
| | | 34.7 | -80.6 | 1687 | 2921 | 20.6 | -27.6 | 42 | 18 | | | | | |
| PONT | 18.00 | | | | | | | | | 409.5 | -2056.3 | 232.8 | 40.4 | -131.3 |
| | | 44.5 | -109.9 | 2351 | 4025 | 18.9 | -27.3 | 44 | 18 | | | | | |
| 3RD | 30.00 | | | | | | | | | 365.0 | -1946.4 | 208.8 | 35.8 | -125.7 |
| | | 37.1 | -115.0 | 2282 | 3996 | 16.3 | -28.8 | 51 | 16 | | | | | |
| 4TH | 42.00 | | | | | | | | | 327.9 | -1831.3 | 186.1 | 31.6 | -119.2 |
| | | 23.3 | -111.7 | 2047 | 3899 | 11.4 | -28.7 | 61 | 13 | | | | | |
| 5TH | 54.00 | | | | | | | | | 304.6 | -1719.6 | 164.8 | 27.8 | -112.0 |
| | | 19.9 | -89.6 | 1762 | 3423 | 11.3 | -26.2 | 59 | 13 | | | | | |
| 6TH | 66.00 | | | | | | | | | 284.6 | -1630.0 | 144.7 | 24.3 | -106.5 |
| | | 19.2 | -100.8 | 1762 | 3517 | 10.9 | -28.7 | 63 | 12 | | | | | |
| 7TH | 78.00 | | | | | | | | | 265.5 | -1529.2 | 125.8 | 21.0 | -99.9 |
| | | 19.7 | -104.4 | 1762 | 3517 | 11.2 | -29.7 | 63 | 12 | | | | | |
| 8TH | 90.00 | | | | | | | | | 245.8 | -1424.8 | 108.1 | 17.9 | -93.1 |
| | | 20.2 | -108.0 | 1762 | 3517 | 11.4 | -30.7 | 62 | 12 | | | | | |
| 9TH | 102.00 | | | | | | | | | 225.7 | -1316.8 | 91.6 | 15.1 | -86.2 |
| | | 20.6 | -111.4 | 1762 | 3517 | 11.7 | -31.7 | 62 | 11 | | | | | |
| 10TH | 114.00 | | | | | | | | | 205.0 | -1205.4 | 76.5 | 12.5 | -79.1 |
| | | 20.8 | -113.1 | 1762 | 3517 | 11.8 | -32.2 | 61 | 11 | | | | | |
| 11TH | 126.00 | | | | | | | | | 184.3 | -1092.3 | 62.7 | 10.2 | -71.9 |
| | | 20.9 | -114.7 | 1762 | 3517 | 11.8 | -32.6 | 61 | 11 | | | | | |
| 12TH | 138.00 | | | | | | | | | 163.4 | -977.6 | 50.3 | 8.1 | -64.6 |
| | | 21.0 | -116.4 | 1762 | 3517 | 11.9 | -33.1 | 61 | 11 | | | | | |
| 13TH | 150.00 | | | | | | | | | 142.4 | -861.2 | 39.2 | 6.2 | -57.3 |
| | | 20.9 | -117.4 | 1762 | 3517 | 11.9 | -33.4 | 61 | 11 | | | | | |
| 14TH | 162.00 | | | | | | | | | 121.5 | -743.8 | 29.6 | 4.7 | -49.8 |
| | | 20.8 | -118.0 | 1762 | 3517 | 11.8 | -33.5 | 61 | 11 | | | | | |
| 15TH | 174.00 | | | | | | | | | 100.7 | -625.8 | 21.4 | 3.3 | -42.4 |
| | | 20.7 | -118.5 | 1762 | 3517 | 11.8 | -33.7 | 62 | 11 | | | | | |
| 16TH | 186.00 | | | | | | | | | 79.9 | -507.2 | 14.6 | 2.2 | -34.8 |
| | | 20.6 | -118.9 | 1762 | 3517 | 11.7 | -33.8 | 62 | 11 | | | | | |
| 17TH | 198.00 | | | | | | | | | 59.4 | -388.3 | 9.2 | 1.4 | -27.3 |
| | | 17.9 | -110.2 | 1762 | 3517 | 10.2 | -31.3 | 64 | 10 | | | | | |
| 18TH | 210.00 | | | | | | | | | 41.4 | -278.1 | 5.2 | .8 | -20.0 |
| | | 15.3 | -101.6 | 1762 | 3517 | 8.7 | -28.9 | 67 | 10 | | | | | |
| 19TH | 222.00 | | | | | | | | | 26.1 | -176.5 | 2.5 | .4 | -13.0 |
| | | 12.6 | -92.9 | 1762 | 3517 | 7.2 | -26.4 | 70 | 10 | | | | | |
| MECH | 234.00 | | | | | | | | | 13.5 | -83.6 | .9 | .2 | -6.4 |
| | | 13.5 | -83.6 | 2262 | 3733 | 6.0 | -22.4 | 74 | 12 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 175.3 | -2081.4 | 251.5 | 8.4 | -130.2 |
| | | 28.2 | -80.8 | 1649 | 2872 | 17.1 | -28.1 | 43 | 15 | | | | | |
| MEZZ | 9.00 | | | | | | | | | 147.1 | -2000.6 | 233.1 | 6.9 | -126.3 |
| | | 28.8 | -77.7 | 1687 | 2921 | 17.1 | -26.6 | 44 | 16 | | | | | |
| PONT | 18.00 | | | | | | | | | 118.3 | -1922.9 | 215.5 | 5.7 | -122.4 |
| | | 36.7 | -105.6 | 2351 | 4025 | 15.6 | -26.2 | 46 | 16 | | | | | |
| 3RD | 30.00 | | | | | | | | | 81.5 | -1817.3 | 193.0 | 4.5 | -117.0 |
| | | 27.9 | -108.8 | 2282 | 3996 | 12.2 | -27.2 | 54 | 14 | | | | | |
| 4TH | 42.00 | | | | | | | | | 53.7 | -1708.5 | 171.9 | 3.7 | -110.8 |
| | | 11.6 | -104.9 | 2047 | 3899 | 5.7 | -26.9 | 64 | 7 | | | | | |
| 5TH | 54.00 | | | | | | | | | 42.1 | -1603.6 | 152.0 | 3.2 | -104.0 |
| | | 1.8 | -83.0 | 1762 | 3423 | 1.0 | -24.3 | 61 | 1 | | | | | |
| 6TH | 66.00 | | | | | | | | | 40.3 | -1520.5 | 133.3 | 2.7 | -98.9 |
| | | 2.1 | -94.5 | 1762 | 3517 | 1.2 | -26.9 | 64 | 1 | | | | | |
| 7TH | 78.00 | | | | | | | | | 38.2 | -1426.0 | 115.6 | 2.2 | -92.8 |
| | | 2.9 | -98.2 | 1762 | 3517 | 1.7 | -27.9 | 64 | 2 | | | | | |
| 8TH | 90.00 | | | | | | | | | 35.3 | -1327.8 | 99.1 | 1.8 | -86.6 |
| | | 3.7 | -101.8 | 1762 | 3517 | 2.1 | -29.0 | 63 | 2 | | | | | |
| 9TH | 102.00 | | | | | | | | | 31.6 | -1226.0 | 83.7 | 1.4 | -80.1 |
| | | 4.4 | -105.3 | 1762 | 3517 | 2.5 | -29.9 | 63 | 3 | | | | | |
| 10TH | 114.00 | | | | | | | | | 27.2 | -1120.7 | 69.7 | 1.0 | -73.5 |
| | | 4.1 | -106.9 | 1762 | 3517 | 2.3 | -30.4 | 63 | 2 | | | | | |
| 11TH | 126.00 | | | | | | | | | 23.1 | -1013.8 | 56.8 | .7 | -66.8 |
| | | 3.7 | -108.6 | 1762 | 3517 | 2.1 | -30.9 | 63 | 2 | | | | | |
| 12TH | 138.00 | | | | | | | | | 19.3 | -905.2 | 45.3 | .4 | -60.0 |
| | | 3.4 | -110.2 | 1762 | 3517 | 1.9 | -31.3 | 62 | 2 | | | | | |
| 13TH | 150.00 | | | | | | | | | 15.9 | -795.0 | 35.1 | .2 | -53.2 |
| | | 3.4 | -111.3 | 1762 | 3517 | 1.9 | -31.6 | 63 | 2 | | | | | |
| 14TH | 162.00 | | | | | | | | | 12.5 | -683.7 | 26.3 | .1 | -46.2 |
| | | 3.6 | -111.9 | 1762 | 3517 | 2.1 | -31.8 | 63 | 2 | | | | | |
| 15TH | 174.00 | | | | | | | | | 8.9 | -571.8 | 18.7 | -.1 | -39.1 |
| | | 3.8 | -112.6 | 1762 | 3517 | 2.2 | -32.0 | 63 | 2 | | | | | |
| 16TH | 186.00 | | | | | | | | | 5.1 | -459.2 | 12.5 | -.1 | -32.0 |
| | | 4.0 | -113.0 | 1762 | 3517 | 2.3 | -32.1 | 63 | 2 | | | | | |
| 17TH | 198.00 | | | | | | | | | 1.0 | -346.2 | 7.7 | -.2 | -24.9 |
| | | 3.2 | -104.6 | 1762 | 3517 | 1.8 | -29.7 | 65 | 2 | | | | | |
| 18TH | 210.00 | | | | | | | | | -2.2 | -241.6 | 4.2 | -.2 | -18.0 |
| | | 2.4 | -96.2 | 1762 | 3517 | 1.4 | -27.4 | 68 | 2 | | | | | |
| 19TH | 222.00 | | | | | | | | | -4.7 | -145.4 | 1.9 | -.1 | -11.5 |
| | | 1.7 | -87.8 | 1762 | 3517 | .9 | -25.0 | 70 | 1 | | | | | |
| MECH | 234.00 | | | | | | | | | -6.3 | -57.6 | .6 | -.1 | -5.3 |
| | | -6.3 | -57.6 | 2262 | 3733 | -2.8 | -15.4 | 91 | -10 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 270 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -138.7 | -2036.3 | 245.9 | -33.5 | -132.5 |
| | | 24.5 | -77.4 | 1649 | 2872 | 14.8 | -27.0 | 45 | 14 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -163.1 | -1958.8 | 227.9 | -32.2 | -128.7 |
| | | 23.6 | -74.8 | 1687 | 2921 | 14.0 | -25.6 | 47 | 15 | | | | | |
| PONT | 18.00 | | | | | | | | | -186.7 | -1884.0 | 210.6 | -30.6 | -124.9 |
| | | 29.0 | -103.9 | 2351 | 4025 | 12.4 | -25.8 | 49 | 14 | | | | | |
| 3RD | 30.00 | | | | | | | | | -215.8 | -1780.2 | 188.6 | -28.2 | -119.4 |
| | | 19.5 | -107.4 | 2282 | 3996 | 8.6 | -26.9 | 57 | 10 | | | | | |
| 4TH | 42.00 | | | | | | | | | -235.3 | -1672.8 | 167.9 | -25.5 | -113.0 |
| | | -1.8 | -101.6 | 2047 | 3899 | -.9 | -26.1 | 66 | -1 | | | | | |
| 5TH | 54.00 | | | | | | | | | -233.5 | -1571.2 | 148.4 | -22.6 | -106.3 |
| | | -15.0 | -79.7 | 1762 | 3423 | -8.5 | -23.3 | 60 | -11 | | | | | |
| 6TH | 66.00 | | | | | | | | | -218.5 | -1491.5 | 130.0 | -19.9 | -101.3 |
| | | -15.2 | -91.4 | 1762 | 3517 | -8.7 | -26.0 | 64 | -11 | | | | | |
| 7TH | 78.00 | | | | | | | | | -203.3 | -1400.0 | 112.7 | -17.4 | -95.3 |
| | | -14.7 | -95.3 | 1762 | 3517 | -8.4 | -27.1 | 64 | -10 | | | | | |
| 8TH | 90.00 | | | | | | | | | -188.6 | -1304.8 | 96.5 | -15.1 | -89.1 |
| | | -14.2 | -99.1 | 1762 | 3517 | -8.0 | -28.2 | 64 | -9 | | | | | |
| 9TH | 102.00 | | | | | | | | | -174.4 | -1205.7 | 81.4 | -12.9 | -82.7 |
| | | -13.7 | -102.8 | 1762 | 3517 | -7.8 | -29.2 | 64 | -8 | | | | | |
| 10TH | 114.00 | | | | | | | | | -160.7 | -1102.9 | 67.5 | -10.9 | -76.0 |
| | | -14.0 | -105.3 | 1762 | 3517 | -8.0 | -29.9 | 64 | -9 | | | | | |
| 11TH | 126.00 | | | | | | | | | -146.7 | -997.6 | 54.9 | -9.0 | -69.2 |
| | | -14.3 | -107.8 | 1762 | 3517 | -8.1 | -30.6 | 64 | -9 | | | | | |
| 12TH | 138.00 | | | | | | | | | -132.3 | -889.9 | 43.6 | -7.3 | -62.2 |
| | | -14.6 | -110.2 | 1762 | 3517 | -8.3 | -31.3 | 64 | -9 | | | | | |
| 13TH | 150.00 | | | | | | | | | -117.7 | -779.6 | 33.6 | -5.8 | -55.0 |
| | | -14.7 | -111.7 | 1762 | 3517 | -8.4 | -31.8 | 64 | -9 | | | | | |
| 14TH | 162.00 | | | | | | | | | -103.0 | -668.0 | 24.9 | -4.5 | -47.6 |
| | | -14.7 | -112.3 | 1762 | 3517 | -8.3 | -31.9 | 65 | -8 | | | | | |
| 15TH | 174.00 | | | | | | | | | -88.3 | -555.6 | 17.6 | -3.4 | -40.3 |
| | | -14.7 | -113.0 | 1762 | 3517 | -8.3 | -32.1 | 65 | -8 | | | | | |
| 16TH | 186.00 | | | | | | | | | -73.6 | -442.6 | 11.6 | -2.4 | -32.8 |
| | | -14.6 | -113.4 | 1762 | 3517 | -8.3 | -32.3 | 65 | -8 | | | | | |
| 17TH | 198.00 | | | | | | | | | -59.0 | -329.2 | 7.0 | -1.6 | -25.3 |
| | | -13.9 | -104.5 | 1762 | 3517 | -7.9 | -29.7 | 67 | -9 | | | | | |
| 18TH | 210.00 | | | | | | | | | -45.1 | -224.7 | 3.6 | -1.0 | -18.2 |
| | | -13.2 | -95.5 | 1762 | 3517 | -7.5 | -27.2 | 69 | -10 | | | | | |
| 19TH | 222.00 | | | | | | | | | -31.8 | -129.3 | 1.5 | -.5 | -11.5 |
| | | -12.5 | -86.5 | 1762 | 3517 | -7.1 | -24.6 | 72 | -10 | | | | | |
| MECH | 234.00 | | | | | | | | | -19.3 | -42.8 | .5 | -.2 | -5.2 |
| | | -19.3 | -42.8 | 2262 | 3733 | -8.5 | -11.5 | 101 | -45 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -326.2 | -1883.8 | 227.6 | -58.4 | -135.4 |
| | | 22.6 | -73.0 | 1649 | 2872 | 13.7 | -25.4 | 47 | 15 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -348.7 | -1810.8 | 211.0 | -55.4 | -131.6 |
| | | 20.5 | -70.6 | 1687 | 2921 | 12.2 | -24.2 | 49 | 14 | | | | | |
| PONT | 18.00 | | | | | | | | | -369.2 | -1740.2 | 195.0 | -52.1 | -127.9 |
| | | 20.5 | -94.8 | 2351 | 4025 | 8.7 | -23.6 | 55 | 12 | | | | | |
| 3RD | 30.00 | | | | | | | | | -389.7 | -1645.4 | 174.7 | -47.6 | -122.4 |
| | | 12.9 | -97.2 | 2282 | 3996 | 5.6 | -24.3 | 63 | 8 | | | | | |
| 4TH | 42.00 | | | | | | | | | -402.6 | -1548.2 | 155.5 | -42.8 | -116.2 |
| | | -9.8 | -91.4 | 2047 | 3899 | -4.8 | -23.4 | 73 | -8 | | | | | |
| 5TH | 54.00 | | | | | | | | | -392.8 | -1456.8 | 137.5 | -38.0 | -109.4 |
| | | -24.4 | -72.9 | 1762 | 3423 | -13.8 | -21.3 | 63 | -21 | | | | | |
| 6TH | 66.00 | | | | | | | | | -368.4 | -1383.9 | 120.4 | -33.5 | -104.3 |
| | | -25.4 | -84.7 | 1762 | 3517 | -14.4 | -24.1 | 67 | -20 | | | | | |
| 7TH | 78.00 | | | | | | | | | -343.0 | -1299.2 | 104.3 | -29.2 | -98.1 |
| | | -24.9 | -88.3 | 1762 | 3517 | -14.1 | -25.1 | 68 | -19 | | | | | |
| 8TH | 90.00 | | | | | | | | | -318.2 | -1211.0 | 89.3 | -25.2 | -91.6 |
| | | -24.4 | -91.9 | 1762 | 3517 | -13.9 | -26.1 | 68 | -18 | | | | | |
| 9TH | 102.00 | | | | | | | | | -293.7 | -1119.1 | 75.3 | -21.6 | -84.9 |
| | | -24.0 | -95.4 | 1762 | 3517 | -13.6 | -27.1 | 69 | -17 | | | | | |
| 10TH | 114.00 | | | | | | | | | -269.8 | -1023.7 | 62.4 | -18.2 | -77.9 |
| | | -23.9 | -97.7 | 1762 | 3517 | -13.6 | -27.8 | 69 | -17 | | | | | |
| 11TH | 126.00 | | | | | | | | | -245.8 | -926.0 | 50.7 | -15.1 | -70.8 |
| | | -23.9 | -99.9 | 1762 | 3517 | -13.6 | -28.4 | 68 | -16 | | | | | |
| 12TH | 138.00 | | | | | | | | | -221.9 | -826.1 | 40.2 | -12.3 | -63.5 |
| | | -23.9 | -102.2 | 1762 | 3517 | -13.6 | -29.1 | 68 | -16 | | | | | |
| 13TH | 150.00 | | | | | | | | | -198.0 | -723.9 | 30.9 | -9.8 | -56.2 |
| | | -24.0 | -103.8 | 1762 | 3517 | -13.6 | -29.5 | 68 | -16 | | | | | |
| 14TH | 162.00 | | | | | | | | | -174.0 | -620.1 | 22.9 | -7.5 | -48.7 |
| | | -24.1 | -104.9 | 1762 | 3517 | -13.7 | -29.8 | 68 | -16 | | | | | |
| 15TH | 174.00 | | | | | | | | | -149.9 | -515.2 | 16.0 | -5.6 | -41.2 |
| | | -24.3 | -106.1 | 1762 | 3517 | -13.8 | -30.2 | 68 | -16 | | | | | |
| 16TH | 186.00 | | | | | | | | | -125.6 | -409.1 | 10.5 | -3.9 | -33.6 |
| | | -24.5 | -107.0 | 1762 | 3517 | -13.9 | -30.4 | 68 | -16 | | | | | |
| 17TH | 198.00 | | | | | | | | | -101.1 | -302.1 | 6.2 | -2.6 | -25.9 |
| | | -24.8 | -98.1 | 1762 | 3517 | -14.1 | -27.9 | 70 | -18 | | | | | |
| 18TH | 210.00 | | | | | | | | | -76.3 | -204.0 | 3.2 | -1.5 | -18.6 |
| | | -25.1 | -89.2 | 1762 | 3517 | -14.2 | -25.4 | 72 | -20 | | | | | |
| 19TH | 222.00 | | | | | | | | | -51.3 | -114.8 | 1.3 | -.8 | -11.6 |
| | | -25.4 | -80.3 | 1762 | 3517 | -14.4 | -22.8 | 75 | -24 | | | | | |
| MECH | 234.00 | | | | | | | | | -25.9 | -34.4 | .4 | -.3 | -5.0 |
| | | -25.9 | -34.4 | 2262 | 3733 | -11.4 | -9.2 | 93 | -70 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 290 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -26.6 | -2495.7 | 300.3 | -15.8 | -204.9 |
| | | 26.7 | -93.3 | 1649 | 2872 | 16.2 | -32.5 | 56 | 16 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -53.3 | -2402.3 | 278.3 | -15.5 | -199.2 |
| | | 23.9 | -93.7 | 1687 | 2921 | 14.2 | -32.1 | 59 | 15 | | | | | |
| PONT | 18.00 | | | | | | | | | -77.2 | -2308.6 | 257.1 | -14.9 | -193.3 |
| | | 25.1 | -127.7 | 2351 | 4025 | 10.7 | -31.7 | 64 | 13 | | | | | |
| 3RD | 30.00 | | | | | | | | | -102.3 | -2181.0 | 230.1 | -13.8 | -184.8 |
| | | 17.5 | -129.9 | 2282 | 3996 | 7.6 | -32.5 | 72 | 10 | | | | | |
| 4TH | 42.00 | | | | | | | | | -119.8 | -2051.1 | 204.7 | -12.5 | -175.4 |
| | | 1.3 | -122.4 | 2047 | 3899 | .6 | -31.4 | 84 | 1 | | | | | |
| 5TH | 54.00 | | | | | | | | | -121.1 | -1928.6 | 180.9 | -11.0 | -165.1 |
| | | -12.4 | -101.9 | 1762 | 3423 | -7.0 | -29.8 | 81 | -10 | | | | | |
| 6TH | 66.00 | | | | | | | | | -108.7 | -1826.7 | 158.3 | -9.7 | -156.7 |
| | | -10.4 | -117.3 | 1762 | 3517 | -5.9 | -33.4 | 83 | -7 | | | | | |
| 7TH | 78.00 | | | | | | | | | -98.3 | -1709.4 | 137.1 | -8.4 | -146.9 |
| | | -9.3 | -120.8 | 1762 | 3517 | -5.3 | -34.3 | 83 | -6 | | | | | |
| 8TH | 90.00 | | | | | | | | | -89.0 | -1588.6 | 117.3 | -7.3 | -136.7 |
| | | -8.1 | -124.2 | 1762 | 3517 | -4.6 | -35.3 | 84 | -5 | | | | | |
| 9TH | 102.00 | | | | | | | | | -80.9 | -1464.4 | 99.0 | -6.3 | -126.2 |
| | | -7.0 | -127.4 | 1762 | 3517 | -4.0 | -36.2 | 84 | -5 | | | | | |
| 10TH | 114.00 | | | | | | | | | -73.9 | -1337.0 | 82.2 | -5.3 | -115.4 |
| | | -6.8 | -128.9 | 1762 | 3517 | -3.8 | -36.6 | 84 | -4 | | | | | |
| 11TH | 126.00 | | | | | | | | | -67.1 | -1208.1 | 66.9 | -4.5 | -104.6 |
| | | -6.5 | -130.3 | 1762 | 3517 | -3.7 | -37.0 | 84 | -4 | | | | | |
| 12TH | 138.00 | | | | | | | | | -60.6 | -1077.9 | 53.2 | -3.7 | -93.6 |
| | | -6.3 | -131.7 | 1762 | 3517 | -3.6 | -37.4 | 84 | -4 | | | | | |
| 13TH | 150.00 | | | | | | | | | -54.3 | -946.2 | 41.1 | -3.0 | -82.6 |
| | | -6.0 | -133.3 | 1762 | 3517 | -3.4 | -37.9 | 83 | -4 | | | | | |
| 14TH | 162.00 | | | | | | | | | -48.4 | -812.9 | 30.5 | -2.4 | -71.4 |
| | | -5.6 | -135.0 | 1762 | 3517 | -3.2 | -38.4 | 83 | -3 | | | | | |
| 15TH | 174.00 | | | | | | | | | -42.8 | -677.9 | 21.6 | -1.9 | -60.2 |
| | | -5.2 | -136.7 | 1762 | 3517 | -3.0 | -38.9 | 82 | -3 | | | | | |
| 16TH | 186.00 | | | | | | | | | -37.5 | -541.2 | 14.3 | -1.4 | -48.9 |
| | | -4.9 | -138.2 | 1762 | 3517 | -2.8 | -39.3 | 82 | -3 | | | | | |
| 17TH | 198.00 | | | | | | | | | -32.6 | -403.0 | 8.6 | -1.0 | -37.6 |
| | | -5.8 | -127.1 | 1762 | 3517 | -3.3 | -36.1 | 84 | -4 | | | | | |
| 18TH | 210.00 | | | | | | | | | -26.9 | -275.9 | 4.5 | -.6 | -26.8 |
| | | -6.6 | -116.0 | 1762 | 3517 | -3.8 | -33.0 | 87 | -5 | | | | | |
| 19TH | 222.00 | | | | | | | | | -20.2 | -159.8 | 1.9 | -.3 | -16.7 |
| | | -7.5 | -105.0 | 1762 | 3517 | -4.3 | -29.8 | 90 | -6 | | | | | |
| MECH | 234.00 | | | | | | | | | -12.7 | -54.9 | .6 | -.1 | -7.3 |
| | | -12.7 | -54.9 | 2262 | 3733 | -5.6 | -14.7 | 126 | -29 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 300 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 3.5 | -2389.5 | 291.7 | -6.1 | -215.7 |
| | | 13.1 | -72.8 | 1649 | 2872 | 7.9 | -25.3 | 75 | 14 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -9.6 | -2316.6 | 270.5 | -6.0 | -210.0 |
| | | 10.7 | -75.3 | 1687 | 2921 | 6.3 | -25.8 | 80 | 11 | | | | | |
| PONT | 18.00 | | | | | | | | | -20.3 | -2241.3 | 250.0 | -5.9 | -203.9 |
| | | 14.7 | -113.8 | 2351 | 4025 | 6.2 | -28.3 | 83 | 11 | | | | | |
| 3RD | 30.00 | | | | | | | | | -35.0 | -2127.5 | 223.8 | -5.6 | -194.3 |
| | | 16.2 | -126.1 | 2282 | 3996 | 7.1 | -31.5 | 80 | 10 | | | | | |
| 4TH | 42.00 | | | | | | | | | -51.2 | -2001.5 | 199.0 | -5.1 | -184.1 |
| | | 4.6 | -122.0 | 2047 | 3899 | 2.2 | -31.3 | 93 | 3 | | | | | |
| 5TH | 54.00 | | | | | | | | | -55.8 | -1879.5 | 175.7 | -4.4 | -172.8 |
| | | -9.1 | -102.7 | 1762 | 3423 | -5.2 | -30.0 | 91 | -8 | | | | | |
| 6TH | 66.00 | | | | | | | | | -46.7 | -1776.7 | 153.8 | -3.8 | -163.4 |
| | | -6.8 | -114.7 | 1762 | 3517 | -3.9 | -32.6 | 91 | -5 | | | | | |
| 7TH | 78.00 | | | | | | | | | -39.8 | -1662.0 | 133.1 | -3.3 | -152.9 |
| | | -5.6 | -117.8 | 1762 | 3517 | -3.2 | -33.5 | 91 | -4 | | | | | |
| 8TH | 90.00 | | | | | | | | | -34.2 | -1544.2 | 113.9 | -2.8 | -142.2 |
| | | -4.4 | -120.8 | 1762 | 3517 | -2.5 | -34.4 | 91 | -3 | | | | | |
| 9TH | 102.00 | | | | | | | | | -29.8 | -1423.4 | 96.1 | -2.5 | -131.2 |
| | | -3.2 | -123.8 | 1762 | 3517 | -1.8 | -35.2 | 91 | -2 | | | | | |
| 10TH | 114.00 | | | | | | | | | -26.6 | -1299.6 | 79.8 | -2.1 | -119.9 |
| | | -2.9 | -125.3 | 1762 | 3517 | -1.6 | -35.6 | 91 | -2 | | | | | |
| 11TH | 126.00 | | | | | | | | | -23.7 | -1174.3 | 64.9 | -1.8 | -108.5 |
| | | -2.6 | -126.8 | 1762 | 3517 | -1.5 | -36.1 | 90 | -2 | | | | | |
| 12TH | 138.00 | | | | | | | | | -21.1 | -1047.5 | 51.6 | -1.6 | -97.1 |
| | | -2.2 | -128.3 | 1762 | 3517 | -1.3 | -36.5 | 90 | -2 | | | | | |
| 13TH | 150.00 | | | | | | | | | -18.9 | -919.2 | 39.8 | -1.3 | -85.5 |
| | | -1.8 | -129.9 | 1762 | 3517 | -1.0 | -36.9 | 89 | -1 | | | | | |
| 14TH | 162.00 | | | | | | | | | -17.1 | -789.3 | 29.5 | -1.1 | -73.9 |
| | | -1.3 | -131.6 | 1762 | 3517 | -.7 | -37.4 | 89 | -1 | | | | | |
| 15TH | 174.00 | | | | | | | | | -15.8 | -657.7 | 20.9 | -.9 | -62.2 |
| | | -.8 | -133.3 | 1762 | 3517 | -.5 | -37.9 | 88 | -1 | | | | | |
| 16TH | 186.00 | | | | | | | | | -15.0 | -524.5 | 13.8 | -.7 | -50.5 |
| | | -.4 | -134.7 | 1762 | 3517 | -.2 | -38.3 | 88 | -0 | | | | | |
| 17TH | 198.00 | | | | | | | | | -14.6 | -389.8 | 8.3 | -.5 | -38.6 |
| | | -1.1 | -123.6 | 1762 | 3517 | -.7 | -35.1 | 90 | -1 | | | | | |
| 18TH | 210.00 | | | | | | | | | -13.4 | -266.2 | 4.3 | -.4 | -27.5 |
| | | -1.9 | -112.5 | 1762 | 3517 | -1.1 | -32.0 | 93 | -2 | | | | | |
| 19TH | 222.00 | | | | | | | | | -11.5 | -153.7 | 1.8 | -.2 | -17.0 |
| | | -2.7 | -101.4 | 1762 | 3517 | -1.5 | -28.8 | 97 | -3 | | | | | |
| MECH | 234.00 | | | | | | | | | -8.8 | -52.3 | .6 | -.1 | -7.2 |
| | | -8.8 | -52.3 | 2262 | 3733 | -3.9 | -14.0 | 134 | -23 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 310 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -235.2 | -1810.2 | 228.3 | -28.8 | -169.8 |
| | | -5.6 | -41.8 | 1649 | 2872 | -3.4 | -14.6 | 92 | -12 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -229.6 | -1768.4 | 212.2 | -26.7 | -165.9 |
| | | -9.8 | -43.1 | 1687 | 2921 | -5.8 | -14.8 | 96 | -22 | | | | | |
| PONT | 18.00 | | | | | | | | | -219.8 | -1725.2 | 196.5 | -24.7 | -161.6 |
| | | -12.8 | -70.8 | 2351 | 4025 | -5.4 | -17.6 | 98 | -18 | | | | | |
| 3RD | 30.00 | | | | | | | | | -207.0 | -1654.5 | 176.2 | -22.1 | -154.4 |
| | | -8.5 | -81.5 | 2282 | 3996 | -3.7 | -20.4 | 92 | -10 | | | | | |
| 4TH | 42.00 | | | | | | | | | -198.5 | -1573.0 | 156.8 | -19.7 | -146.8 |
| | | -11.0 | -82.7 | 2047 | 3899 | -5.4 | -21.2 | 96 | -13 | | | | | |
| 5TH | 54.00 | | | | | | | | | -187.5 | -1490.2 | 138.5 | -17.4 | -138.7 |
| | | -18.6 | -74.1 | 1762 | 3423 | -10.5 | -21.7 | 88 | -22 | | | | | |
| 6TH | 66.00 | | | | | | | | | -168.9 | -1416.1 | 121.0 | -15.2 | -131.8 |
| | | -15.5 | -86.6 | 1762 | 3517 | -8.8 | -24.6 | 91 | -16 | | | | | |
| 7TH | 78.00 | | | | | | | | | -153.4 | -1329.5 | 104.6 | -13.3 | -123.7 |
| | | -13.5 | -92.3 | 1762 | 3517 | -7.7 | -26.2 | 90 | -13 | | | | | |
| 8TH | 90.00 | | | | | | | | | -139.8 | -1237.3 | 89.2 | -11.5 | -115.2 |
| | | -11.6 | -98.0 | 1762 | 3517 | -6.6 | -27.9 | 90 | -11 | | | | | |
| 9TH | 102.00 | | | | | | | | | -128.3 | -1139.2 | 74.9 | -9.9 | -106.3 |
| | | -9.8 | -103.3 | 1762 | 3517 | -5.5 | -29.4 | 89 | -8 | | | | | |
| 10TH | 114.00 | | | | | | | | | -118.5 | -1035.9 | 61.8 | -8.5 | -97.0 |
| | | -9.8 | -104.4 | 1762 | 3517 | -5.6 | -29.7 | 89 | -8 | | | | | |
| 11TH | 126.00 | | | | | | | | | -108.7 | -931.5 | 50.0 | -7.1 | -87.6 |
| | | -9.9 | -105.4 | 1762 | 3517 | -5.6 | -30.0 | 89 | -8 | | | | | |
| 12TH | 138.00 | | | | | | | | | -98.8 | -826.2 | 39.5 | -5.8 | -78.1 |
| | | -10.0 | -106.4 | 1762 | 3517 | -5.7 | -30.3 | 89 | -8 | | | | | |
| 13TH | 150.00 | | | | | | | | | -88.8 | -719.8 | 30.2 | -4.7 | -68.6 |
| | | -10.0 | -106.9 | 1762 | 3517 | -5.7 | -30.4 | 88 | -8 | | | | | |
| 14TH | 162.00 | | | | | | | | | -78.7 | -612.9 | 22.2 | -3.7 | -59.1 |
| | | -9.9 | -106.9 | 1762 | 3517 | -5.6 | -30.4 | 89 | -8 | | | | | |
| 15TH | 174.00 | | | | | | | | | -68.8 | -505.9 | 15.5 | -2.8 | -49.5 |
| | | -9.9 | -107.0 | 1762 | 3517 | -5.6 | -30.4 | 89 | -8 | | | | | |
| 16TH | 186.00 | | | | | | | | | -59.0 | -398.9 | 10.1 | -2.1 | -40.0 |
| | | -9.8 | -106.9 | 1762 | 3517 | -5.6 | -30.4 | 89 | -8 | | | | | |
| 17TH | 198.00 | | | | | | | | | -49.2 | -292.0 | 5.9 | -1.4 | -30.4 |
| | | -10.1 | -96.9 | 1762 | 3517 | -5.7 | -27.5 | 92 | -10 | | | | | |
| 18TH | 210.00 | | | | | | | | | -39.1 | -195.1 | 3.0 | -.9 | -21.4 |
| | | -10.4 | -86.9 | 1762 | 3517 | -5.9 | -24.7 | 95 | -11 | | | | | |
| 19TH | 222.00 | | | | | | | | | -28.7 | -108.3 | 1.2 | -.5 | -13.0 |
| | | -10.7 | -76.9 | 1762 | 3517 | -6.1 | -21.9 | 100 | -14 | | | | | |
| MECH | 234.00 | | | | | | | | | -18.0 | -31.4 | .3 | -.2 | -5.2 |
| | | -18.0 | -31.4 | 2262 | 3733 | -8.0 | -8.4 | 125 | -72 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 320 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -588.1 | -1015.3 | 132.3 | -70.7 | -85.6 |
| | | -22.4 | -15.4 | 1649 | 2872 | -13.6 | -5.4 | 31 | -44 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -565.7 | -999.9 | 123.3 | -65.5 | -84.1 |
| | | -26.2 | -16.3 | 1687 | 2921 | -15.6 | -5.6 | 30 | -48 | | | | | |
| PONT | 18.00 | | | | | | | | | -539.5 | -983.6 | 114.4 | -60.5 | -82.4 |
| | | -34.1 | -31.0 | 2351 | 4025 | -14.5 | -7.7 | 46 | -51 | | | | | |
| 3RD | 30.00 | | | | | | | | | -505.4 | -952.6 | 102.7 | -54.2 | -79.2 |
| | | -28.4 | -43.4 | 2282 | 3996 | -12.4 | -10.9 | 62 | -41 | | | | | |
| 4TH | 42.00 | | | | | | | | | -477.0 | -909.2 | 91.6 | -48.4 | -75.4 |
| | | -27.1 | -41.3 | 2047 | 3899 | -13.2 | -10.6 | 59 | -39 | | | | | |
| 5TH | 54.00 | | | | | | | | | -449.9 | -868.0 | 80.9 | -42.8 | -71.9 |
| | | -33.6 | -37.9 | 1762 | 3423 | -19.0 | -11.1 | 40 | -35 | | | | | |
| 6TH | 66.00 | | | | | | | | | -416.3 | -830.1 | 70.7 | -37.6 | -69.2 |
| | | -31.1 | -45.5 | 1762 | 3517 | -17.7 | -12.9 | 50 | -34 | | | | | |
| 7TH | 78.00 | | | | | | | | | -385.2 | -784.6 | 61.0 | -32.8 | -65.8 |
| | | -29.8 | -51.1 | 1762 | 3517 | -16.9 | -14.5 | 55 | -32 | | | | | |
| 8TH | 90.00 | | | | | | | | | -355.3 | -733.4 | 51.9 | -28.3 | -62.0 |
| | | -28.5 | -56.7 | 1762 | 3517 | -16.2 | -16.1 | 60 | -30 | | | | | |
| 9TH | 102.00 | | | | | | | | | -326.8 | -676.8 | 43.5 | -24.2 | -57.8 |
| | | -27.3 | -61.9 | 1762 | 3517 | -15.5 | -17.6 | 63 | -28 | | | | | |
| 10TH | 114.00 | | | | | | | | | -299.5 | -614.9 | 35.7 | -20.5 | -53.2 |
| | | -27.2 | -62.8 | 1762 | 3517 | -15.5 | -17.9 | 64 | -28 | | | | | |
| 11TH | 126.00 | | | | | | | | | -272.2 | -552.1 | 28.7 | -17.1 | -48.4 |
| | | -27.1 | -63.8 | 1762 | 3517 | -15.4 | -18.1 | 66 | -28 | | | | | |
| 12TH | 138.00 | | | | | | | | | -245.1 | -488.3 | 22.5 | -14.0 | -43.4 |
| | | -27.1 | -64.7 | 1762 | 3517 | -15.4 | -18.4 | 67 | -28 | | | | | |
| 13TH | 150.00 | | | | | | | | | -218.0 | -423.6 | 17.0 | -11.2 | -38.3 |
| | | -26.8 | -65.2 | 1762 | 3517 | -15.2 | -18.6 | 69 | -28 | | | | | |
| 14TH | 162.00 | | | | | | | | | -191.3 | -358.4 | 12.3 | -8.7 | -33.0 |
| | | -26.3 | -65.5 | 1762 | 3517 | -14.9 | -18.6 | 71 | -28 | | | | | |
| 15TH | 174.00 | | | | | | | | | -165.0 | -292.9 | 8.4 | -6.6 | -27.7 |
| | | -25.8 | -65.7 | 1762 | 3517 | -14.7 | -18.7 | 72 | -28 | | | | | |
| 16TH | 186.00 | | | | | | | | | -139.1 | -227.2 | 5.3 | -4.8 | -22.2 |
| | | -25.4 | -65.8 | 1762 | 3517 | -14.4 | -18.7 | 74 | -29 | | | | | |
| 17TH | 198.00 | | | | | | | | | -113.8 | -161.3 | 2.9 | -3.2 | -16.6 |
| | | -24.7 | -58.6 | 1762 | 3517 | -14.0 | -16.7 | 75 | -32 | | | | | |
| 18TH | 210.00 | | | | | | | | | -89.0 | -102.7 | 1.4 | -2.0 | -11.4 |
| | | -24.1 | -51.4 | 1762 | 3517 | -13.7 | -14.6 | 76 | -36 | | | | | |
| 19TH | 222.00 | | | | | | | | | -65.0 | -51.4 | .4 | -1.1 | -6.6 |
| | | -23.4 | -44.2 | 1762 | 3517 | -13.3 | -12.6 | 77 | -41 | | | | | |
| MECH | 234.00 | | | | | | | | | -41.5 | -7.2 | .1 | -.5 | -2.2 |
| | | -41.5 | -7.2 | 2262 | 3733 | -18.4 | -1.9 | 9 | -52 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -950.8 | -397.9 | 66.9 | -112.3 | -13.6 |
| | | -38.9 | 9.3 | 1649 | 2872 | -23.6 | 3.2 | -0 | -1 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -911.9 | -407.2 | 63.3 | -103.9 | -13.6 |
| | | -43.1 | 7.8 | 1687 | 2921 | -25.6 | 2.7 | -1 | -3 | | | | | |
| PONT | 18.00 | | | | | | | | | -868.8 | -415.0 | 59.6 | -95.9 | -13.4 |
| | | -55.6 | 6.8 | 2351 | 4025 | -23.6 | 1.7 | 1 | 6 | | | | | |
| 3RD | 30.00 | | | | | | | | | -813.2 | -421.7 | 54.6 | -85.8 | -13.8 |
| | | -50.6 | -5.0 | 2282 | 3996 | -22.2 | -1.2 | 0 | -0 | | | | | |
| 4TH | 42.00 | | | | | | | | | -762.6 | -416.8 | 49.5 | -76.4 | -13.8 |
| | | -43.8 | -6.6 | 2047 | 3899 | -21.4 | -1.7 | -2 | 13 | | | | | |
| 5TH | 54.00 | | | | | | | | | -718.7 | -410.2 | 44.6 | -67.5 | -14.3 |
| | | -48.7 | -6.0 | 1762 | 3423 | -27.7 | -1.7 | -3 | 22 | | | | | |
| 6TH | 66.00 | | | | | | | | | -670.0 | -404.2 | 39.7 | -59.2 | -15.4 |
| | | -46.4 | -10.6 | 1762 | 3517 | -26.3 | -3.0 | -5 | 20 | | | | | |
| 7TH | 78.00 | | | | | | | | | -623.6 | -393.6 | 34.9 | -51.4 | -16.4 |
| | | -46.5 | -16.0 | 1762 | 3517 | -26.4 | -4.5 | -4 | 12 | | | | | |
| 8TH | 90.00 | | | | | | | | | -577.1 | -377.6 | 30.3 | -44.2 | -17.0 |
| | | -46.6 | -21.4 | 1762 | 3517 | -26.5 | -6.1 | -2 | 5 | | | | | |
| 9TH | 102.00 | | | | | | | | | -530.5 | -356.2 | 25.9 | -37.6 | -17.3 |
| | | -46.8 | -26.5 | 1762 | 3517 | -26.5 | -7.5 | 0 | -1 | | | | | |
| 10TH | 114.00 | | | | | | | | | -483.7 | -329.7 | 21.7 | -31.5 | -17.2 |
| | | -46.7 | -27.8 | 1762 | 3517 | -26.5 | -7.9 | 3 | -6 | | | | | |
| 11TH | 126.00 | | | | | | | | | -437.0 | -302.0 | 18.0 | -25.9 | -16.9 |
| | | -46.6 | -29.0 | 1762 | 3517 | -26.4 | -8.3 | 7 | -11 | | | | | |
| 12TH | 138.00 | | | | | | | | | -390.5 | -272.9 | 14.5 | -21.0 | -16.2 |
| | | -46.5 | -30.3 | 1762 | 3517 | -26.4 | -8.6 | 10 | -15 | | | | | |
| 13TH | 150.00 | | | | | | | | | -344.0 | -242.6 | 11.4 | -16.6 | -15.2 |
| | | -46.0 | -31.2 | 1762 | 3517 | -26.1 | -8.9 | 12 | -18 | | | | | |
| 14TH | 162.00 | | | | | | | | | -298.0 | -211.4 | 8.7 | -12.7 | -14.0 |
| | | -45.1 | -31.7 | 1762 | 3517 | -25.6 | -9.0 | 14 | -20 | | | | | |
| 15TH | 174.00 | | | | | | | | | -252.9 | -179.8 | 6.3 | -9.4 | -12.6 |
| | | -44.3 | -32.1 | 1762 | 3517 | -25.1 | -9.1 | 16 | -22 | | | | | |
| 16TH | 186.00 | | | | | | | | | -208.6 | -147.6 | 4.4 | -6.6 | -11.1 |
| | | -43.4 | -32.6 | 1762 | 3517 | -24.6 | -9.3 | 19 | -25 | | | | | |
| 17TH | 198.00 | | | | | | | | | -165.3 | -115.0 | 2.8 | -4.4 | -9.4 |
| | | -40.7 | -31.1 | 1762 | 3517 | -23.1 | -8.8 | 22 | -28 | | | | | |
| 18TH | 210.00 | | | | | | | | | -124.6 | -83.9 | 1.6 | -2.7 | -7.6 |
| | | -38.0 | -29.6 | 1762 | 3517 | -21.6 | -8.4 | 25 | -33 | | | | | |
| 19TH | 222.00 | | | | | | | | | -86.5 | -54.3 | .8 | -1.4 | -5.6 |
| | | -35.4 | -28.1 | 1762 | 3517 | -20.1 | -8.0 | 30 | -37 | | | | | |
| MECH | 234.00 | | | | | | | | | -51.1 | -26.2 | .3 | -.6 | -3.4 |
| | | -51.1 | -26.2 | 2262 | 3733 | -22.6 | -7.0 | 27 | -53 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1080.0 | 370.5 | -20.5 | -127.4 | 72.9 |
| | | -45.1 | 30.9 | 1649 | 2872 | -27.3 | 10.8 | 9 | 13 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1034.9 | 339.6 | -17.3 | -117.8 | 72.0 |
| | | -48.1 | 28.9 | 1687 | 2921 | -28.5 | 9.9 | 11 | 19 | | | | | |
| PONT | 18.00 | | | | | | | | | -986.8 | 310.6 | -14.3 | -108.7 | 70.8 |
| | | -62.6 | 41.3 | 2351 | 4025 | -26.6 | 10.3 | 25 | 38 | | | | | |
| 3RD | 30.00 | | | | | | | | | -924.2 | 269.4 | -10.9 | -97.3 | 67.4 |
| | | -59.2 | 32.9 | 2282 | 3996 | -25.9 | 8.2 | 27 | 48 | | | | | |
| 4TH | 42.00 | | | | | | | | | -865.1 | 236.4 | -7.8 | -86.5 | 63.7 |
| | | -50.9 | 32.6 | 2047 | 3899 | -24.9 | 8.4 | 42 | 66 | | | | | |
| 5TH | 54.00 | | | | | | | | | -814.2 | 203.8 | -5.2 | -76.5 | 58.9 |
| | | -51.9 | 41.1 | 1762 | 3423 | -29.5 | 12.0 | 56 | 71 | | | | | |
| 6TH | 66.00 | | | | | | | | | -762.2 | 162.7 | -3.0 | -67.0 | 52.9 |
| | | -50.3 | 30.7 | 1762 | 3517 | -28.6 | 8.7 | 48 | 78 | | | | | |
| 7TH | 78.00 | | | | | | | | | -711.9 | 132.0 | -1.2 | -58.2 | 47.5 |
| | | -51.2 | 26.6 | 1762 | 3517 | -29.1 | 7.6 | 42 | 81 | | | | | |
| 8TH | 90.00 | | | | | | | | | -660.7 | 105.4 | .2 | -49.9 | 42.3 |
| | | -52.1 | 22.5 | 1762 | 3517 | -29.6 | 6.4 | 36 | 84 | | | | | |
| 9TH | 102.00 | | | | | | | | | -608.5 | 82.9 | 1.3 | -42.3 | 37.1 |
| | | -53.0 | 18.7 | 1762 | 3517 | -30.1 | 5.3 | 30 | 85 | | | | | |
| 10TH | 114.00 | | | | | | | | | -555.6 | 64.2 | 2.2 | -35.3 | 32.0 |
| | | -53.5 | 18.5 | 1762 | 3517 | -30.4 | 5.3 | 28 | 82 | | | | | |
| 11TH | 126.00 | | | | | | | | | -502.0 | 45.7 | 2.9 | -29.0 | 27.1 |
| | | -54.1 | 18.2 | 1762 | 3517 | -30.7 | 5.2 | 27 | 80 | | | | | |
| 12TH | 138.00 | | | | | | | | | -448.0 | 27.5 | 3.3 | -23.3 | 22.3 |
| | | -54.6 | 18.0 | 1762 | 3517 | -31.0 | 5.1 | 26 | 77 | | | | | |
| 13TH | 150.00 | | | | | | | | | -393.3 | 9.4 | 3.5 | -18.2 | 17.6 |
| | | -54.5 | 17.3 | 1762 | 3517 | -30.9 | 4.9 | 24 | 75 | | | | | |
| 14TH | 162.00 | | | | | | | | | -338.8 | -7.8 | 3.5 | -13.8 | 13.1 |
| | | -53.9 | 16.1 | 1762 | 3517 | -30.6 | 4.6 | 22 | 73 | | | | | |
| 15TH | 174.00 | | | | | | | | | -284.9 | -23.9 | 3.4 | -10.1 | 8.8 |
| | | -53.3 | 14.9 | 1762 | 3517 | -30.2 | 4.2 | 20 | 71 | | | | | |
| 16TH | 186.00 | | | | | | | | | -231.7 | -38.8 | 3.0 | -7.0 | 4.7 |
| | | -52.6 | 13.6 | 1762 | 3517 | -29.8 | 3.9 | 18 | 69 | | | | | |
| 17TH | 198.00 | | | | | | | | | -179.1 | -52.4 | 2.4 | -4.5 | .8 |
| | | -48.0 | 5.4 | 1762 | 3517 | -27.2 | 1.5 | 6 | 55 | | | | | |
| 18TH | 210.00 | | | | | | | | | -131.1 | -57.8 | 1.8 | -2.7 | -1.9 |
| | | -43.4 | -2.7 | 1762 | 3517 | -24.6 | -.8 | -2 | 33 | | | | | |
| 19TH | 222.00 | | | | | | | | | -87.7 | -55.1 | 1.1 | -1.4 | -3.3 |
| | | -38.8 | -10.8 | 1762 | 3517 | -22.0 | -3.1 | -2 | 6 | | | | | |
| MECH | 234.00 | | | | | | | | | -48.9 | -44.4 | .5 | -.5 | -3.6 |
| | | -48.9 | -44.4 | 2262 | 3733 | -21.6 | -11.9 | 36 | -40 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : TWO LAKEWAY CENTER
WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1148.2 | 1173.5 | -113.0 | -134.8 | 151.1 |
| | | -42.3 | 53.4 | 1649 | 2872 | -25.6 | 18.6 | 18 | 14 | | | | | |
| MEZZ | 9.00 | | | | | | | | | -1105.9 | 1120.0 | -102.7 | -124.7 | 149.6 |
| | | -46.2 | 53.2 | 1687 | 2921 | -27.4 | 18.2 | 30 | 26 | | | | | |
| PONT | 18.00 | | | | | | | | | -1059.8 | 1066.9 | -92.9 | -114.9 | 146.8 |
| | | -64.8 | 79.5 | 2351 | 4025 | -27.6 | 19.7 | 48 | 39 | | | | | |
| 3RD | 30.00 | | | | | | | | | -994.9 | 987.4 | -80.6 | -102.6 | 140.5 |
| | | -62.4 | 71.6 | 2282 | 3996 | -27.3 | 17.9 | 53 | 46 | | | | | |
| 4TH | 42.00 | | | | | | | | | -932.5 | 915.8 | -69.1 | -91.0 | 133.8 |
| | | -55.8 | 74.8 | 2047 | 3899 | -27.3 | 19.2 | 73 | 54 | | | | | |
| 5TH | 54.00 | | | | | | | | | -876.7 | 841.0 | -58.6 | -80.2 | 125.3 |
| | | -57.0 | 81.5 | 1762 | 3423 | -32.4 | 23.8 | 78 | 54 | | | | | |
| 6TH | 66.00 | | | | | | | | | -819.7 | 759.6 | -49.0 | -70.0 | 115.9 |
| | | -55.4 | 76.6 | 1762 | 3517 | -31.4 | 21.8 | 82 | 60 | | | | | |
| 7TH | 78.00 | | | | | | | | | -764.3 | 683.0 | -40.3 | -60.5 | 106.3 |
| | | -56.2 | 72.6 | 1762 | 3517 | -31.9 | 20.7 | 83 | 64 | | | | | |
| 8TH | 90.00 | | | | | | | | | -708.1 | 610.3 | -32.6 | -51.6 | 96.6 |
| | | -57.0 | 68.7 | 1762 | 3517 | -32.4 | 19.5 | 84 | 69 | | | | | |
| 9TH | 102.00 | | | | | | | | | -651.1 | 541.7 | -25.7 | -43.5 | 86.9 |
| | | -57.8 | 65.1 | 1762 | 3517 | -32.8 | 18.5 | 83 | 74 | | | | | |
| 10TH | 114.00 | | | | | | | | | -593.2 | 476.6 | -19.6 | -36.0 | 77.2 |
| | | -58.9 | 65.2 | 1762 | 3517 | -33.4 | 18.5 | 82 | 74 | | | | | |
| 11TH | 126.00 | | | | | | | | | -534.4 | 411.4 | -14.2 | -29.3 | 67.5 |
| | | -59.9 | 65.3 | 1762 | 3517 | -34.0 | 18.6 | 81 | 74 | | | | | |
| 12TH | 138.00 | | | | | | | | | -474.5 | 346.1 | -9.7 | -23.2 | 57.8 |
| | | -60.9 | 65.4 | 1762 | 3517 | -34.6 | 18.6 | 79 | 74 | | | | | |
| 13TH | 150.00 | | | | | | | | | -413.6 | 280.7 | -5.9 | -17.9 | 48.1 |
| | | -61.1 | 64.5 | 1762 | 3517 | -34.7 | 18.4 | 78 | 74 | | | | | |
| 14TH | 162.00 | | | | | | | | | -352.5 | 216.2 | -2.9 | -13.3 | 38.5 |
| | | -60.6 | 62.9 | 1762 | 3517 | -34.4 | 17.9 | 77 | 74 | | | | | |
| 15TH | 174.00 | | | | | | | | | -291.8 | 153.2 | -.7 | -9.4 | 29.1 |
| | | -60.2 | 61.3 | 1762 | 3517 | -34.2 | 17.4 | 76 | 75 | | | | | |
| 16TH | 186.00 | | | | | | | | | -231.6 | 92.0 | .8 | -6.3 | 20.0 |
| | | -59.6 | 59.4 | 1762 | 3517 | -33.8 | 16.9 | 75 | 75 | | | | | |
| 17TH | 198.00 | | | | | | | | | -172.0 | 32.6 | 1.5 | -3.9 | 11.1 |
| | | -53.3 | 45.1 | 1762 | 3517 | -30.2 | 12.8 | 66 | 78 | | | | | |
| 18TH | 210.00 | | | | | | | | | -118.8 | -12.5 | 1.6 | -2.1 | 4.0 |
| | | -46.9 | 30.8 | 1762 | 3517 | -26.6 | 8.8 | 53 | 80 | | | | | |
| 19TH | 222.00 | | | | | | | | | -71.9 | -43.3 | 1.3 | -1.0 | -1.4 |
| | | -40.6 | 16.6 | 1762 | 3517 | -23.0 | 4.7 | 31 | 76 | | | | | |
| MECH | 234.00 | | | | | | | | | -31.3 | -59.9 | .7 | -.3 | -5.0 |
| | | -31.3 | -59.9 | 2262 | 3733 | -13.8 | -16.0 | 66 | -34 | | | | | |
| TOP | 256.25 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. THREE LAKEWAY CENTER . PROJECT #6013

PROJECT 6013 CONFIGURATION A
SCALE = 300 REF. PRESSURE = 38.0
GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.00
NUMBER OF SIDES = 12 NO. OF FLOORS = 34

| SIDE | ANGLE | Z-AXIS | SHFACT |
|---|---|---|---|
| 1 | 45.0 | .269 | 1.0 |
| 2 | 90.0 | .240 | 1.0 |
| 3 | 180.0 | 4.660 | 1.0 |
| 4 | 225.0 | .269 | 1.0 |
| 5 | 270.0 | .240 | 1.0 |
| 6 | 0.0 | 4.560 | 1.0 |
| 7 | 45.0 | .269 | 1.0 |
| 8 | 90.0 | .240 | 0.0 |
| 9 | 180.0 | 4.660 | 0.0 |
| 10 | 225.0 | .269 | 0.0 |
| 11 | 270.0 | .240 | 0.0 |
| 12 | 0.0 | 4.660 | 0.0 |

| FLOOR # | LABEL | HEIGHT-FT | WIND AZIMUTH | LOAD FACTOR |
|---|---|---|---|---|
| 1 | GRND | 21.33 | 0 | .71 |
| 2 | PAR2 | 9.67 | 10 | .77 |
| 3 | PAR3 | 9.67 | 20 | .83 |
| 4 | PAR4 | 9.67 | 30 | .89 |
| 5 | PAR5 | 9.67 | 40 | .96 |
| 6 | PAR6 | 9.67 | 50 | .98 |
| 7 | PAR7 | 9.67 | 60 | 1.00 |
| 8 | PAR8 | 9.67 | 70 | 1.00 |
| 9 | CLUB | 12.00 | 80 | .93 |
| 10 | CLUB | 14.00 | 90 | .89 |
| 11 | HO11 | 9.67 | 100 | .83 |
| 12 | HO12 | 9.67 | 110 | .85 |
| 13 | HO13 | 9.67 | 120 | .87 |
| 14 | HO14 | 9.67 | 130 | .89 |
| 15 | HO15 | 9.67 | 140 | .96 |
| 16 | HO16 | 14.00 | 150 | .93 |
| 17 | OF17 | 12.00 | 160 | .96 |
| 18 | OF18 | 12.00 | 170 | .98 |
| 19 | OF19 | 12.00 | 180 | 1.00 |
| 20 | OF20 | 12.00 | 190 | .96 |
| 21 | OF21 | 12.00 | 200 | .89 |
| 22 | OF22 | 12.00 | 210 | .85 |
| 23 | OF23 | 12.00 | 220 | .81 |
| 24 | OF24 | 12.00 | 230 | .75 |
| 25 | OF25 | 12.00 | 240 | .71 |
| 26 | OF26 | 12.00 | 250 | .66 |
| 27 | OF27 | 12.00 | 260 | .64 |
| 28 | OF28 | 12.00 | 270 | .66 |
| 29 | OF29 | 12.00 | 280 | .66 |
| 30 | OF30 | 12.00 | 290 | .66 |
| 31 | OF31 | 12.00 | 300 | .68 |
| 32 | OF32 | 12.00 | 310 | .68 |
| 33 | MEC1 | 14.00 | 320 | .68 |
| 34 | MEC2 | 18.00 | 330 | .83 |
| | | | 340 | .83 |
| | | | 350 | .83 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1959.4 | -946.4 | 247.8 | -473.2 | -7.4 |
| PAR2 | 21.33 | 1.0 | 1.0 | 5698 | 3751 | .2 | .3 | -72 | 72 | -1960.5 | -947.4 | 227.6 | -431.4 | -7.3 |
| PAR3 | 31.00 | 1.1 | 1.1 | 2583 | 1701 | .4 | .6 | -47 | 47 | -1961.6 | -948.5 | 218.4 | -412.4 | -7.2 |
| PAR4 | 40.67 | 1.5 | 1.5 | 2583 | 1701 | .6 | .9 | -42 | 42 | -1963.1 | -950.0 | 209.2 | -393.4 | -7.0 |
| PAR5 | 50.34 | 1.9 | 1.9 | 2583 | 1701 | .7 | 1.1 | -39 | 39 | -1965.0 | -951.9 | 200.0 | -374.5 | -6.9 |
| PAR6 | 60.01 | 2.3 | 2.3 | 2583 | 1701 | .9 | 1.3 | -37 | 37 | -1967.3 | -954.2 | 190.8 | -355.4 | -6.7 |
| PAR7 | 69.68 | 2.7 | 2.7 | 2583 | 1701 | 1.0 | 1.6 | -36 | 36 | -1969.9 | -956.9 | 181.6 | -336.4 | -6.5 |
| PAR8 | 79.35 | 3.1 | 3.1 | 2583 | 1701 | 1.2 | 1.8 | -35 | 35 | -1973.0 | -960.0 | 172.3 | -317.3 | -6.3 |
| CLUB | 89.02 | 3.3 | 3.4 | 2583 | 1700 | 1.3 | 2.0 | -36 | 35 | -1976.4 | -963.4 | 163.0 | -298.2 | -6.1 |
| CLUB | 101.02 | -75.8 | -24.9 | 2945 | 1733 | -25.7 | -14.3 | 5 | -16 | -1900.6 | -938.5 | 151.6 | -275.0 | -4.8 |
| HO11 | 115.02 | -79.7 | -20.3 | 3443 | 2029 | -23.1 | -10.0 | 6 | -23 | -1820.9 | -918.2 | 138.6 | -248.9 | -2.8 |
| HO12 | 124.69 | -55.7 | -15.7 | 2368 | 1391 | -23.5 | -11.3 | 5 | -17 | -1765.2 | -902.5 | 129.8 | -231.6 | -1.8 |
| HO13 | 134.36 | -60.1 | -21.9 | 2323 | 1347 | -25.9 | -16.3 | 2 | -6 | -1705.1 | -880.6 | 121.2 | -214.8 | -1.4 |
| HO14 | 144.03 | -63.3 | -25.2 | 2264 | 1287 | -28.0 | -19.6 | 1 | -4 | -1641.7 | -855.4 | 112.8 | -198.6 | -1.1 |
| HO15 | 153.70 | -63.8 | -25.7 | 2253 | 1276 | -28.3 | -20.1 | 2 | -4 | -1578.0 | -829.7 | 104.6 | -183.1 | -.8 |
| HO16 | 163.37 | -62.6 | -25.4 | 2253 | 1276 | -27.8 | -19.9 | 2 | -6 | -1515.4 | -804.3 | 96.7 | -168.1 | -.3 |
| OF17 | 177.37 | -88.4 | -36.2 | 3261 | 1847 | -27.1 | -19.6 | 3 | -8 | -1427.0 | -768.1 | 85.7 | -147.5 | .5 |
| OF18 | 189.37 | -73.7 | -30.6 | 2795 | 1583 | -26.4 | -19.3 | 4 | -11 | -1353.2 | -737.5 | 76.7 | -130.8 | 1.4 |
| OF19 | 201.37 | -75.7 | -33.1 | 2795 | 1583 | -27.1 | -20.9 | 4 | -8 | -1277.5 | -704.5 | 68.0 | -115.0 | 2.2 |
| OF20 | 213.37 | -78.0 | -35.8 | 2795 | 1583 | -27.9 | -22.6 | 3 | -6 | -1199.5 | -668.7 | 59.8 | -100.2 | 2.7 |
| OF21 | 225.37 | -80.3 | -38.5 | 2795 | 1583 | -28.7 | -24.3 | 2 | -4 | -1119.2 | -630.2 | 52.0 | -86.3 | 3.1 |
| OF22 | 237.37 | -82.6 | -41.2 | 2795 | 1583 | -29.5 | -26.0 | 1 | -1 | -1036.6 | -589.1 | 44.7 | -73.3 | 3.2 |
| OF23 | 249.37 | -84.5 | -43.3 | 2795 | 1583 | -30.2 | -27.4 | -0 | 0 | -952.1 | -545.7 | 37.9 | -61.4 | 3.2 |
| OF24 | 261.37 | -85.9 | -44.8 | 2795 | 1583 | -30.7 | -28.3 | -1 | 1 | -866.2 | -501.0 | 31.6 | -50.5 | 3.1 |
| OF25 | 273.37 | -87.3 | -46.2 | 2795 | 1583 | -31.2 | -29.2 | -1 | 2 | -778.9 | -454.8 | 25.9 | -40.6 | 2.8 |
| | | -88.7 | -47.6 | 2795 | 1583 | -31.7 | -30.1 | -2 | 3 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -690.3 | -407.2 | 20.7 | -31.8 | 2.5 |
| | | -89.6 | -48.6 | 2795 | 1583 | -32.1 | -30.7 | -2 | 4 | | | | | |
| OF27 | 297.37 | | | | | | | | | -600.6 | -358.6 | 16.1 | -24.1 | 2.1 |
| | | -89.9 | -48.8 | 2795 | 1583 | -32.2 | -30.8 | -2 | 4 | | | | | |
| OF28 | 309.37 | | | | | | | | | -510.7 | -309.8 | 12.1 | -17.4 | 1.6 |
| | | -90.1 | -49.0 | 2795 | 1583 | -32.2 | -31.0 | -2 | 4 | | | | | |
| OF29 | 321.37 | | | | | | | | | -420.6 | -260.8 | 8.7 | -11.8 | 1.1 |
| | | -90.3 | -49.2 | 2795 | 1583 | -32.3 | -31.1 | -2 | 4 | | | | | |
| OF30 | 333.37 | | | | | | | | | -330.3 | -211.5 | 5.8 | -7.3 | .7 |
| | | -89.3 | -48.7 | 2795 | 1583 | -32.0 | -30.8 | -2 | 4 | | | | | |
| OF31 | 345.37 | | | | | | | | | -241.0 | -162.8 | 3.6 | -3.9 | .2 |
| | | -86.4 | -47.2 | 2795 | 1583 | -30.9 | -29.8 | -2 | 4 | | | | | |
| OF32 | 357.37 | | | | | | | | | -154.6 | -115.6 | 1.9 | -1.5 | -.3 |
| | | -84.1 | -46.3 | 2795 | 1583 | -30.1 | -29.2 | -3 | 5 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -70.5 | -69.3 | .8 | -.1 | -.9 |
| | | -92.0 | -49.7 | 3261 | 1847 | -28.2 | -26.9 | -2 | 3 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 21.5 | -19.6 | .2 | .2 | -1.3 |
| | | 21.5 | -19.6 | 2985 | 1355 | 7.2 | -14.5 | 30 | 33 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER

WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -2501.4 | -759.4 | 204.3 | -589.9 | -33.9 |
| PAR2 | 21.33 | -5.9 | -5.9 | 5698 | 3751 | -1.0 | -1.6 | -10 | 10 | -2495.5 | -753.4 | 188.2 | -536.6 | -34.0 |
| PAR3 | 31.00 | -2.1 | -2.1 | 2583 | 1701 | -.8 | -1.2 | -4 | 4 | -2493.4 | -751.4 | 180.9 | -512.4 | -34.1 |
| PAR4 | 40.67 | -1.7 | -1.7 | 2583 | 1701 | -.7 | -1.0 | 2 | -2 | -2491.7 | -749.7 | 173.7 | -488.3 | -34.1 |
| PAR5 | 50.34 | -1.3 | -1.3 | 2583 | 1701 | -.5 | -.8 | 11 | -11 | -2490.4 | -748.3 | 166.4 | -464.3 | -34.0 |
| PAR6 | 60.01 | -1.0 | -1.0 | 2583 | 1701 | -.4 | -.6 | 28 | -28 | -2489.4 | -747.4 | 159.2 | -440.2 | -34.0 |
| PAR7 | 69.68 | -.6 | -.6 | 2583 | 1701 | -.2 | -.3 | 66 | -66 | -2488.8 | -746.8 | 152.0 | -416.1 | -33.9 |
| PAR8 | 79.35 | -.2 | -.2 | 2583 | 1701 | -.1 | -.1 | 238 | -238 | -2488.6 | -746.6 | 144.7 | -392.0 | -33.8 |
| CLUB | 89.02 | .0 | .1 | 2583 | 1700 | .0 | .1 | -845 | 97 | -2488.6 | -746.7 | 137.5 | -368.0 | -33.7 |
| CLUB | 101.02 | -90.1 | -5.2 | 2945 | 1733 | -30.6 | -3.0 | 1 | -25 | -2398.6 | -741.5 | 128.6 | -338.7 | -31.4 |
| HO11 | 115.02 | -106.7 | -2.2 | 3443 | 2029 | -31.0 | -1.1 | 0 | -23 | -2291.9 | -739.3 | 118.2 | -305.8 | -28.9 |
| HO12 | 124.69 | -76.5 | -4.6 | 2368 | 1391 | -32.3 | -3.3 | 1 | -17 | -2215.3 | -734.7 | 111.1 | -284.0 | -27.7 |
| HO13 | 134.36 | -76.1 | -8.2 | 2323 | 1347 | -32.8 | -6.1 | 2 | -16 | -2139.2 | -726.5 | 104.0 | -263.0 | -26.4 |
| HO14 | 144.03 | -79.2 | -15.1 | 2264 | 1287 | -35.0 | -11.8 | 3 | -15 | -2060.0 | -711.4 | 97.1 | -242.7 | -25.2 |
| HO15 | 153.70 | -81.0 | -16.7 | 2253 | 1276 | -36.0 | -13.1 | 3 | -16 | -1979.0 | -694.7 | 90.3 | -223.1 | -23.9 |
| HO16 | 163.37 | -81.4 | -17.3 | 2253 | 1276 | -36.1 | -13.5 | 3 | -16 | -1897.6 | -677.4 | 83.6 | -204.4 | -22.5 |
| OF17 | 177.37 | -118.4 | -25.9 | 3261 | 1847 | -36.3 | -14.0 | 4 | -17 | -1779.1 | -651.5 | 74.3 | -178.7 | -20.5 |
| OF18 | 189.37 | -102.1 | -23.1 | 2795 | 1583 | -36.5 | -14.6 | 4 | -17 | -1677.1 | -628.3 | 66.7 | -157.9 | -18.6 |
| OF19 | 201.37 | -103.1 | -25.6 | 2795 | 1583 | -36.9 | -16.2 | 4 | -15 | -1574.0 | -602.7 | 59.3 | -138.4 | -16.9 |
| OF20 | 213.37 | -104.1 | -28.3 | 2795 | 1583 | -37.2 | -17.9 | 4 | -14 | -1469.9 | -574.4 | 52.2 | -120.2 | -15.4 |
| OF21 | 225.37 | -105.1 | -30.9 | 2795 | 1583 | -37.6 | -19.5 | 4 | -12 | -1364.7 | -543.5 | 45.5 | -103.2 | -14.0 |
| OF22 | 237.37 | -106.2 | -33.6 | 2795 | 1583 | -38.0 | -21.2 | 3 | -11 | -1258.5 | -509.9 | 39.2 | -87.4 | -12.8 |
| OF23 | 249.37 | -107.1 | -35.7 | 2795 | 1583 | -38.3 | -22.6 | 3 | -9 | -1151.4 | -474.2 | 33.3 | -73.0 | -11.7 |
| OF24 | 261.37 | -107.8 | -37.3 | 2795 | 1583 | -38.6 | -23.6 | 3 | -9 | -1043.6 | -436.8 | 27.8 | -59.8 | -10.6 |
| OF25 | 273.37 | -108.6 | -38.9 | 2795 | 1583 | -38.9 | -24.6 | 3 | -8 | -935.0 | -397.9 | 22.8 | -47.9 | -9.7 |
| | | -109.4 | -40.5 | 2795 | 1583 | -39.1 | -25.6 | 3 | -7 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -825.7 | -357.4 | 18.3 | -37.3 | -8.8 |
| | | -109.8 | -41.7 | 2795 | 1583 | -39.3 | -26.3 | 3 | -7 | | | | | |
| OF27 | 297.37 | | | | | | | | | -715.9 | -315.7 | 14.2 | -28.1 | -8.0 |
| | | -109.6 | -42.3 | 2795 | 1583 | -39.2 | -26.7 | 3 | -7 | | | | | |
| OF28 | 309.37 | | | | | | | | | -606.3 | -273.4 | 10.7 | -20.2 | -7.1 |
| | | -109.4 | -42.9 | 2795 | 1583 | -39.1 | -27.1 | 3 | -7 | | | | | |
| OF29 | 321.37 | | | | | | | | | -496.9 | -230.5 | 7.7 | -13.5 | -6.3 |
| | | -109.2 | -43.5 | 2795 | 1583 | -39.1 | -27.5 | 3 | -7 | | | | | |
| OF30 | 333.37 | | | | | | | | | -387.7 | -187.0 | 5.2 | -8.2 | -5.5 |
| | | -107.5 | -43.1 | 2795 | 1583 | -38.5 | -27.2 | 3 | -7 | | | | | |
| OF31 | 345.37 | | | | | | | | | -280.2 | -144.0 | 3.2 | -4.2 | -4.6 |
| | | -103.5 | -41.3 | 2795 | 1583 | -37.0 | -26.1 | 3 | -7 | | | | | |
| OF32 | 357.37 | | | | | | | | | -176.7 | -102.7 | 1.7 | -1.5 | -3.8 |
| | | -101.3 | -41.2 | 2795 | 1583 | -36.2 | -26.0 | 2 | -5 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -75.4 | -61.5 | .7 | .0 | -3.3 |
| | | -109.9 | -43.3 | 3261 | 1847 | -33.7 | -23.5 | 3 | -7 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 34.5 | -18.1 | .2 | .3 | -2.4 |
| | | 34.5 | -18.1 | 2985 | 1355 | 11.6 | -13.4 | 29 | 55 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -2858.0 | -488.5 | 125.8 | -662.7 | -67.0 |
| | | -13.9 | -13.9 | 5698 | 3751 | -2.4 | -3.7 | -18 | 18 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -2844.1 | -474.6 | 115.5 | -601.8 | -67.5 |
| | | -5.7 | -5.7 | 2583 | 1701 | -2.2 | -3.4 | -16 | 16 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -2838.4 | -468.9 | 111.0 | -574.4 | -67.7 |
| | | -5.3 | -5.3 | 2583 | 1701 | -2.1 | -3.1 | -15 | 15 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -2833.0 | -463.5 | 106.5 | -546.9 | -67.8 |
| | | -5.0 | -5.0 | 2583 | 1701 | -1.9 | -2.9 | -14 | 14 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -2828.1 | -458.5 | 102.0 | -519.6 | -68.0 |
| | | -4.6 | -4.6 | 2583 | 1701 | -1.8 | -2.7 | -12 | 12 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -2823.5 | -453.9 | 97.6 | -492.3 | -68.1 |
| | | -4.2 | -4.2 | 2583 | 1701 | -1.6 | -2.5 | -11 | 11 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -2819.2 | -449.7 | 93.2 | -465.0 | -68.2 |
| | | -3.9 | -3.9 | 2583 | 1701 | -1.5 | -2.3 | -9 | 9 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -2815.4 | -445.9 | 88.9 | -437.7 | -68.2 |
| | | -3.6 | -3.5 | 2583 | 1700 | -1.4 | -2.0 | -5 | 5 | | | | | |
| CLUB | 89.02 | | | | | | | | | -2811.8 | -442.4 | 84.6 | -410.5 | -68.3 |
| | | -103.7 | 1.2 | 2945 | 1733 | -35.2 | .7 | -0 | -29 | | | | | |
| CLUB | 101.02 | | | | | | | | | -2708.0 | -443.6 | 79.3 | -377.4 | -65.3 |
| | | -131.4 | -.6 | 3443 | 2029 | -38.2 | -.3 | 0 | -21 | | | | | |
| HO11 | 115.02 | | | | | | | | | -2576.6 | -443.0 | 73.1 | -340.4 | -62.6 |
| | | -92.5 | -1.7 | 2368 | 1391 | -39.1 | -1.2 | 0 | -18 | | | | | |
| HO12 | 124.69 | | | | | | | | | -2484.1 | -441.3 | 68.8 | -315.9 | -60.9 |
| | | -88.8 | -1.1 | 2323 | 1347 | -38.2 | -.8 | 0 | -24 | | | | | |
| HO13 | 134.36 | | | | | | | | | -2395.3 | -440.1 | 64.6 | -292.3 | -58.7 |
| | | -89.7 | -7.8 | 2264 | 1287 | -39.6 | -6.1 | 2 | -25 | | | | | |
| HO14 | 144.03 | | | | | | | | | -2305.5 | -432.3 | 60.3 | -269.6 | -56.5 |
| | | -91.3 | -9.7 | 2253 | 1276 | -40.6 | -7.6 | 3 | -25 | | | | | |
| HO15 | 153.70 | | | | | | | | | -2214.2 | -422.7 | 56.2 | -247.8 | -54.2 |
| | | -92.2 | -10.4 | 2253 | 1276 | -40.9 | -8.2 | 3 | -25 | | | | | |
| HO16 | 163.37 | | | | | | | | | -2122.0 | -412.3 | 52.2 | -226.8 | -51.8 |
| | | -134.9 | -16.4 | 3261 | 1847 | -41.4 | -8.9 | 3 | -25 | | | | | |
| OF17 | 177.37 | | | | | | | | | -1987.1 | -395.9 | 46.5 | -198.0 | -48.4 |
| | | -117.0 | -15.3 | 2795 | 1583 | -41.8 | -9.7 | 3 | -25 | | | | | |
| OF18 | 189.37 | | | | | | | | | -1870.2 | -380.6 | 41.9 | -174.9 | -45.5 |
| | | -117.8 | -16.1 | 2795 | 1583 | -42.1 | -10.2 | 3 | -24 | | | | | |
| OF19 | 201.37 | | | | | | | | | -1752.4 | -364.5 | 37.4 | -153.2 | -42.6 |
| | | -118.6 | -16.9 | 2795 | 1583 | -42.4 | -10.7 | 3 | -24 | | | | | |
| OF20 | 213.37 | | | | | | | | | -1633.8 | -347.6 | 33.1 | -132.8 | -39.8 |
| | | -119.4 | -17.7 | 2795 | 1583 | -42.7 | -11.2 | 3 | -23 | | | | | |
| OF21 | 225.37 | | | | | | | | | -1514.5 | -329.8 | 29.0 | -113.9 | -36.9 |
| | | -120.1 | -18.5 | 2795 | 1583 | -43.0 | -11.7 | 3 | -23 | | | | | |
| OF22 | 237.37 | | | | | | | | | -1394.3 | -311.3 | 25.2 | -96.5 | -34.2 |
| | | -120.7 | -19.3 | 2795 | 1583 | -43.2 | -12.2 | 4 | -22 | | | | | |
| OF23 | 249.37 | | | | | | | | | -1273.6 | -292.0 | 21.6 | -80.5 | -31.4 |
| | | -121.0 | -20.2 | 2795 | 1583 | -43.3 | -12.7 | 4 | -22 | | | | | |
| OF24 | 261.37 | | | | | | | | | -1152.6 | -271.8 | 18.2 | -65.9 | -28.7 |
| | | -121.3 | -21.0 | 2795 | 1583 | -43.4 | -13.2 | 4 | -21 | | | | | |
| OF25 | 273.37 | | | | | | | | | -1031.2 | -250.8 | 15.1 | -52.8 | -26.1 |
| | | -121.7 | -21.8 | 2795 | 1583 | -43.5 | -13.8 | 4 | -21 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER

WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -909.6 | -229.1 | 12.2 | -41.2 | -23.5 |
| | | -121.6 | -23.0 | 2795 | 1583 | -43.5 | -14.5 | 4 | -21 | | | | | |
| OF27 | 297.37 | | | | | | | | | -788.0 | -206.1 | 9.6 | -31.0 | -20.9 |
| | | -121.1 | -24.7 | 2795 | 1583 | -43.3 | -15.6 | 4 | -20 | | | | | |
| OF28 | 309.37 | | | | | | | | | -666.9 | -181.4 | 7.2 | -22.3 | -18.3 |
| | | -120.5 | -26.5 | 2795 | 1583 | -43.1 | -16.8 | 4 | -20 | | | | | |
| OF29 | 321.37 | | | | | | | | | -546.4 | -154.8 | 5.2 | -15.0 | -15.7 |
| | | -119.9 | -28.3 | 2795 | 1583 | -42.9 | -17.9 | 5 | -20 | | | | | |
| OF30 | 333.37 | | | | | | | | | -426.5 | -126.5 | 3.5 | -9.2 | -13.2 |
| | | -117.7 | -28.7 | 2795 | 1583 | -42.1 | -18.1 | 5 | -20 | | | | | |
| OF31 | 345.37 | | | | | | | | | -308.8 | -97.8 | 2.2 | -4.7 | -10.7 |
| | | -112.6 | -26.7 | 2795 | 1583 | -40.3 | -16.9 | 5 | -22 | | | | | |
| OF32 | 357.37 | | | | | | | | | -196.3 | -71.1 | 1.2 | -1.7 | -8.1 |
| | | -110.6 | -27.9 | 2795 | 1583 | -39.6 | -17.6 | 5 | -19 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -85.6 | -43.1 | .5 | -.0 | -5.9 |
| | | -122.1 | -31.0 | 3261 | 1847 | -37.4 | -16.8 | 5 | -19 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 36.5 | -12.2 | .1 | .3 | -3.3 |
| | | 36.5 | -12.2 | 2985 | 1355 | 12.2 | -9.0 | 27 | 82 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -3179.9 | -326.1 | 72.8 | -733.1 | -101.7 |
| | | -17.5 | -17.5 | 5698 | 3751 | -3.1 | -4.7 | -20 | 20 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -3162.4 | -308.7 | 66.0 | -665.5 | -102.4 |
| | | -7.5 | -7.5 | 2583 | 1701 | -2.9 | -4.4 | -19 | 19 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -3154.9 | -301.2 | 63.1 | -634.9 | -102.6 |
| | | -7.2 | -7.2 | 2583 | 1701 | -2.8 | -4.2 | -18 | 18 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -3147.7 | -294.0 | 60.2 | -604.4 | -102.9 |
| | | -6.9 | -6.9 | 2583 | 1701 | -2.7 | -4.1 | -17 | 17 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -3140.8 | -287.1 | 57.4 | -574.0 | -103.1 |
| | | -6.7 | -6.7 | 2583 | 1701 | -2.6 | -3.9 | -17 | 17 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -3134.1 | -280.4 | 54.6 | -543.7 | -103.4 |
| | | -6.4 | -6.4 | 2583 | 1701 | -2.5 | -3.7 | -16 | 16 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -3127.8 | -274.0 | 51.9 | -513.4 | -103.6 |
| | | -6.1 | -6.1 | 2583 | 1701 | -2.4 | -3.6 | -15 | 15 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -3121.7 | -267.9 | 49.3 | -483.2 | -103.7 |
| | | -6.0 | -5.8 | 2583 | 1700 | -2.3 | -3.4 | -13 | 14 | | | | | |
| CLUB | 89.02 | | | | | | | | | -3115.7 | -262.1 | 46.8 | -453.0 | -103.9 |
| | | -117.9 | 4.3 | 2945 | 1733 | -40.0 | 2.5 | -1 | -34 | | | | | |
| CLUB | 101.02 | | | | | | | | | -2997.7 | -266.4 | 43.6 | -416.4 | -99.9 |
| | | -146.8 | -.1 | 3443 | 2029 | -42.7 | -.1 | 0 | -26 | | | | | |
| HO11 | 115.02 | | | | | | | | | -2850.9 | -266.3 | 39.9 | -375.4 | -96.2 |
| | | -103.7 | -2.5 | 2368 | 1391 | -43.8 | -1.8 | 1 | -22 | | | | | |
| HO12 | 124.69 | | | | | | | | | -2747.2 | -263.7 | 37.3 | -348.4 | -93.9 |
| | | -99.9 | -1.4 | 2323 | 1347 | -43.0 | -1.1 | 0 | -27 | | | | | |
| HO13 | 134.36 | | | | | | | | | -2647.3 | -262.3 | 34.7 | -322.3 | -91.1 |
| | | -99.6 | -7.7 | 2264 | 1287 | -44.0 | -6.0 | 2 | -30 | | | | | |
| HO14 | 144.03 | | | | | | | | | -2547.7 | -254.6 | 32.3 | -297.2 | -88.1 |
| | | -101.1 | -9.1 | 2253 | 1276 | -44.9 | -7.2 | 3 | -31 | | | | | |
| HO15 | 153.70 | | | | | | | | | -2446.6 | -245.5 | 29.8 | -273.0 | -84.9 |
| | | -102.4 | -9.4 | 2253 | 1276 | -45.4 | -7.4 | 3 | -31 | | | | | |
| HO16 | 163.37 | | | | | | | | | -2344.2 | -236.1 | 27.5 | -249.8 | -81.7 |
| | | -150.5 | -14.1 | 3261 | 1847 | -46.1 | -7.6 | 3 | -31 | | | | | |
| OF17 | 177.37 | | | | | | | | | -2193.7 | -222.0 | 24.3 | -218.1 | -77.0 |
| | | -131.1 | -12.5 | 2795 | 1583 | -46.9 | -7.9 | 3 | -31 | | | | | |
| OF18 | 189.37 | | | | | | | | | -2062.6 | -209.6 | 21.7 | -192.5 | -72.9 |
| | | -131.5 | -12.3 | 2795 | 1583 | -47.1 | -7.8 | 3 | -31 | | | | | |
| OF19 | 201.37 | | | | | | | | | -1931.0 | -197.2 | 19.3 | -168.6 | -68.8 |
| | | -131.8 | -12.1 | 2795 | 1583 | -47.2 | -7.6 | 3 | -31 | | | | | |
| OF20 | 213.37 | | | | | | | | | -1799.2 | -185.1 | 17.0 | -146.2 | -64.7 |
| | | -132.1 | -11.9 | 2795 | 1583 | -47.3 | -7.5 | 3 | -31 | | | | | |
| OF21 | 225.37 | | | | | | | | | -1667.1 | -173.3 | 14.8 | -125.4 | -60.5 |
| | | -132.4 | -11.7 | 2795 | 1583 | -47.4 | -7.4 | 3 | -31 | | | | | |
| OF22 | 237.37 | | | | | | | | | -1534.8 | -161.6 | 12.8 | -106.2 | -56.4 |
| | | -132.7 | -11.6 | 2795 | 1583 | -47.5 | -7.3 | 3 | -31 | | | | | |
| OF23 | 249.37 | | | | | | | | | -1402.0 | -150.0 | 10.9 | -88.6 | -52.2 |
| | | -133.2 | -11.7 | 2795 | 1583 | -47.7 | -7.4 | 3 | -32 | | | | | |
| OF24 | 261.37 | | | | | | | | | -1268.8 | -138.3 | 9.2 | -72.5 | -47.9 |
| | | -133.7 | -11.9 | 2795 | 1583 | -47.8 | -7.5 | 3 | -32 | | | | | |
| OF25 | 273.37 | | | | | | | | | -1135.0 | -126.4 | 7.6 | -58.1 | -43.6 |
| | | -134.2 | -12.0 | 2795 | 1583 | -48.0 | -7.6 | 3 | -32 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -1000.8 | -114.4 | 6.2 | -45.3 | -39.3 |
| | | -134.3 | -12.2 | 2795 | 1583 | -48.0 | -7.7 | 3 | -32 | | | | | |
| OF27 | 297.37 | | | | | | | | | -866.5 | -102.2 | 4.9 | -34.1 | -34.9 |
| | | -133.7 | -12.5 | 2795 | 1583 | -47.8 | -7.9 | 3 | -33 | | | | | |
| OF28 | 309.37 | | | | | | | | | -732.8 | -89.7 | 3.7 | -24.5 | -30.5 |
| | | -133.1 | -12.8 | 2795 | 1583 | -47.6 | -8.1 | 3 | -33 | | | | | |
| OF29 | 321.37 | | | | | | | | | -599.7 | -76.9 | 2.7 | -16.5 | -26.1 |
| | | -132.4 | -13.2 | 2795 | 1583 | -47.4 | -8.3 | 3 | -33 | | | | | |
| OF30 | 333.37 | | | | | | | | | -467.3 | -63.7 | 1.9 | -10.1 | -21.7 |
| | | -129.6 | -13.0 | 2795 | 1583 | -46.4 | -8.2 | 3 | -34 | | | | | |
| OF31 | 345.37 | | | | | | | | | -337.7 | -50.7 | 1.2 | -5.3 | -17.2 |
| | | -122.3 | -11.6 | 2795 | 1583 | -43.7 | -7.3 | 3 | -37 | | | | | |
| OF32 | 357.37 | | | | | | | | | -215.5 | -39.1 | .7 | -2.0 | -12.7 |
| | | -119.1 | -14.3 | 2795 | 1583 | -42.6 | -9.0 | 4 | -34 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -96.4 | -24.8 | .3 | -.1 | -8.6 |
| | | -132.9 | -18.4 | 3261 | 1847 | -40.8 | -9.9 | 4 | -33 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 36.6 | -6.5 | .1 | .3 | -4.2 |
| | | 36.6 | -6.5 | 2985 | 1355 | 12.3 | -4.8 | 20 | 112 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 40 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -3659.3 | -387.7 | 81.0 | -839.8 | -136.3 |
| PAR2 | 21.33 | -19.1 | -19.1 | 5698 | 3751 | -3.3 | -5.1 | -20 | 20 | -3640.2 | -368.6 | 73.0 | -762.0 | -137.1 |
| PAR3 | 31.00 | -8.2 | -8.2 | 2583 | 1701 | -3.2 | -4.8 | -20 | 20 | -3632.0 | -360.4 | 69.4 | -726.8 | -137.4 |
| PAR4 | 40.67 | -7.9 | -7.9 | 2583 | 1701 | -3.1 | -4.7 | -19 | 19 | -3624.1 | -352.5 | 66.0 | -691.7 | -137.7 |
| PAR5 | 50.34 | -7.6 | -7.6 | 2583 | 1701 | -3.0 | -4.5 | -19 | 19 | -3616.4 | -344.8 | 62.6 | -656.7 | -138.0 |
| PAR6 | 60.01 | -7.4 | -7.4 | 2583 | 1701 | -2.9 | -4.3 | -18 | 18 | -3609.1 | -337.5 | 59.3 | -621.8 | -138.2 |
| PAR7 | 69.68 | -7.1 | -7.1 | 2583 | 1701 | -2.7 | -4.2 | -17 | 17 | -3602.0 | -330.4 | 56.1 | -586.9 | -138.5 |
| PAR8 | 79.35 | -6.8 | -6.8 | 2583 | 1701 | -2.6 | -4.0 | -17 | 17 | -3595.2 | -323.6 | 52.9 | -552.1 | -138.7 |
| CLUB | 89.02 | -6.7 | -6.5 | 2583 | 1700 | -2.6 | -3.8 | -15 | 15 | -3588.4 | -317.1 | 49.8 | -517.4 | -138.9 |
| CLUB | 101.02 | -140.4 | 3.5 | 2945 | 1733 | -47.7 | 2.0 | -1 | -36 | -3448.0 | -320.5 | 46.0 | -475.2 | -133.9 |
| HO11 | 115.02 | -173.6 | -3.6 | 3443 | 2029 | -50.4 | -1.8 | 1 | -29 | -3274.4 | -317.0 | 41.5 | -428.1 | -128.8 |
| HO12 | 124.69 | -122.9 | -6.7 | 2368 | 1391 | -51.9 | -4.8 | 1 | -27 | -3151.5 | -310.3 | 38.5 | -397.0 | -125.5 |
| HO13 | 134.36 | -119.6 | -7.3 | 2323 | 1347 | -51.5 | -5.4 | 2 | -31 | -3031.8 | -303.0 | 35.6 | -367.1 | -121.7 |
| HO14 | 144.03 | -117.8 | -13.0 | 2264 | 1287 | -52.1 | -10.1 | 4 | -34 | -2914.0 | -290.1 | 32.7 | -338.4 | -117.6 |
| HO15 | 153.70 | -118.3 | -14.0 | 2253 | 1276 | -52.5 | -11.0 | 4 | -35 | -2795.7 | -276.1 | 29.9 | -310.8 | -113.4 |
| HO16 | 163.37 | -119.0 | -13.9 | 2253 | 1276 | -52.8 | -10.9 | 4 | -35 | -2676.7 | -262.2 | 27.3 | -284.3 | -109.2 |
| OF17 | 177.37 | -173.7 | -19.8 | 3261 | 1847 | -53.2 | -10.7 | 4 | -35 | -2503.0 | -242.4 | 23.8 | -248.1 | -103.0 |
| OF18 | 189.37 | -150.1 | -16.8 | 2795 | 1583 | -53.7 | -10.6 | 4 | -35 | -2352.9 | -225.6 | 21.0 | -218.9 | -97.7 |
| OF19 | 201.37 | -150.7 | -16.4 | 2795 | 1583 | -53.9 | -10.4 | 4 | -35 | -2202.2 | -209.2 | 18.4 | -191.6 | -92.3 |
| OF20 | 213.37 | -151.2 | -16.0 | 2795 | 1583 | -54.1 | -10.1 | 4 | -35 | -2051.0 | -193.2 | 16.0 | -166.1 | -86.9 |
| OF21 | 225.37 | -151.8 | -15.6 | 2795 | 1583 | -54.3 | -9.8 | 4 | -36 | -1899.2 | -177.6 | 13.8 | -142.4 | -81.5 |
| OF22 | 237.37 | -152.4 | -15.1 | 2795 | 1583 | -54.5 | -9.6 | 4 | -36 | -1746.8 | -162.5 | 11.7 | -120.5 | -76.0 |
| OF23 | 249.37 | -152.7 | -14.8 | 2795 | 1583 | -54.6 | -9.3 | 3 | -36 | -1594.1 | -147.7 | 9.9 | -100.5 | -70.4 |
| OF24 | 261.37 | -152.9 | -14.4 | 2795 | 1583 | -54.7 | -9.1 | 3 | -36 | -1441.2 | -133.3 | 8.2 | -82.2 | -64.8 |
| OF25 | 273.37 | -153.0 | -14.1 | 2795 | 1583 | -54.7 | -8.9 | 3 | -37 | -1288.1 | -119.2 | 6.7 | -65.9 | -59.2 |
| | | -153.2 | -13.8 | 2795 | 1583 | -54.8 | -8.7 | 3 | -37 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 40 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -1135.0 | -105.3 | 5.3 | -51.3 | -53.5 |
| | | -152.9 | -13.5 | 2795 | 1583 | -54.7 | -8.5 | 3 | -37 | | | | | |
| OF27 | 297.37 | | | | | | | | | -982.1 | -91.8 | 4.1 | -38.6 | -47.7 |
| | | -152.1 | -13.2 | 2795 | 1583 | -54.4 | -8.4 | 3 | -38 | | | | | |
| OF28 | 309.37 | | | | | | | | | -830.0 | -78.6 | 3.1 | -27.8 | -41.9 |
| | | -151.2 | -13.0 | 2795 | 1583 | -54.1 | -8.2 | 3 | -39 | | | | | |
| OF29 | 321.37 | | | | | | | | | -678.8 | -65.6 | 2.2 | -18.7 | -36.0 |
| | | -150.4 | -12.7 | 2795 | 1583 | -53.8 | -8.0 | 3 | -40 | | | | | |
| OF30 | 333.37 | | | | | | | | | -528.4 | -52.9 | 1.5 | -11.5 | -30.0 |
| | | -147.1 | -11.9 | 2795 | 1583 | -52.6 | -7.5 | 3 | -41 | | | | | |
| OF31 | 345.37 | | | | | | | | | -381.3 | -41.0 | 1.0 | -6.0 | -23.9 |
| | | -138.1 | -9.4 | 2795 | 1583 | -49.4 | -5.9 | 3 | -45 | | | | | |
| OF32 | 357.37 | | | | | | | | | -243.2 | -31.6 | .5 | -2.3 | -17.6 |
| | | -133.6 | -11.2 | 2795 | 1583 | -47.8 | -7.1 | 4 | -44 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -109.6 | -20.3 | .2 | -.1 | -11.7 |
| | | -148.9 | -15.9 | 3261 | 1847 | -45.7 | -8.6 | 5 | -43 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 39.3 | -4.4 | .0 | .4 | -5.2 |
| | | 39.3 | -4.4 | 2985 | 1355 | 13.2 | -3.3 | 15 | 131 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -3868.2 | -485.1 | 104.1 | -884.0 | -176.6 |
| | | -15.5 | -15.5 | 5698 | 3751 | -2.7 | -4.1 | -20 | 20 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -3852.8 | -469.7 | 94.0 | -801.7 | -177.2 |
| | | -6.7 | -6.7 | 2583 | 1701 | -2.6 | -3.9 | -19 | 19 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -3846.1 | -463.0 | 89.4 | -764.4 | -177.4 |
| | | -6.4 | -6.4 | 2583 | 1701 | -2.5 | -3.8 | -19 | 19 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -3839.7 | -456.6 | 85.0 | -727.3 | -177.7 |
| | | -6.2 | -6.2 | 2583 | 1701 | -2.4 | -3.7 | -18 | 18 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -3833.5 | -450.4 | 80.6 | -690.2 | -177.9 |
| | | -6.0 | -6.0 | 2583 | 1701 | -2.3 | -3.5 | -17 | 17 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -3827.5 | -444.4 | 76.3 | -653.1 | -178.1 |
| | | -5.8 | -5.8 | 2583 | 1701 | -2.2 | -3.4 | -17 | 17 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -3821.7 | -438.6 | 72.0 | -616.1 | -178.3 |
| | | -5.5 | -5.5 | 2583 | 1701 | -2.1 | -3.3 | -16 | 16 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -3816.2 | -433.1 | 67.8 | -579.2 | -178.5 |
| | | -5.6 | -5.3 | 2583 | 1700 | -2.2 | -3.1 | -13 | 14 | | | | | |
| CLUB | 89.02 | | | | | | | | | -3810.6 | -427.8 | 63.6 | -542.3 | -178.6 |
| | | -154.8 | 3.2 | 2945 | 1733 | -52.6 | 1.9 | -1 | -40 | | | | | |
| CLUB | 101.02 | | | | | | | | | -3655.8 | -431.0 | 58.5 | -497.5 | -172.5 |
| | | -189.1 | -7.5 | 3443 | 2029 | -54.9 | -3.7 | 1 | -35 | | | | | |
| HO11 | 115.02 | | | | | | | | | -3466.7 | -423.5 | 52.5 | -447.7 | -165.8 |
| | | -133.6 | -10.7 | 2368 | 1391 | -56.4 | -7.7 | 3 | -34 | | | | | |
| HO12 | 124.69 | | | | | | | | | -3333.1 | -412.9 | 48.5 | -414.8 | -161.3 |
| | | -130.8 | -14.3 | 2323 | 1347 | -56.3 | -10.6 | 4 | -38 | | | | | |
| HO13 | 134.36 | | | | | | | | | -3202.3 | -398.6 | 44.5 | -383.2 | -156.2 |
| | | -129.8 | -19.8 | 2264 | 1287 | -57.3 | -15.4 | 6 | -39 | | | | | |
| HO14 | 144.03 | | | | | | | | | -3072.5 | -378.8 | 40.8 | -352.9 | -151.0 |
| | | -130.1 | -20.3 | 2253 | 1276 | -57.7 | -15.9 | 6 | -40 | | | | | |
| HO15 | 153.70 | | | | | | | | | -2942.5 | -358.5 | 37.2 | -323.8 | -145.7 |
| | | -129.8 | -19.7 | 2253 | 1276 | -57.6 | -15.4 | 6 | -41 | | | | | |
| HO16 | 163.37 | | | | | | | | | -2812.7 | -338.7 | 33.8 | -296.0 | -140.2 |
| | | -187.3 | -27.4 | 3261 | 1847 | -57.4 | -14.8 | 6 | -42 | | | | | |
| OF17 | 177.37 | | | | | | | | | -2625.4 | -311.3 | 29.3 | -257.9 | -132.2 |
| | | -160.0 | -22.5 | 2795 | 1583 | -57.2 | -14.2 | 6 | -43 | | | | | |
| OF18 | 189.37 | | | | | | | | | -2465.4 | -288.8 | 25.7 | -227.3 | -125.1 |
| | | -160.4 | -21.9 | 2795 | 1583 | -57.4 | -13.8 | 6 | -43 | | | | | |
| OF19 | 201.37 | | | | | | | | | -2305.0 | -266.9 | 22.4 | -198.7 | -118.0 |
| | | -160.8 | -21.4 | 2795 | 1583 | -57.5 | -13.5 | 6 | -44 | | | | | |
| OF20 | 213.37 | | | | | | | | | -2144.2 | -245.6 | 19.3 | -172.0 | -110.9 |
| | | -161.2 | -20.8 | 2795 | 1583 | -57.7 | -13.2 | 6 | -44 | | | | | |
| OF21 | 225.37 | | | | | | | | | -1983.0 | -224.7 | 16.5 | -147.3 | -103.7 |
| | | -161.6 | -20.3 | 2795 | 1583 | -57.8 | -12.8 | 6 | -44 | | | | | |
| OF22 | 237.37 | | | | | | | | | -1821.4 | -204.4 | 13.9 | -124.4 | -96.5 |
| | | -161.8 | -19.9 | 2795 | 1583 | -57.9 | -12.6 | 5 | -44 | | | | | |
| OF23 | 249.37 | | | | | | | | | -1659.6 | -184.5 | 11.5 | -103.6 | -89.3 |
| | | -161.8 | -19.6 | 2795 | 1583 | -57.9 | -12.4 | 5 | -44 | | | | | |
| OF24 | 261.37 | | | | | | | | | -1497.9 | -165.0 | 9.5 | -84.6 | -82.0 |
| | | -161.7 | -19.3 | 2795 | 1583 | -57.8 | -12.2 | 5 | -44 | | | | | |
| OF25 | 273.37 | | | | | | | | | -1336.2 | -145.7 | 7.6 | -67.6 | -74.7 |
| | | -161.7 | -19.0 | 2795 | 1583 | -57.8 | -12.0 | 5 | -45 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -1174.5 | -126.7 | 6.0 | -52.5 | -67.4 |
| | | -161.1 | -18.5 | 2795 | 1583 | -57.6 | -11.7 | 5 | -45 | | | | | |
| OF27 | 297.37 | | | | | | | | | -1013.4 | -108.2 | 4.5 | -39.4 | -60.1 |
| | | -159.6 | -17.8 | 2795 | 1583 | -57.1 | -11.2 | 5 | -46 | | | | | |
| OF28 | 309.37 | | | | | | | | | -853.9 | -90.4 | 3.4 | -28.2 | -52.7 |
| | | -158.1 | -17.0 | 2795 | 1583 | -56.6 | -10.8 | 5 | -46 | | | | | |
| OF29 | 321.37 | | | | | | | | | -695.7 | -73.3 | 2.4 | -18.9 | -45.3 |
| | | -156.6 | -16.3 | 2795 | 1583 | -56.0 | -10.3 | 5 | -47 | | | | | |
| OF30 | 333.37 | | | | | | | | | -539.1 | -57.0 | 1.6 | -11.5 | -37.8 |
| | | -152.2 | -14.5 | 2795 | 1583 | -54.5 | -9.2 | 5 | -49 | | | | | |
| OF31 | 345.37 | | | | | | | | | -386.8 | -42.5 | 1.0 | -5.9 | -30.2 |
| | | -141.7 | -10.3 | 2795 | 1583 | -50.7 | -6.5 | 4 | -55 | | | | | |
| OF32 | 357.37 | | | | | | | | | -245.1 | -32.2 | .5 | -2.2 | -22.4 |
| | | -136.3 | -11.1 | 2795 | 1583 | -48.8 | -7.0 | 5 | -55 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -108.8 | -21.1 | .2 | -.0 | -14.8 |
| | | -154.4 | -16.5 | 3261 | 1847 | -47.3 | -8.9 | 6 | -54 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 45.6 | -4.6 | .0 | .4 | -6.3 |
| | | 45.6 | -4.6 | 2985 | 1355 | 15.3 | -3.4 | 14 | 137 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -3705.6 | -823.6 | 188.6 | -840.9 | -225.4 |
| | | -10.5 | -10.5 | 5698 | 3751 | -1.8 | -2.8 | -16 | 16 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -3695.1 | -813.1 | 171.1 | -762.0 | -225.7 |
| | | -4.3 | -4.3 | 2583 | 1701 | -1.6 | -2.5 | -15 | 15 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -3690.9 | -808.8 | 163.3 | -726.3 | -225.8 |
| | | -4.0 | -4.0 | 2583 | 1701 | -1.5 | -2.3 | -14 | 14 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -3686.9 | -804.9 | 155.5 | -690.6 | -226.0 |
| | | -3.7 | -3.7 | 2583 | 1701 | -1.4 | -2.2 | -13 | 13 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -3683.3 | -801.2 | 147.7 | -655.0 | -226.1 |
| | | -3.4 | -3.4 | 2583 | 1701 | -1.3 | -2.0 | -12 | 12 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -3679.9 | -797.9 | 140.0 | -619.4 | -226.1 |
| | | -3.1 | -3.1 | 2583 | 1701 | -1.2 | -1.8 | -11 | 11 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -3676.8 | -794.8 | 132.3 | -583.8 | -226.2 |
| | | -2.8 | -2.8 | 2583 | 1701 | -1.1 | -1.6 | -9 | 9 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -3674.1 | -792.0 | 124.6 | -548.3 | -226.3 |
| | | -2.7 | -2.4 | 2583 | 1700 | -1.0 | -1.4 | -4 | 5 | | | | | |
| CLUB | 89.02 | | | | | | | | | -3671.4 | -789.6 | 117.0 | -512.7 | -226.3 |
| | | -153.1 | -4.3 | 2945 | 1733 | -52.0 | -2.5 | 1 | -43 | | | | | |
| CLUB | 101.02 | | | | | | | | | -3518.3 | -785.3 | 107.5 | -469.6 | -219.7 |
| | | -187.7 | -22.7 | 3443 | 2029 | -54.5 | -11.2 | 5 | -42 | | | | | |
| HO11 | 115.02 | | | | | | | | | -3330.6 | -762.6 | 96.7 | -421.7 | -211.7 |
| | | -133.2 | -23.9 | 2368 | 1391 | -56.3 | -17.1 | 8 | -43 | | | | | |
| HO12 | 124.69 | | | | | | | | | -3197.4 | -738.8 | 89.4 | -390.1 | -205.9 |
| | | -130.2 | -29.3 | 2323 | 1347 | -56.0 | -21.7 | 11 | -49 | | | | | |
| HO13 | 134.36 | | | | | | | | | -3067.3 | -709.5 | 82.4 | -359.8 | -199.1 |
| | | -129.8 | -34.2 | 2264 | 1287 | -57.3 | -26.6 | 13 | -50 | | | | | |
| HO14 | 144.03 | | | | | | | | | -2937.4 | -675.3 | 75.7 | -330.8 | -192.1 |
| | | -130.2 | -34.4 | 2253 | 1276 | -57.8 | -27.0 | 13 | -51 | | | | | |
| HO15 | 153.70 | | | | | | | | | -2807.3 | -640.9 | 69.4 | -303.0 | -185.1 |
| | | -129.5 | -33.6 | 2253 | 1276 | -57.5 | -26.3 | 13 | -52 | | | | | |
| HO16 | 163.37 | | | | | | | | | -2677.8 | -607.3 | 63.3 | -276.5 | -177.9 |
| | | -186.2 | -47.1 | 3261 | 1847 | -57.1 | -25.5 | 13 | -53 | | | | | |
| OF17 | 177.37 | | | | | | | | | -2491.6 | -560.2 | 55.2 | -240.3 | -167.4 |
| | | -158.4 | -38.9 | 2795 | 1583 | -56.7 | -24.6 | 14 | -55 | | | | | |
| OF18 | 189.37 | | | | | | | | | -2333.1 | -521.3 | 48.7 | -211.3 | -158.1 |
| | | -157.6 | -37.8 | 2795 | 1583 | -56.4 | -23.9 | 13 | -55 | | | | | |
| OF19 | 201.37 | | | | | | | | | -2175.5 | -483.5 | 42.6 | -184.3 | -148.9 |
| | | -156.8 | -36.6 | 2795 | 1583 | -56.1 | -23.1 | 13 | -56 | | | | | |
| OF20 | 213.37 | | | | | | | | | -2018.8 | -446.9 | 37.1 | -159.1 | -139.7 |
| | | -156.0 | -35.4 | 2795 | 1583 | -55.8 | -22.4 | 13 | -56 | | | | | |
| OF21 | 225.37 | | | | | | | | | -1862.8 | -411.4 | 31.9 | -135.8 | -130.5 |
| | | -155.1 | -34.3 | 2795 | 1583 | -55.5 | -21.7 | 13 | -57 | | | | | |
| OF22 | 237.37 | | | | | | | | | -1707.6 | -377.1 | 27.2 | -114.4 | -121.3 |
| | | -154.6 | -33.4 | 2795 | 1583 | -55.3 | -21.1 | 12 | -57 | | | | | |
| OF23 | 249.37 | | | | | | | | | -1553.0 | -343.7 | 22.9 | -94.9 | -112.0 |
| | | -154.4 | -32.9 | 2795 | 1583 | -55.2 | -20.8 | 12 | -57 | | | | | |
| OF24 | 261.37 | | | | | | | | | -1398.6 | -310.8 | 18.9 | -77.1 | -102.8 |
| | | -154.3 | -32.4 | 2795 | 1583 | -55.2 | -20.4 | 12 | -58 | | | | | |
| OF25 | 273.37 | | | | | | | | | -1244.3 | -278.5 | 15.4 | -61.3 | -93.5 |
| | | -154.1 | -31.9 | 2795 | 1583 | -55.1 | -20.1 | 12 | -58 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -1090.2 | -246.6 | 12.2 | -47.3 | -84.1 |
| | | -153.4 | -31.5 | 2795 | 1583 | -54.9 | -19.9 | 12 | -59 | | | | | |
| OF27 | 297.37 | | | | | | | | | -936.8 | -215.1 | 9.5 | -35.1 | -74.7 |
| | | -151.9 | -31.4 | 2795 | 1583 | -54.3 | -19.8 | 12 | -59 | | | | | |
| OF28 | 309.37 | | | | | | | | | -784.9 | -183.7 | 7.1 | -24.8 | -65.3 |
| | | -150.4 | -31.2 | 2795 | 1583 | -53.8 | -19.7 | 12 | -60 | | | | | |
| OF29 | 321.37 | | | | | | | | | -634.5 | -152.5 | 5.1 | -16.3 | -55.9 |
| | | -148.9 | -31.1 | 2795 | 1583 | -53.3 | -19.7 | 13 | -61 | | | | | |
| OF30 | 333.37 | | | | | | | | | -485.6 | -121.4 | 3.4 | -9.5 | -46.4 |
| | | -144.4 | -29.5 | 2795 | 1583 | -51.7 | -18.6 | 13 | -63 | | | | | |
| OF31 | 345.37 | | | | | | | | | -341.1 | -91.8 | 2.1 | -4.6 | -37.0 |
| | | -133.9 | -24.6 | 2795 | 1583 | -47.9 | -15.6 | 13 | -69 | | | | | |
| OF32 | 357.37 | | | | | | | | | -207.3 | -67.2 | 1.2 | -1.3 | -27.4 |
| | | -126.5 | -23.0 | 2795 | 1583 | -45.2 | -14.5 | 13 | -72 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -80.8 | -44.2 | .5 | .4 | -18.0 |
| | | -143.2 | -31.2 | 3261 | 1947 | -43.9 | -16.9 | 15 | -71 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 62.4 | -13.0 | .1 | .6 | -7.4 |
| | | 62.4 | -13.0 | 2985 | 1355 | 20.9 | -9.6 | 24 | 113 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -3161.0 | -637.7 | 150.4 | -710.5 | -250.0 |
| | | -6.9 | -6.9 | 5698 | 3751 | -1.2 | -1.8 | -12 | 12 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -3154.1 | -630.8 | 136.9 | -643.2 | -250.2 |
| | | -2.8 | -2.8 | 2583 | 1701 | -1.1 | -1.7 | -10 | 10 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -3151.3 | -628.0 | 130.8 | -612.7 | -250.3 |
| | | -2.6 | -2.6 | 2583 | 1701 | -1.0 | -1.5 | -9 | 9 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -3148.7 | -625.4 | 124.8 | -582.2 | -250.3 |
| | | -2.4 | -2.4 | 2583 | 1701 | -.9 | -1.4 | -7 | 7 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -3146.3 | -623.0 | 118.7 | -551.8 | -250.3 |
| | | -2.2 | -2.2 | 2583 | 1701 | -.9 | -1.3 | -6 | 6 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -3144.1 | -620.8 | 112.7 | -521.4 | -250.4 |
| | | -2.0 | -2.0 | 2583 | 1701 | -.8 | -1.2 | -4 | 4 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -3142.1 | -618.8 | 106.7 | -491.0 | -250.4 |
| | | -1.8 | -1.8 | 2583 | 1701 | -.7 | -1.1 | -1 | 1 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -3140.3 | -617.0 | 100.7 | -460.6 | -250.4 |
| | | -1.8 | -1.6 | 2583 | 1700 | -.7 | -.9 | 5 | -6 | | | | | |
| CLUB | 89.02 | | | | | | | | | -3138.5 | -615.5 | 94.8 | -430.2 | -250.4 |
| | | -134.6 | 6.0 | 2945 | 1733 | -45.7 | 3.5 | -2 | -49 | | | | | |
| CLUB | 101.02 | | | | | | | | | -3003.9 | -621.5 | 87.4 | -393.4 | -243.7 |
| | | -167.1 | -10.9 | 3443 | 2029 | -48.5 | -5.4 | 3 | -51 | | | | | |
| H011 | 115.02 | | | | | | | | | -2836.8 | -610.7 | 78.7 | -352.5 | -235.2 |
| | | -117.5 | -13.9 | 2368 | 1391 | -49.6 | -10.0 | 7 | -56 | | | | | |
| H012 | 124.69 | | | | | | | | | -2719.3 | -596.8 | 72.9 | -325.6 | -228.6 |
| | | -113.6 | -21.6 | 2323 | 1347 | -48.9 | -16.0 | 13 | -66 | | | | | |
| H013 | 134.36 | | | | | | | | | -2605.7 | -575.2 | 67.2 | -299.9 | -220.8 |
| | | -112.5 | -26.2 | 2264 | 1287 | -49.7 | -20.4 | 16 | -68 | | | | | |
| H014 | 144.03 | | | | | | | | | -2493.2 | -549.0 | 61.8 | -275.2 | -212.6 |
| | | -112.7 | -26.9 | 2253 | 1276 | -50.0 | -21.1 | 16 | -69 | | | | | |
| H015 | 153.70 | | | | | | | | | -2380.6 | -522.1 | 56.6 | -251.7 | -204.5 |
| | | -112.0 | -26.5 | 2253 | 1276 | -49.7 | -20.7 | 16 | -69 | | | | | |
| H016 | 163.37 | | | | | | | | | -2268.6 | -495.7 | 51.7 | -229.2 | -196.3 |
| | | -160.9 | -37.6 | 3261 | 1847 | -49.4 | -20.3 | 16 | -70 | | | | | |
| OF17 | 177.37 | | | | | | | | | -2107.6 | -458.1 | 45.0 | -198.6 | -184.4 |
| | | -136.8 | -31.5 | 2795 | 1583 | -49.0 | -19.9 | 16 | -70 | | | | | |
| OF18 | 189.37 | | | | | | | | | -1970.8 | -426.6 | 39.7 | -174.1 | -174.3 |
| | | -136.1 | -30.7 | 2795 | 1583 | -48.7 | -19.4 | 16 | -71 | | | | | |
| OF19 | 201.37 | | | | | | | | | -1834.7 | -395.9 | 34.8 | -151.2 | -164.1 |
| | | -135.4 | -29.9 | 2795 | 1583 | -48.4 | -18.9 | 16 | -72 | | | | | |
| OF20 | 213.37 | | | | | | | | | -1699.4 | -366.1 | 30.2 | -130.0 | -153.9 |
| | | -134.6 | -29.0 | 2795 | 1583 | -48.2 | -18.3 | 16 | -72 | | | | | |
| OF21 | 225.37 | | | | | | | | | -1564.7 | -337.1 | 26.0 | -110.5 | -143.7 |
| | | -133.9 | -28.2 | 2795 | 1583 | -47.9 | -17.8 | 15 | -73 | | | | | |
| OF22 | 237.37 | | | | | | | | | -1430.9 | -308.8 | 22.1 | -92.5 | -133.5 |
| | | -133.3 | -27.6 | 2795 | 1583 | -47.7 | -17.4 | 15 | -74 | | | | | |
| OF23 | 249.37 | | | | | | | | | -1297.6 | -281.2 | 18.6 | -76.1 | -123.2 |
| | | -132.9 | -27.4 | 2795 | 1583 | -47.5 | -17.3 | 15 | -74 | | | | | |
| OF24 | 261.37 | | | | | | | | | -1164.7 | -253.8 | 15.4 | -61.3 | -113.0 |
| | | -132.4 | -27.1 | 2795 | 1583 | -47.4 | -17.1 | 15 | -74 | | | | | |
| OF25 | 273.37 | | | | | | | | | -1032.3 | -226.7 | 12.5 | -48.2 | -102.7 |
| | | -132.0 | -26.9 | 2795 | 1583 | -47.2 | -17.0 | 15 | -74 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -900.3 | -199.9 | 9.9 | -36.6 | -92.5 |
| | | -131.4 | -26.4 | 2795 | 1583 | -47.0 | -16.7 | 15 | -75 | | | | | |
| OF27 | 297.37 | | | | | | | | | -768.9 | -173.5 | 7.7 | -26.6 | -82.3 |
| | | -130.3 | -25.6 | 2795 | 1583 | -46.6 | -16.2 | 15 | -76 | | | | | |
| OF28 | 309.37 | | | | | | | | | -638.6 | -147.9 | 5.7 | -18.1 | -72.0 |
| | | -129.3 | -24.8 | 2795 | 1583 | -46.3 | -15.7 | 15 | -77 | | | | | |
| OF29 | 321.37 | | | | | | | | | -509.2 | -123.1 | 4.1 | -11.2 | -61.7 |
| | | -128.3 | -24.0 | 2795 | 1583 | -45.9 | -15.2 | 15 | -78 | | | | | |
| OF30 | 333.37 | | | | | | | | | -381.0 | -99.1 | 2.8 | -5.9 | -51.4 |
| | | -125.0 | -22.9 | 2795 | 1583 | -44.7 | -14.5 | 15 | -80 | | | | | |
| OF31 | 345.37 | | | | | | | | | -256.0 | -76.1 | 1.7 | -2.1 | -41.1 |
| | | -117.3 | -21.1 | 2795 | 1583 | -42.0 | -13.3 | 16 | -86 | | | | | |
| OF32 | 357.37 | | | | | | | | | -138.6 | -55.0 | 1.0 | .3 | -30.6 |
| | | -109.8 | -19.5 | 2795 | 1583 | -39.3 | -12.3 | 17 | -94 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -28.8 | -35.5 | .4 | 1.3 | -19.9 |
| | | -123.7 | -25.3 | 3261 | 1847 | -37.9 | -13.7 | 19 | -92 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 94.9 | -10.1 | .1 | .9 | -8.1 |
| | | 94.9 | -10.1 | 2985 | 1355 | 31.8 | -7.5 | 9 | 84 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 80 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| | | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -2422.1 | 533.1 | -128.9 | -543.5 | -206.3 |
| PAR2 | 21.33 | -2.8 | -2.8 | 5698 | 3751 | -.5 | -.8 | 3 | -3 | -2419.3 | 536.0 | -117.5 | -491.8 | -206.3 |
| PAR3 | 31.00 | -.9 | -.9 | 2583 | 1701 | -.3 | -.5 | 19 | -19 | -2418.4 | 536.8 | -112.4 | -468.4 | -206.3 |
| PAR4 | 40.67 | -.6 | -.6 | 2583 | 1701 | -.2 | -.3 | 40 | -40 | -2417.9 | 537.4 | -107.2 | -445.0 | -206.2 |
| PAR5 | 50.34 | -.3 | -.3 | 2583 | 1701 | -.1 | -.2 | 97 | -97 | -2417.5 | 537.7 | -102.0 | -421.7 | -206.1 |
| PAR6 | 60.01 | -.0 | -.0 | 2583 | 1701 | -.0 | -.0 | 780 | -780 | -2417.5 | 537.8 | -96.8 | -398.3 | -206.1 |
| PAR7 | 69.68 | .2 | .2 | 2583 | 1701 | .1 | .1 | -207 | 207 | -2417.7 | 537.6 | -91.6 | -374.9 | -206.0 |
| PAR8 | 79.35 | .5 | .5 | 2583 | 1701 | .2 | .3 | -108 | 108 | -2418.2 | 537.1 | -86.4 | -351.5 | -205.9 |
| CLUB | 89.02 | .6 | .8 | 2583 | 1700 | .2 | .5 | -104 | 72 | -2418.8 | 536.2 | -81.2 | -328.1 | -205.7 |
| CLUB | 101.02 | -110.3 | 42.6 | 2945 | 1733 | -37.5 | 24.6 | -16 | -42 | -2308.5 | 493.7 | -75.0 | -299.8 | -200.4 |
| HO11 | 115.02 | -137.1 | 34.8 | 3443 | 2029 | -39.8 | 17.1 | -12 | -47 | -2171.4 | 458.9 | -68.3 | -268.4 | -193.6 |
| HO12 | 124.69 | -94.1 | 19.5 | 2368 | 1391 | -39.8 | 14.0 | -12 | -56 | -2077.2 | 439.4 | -64.0 | -247.9 | -188.1 |
| HO13 | 134.36 | -89.4 | 14.0 | 2323 | 1347 | -38.5 | 10.4 | -11 | -71 | -1987.8 | 425.4 | -59.8 | -228.2 | -181.6 |
| HO14 | 144.03 | -87.3 | 10.5 | 2264 | 1287 | -38.6 | 8.1 | -9 | -78 | -1900.5 | 414.9 | -55.7 | -209.4 | -174.7 |
| HO15 | 153.70 | -86.8 | 10.2 | 2253 | 1276 | -38.5 | 8.0 | -9 | -79 | -1813.7 | 404.7 | -51.8 | -191.5 | -167.8 |
| HO16 | 163.37 | -85.8 | 10.9 | 2253 | 1276 | -38.1 | 8.5 | -10 | -79 | -1728.0 | 393.9 | -47.9 | -174.3 | -160.9 |
| OF17 | 177.37 | -122.3 | 16.8 | 3261 | 1847 | -37.5 | 9.1 | -11 | -80 | -1605.6 | 377.0 | -42.5 | -151.0 | -150.9 |
| OF18 | 189.37 | -103.1 | 15.5 | 2795 | 1583 | -36.9 | 9.8 | -12 | -80 | -1502.5 | 361.6 | -38.1 | -132.4 | -142.4 |
| OF19 | 201.37 | -102.7 | 16.5 | 2795 | 1583 | -36.7 | 10.4 | -13 | -81 | -1399.9 | 345.1 | -33.8 | -114.9 | -133.9 |
| OF20 | 213.37 | -102.3 | 17.5 | 2795 | 1583 | -36.6 | 11.0 | -14 | -81 | -1297.5 | 327.6 | -29.8 | -98.8 | -125.4 |
| OF21 | 225.37 | -102.0 | 18.5 | 2795 | 1583 | -36.5 | 11.7 | -15 | -81 | -1195.6 | 309.2 | -26.0 | -83.8 | -116.9 |
| OF22 | 237.37 | -101.6 | 19.5 | 2795 | 1583 | -36.3 | 12.3 | -15 | -81 | -1094.0 | 289.7 | -22.4 | -70.1 | -108.4 |
| OF23 | 249.37 | -101.4 | 20.4 | 2795 | 1583 | -36.3 | 12.9 | -16 | -81 | -992.5 | 269.2 | -19.0 | -57.5 | -99.9 |
| OF24 | 261.37 | -101.5 | 21.3 | 2795 | 1583 | -36.3 | 13.5 | -17 | -80 | -891.0 | 247.9 | -15.9 | -46.2 | -91.4 |
| OF25 | 273.37 | -101.6 | 22.2 | 2795 | 1583 | -36.3 | 14.0 | -17 | -80 | -789.5 | 225.8 | -13.1 | -36.2 | -83.0 |
| | | -101.6 | 23.1 | 2795 | 1583 | -36.4 | 14.6 | -18 | -79 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER

WIND DIRECTION 80 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -687.9 | 202.7 | -10.5 | -27.3 | -74.5 |
| | | -101.5 | 23.7 | 2795 | 1583 | -36.3 | 15.0 | -18 | -79 | | | | | |
| OF27 | 297.37 | | | | | | | | | -586.4 | 179.0 | -8.2 | -19.6 | -66.2 |
| | | -101.0 | 23.9 | 2795 | 1583 | -36.1 | 15.1 | -19 | -78 | | | | | |
| OF28 | 309.37 | | | | | | | | | -485.4 | 155.1 | -6.2 | -13.2 | -57.8 |
| | | -100.5 | 24.2 | 2795 | 1583 | -35.9 | 15.3 | -19 | -78 | | | | | |
| OF29 | 321.37 | | | | | | | | | -385.0 | 130.9 | -4.5 | -8.0 | -49.5 |
| | | -100.0 | 24.4 | 2795 | 1583 | -35.8 | 15.4 | -19 | -78 | | | | | |
| OF30 | 333.37 | | | | | | | | | -285.0 | 106.5 | -3.1 | -4.0 | -41.3 |
| | | -97.6 | 24.0 | 2795 | 1583 | -34.9 | 15.1 | -20 | -79 | | | | | |
| OF31 | 345.37 | | | | | | | | | -187.3 | 82.6 | -2.0 | -1.1 | -33.1 |
| | | -91.6 | 22.4 | 2795 | 1583 | -32.8 | 14.1 | -21 | -87 | | | | | |
| OF32 | 357.37 | | | | | | | | | -95.7 | 60.2 | -1.1 | .6 | -24.7 |
| | | -84.3 | 22.0 | 2795 | 1583 | -30.1 | 13.9 | -25 | -97 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -11.4 | 38.2 | -.5 | 1.2 | -15.9 |
| | | -91.6 | 22.9 | 3261 | 1847 | -28.1 | 12.4 | -25 | -99 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 80.1 | 15.2 | -.1 | .7 | -6.3 |
| | | 80.1 | 15.2 | 2985 | 1355 | 26.8 | 11.2 | -14 | 76 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -2156.9 | 911.0 | -214.0 | -498.3 | -159.5 |
| PAR2 | 21.33 | -.9 | -.9 | 5698 | 3751 | -.2 | -.2 | 33 | -33 | -2156.0 | 911.9 | -194.6 | -452.3 | -159.5 |
| PAR3 | 31.00 | .3 | .3 | 2583 | 1701 | .1 | .2 | -105 | 105 | -2156.3 | 911.6 | -185.8 | -431.4 | -159.4 |
| PAR4 | 40.67 | .7 | .7 | 2583 | 1701 | .3 | .4 | -55 | 55 | -2157.0 | 910.9 | -176.9 | -410.6 | -159.3 |
| PAR5 | 50.34 | 1.1 | 1.1 | 2583 | 1701 | .4 | .6 | -43 | 43 | -2158.1 | 909.8 | -168.1 | -389.7 | -159.2 |
| PAR6 | 60.01 | 1.5 | 1.5 | 2583 | 1701 | .6 | .9 | -37 | 37 | -2159.6 | 908.3 | -159.3 | -368.8 | -159.1 |
| PAR7 | 69.68 | 1.9 | 1.9 | 2583 | 1701 | .7 | 1.1 | -34 | 34 | -2161.5 | 906.4 | -150.6 | -347.9 | -159.0 |
| PAR8 | 79.35 | 2.3 | 2.3 | 2583 | 1701 | .9 | 1.4 | -32 | 32 | -2163.9 | 904.0 | -141.8 | -327.0 | -158.8 |
| CLUB | 89.02 | 2.6 | 2.9 | 2583 | 1700 | 1.0 | 1.7 | -33 | 30 | -2166.5 | 901.2 | -133.1 | -306.1 | -158.7 |
| CLUB | 101.02 | -87.6 | 58.2 | 2945 | 1733 | -29.8 | 33.6 | -20 | -31 | -2078.9 | 843.0 | -122.6 | -280.6 | -154.8 |
| HO11 | 115.02 | -105.8 | 55.4 | 3443 | 2029 | -30.7 | 27.3 | -22 | -42 | -1973.1 | 787.6 | -111.2 | -252.2 | -149.2 |
| HO12 | 124.69 | -75.0 | 32.7 | 2368 | 1391 | -31.7 | 23.5 | -23 | -53 | -1898.1 | 754.9 | -103.8 | -233.5 | -144.4 |
| HO13 | 134.36 | -75.6 | 25.8 | 2323 | 1347 | -32.5 | 19.2 | -22 | -65 | -1822.5 | 729.1 | -96.6 | -215.5 | -139.0 |
| HO14 | 144.03 | -75.6 | 22.4 | 2264 | 1287 | -33.4 | 17.4 | -20 | -68 | -1746.9 | 706.6 | -89.6 | -198.3 | -133.3 |
| HO15 | 153.70 | -75.8 | 22.5 | 2253 | 1276 | -33.6 | 17.7 | -20 | -68 | -1671.1 | 684.1 | -82.9 | -181.8 | -127.7 |
| HO16 | 163.37 | -75.3 | 23.3 | 2253 | 1276 | -33.4 | 18.3 | -21 | -67 | -1595.8 | 660.7 | -76.4 | -166.0 | -122.2 |
| OF17 | 177.37 | -108.3 | 35.2 | 3261 | 1847 | -33.2 | 19.1 | -21 | -66 | -1487.5 | 625.5 | -67.4 | -144.4 | -114.3 |
| OF18 | 189.37 | -92.1 | 31.5 | 2795 | 1583 | -32.9 | 19.9 | -22 | -64 | -1395.4 | 594.0 | -60.1 | -127.1 | -107.7 |
| OF19 | 201.37 | -91.9 | 32.4 | 2795 | 1583 | -32.9 | 20.5 | -22 | -63 | -1303.5 | 561.6 | -53.2 | -110.9 | -101.2 |
| OF20 | 213.37 | -91.8 | 33.3 | 2795 | 1583 | -32.9 | 21.0 | -23 | -63 | -1211.6 | 528.3 | -46.6 | -95.8 | -94.7 |
| OF21 | 225.37 | -91.8 | 34.2 | 2795 | 1583 | -32.8 | 21.6 | -23 | -62 | -1119.9 | 494.1 | -40.5 | -81.8 | -88.2 |
| OF22 | 237.37 | -91.7 | 35.0 | 2795 | 1583 | -32.8 | 22.1 | -23 | -61 | -1028.2 | 459.0 | -34.8 | -68.9 | -81.7 |
| OF23 | 249.37 | -91.8 | 35.8 | 2795 | 1583 | -32.8 | 22.6 | -24 | -61 | -936.5 | 423.3 | -29.5 | -57.1 | -75.3 |
| OF24 | 261.37 | -92.1 | 36.2 | 2795 | 1583 | -32.9 | 22.9 | -24 | -60 | -844.4 | 387.0 | -24.6 | -46.4 | -69.0 |
| OF25 | 273.37 | -92.5 | 36.7 | 2795 | 1583 | -33.1 | 23.2 | -24 | -59 | -751.9 | 350.3 | -20.2 | -36.9 | -62.6 |
| | | -92.8 | 37.2 | 2795 | 1583 | -33.2 | 23.5 | -23 | -58 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -659.1 | 313.1 | -16.2 | -28.4 | -56.3 |
| | | -92.7 | 37.5 | 2795 | 1583 | -33.2 | 23.7 | -24 | -58 | | | | | |
| OF27 | 297.37 | | | | | | | | | -566.4 | 275.6 | -12.7 | -21.0 | -50.1 |
| | | -92.0 | 37.5 | 2795 | 1583 | -32.9 | 23.7 | -24 | -58 | | | | | |
| OF28 | 309.37 | | | | | | | | | -474.3 | 238.0 | -9.6 | -14.8 | -43.8 |
| | | -91.3 | 37.5 | 2795 | 1583 | -32.7 | 23.7 | -24 | -58 | | | | | |
| OF29 | 321.37 | | | | | | | | | -383.0 | 200.6 | -7.0 | -9.7 | -37.6 |
| | | -90.6 | 37.5 | 2795 | 1583 | -32.4 | 23.7 | -24 | -58 | | | | | |
| OF30 | 333.37 | | | | | | | | | -292.4 | 163.1 | -4.8 | -5.6 | -31.4 |
| | | -88.3 | 36.7 | 2795 | 1583 | -31.6 | 23.2 | -25 | -59 | | | | | |
| OF31 | 345.37 | | | | | | | | | -204.1 | 126.3 | -3.0 | -2.6 | -25.2 |
| | | -83.2 | 34.3 | 2795 | 1583 | -29.8 | 21.7 | -26 | -63 | | | | | |
| OF32 | 357.37 | | | | | | | | | -120.9 | 92.0 | -1.7 | -.7 | -19.1 |
| | | -78.0 | 32.0 | 2795 | 1583 | -27.9 | 20.2 | -28 | -69 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -42.9 | 60.0 | -.8 | .3 | -12.8 |
| | | -81.1 | 34.9 | 3261 | 1847 | -24.9 | 18.9 | -32 | -75 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 38.2 | 25.1 | -.2 | .3 | -5.6 |
| | | 38.2 | 25.1 | 2985 | 1355 | 12.8 | 18.5 | -67 | 102 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1823.7 | 690.4 | -155.3 | -440.6 | -113.5 |
| PAR2 | 21.33 | .4 | .4 | 5698 | 3751 | .1 | .1 | -70 | 70 | -1824.1 | 690.0 | -140.6 | -401.7 | -113.4 |
| PAR3 | 31.00 | 1.2 | 1.2 | 2583 | 1701 | .5 | .7 | -30 | 30 | -1825.4 | 688.8 | -134.0 | -384.1 | -113.3 |
| PAR4 | 40.67 | 1.9 | 1.9 | 2583 | 1701 | .7 | 1.1 | -28 | 28 | -1827.2 | 686.9 | -127.3 | -366.4 | -113.2 |
| PAR5 | 50.34 | 2.5 | 2.5 | 2583 | 1701 | 1.0 | 1.5 | -27 | 27 | -1829.8 | 684.4 | -120.7 | -348.7 | -113.1 |
| PAR6 | 60.01 | 3.2 | 3.2 | 2583 | 1701 | 1.2 | 1.9 | -26 | 26 | -1832.9 | 681.2 | -114.1 | -331.0 | -112.9 |
| PAR7 | 69.68 | 3.8 | 3.8 | 2583 | 1701 | 1.5 | 2.3 | -26 | 26 | -1836.8 | 677.4 | -107.5 | -313.3 | -112.7 |
| PAR8 | 79.35 | 4.5 | 4.5 | 2583 | 1701 | 1.7 | 2.6 | -25 | 25 | -1841.3 | 672.9 | -101.0 | -295.5 | -112.5 |
| CLUB | 89.02 | 5.0 | 5.2 | 2583 | 1700 | 1.9 | 3.1 | -26 | 25 | -1846.3 | 667.7 | -94.5 | -277.7 | -112.3 |
| CLUB | 101.02 | -66.5 | 47.6 | 2945 | 1733 | -22.6 | 27.5 | -15 | -21 | -1779.8 | 620.1 | -86.8 | -255.9 | -110.1 |
| H011 | 115.02 | -81.4 | 45.7 | 3443 | 2029 | -23.6 | 22.5 | -19 | -34 | -1698.4 | 574.4 | -78.4 | -231.6 | -106.4 |
| H012 | 124.69 | -58.0 | 26.4 | 2368 | 1391 | -24.5 | 18.9 | -21 | -46 | -1640.3 | 548.1 | -73.0 | -215.4 | -103.2 |
| H013 | 134.36 | -59.1 | 20.1 | 2323 | 1347 | -25.5 | 15.0 | -20 | -57 | -1581.2 | 527.9 | -67.8 | -199.9 | -99.4 |
| H014 | 144.03 | -58.8 | 17.2 | 2264 | 1287 | -26.0 | 13.3 | -18 | -62 | -1522.3 | 510.7 | -62.8 | -184.9 | -95.5 |
| H015 | 153.70 | -59.0 | 17.3 | 2253 | 1276 | -26.2 | 13.5 | -18 | -63 | -1463.4 | 493.5 | -57.9 | -170.4 | -91.5 |
| H016 | 163.37 | -59.6 | 18.0 | 2253 | 1276 | -26.5 | 14.1 | -18 | -61 | -1403.7 | 475.5 | -53.2 | -156.6 | -87.5 |
| OF17 | 177.37 | -87.5 | 27.2 | 3261 | 1847 | -26.8 | 14.7 | -19 | -60 | -1316.2 | 448.3 | -46.8 | -137.5 | -81.8 |
| OF18 | 189.37 | -76.2 | 24.5 | 2795 | 1583 | -27.2 | 15.5 | -19 | -58 | -1240.1 | 423.8 | -41.5 | -122.2 | -76.9 |
| OF19 | 201.37 | -76.1 | 25.0 | 2795 | 1583 | -27.2 | 15.8 | -19 | -57 | -1164.0 | 398.8 | -36.6 | -107.8 | -72.1 |
| OF20 | 213.37 | -75.9 | 25.5 | 2795 | 1583 | -27.2 | 16.1 | -19 | -56 | -1088.0 | 373.3 | -32.0 | -94.2 | -67.4 |
| OF21 | 225.37 | -75.8 | 25.9 | 2795 | 1583 | -27.1 | 16.4 | -19 | -55 | -1012.3 | 347.4 | -27.6 | -81.6 | -62.8 |
| OF22 | 237.37 | -75.6 | 26.4 | 2795 | 1583 | -27.1 | 16.7 | -19 | -54 | -936.7 | 321.0 | -23.6 | -69.9 | -58.2 |
| OF23 | 249.37 | -75.6 | 26.7 | 2795 | 1583 | -27.1 | 16.9 | -19 | -53 | -861.0 | 294.3 | -19.9 | -59.2 | -53.7 |
| OF24 | 261.37 | -75.9 | 26.8 | 2795 | 1583 | -27.2 | 16.9 | -19 | -52 | -785.1 | 267.5 | -16.6 | -49.3 | -49.2 |
| OF25 | 273.37 | -76.2 | 27.0 | 2795 | 1583 | -27.2 | 17.0 | -18 | -52 | -708.9 | 240.5 | -13.5 | -40.3 | -44.8 |
| | | -76.4 | 27.1 | 2795 | 1583 | -27.3 | 17.1 | -18 | -51 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -632.5 | 213.4 | -10.8 | -32.3 | -40.4 |
| | | -76.5 | 27.1 | 2795 | 1583 | -27.4 | 17.1 | -18 | -50 | | | | | |
| OF27 | 297.37 | | | | | | | | | -556.0 | 186.4 | -8.4 | -25.1 | -36.0 |
| | | -76.2 | 26.7 | 2795 | 1583 | -27.3 | 16.9 | -18 | -50 | | | | | |
| OF28 | 309.37 | | | | | | | | | -479.8 | 159.7 | -6.3 | -18.9 | -31.7 |
| | | -75.9 | 26.4 | 2795 | 1583 | -27.1 | 16.7 | -18 | -50 | | | | | |
| OF29 | 321.37 | | | | | | | | | -404.0 | 133.2 | -4.5 | -13.6 | -27.4 |
| | | -75.6 | 26.1 | 2795 | 1583 | -27.0 | 16.5 | -17 | -51 | | | | | |
| OF30 | 333.37 | | | | | | | | | -328.4 | 107.1 | -3.1 | -9.2 | -23.1 |
| | | -74.4 | 25.3 | 2795 | 1583 | -26.6 | 16.0 | -18 | -52 | | | | | |
| OF31 | 345.37 | | | | | | | | | -254.0 | 81.8 | -2.0 | -5.7 | -18.8 |
| | | -72.2 | 22.7 | 2795 | 1583 | -25.8 | 14.3 | -18 | -56 | | | | | |
| OF32 | 357.37 | | | | | | | | | -181.8 | 59.1 | -1.1 | -3.1 | -14.4 |
| | | -70.7 | 19.5 | 2795 | 1583 | -25.3 | 12.3 | -17 | -61 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -111.1 | 39.6 | -.5 | -1.4 | -9.7 |
| | | -74.6 | 23.6 | 3261 | 1847 | -22.9 | 12.7 | -20 | -64 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -36.5 | 16.1 | -.1 | -.3 | -4.5 |
| | | -36.5 | 16.1 | 2985 | 1355 | -12.2 | 11.9 | -45 | -102 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1284.6 | 925.2 | -205.7 | -317.0 | -63.9 |
| | | 1.9 | 1.9 | 5698 | 3751 | .3 | .5 | -28 | 28 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -1286.6 | 923.2 | -186.0 | -289.6 | -63.7 |
| | | 2.1 | 2.1 | 2583 | 1701 | .8 | 1.3 | -25 | 25 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -1288.7 | 921.1 | -177.1 | -277.1 | -63.6 |
| | | 2.9 | 2.9 | 2583 | 1701 | 1.1 | 1.7 | -24 | 24 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -1291.6 | 918.2 | -168.2 | -264.7 | -63.5 |
| | | 3.7 | 3.7 | 2583 | 1701 | 1.4 | 2.2 | -24 | 24 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -1295.3 | 914.5 | -159.3 | -252.1 | -63.3 |
| | | 4.5 | 4.5 | 2583 | 1701 | 1.7 | 2.6 | -24 | 24 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -1299.8 | 910.0 | -150.5 | -239.6 | -63.1 |
| | | 5.3 | 5.3 | 2583 | 1701 | 2.0 | 3.1 | -24 | 24 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -1305.0 | 904.8 | -141.7 | -227.0 | -62.9 |
| | | 6.0 | 6.0 | 2583 | 1701 | 2.3 | 3.6 | -24 | 24 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -1311.1 | 898.7 | -133.0 | -214.4 | -62.6 |
| | | 6.7 | 6.9 | 2583 | 1700 | 2.6 | 4.1 | -24 | 23 | | | | | |
| CLUB | 89.02 | | | | | | | | | -1317.8 | 891.8 | -124.4 | -201.6 | -62.3 |
| | | -49.5 | 53.4 | 2945 | 1733 | -16.8 | 30.8 | -12 | -11 | | | | | |
| CLUB | 101.02 | | | | | | | | | -1268.3 | 838.4 | -114.0 | -186.1 | -61.1 |
| | | -59.4 | 55.6 | 3443 | 2029 | -17.3 | 27.4 | -19 | -20 | | | | | |
| HO11 | 115.02 | | | | | | | | | -1208.9 | 782.9 | -102.6 | -168.8 | -58.8 |
| | | -42.5 | 33.7 | 2368 | 1391 | -18.0 | 24.3 | -22 | -27 | | | | | |
| HO12 | 124.69 | | | | | | | | | -1166.4 | 749.1 | -95.2 | -157.3 | -57.0 |
| | | -42.7 | 28.8 | 2323 | 1347 | -18.4 | 21.4 | -24 | -35 | | | | | |
| HO13 | 134.36 | | | | | | | | | -1123.6 | 720.3 | -88.1 | -146.2 | -54.8 |
| | | -45.2 | 26.3 | 2264 | 1287 | -20.0 | 20.4 | -21 | -36 | | | | | |
| HO14 | 144.03 | | | | | | | | | -1078.4 | 694.0 | -81.3 | -135.6 | -52.6 |
| | | -45.8 | 26.6 | 2253 | 1276 | -20.3 | 20.8 | -21 | -36 | | | | | |
| HO15 | 153.70 | | | | | | | | | -1032.5 | 667.5 | -74.7 | -125.4 | -50.4 |
| | | -44.6 | 27.3 | 2253 | 1276 | -19.8 | 21.4 | -22 | -36 | | | | | |
| HO16 | 163.37 | | | | | | | | | -987.9 | 640.1 | -68.4 | -115.6 | -48.2 |
| | | -62.4 | 40.9 | 3261 | 1847 | -19.1 | 22.2 | -24 | -37 | | | | | |
| OF17 | 177.37 | | | | | | | | | -925.6 | 599.2 | -59.7 | -102.2 | -44.9 |
| | | -51.4 | 36.4 | 2795 | 1583 | -18.4 | 23.0 | -26 | -37 | | | | | |
| OF18 | 189.37 | | | | | | | | | -874.2 | 562.8 | -52.7 | -91.4 | -42.1 |
| | | -50.9 | 36.7 | 2795 | 1583 | -18.2 | 23.2 | -26 | -37 | | | | | |
| OF19 | 201.37 | | | | | | | | | -823.3 | 526.1 | -46.2 | -81.2 | -39.3 |
| | | -50.5 | 37.0 | 2795 | 1583 | -18.1 | 23.3 | -26 | -36 | | | | | |
| OF20 | 213.37 | | | | | | | | | -772.8 | 489.2 | -40.1 | -71.7 | -36.5 |
| | | -50.1 | 37.2 | 2795 | 1583 | -17.9 | 23.5 | -26 | -36 | | | | | |
| OF21 | 225.37 | | | | | | | | | -722.7 | 452.0 | -34.5 | -62.7 | -33.7 |
| | | -49.8 | 37.5 | 2795 | 1583 | -17.8 | 23.7 | -26 | -35 | | | | | |
| OF22 | 237.37 | | | | | | | | | -673.0 | 414.5 | -29.3 | -54.3 | -31.0 |
| | | -49.6 | 37.5 | 2795 | 1583 | -17.7 | 23.7 | -26 | -34 | | | | | |
| OF23 | 249.37 | | | | | | | | | -623.4 | 376.9 | -24.5 | -46.5 | -28.3 |
| | | -49.7 | 37.2 | 2795 | 1583 | -17.8 | 23.5 | -25 | -34 | | | | | |
| OF24 | 261.37 | | | | | | | | | -573.7 | 339.7 | -20.2 | -39.3 | -25.7 |
| | | -49.7 | 36.9 | 2795 | 1583 | -17.8 | 23.3 | -24 | -33 | | | | | |
| OF25 | 273.37 | | | | | | | | | -524.0 | 302.9 | -16.4 | -32.8 | -23.1 |
| | | -49.8 | 36.6 | 2795 | 1583 | -17.8 | 23.1 | -23 | -32 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -474.2 | 266.3 | -12.9 | -26.8 | -20.7 |
| | | -50.0 | 36.0 | 2795 | 1583 | -17.9 | 22.7 | -23 | -31 | | | | | |
| OF27 | 297.37 | | | | | | | | | -424.1 | 230.3 | -10.0 | -21.4 | -18.3 |
| | | -50.4 | 35.0 | 2795 | 1583 | -18.0 | 22.1 | -22 | -31 | | | | | |
| OF28 | 309.37 | | | | | | | | | -373.7 | 195.3 | -7.4 | -16.6 | -15.9 |
| | | -50.8 | 34.0 | 2795 | 1583 | -18.2 | 21.5 | -21 | -31 | | | | | |
| OF29 | 321.37 | | | | | | | | | -322.9 | 161.3 | -5.3 | -12.4 | -13.6 |
| | | -51.2 | 33.1 | 2795 | 1583 | -18.3 | 20.9 | -20 | -31 | | | | | |
| OF30 | 333.37 | | | | | | | | | -271.7 | 128.2 | -3.5 | -8.8 | -11.4 |
| | | -51.2 | 31.6 | 2795 | 1583 | -18.3 | 19.9 | -20 | -32 | | | | | |
| OF31 | 345.37 | | | | | | | | | -220.5 | 96.6 | -2.2 | -5.9 | -9.1 |
| | | -51.2 | 28.5 | 2795 | 1583 | -18.3 | 18.0 | -19 | -33 | | | | | |
| OF32 | 357.37 | | | | | | | | | -169.3 | 68.1 | -1.2 | -3.6 | -6.9 |
| | | -51.6 | 25.0 | 2795 | 1583 | -18.5 | 15.8 | -17 | -35 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -117.6 | 43.1 | -.5 | -1.8 | -4.6 |
| | | -54.6 | 29.3 | 3261 | 1847 | -16.7 | 15.9 | -19 | -36 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -63.0 | 13.8 | -.1 | -.6 | -2.1 |
| | | -63.0 | 13.8 | 2985 | 1355 | -21.1 | 10.1 | -7 | -32 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 120 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -494.8 | 1143.5 | -261.9 | -124.5 | 10.7 |
| PAR2 | 21.33 | 2.3 | 2.3 | 5698 | 3751 | .4 | .6 | -24 | 24 | -497.1 | 1141.2 | -237.6 | -113.9 | 10.8 |
| PAR3 | 31.00 | 2.0 | 2.0 | 2583 | 1701 | .8 | 1.2 | -23 | 23 | -499.1 | 1139.3 | -226.5 | -109.1 | 10.9 |
| PAR4 | 40.67 | 2.5 | 2.5 | 2583 | 1701 | 1.0 | 1.5 | -23 | 23 | -501.6 | 1136.8 | -215.5 | -104.2 | 11.0 |
| PAR5 | 50.34 | 3.1 | 3.1 | 2583 | 1701 | 1.2 | 1.8 | -23 | 23 | -504.7 | 1133.7 | -204.5 | -99.4 | 11.1 |
| PAR6 | 60.01 | 3.7 | 3.7 | 2583 | 1701 | 1.4 | 2.2 | -23 | 23 | -508.4 | 1130.0 | -193.6 | -94.5 | 11.3 |
| PAR7 | 69.68 | 4.2 | 4.2 | 2583 | 1701 | 1.6 | 2.5 | -23 | 23 | -512.6 | 1125.8 | -182.7 | -89.5 | 11.5 |
| PAR8 | 79.35 | 4.8 | 4.8 | 2583 | 1701 | 1.9 | 2.8 | -23 | 23 | -517.4 | 1121.0 | -171.8 | -84.5 | 11.7 |
| CLUB | 89.02 | 5.3 | 5.5 | 2583 | 1700 | 2.1 | 3.2 | -23 | 22 | -522.7 | 1115.5 | -161.0 | -79.5 | 12.0 |
| CLUB | 101.02 | -24.1 | 55.1 | 2945 | 1733 | -8.2 | 31.8 | 7 | 3 | -498.6 | 1060.4 | -148.0 | -73.4 | 11.5 |
| HO11 | 115.02 | -27.7 | 60.6 | 3443 | 2029 | -8.0 | 29.9 | 5 | 2 | -470.9 | 999.8 | -133.5 | -66.6 | 11.1 |
| HO12 | 124.69 | -19.0 | 39.3 | 2368 | 1391 | -8.0 | 28.2 | 2 | 1 | -451.9 | 960.5 | -124.1 | -62.1 | 11.0 |
| HO13 | 134.36 | -18.2 | 35.7 | 2323 | 1347 | -7.8 | 26.5 | -1 | -0 | -433.7 | 924.8 | -115.0 | -57.9 | 11.1 |
| HO14 | 144.03 | -19.9 | 33.5 | 2264 | 1287 | -8.8 | 26.0 | 1 | 0 | -413.8 | 891.3 | -106.2 | -53.8 | 11.0 |
| HO15 | 153.70 | -20.1 | 33.6 | 2253 | 1276 | -8.9 | 26.4 | 1 | 1 | -393.7 | 857.6 | -97.7 | -49.9 | 11.0 |
| HO16 | 163.37 | -19.0 | 34.3 | 2253 | 1276 | -8.4 | 26.9 | 2 | 1 | -374.7 | 823.4 | -89.6 | -46.1 | 10.9 |
| OF17 | 177.37 | -25.6 | 50.8 | 3261 | 1847 | -7.8 | 27.5 | 4 | 2 | -349.2 | 772.6 | -78.4 | -41.1 | 10.6 |
| OF18 | 189.37 | -20.1 | 44.6 | 2795 | 1583 | -7.2 | 28.2 | 5 | 2 | -329.1 | 728.0 | -69.4 | -37.0 | 10.4 |
| OF19 | 201.37 | -19.4 | 45.2 | 2795 | 1583 | -6.9 | 28.6 | 6 | 3 | -309.7 | 682.7 | -60.9 | -33.2 | 10.0 |
| OF20 | 213.37 | -18.8 | 45.8 | 2795 | 1583 | -6.7 | 28.9 | 7 | 3 | -290.9 | 637.0 | -53.0 | -29.6 | 9.7 |
| OF21 | 225.37 | -18.1 | 46.4 | 2795 | 1583 | -6.5 | 29.3 | 8 | 3 | -272.8 | 590.6 | -45.7 | -26.2 | 9.3 |
| OF22 | 237.37 | -17.5 | 46.9 | 2795 | 1583 | -6.3 | 29.6 | 9 | 3 | -255.2 | 543.7 | -38.9 | -23.0 | 8.8 |
| OF23 | 249.37 | -16.9 | 47.2 | 2795 | 1583 | -6.1 | 29.8 | 10 | 4 | -238.3 | 496.5 | -32.6 | -20.1 | 8.3 |
| OF24 | 261.37 | -16.4 | 46.9 | 2795 | 1583 | -5.9 | 29.7 | 11 | 4 | -221.9 | 449.6 | -26.9 | -17.3 | 7.7 |
| OF25 | 273.37 | -15.9 | 46.7 | 2795 | 1583 | -5.7 | 29.5 | 13 | 4 | -206.0 | 402.8 | -21.8 | -14.7 | 7.0 |
| | | -15.4 | 46.5 | 2795 | 1583 | -5.5 | 29.4 | 15 | 5 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 120 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -190.6 | 356.3 | -17.3 | -12.3 | 6.2 |
| | | -15.2 | 46.2 | 2795 | 1583 | -5.4 | 29.2 | 16 | 5 | | | | | |
| OF27 | 297.37 | | | | | | | | | -175.4 | 310.1 | -13.3 | -10.2 | 5.4 |
| | | -15.7 | 45.8 | 2795 | 1583 | -5.6 | 28.9 | 16 | 6 | | | | | |
| OF28 | 309.37 | | | | | | | | | -159.7 | 264.3 | -9.8 | -8.1 | 4.6 |
| | | -16.2 | 45.4 | 2795 | 1583 | -5.8 | 28.7 | 16 | 6 | | | | | |
| OF29 | 321.37 | | | | | | | | | -143.5 | 218.8 | -6.9 | -6.3 | 3.7 |
| | | -16.6 | 45.0 | 2795 | 1583 | -6.0 | 28.4 | 16 | 6 | | | | | |
| OF30 | 333.37 | | | | | | | | | -126.9 | 173.8 | -4.6 | -4.7 | 2.9 |
| | | -17.6 | 43.7 | 2795 | 1583 | -6.3 | 27.6 | 16 | 6 | | | | | |
| OF31 | 345.37 | | | | | | | | | -109.3 | 130.2 | -2.7 | -3.3 | 2.1 |
| | | -19.9 | 40.2 | 2795 | 1583 | -7.1 | 25.4 | 15 | 7 | | | | | |
| OF32 | 357.37 | | | | | | | | | -89.4 | 90.0 | -1.4 | -2.1 | 1.4 |
| | | -21.8 | 37.0 | 2795 | 1583 | -7.8 | 23.4 | 16 | 9 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -67.6 | 53.0 | -.6 | -1.1 | .6 |
| | | -23.4 | 40.6 | 3261 | 1847 | -7.8 | 22.0 | 6 | 4 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -42.2 | 12.4 | -.1 | -.4 | .2 |
| | | -42.2 | 12.4 | 2985 | 1355 | -14.2 | 9.2 | 1 | 5 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 358.7 | 1129.7 | -264.0 | 77.4 | 70.6 |
| | | 3.8 | 3.8 | 5698 | 3751 | .7 | 1.0 | -22 | 22 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 354.9 | 1125.9 | -239.9 | 69.8 | 70.8 |
| | | 1.8 | 1.8 | 2583 | 1701 | .7 | 1.1 | -20 | 20 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 353.1 | 1124.1 | -229.0 | 66.4 | 70.8 |
| | | 1.9 | 1.9 | 2583 | 1701 | .7 | 1.1 | -19 | 19 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 351.1 | 1122.1 | -218.2 | 63.0 | 70.9 |
| | | 2.0 | 2.0 | 2583 | 1701 | .8 | 1.2 | -18 | 18 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 349.1 | 1120.1 | -207.3 | 59.6 | 71.0 |
| | | 2.1 | 2.1 | 2583 | 1701 | .8 | 1.2 | -18 | 18 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 347.0 | 1118.0 | -196.5 | 56.3 | 71.1 |
| | | 2.2 | 2.2 | 2583 | 1701 | .8 | 1.3 | -17 | 17 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 344.9 | 1115.9 | -185.7 | 52.9 | 71.1 |
| | | 2.3 | 2.3 | 2583 | 1701 | .9 | 1.3 | -16 | 16 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 342.6 | 1113.6 | -174.9 | 49.6 | 71.2 |
| | | 2.4 | 2.4 | 2583 | 1700 | .9 | 1.4 | -15 | 14 | | | | | |
| CLUB | 89.02 | | | | | | | | | 340.2 | 1111.2 | -164.2 | 46.3 | 71.3 |
| | | 12.3 | 49.4 | 2945 | 1733 | 4.2 | 28.5 | 42 | -10 | | | | | |
| CLUB | 101.02 | | | | | | | | | 327.9 | 1061.7 | -151.1 | 42.3 | 69.1 |
| | | 13.8 | 55.4 | 3443 | 2029 | 4.0 | 27.3 | 43 | -11 | | | | | |
| H011 | 115.02 | | | | | | | | | 314.1 | 1006.3 | -136.7 | 37.8 | 66.5 |
| | | 9.4 | 37.6 | 2368 | 1391 | 4.0 | 27.0 | 43 | -11 | | | | | |
| H012 | 124.69 | | | | | | | | | 304.7 | 968.8 | -127.1 | 34.8 | 64.8 |
| | | 9.4 | 35.3 | 2323 | 1347 | 4.0 | 26.2 | 46 | -12 | | | | | |
| H013 | 134.36 | | | | | | | | | 295.3 | 933.4 | -117.9 | 31.9 | 63.1 |
| | | 11.9 | 33.2 | 2264 | 1287 | 5.3 | 25.8 | 39 | -14 | | | | | |
| H014 | 144.03 | | | | | | | | | 283.4 | 900.2 | -109.0 | 29.1 | 61.6 |
| | | 13.4 | 33.3 | 2253 | 1276 | 5.9 | 26.1 | 36 | -14 | | | | | |
| H015 | 153.70 | | | | | | | | | 270.0 | 867.0 | -100.5 | 26.4 | 60.2 |
| | | 13.0 | 33.7 | 2253 | 1276 | 5.8 | 26.4 | 41 | -16 | | | | | |
| H016 | 163.37 | | | | | | | | | 257.0 | 833.3 | -92.3 | 23.9 | 58.6 |
| | | 18.2 | 49.6 | 3261 | 1847 | 5.6 | 26.8 | 47 | -17 | | | | | |
| OF17 | 177.37 | | | | | | | | | 238.8 | 783.7 | -81.0 | 20.4 | 56.0 |
| | | 15.0 | 43.2 | 2795 | 1583 | 5.4 | 27.3 | 54 | -19 | | | | | |
| OF18 | 189.37 | | | | | | | | | 223.8 | 740.5 | -71.8 | 17.6 | 53.4 |
| | | 15.3 | 43.9 | 2795 | 1583 | 5.5 | 27.8 | 56 | -20 | | | | | |
| OF19 | 201.37 | | | | | | | | | 208.5 | 696.5 | -63.2 | 15.0 | 50.6 |
| | | 15.8 | 44.7 | 2795 | 1583 | 5.7 | 28.2 | 58 | -20 | | | | | |
| OF20 | 213.37 | | | | | | | | | 192.7 | 651.9 | -55.1 | 12.6 | 47.7 |
| | | 16.2 | 45.4 | 2795 | 1583 | 5.8 | 28.7 | 59 | -21 | | | | | |
| OF21 | 225.37 | | | | | | | | | 176.5 | 606.5 | -47.6 | 10.4 | 44.7 |
| | | 16.7 | 46.1 | 2795 | 1583 | 6.0 | 29.1 | 61 | -22 | | | | | |
| OF22 | 237.37 | | | | | | | | | 159.8 | 560.4 | -40.6 | 8.4 | 41.5 |
| | | 17.1 | 46.6 | 2795 | 1583 | 6.1 | 29.5 | 62 | -23 | | | | | |
| OF23 | 249.37 | | | | | | | | | 142.7 | 513.7 | -34.1 | 6.6 | 38.2 |
| | | 17.5 | 46.9 | 2795 | 1583 | 6.3 | 29.6 | 62 | -23 | | | | | |
| OF24 | 261.37 | | | | | | | | | 125.1 | 466.8 | -28.2 | 5.0 | 34.9 |
| | | 17.9 | 47.2 | 2795 | 1583 | 6.4 | 29.8 | 63 | -24 | | | | | |
| OF25 | 273.37 | | | | | | | | | 107.2 | 419.5 | -22.9 | 3.6 | 31.5 |
| | | 18.3 | 47.5 | 2795 | 1583 | 6.6 | 30.0 | 63 | -24 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 88.9 | 372.0 | -18.2 | 2.4 | 28.0 |
| | | 18.3 | 47.6 | 2795 | 1583 | 6.6 | 30.0 | 64 | -25 | | | | | |
| OF27 | 297.37 | | | | | | | | | 70.5 | 324.5 | -14.0 | 1.4 | 24.5 |
| | | 17.7 | 47.1 | 2795 | 1583 | 6.3 | 29.8 | 65 | -24 | | | | | |
| OF28 | 309.37 | | | | | | | | | 52.9 | 277.3 | -10.4 | .7 | 21.1 |
| | | 17.0 | 46.7 | 2795 | 1583 | 6.1 | 29.5 | 66 | -24 | | | | | |
| OF29 | 321.37 | | | | | | | | | 35.9 | 230.6 | -7.3 | .2 | 17.6 |
| | | 16.3 | 46.3 | 2795 | 1583 | 5.8 | 29.2 | 67 | -23 | | | | | |
| OF30 | 333.37 | | | | | | | | | 19.6 | 184.3 | -4.8 | -.2 | 14.1 |
| | | 14.1 | 45.2 | 2795 | 1583 | 5.1 | 28.6 | 68 | -21 | | | | | |
| OF31 | 345.37 | | | | | | | | | 5.5 | 139.1 | -2.9 | -.3 | 10.7 |
| | | 8.9 | 42.8 | 2795 | 1583 | 3.2 | 27.0 | 73 | -15 | | | | | |
| OF32 | 357.37 | | | | | | | | | -3.5 | 96.3 | -1.5 | -.3 | 7.5 |
| | | 4.3 | 40.9 | 2795 | 1583 | 1.6 | 25.9 | 79 | -8 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -7.8 | 55.4 | -.6 | -.3 | 4.2 |
| | | 5.1 | 44.2 | 3261 | 1847 | 1.6 | 23.9 | 65 | -8 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -12.9 | 11.2 | -.1 | -.1 | 1.3 |
| | | -12.9 | 11.2 | 2985 | 1355 | -4.3 | 8.3 | 50 | 58 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 140 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 965.0 | 1271.6 | -300.7 | 215.7 | 66.4 |
| PAR2 | 21.33 | 7.3 | 7.3 | 5698 | 3751 | 1.3 | 1.9 | -21 | 21 | 957.7 | 1264.3 | -273.7 | 195.2 | 66.7 |
| PAR3 | 31.00 | 2.8 | 2.8 | 2583 | 1701 | 1.1 | 1.7 | -19 | 19 | 954.9 | 1261.5 | -261.4 | 185.9 | 66.8 |
| PAR4 | 40.67 | 2.5 | 2.5 | 2583 | 1701 | 1.0 | 1.5 | -17 | 17 | 952.3 | 1259.0 | -249.3 | 176.7 | 66.9 |
| PAR5 | 50.34 | 2.2 | 2.2 | 2583 | 1701 | .9 | 1.3 | -15 | 15 | 950.1 | 1256.7 | -237.1 | 167.5 | 67.0 |
| PAR6 | 60.01 | 1.9 | 1.9 | 2583 | 1701 | .7 | 1.1 | -12 | 12 | 948.2 | 1254.8 | -225.0 | 158.3 | 67.0 |
| PAR7 | 69.68 | 1.6 | 1.6 | 2583 | 1701 | .6 | 1.0 | -8 | 8 | 946.5 | 1253.1 | -212.8 | 149.2 | 67.0 |
| PAR8 | 79.35 | 1.3 | 1.3 | 2583 | 1701 | .5 | .8 | -2 | 2 | 945.2 | 1251.8 | -200.7 | 140.0 | 67.0 |
| CLUB | 89.02 | 1.1 | 1.1 | 2583 | 1700 | .4 | .7 | 9 | -9 | 944.1 | 1250.7 | -188.6 | 130.9 | 67.0 |
| CLUB | 101.02 | 46.3 | 51.0 | 2945 | 1733 | 15.7 | 29.5 | 28 | -25 | 897.7 | 1199.6 | -173.9 | 119.9 | 64.4 |
| HO11 | 115.02 | 53.0 | 57.7 | 3443 | 2029 | 15.4 | 28.5 | 26 | -24 | 844.7 | 1141.9 | -157.5 | 107.7 | 61.7 |
| HO12 | 124.69 | 35.5 | 40.3 | 2368 | 1391 | 15.0 | 29.0 | 24 | -21 | 809.2 | 1101.6 | -146.7 | 99.7 | 60.0 |
| HO13 | 134.36 | 31.8 | 38.0 | 2323 | 1347 | 13.7 | 28.2 | 28 | -24 | 777.5 | 1063.6 | -136.2 | 92.0 | 58.2 |
| HO14 | 144.03 | 37.0 | 36.1 | 2264 | 1287 | 16.3 | 28.1 | 16 | -17 | 740.5 | 1027.5 | -126.1 | 84.6 | 57.0 |
| HO15 | 153.70 | 39.6 | 36.3 | 2253 | 1276 | 17.6 | 28.4 | 12 | -13 | 700.9 | 991.2 | -116.3 | 77.7 | 56.0 |
| HO16 | 163.37 | 37.3 | 36.8 | 2253 | 1276 | 16.6 | 28.9 | 17 | -17 | 663.6 | 954.4 | -106.9 | 71.1 | 54.8 |
| OF17 | 177.37 | 50.0 | 54.3 | 3261 | 1847 | 15.3 | 29.4 | 24 | -22 | 613.6 | 900.1 | -93.9 | 62.1 | 52.4 |
| OF18 | 189.37 | 39.1 | 47.5 | 2795 | 1583 | 14.0 | 30.0 | 32 | -26 | 574.6 | 852.6 | -83.4 | 55.0 | 49.8 |
| OF19 | 201.37 | 38.2 | 48.7 | 2795 | 1583 | 13.7 | 30.7 | 34 | -26 | 536.4 | 803.9 | -73.5 | 48.3 | 47.2 |
| OF20 | 213.37 | 37.6 | 49.8 | 2795 | 1583 | 13.4 | 31.5 | 35 | -26 | 498.8 | 754.1 | -64.1 | 42.1 | 44.5 |
| OF21 | 225.37 | 36.9 | 51.0 | 2795 | 1583 | 13.2 | 32.2 | 36 | -26 | 461.9 | 703.0 | -55.4 | 36.4 | 41.7 |
| OF22 | 237.37 | 36.2 | 52.2 | 2795 | 1583 | 13.0 | 33.0 | 36 | -25 | 425.7 | 650.8 | -47.3 | 31.0 | 38.9 |
| OF23 | 249.37 | 35.6 | 53.2 | 2795 | 1583 | 12.8 | 33.6 | 38 | -25 | 390.0 | 597.6 | -39.8 | 26.2 | 36.0 |
| OF24 | 261.37 | 35.1 | 53.9 | 2795 | 1583 | 12.6 | 34.1 | 39 | -25 | 354.9 | 543.7 | -32.9 | 21.7 | 33.0 |
| OF25 | 273.37 | 34.6 | 54.7 | 2795 | 1583 | 12.4 | 34.5 | 40 | -26 | 320.3 | 489.0 | -26.7 | 17.6 | 29.9 |
| | | 34.1 | 55.4 | 2795 | 1583 | 12.2 | 35.0 | 42 | -26 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 140 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 286.1 | 433.6 | -21.2 | 14.0 | 26.7 |
| | | 34.1 | 55.6 | 2795 | 1583 | 12.2 | 35.1 | 43 | -26 | | | | | |
| OF27 | 297.37 | | | | | | | | | 252.1 | 378.0 | -16.3 | 10.8 | 23.4 |
| | | 34.8 | 55.0 | 2795 | 1583 | 12.5 | 34.7 | 43 | -27 | | | | | |
| OF28 | 309.37 | | | | | | | | | 217.3 | 323.0 | -12.1 | 7.9 | 20.1 |
| | | 35.5 | 54.4 | 2795 | 1583 | 12.7 | 34.4 | 43 | -28 | | | | | |
| OF29 | 321.37 | | | | | | | | | 181.7 | 268.6 | -8.6 | 5.6 | 16.8 |
| | | 36.3 | 53.8 | 2795 | 1583 | 13.0 | 34.0 | 43 | -29 | | | | | |
| OF30 | 333.37 | | | | | | | | | 145.5 | 214.8 | -5.7 | 3.6 | 13.4 |
| | | 36.5 | 52.4 | 2795 | 1583 | 13.0 | 33.1 | 42 | -30 | | | | | |
| OF31 | 345.37 | | | | | | | | | 109.0 | 162.4 | -3.4 | 2.1 | 10.1 |
| | | 35.5 | 49.3 | 2795 | 1583 | 12.7 | 31.1 | 40 | -29 | | | | | |
| OF32 | 357.37 | | | | | | | | | 73.5 | 113.0 | -1.8 | 1.0 | 7.1 |
| | | 35.6 | 47.3 | 2795 | 1583 | 12.7 | 29.9 | 40 | -30 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 37.9 | 65.8 | -.7 | .3 | 4.1 |
| | | 35.7 | 51.2 | 3261 | 1847 | 10.9 | 27.7 | 41 | -28 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 2.2 | 14.6 | -.1 | .0 | 1.0 |
| | | 2.2 | 14.6 | 2985 | 1355 | .7 | 10.7 | 69 | -11 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1530.9 | 1606.5 | -370.5 | 341.5 | 49.5 |
| | | 21.2 | 21.2 | 5698 | 3751 | 3.7 | 5.7 | -27 | 27 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 1509.7 | 1585.3 | -336.4 | 309.1 | 50.6 |
| | | 9.6 | 9.6 | 2583 | 1701 | 3.7 | 5.7 | -27 | 27 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 1500.0 | 1575.7 | -321.2 | 294.5 | 51.1 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.7 | 5.7 | -27 | 27 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 1490.4 | 1566.0 | -306.0 | 280.1 | 51.6 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.7 | 5.7 | -28 | 28 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 1480.7 | 1556.3 | -290.9 | 265.7 | 52.2 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.7 | 5.7 | -28 | 28 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 1471.0 | 1546.6 | -275.9 | 251.4 | 52.7 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.8 | 5.7 | -28 | 28 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 1461.3 | 1536.9 | -261.0 | 237.2 | 53.3 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.8 | 5.7 | -29 | 29 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 1451.6 | 1527.2 | -246.1 | 223.2 | 53.8 |
| | | 9.8 | 9.8 | 2583 | 1700 | 3.8 | 5.8 | -28 | 28 | | | | | |
| CLUB | 89.02 | | | | | | | | | 1441.8 | 1517.4 | -231.4 | 209.2 | 54.4 |
| | | 61.8 | 57.8 | 2945 | 1733 | 21.0 | 33.4 | 14 | -15 | | | | | |
| CLUB | 101.02 | | | | | | | | | 1380.0 | 1459.6 | -213.6 | 192.2 | 52.6 |
| | | 76.2 | 68.1 | 3443 | 2029 | 22.1 | 33.6 | 12 | -14 | | | | | |
| HO11 | 115.02 | | | | | | | | | 1303.8 | 1391.5 | -193.6 | 173.4 | 50.7 |
| | | 49.0 | 48.5 | 2368 | 1391 | 20.7 | 34.9 | 14 | -15 | | | | | |
| HO12 | 124.69 | | | | | | | | | 1254.9 | 1343.0 | -180.4 | 161.1 | 49.3 |
| | | 42.8 | 46.7 | 2323 | 1347 | 18.4 | 34.7 | 20 | -19 | | | | | |
| HO13 | 134.36 | | | | | | | | | 1212.1 | 1296.3 | -167.6 | 149.2 | 47.6 |
| | | 48.9 | 44.1 | 2264 | 1287 | 21.6 | 34.3 | 14 | -16 | | | | | |
| HO14 | 144.03 | | | | | | | | | 1163.2 | 1252.2 | -155.3 | 137.7 | 46.2 |
| | | 52.7 | 44.3 | 2253 | 1276 | 23.4 | 34.7 | 12 | -14 | | | | | |
| HO15 | 153.70 | | | | | | | | | 1110.5 | 1207.9 | -143.4 | 126.7 | 44.9 |
| | | 51.4 | 45.0 | 2253 | 1276 | 22.8 | 35.2 | 14 | -16 | | | | | |
| HO16 | 163.37 | | | | | | | | | 1059.1 | 1163.0 | -131.9 | 116.2 | 43.5 |
| | | 72.2 | 66.3 | 3261 | 1847 | 22.1 | 35.9 | 16 | -18 | | | | | |
| OF17 | 177.37 | | | | | | | | | 986.9 | 1096.7 | -116.1 | 101.9 | 41.2 |
| | | 59.8 | 58.0 | 2795 | 1583 | 21.4 | 36.6 | 19 | -20 | | | | | |
| OF18 | 189.37 | | | | | | | | | 927.1 | 1038.7 | -103.3 | 90.4 | 38.9 |
| | | 59.2 | 59.2 | 2795 | 1583 | 21.2 | 37.4 | 20 | -20 | | | | | |
| OF19 | 201.37 | | | | | | | | | 867.9 | 979.6 | -91.2 | 79.6 | 36.5 |
| | | 58.7 | 60.4 | 2795 | 1583 | 21.0 | 38.1 | 20 | -20 | | | | | |
| OF20 | 213.37 | | | | | | | | | 809.2 | 919.2 | -79.8 | 69.5 | 34.1 |
| | | 58.2 | 61.6 | 2795 | 1583 | 20.8 | 38.9 | 21 | -20 | | | | | |
| OF21 | 225.37 | | | | | | | | | 751.1 | 857.7 | -69.1 | 60.2 | 31.7 |
| | | 57.7 | 62.8 | 2795 | 1583 | 20.6 | 39.7 | 21 | -19 | | | | | |
| OF22 | 237.37 | | | | | | | | | 693.4 | 794.9 | -59.2 | 51.5 | 29.3 |
| | | 57.2 | 63.6 | 2795 | 1583 | 20.5 | 40.2 | 22 | -19 | | | | | |
| OF23 | 249.37 | | | | | | | | | 636.2 | 731.2 | -50.1 | 43.5 | 26.8 |
| | | 56.7 | 64.0 | 2795 | 1583 | 20.3 | 40.4 | 22 | -19 | | | | | |
| OF24 | 261.37 | | | | | | | | | 579.5 | 667.2 | -41.7 | 36.2 | 24.3 |
| | | 56.2 | 64.4 | 2795 | 1583 | 20.1 | 40.7 | 22 | -19 | | | | | |
| OF25 | 273.37 | | | | | | | | | 523.3 | 602.8 | -34.1 | 29.6 | 21.8 |
| | | 55.7 | 64.8 | 2795 | 1583 | 19.9 | 40.9 | 22 | -19 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER
WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 467.7 | 537.9 | -27.2 | 23.7 | 19.3 |
| | | 55.3 | 65.1 | 2795 | 1583 | 19.8 | 41.1 | 22 | -19 | | | | | |
| OF27 | 297.37 | | | | | | | | | 412.3 | 472.9 | -21.2 | 18.4 | 16.9 |
| | | 55.2 | 65.1 | 2795 | 1583 | 19.8 | 41.1 | 22 | -19 | | | | | |
| OF28 | 309.37 | | | | | | | | | 357.1 | 407.8 | -15.9 | 13.8 | 14.4 |
| | | 55.1 | 65.1 | 2795 | 1583 | 19.7 | 41.1 | 22 | -19 | | | | | |
| OF29 | 321.37 | | | | | | | | | 301.9 | 342.7 | -11.4 | 9.8 | 11.9 |
| | | 55.0 | 65.1 | 2795 | 1583 | 19.7 | 41.1 | 22 | -19 | | | | | |
| OF30 | 333.37 | | | | | | | | | 246.9 | 277.6 | -7.6 | 6.5 | 9.4 |
| | | 55.7 | 64.2 | 2795 | 1583 | 19.9 | 40.6 | 21 | -18 | | | | | |
| OF31 | 345.37 | | | | | | | | | 191.2 | 213.4 | -4.7 | 3.9 | 7.1 |
| | | 57.6 | 61.5 | 2795 | 1583 | 20.6 | 38.9 | 19 | -18 | | | | | |
| OF32 | 357.37 | | | | | | | | | 133.6 | 151.8 | -2.5 | 2.0 | 4.9 |
| | | 60.7 | 60.1 | 2795 | 1583 | 21.7 | 37.9 | 18 | -18 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 72.8 | 91.8 | -1.0 | .7 | 2.7 |
| | | 59.5 | 66.6 | 3261 | 1847 | 18.2 | 36.0 | 18 | -16 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 13.4 | 25.2 | -.2 | .1 | .5 |
| | | 13.4 | 25.2 | 2985 | 1355 | 4.5 | 18.6 | 16 | -9 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER

WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 2107.9 | 1873.6 | -426.2 | 469.3 | 47.5 |
| PAR2 | 21.33 | 30.9 | 30.9 | 5698 | 3751 | 5.4 | 8.2 | -26 | 26 | 2077.0 | 1842.7 | -386.6 | 424.7 | 49.1 |
| PAR3 | 31.00 | 14.2 | 14.2 | 2583 | 1701 | 5.5 | 8.3 | -26 | 26 | 2062.8 | 1828.5 | -368.8 | 404.6 | 49.9 |
| PAR4 | 40.67 | 14.3 | 14.3 | 2583 | 1701 | 5.5 | 8.4 | -26 | 26 | 2048.5 | 1814.2 | -351.2 | 384.8 | 50.6 |
| PAR5 | 50.34 | 14.5 | 14.5 | 2583 | 1701 | 5.6 | 8.5 | -26 | 26 | 2034.1 | 1799.8 | -333.7 | 365.0 | 51.4 |
| PAR6 | 60.01 | 14.6 | 14.6 | 2583 | 1701 | 5.6 | 8.6 | -27 | 27 | 2019.5 | 1785.2 | -316.4 | 345.4 | 52.2 |
| PAR7 | 69.68 | 14.7 | 14.7 | 2583 | 1701 | 5.7 | 8.6 | -27 | 27 | 2004.8 | 1770.5 | -299.2 | 326.0 | 52.9 |
| PAR8 | 79.35 | 14.8 | 14.8 | 2583 | 1701 | 5.7 | 8.7 | -27 | 27 | 1989.9 | 1755.6 | -282.2 | 306.6 | 53.7 |
| CLUB | 89.02 | 15.0 | 15.0 | 2583 | 1700 | 5.8 | 8.8 | -27 | 27 | 1974.9 | 1740.6 | -265.3 | 287.5 | 54.5 |
| CLUB | 101.02 | 81.4 | 65.0 | 2945 | 1733 | 27.7 | 37.5 | 5 | -7 | 1893.5 | 1675.6 | -244.8 | 264.3 | 53.6 |
| HO11 | 115.02 | 103.3 | 79.0 | 3443 | 2029 | 30.0 | 38.9 | 5 | -7 | 1790.1 | 1596.6 | -221.9 | 238.5 | 52.6 |
| HO12 | 124.69 | 67.2 | 56.0 | 2368 | 1391 | 28.4 | 40.3 | 9 | -11 | 1722.9 | 1540.6 | -206.7 | 221.5 | 51.3 |
| HO13 | 134.36 | 61.2 | 54.3 | 2323 | 1347 | 26.4 | 40.3 | 15 | -17 | 1661.7 | 1486.3 | -192.0 | 205.1 | 49.4 |
| HO14 | 144.03 | 67.8 | 51.3 | 2264 | 1287 | 30.0 | 39.9 | 11 | -14 | 1593.9 | 1435.0 | -177.9 | 189.4 | 48.0 |
| HO15 | 153.70 | 71.8 | 51.5 | 2253 | 1276 | 31.9 | 40.4 | 8 | -12 | 1522.1 | 1383.5 | -164.3 | 174.3 | 46.7 |
| HO16 | 163.37 | 70.1 | 52.3 | 2253 | 1276 | 31.1 | 41.0 | 10 | -13 | 1452.0 | 1331.1 | -151.2 | 159.9 | 45.2 |
| OF17 | 177.37 | 98.5 | 77.2 | 3261 | 1847 | 30.2 | 41.8 | 12 | -15 | 1353.5 | 1253.9 | -133.1 | 140.3 | 42.8 |
| OF18 | 189.37 | 81.6 | 67.5 | 2795 | 1583 | 29.2 | 42.7 | 14 | -17 | 1271.9 | 1186.4 | -118.4 | 124.6 | 40.4 |
| OF19 | 201.37 | 80.7 | 68.3 | 2795 | 1583 | 28.9 | 43.2 | 15 | -18 | 1191.2 | 1118.0 | -104.6 | 109.8 | 37.9 |
| OF20 | 213.37 | 80.0 | 69.1 | 2795 | 1583 | 28.6 | 43.7 | 15 | -17 | 1111.2 | 1048.9 | -91.6 | 96.0 | 35.5 |
| OF21 | 225.37 | 79.2 | 69.9 | 2795 | 1583 | 28.3 | 44.1 | 15 | -17 | 1032.0 | 979.0 | -79.4 | 83.1 | 33.0 |
| OF22 | 237.37 | 78.5 | 70.7 | 2795 | 1583 | 28.1 | 44.6 | 16 | -17 | 953.5 | 908.4 | -68.1 | 71.2 | 30.6 |
| OF23 | 249.37 | 77.9 | 71.5 | 2795 | 1583 | 27.9 | 45.1 | 16 | -17 | 875.5 | 836.9 | -57.6 | 60.2 | 28.1 |
| OF24 | 261.37 | 77.6 | 72.3 | 2795 | 1583 | 27.8 | 45.7 | 16 | -17 | 797.9 | 764.6 | -48.0 | 50.2 | 25.6 |
| OF25 | 273.37 | 77.2 | 73.2 | 2795 | 1583 | 27.6 | 46.2 | 17 | -18 | 720.7 | 691.5 | -39.3 | 41.1 | 23.0 |
| | | 76.9 | 74.0 | 2795 | 1583 | 27.5 | 46.7 | 17 | -18 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER

WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 643.8 | 617.4 | -31.4 | 32.9 | 20.3 |
| | | 76.6 | 74.5 | 2795 | 1583 | 27.4 | 47.0 | 17 | -18 | | | | | |
| OF27 | 297.37 | | | | | | | | | 567.2 | 543.0 | -24.5 | 25.6 | 17.7 |
| | | 76.3 | 74.3 | 2795 | 1583 | 27.3 | 46.9 | 17 | -18 | | | | | |
| OF28 | 309.37 | | | | | | | | | 490.9 | 468.7 | -18.4 | 19.3 | 15.1 |
| | | 76.1 | 74.1 | 2795 | 1583 | 27.2 | 46.8 | 17 | -18 | | | | | |
| OF29 | 321.37 | | | | | | | | | 414.8 | 394.6 | -13.2 | 13.8 | 12.4 |
| | | 75.9 | 73.9 | 2795 | 1583 | 27.1 | 46.7 | 17 | -18 | | | | | |
| OF30 | 333.37 | | | | | | | | | 338.9 | 320.6 | -8.9 | 9.3 | 9.8 |
| | | 75.8 | 72.8 | 2795 | 1583 | 27.1 | 46.0 | 17 | -17 | | | | | |
| OF31 | 345.37 | | | | | | | | | 263.1 | 247.8 | -5.5 | 5.7 | 7.3 |
| | | 76.3 | 70.3 | 2795 | 1583 | 27.3 | 44.4 | 15 | -16 | | | | | |
| OF32 | 357.37 | | | | | | | | | 186.8 | 177.6 | -3.0 | 3.0 | 5.0 |
| | | 78.5 | 69.2 | 2795 | 1583 | 28.1 | 43.7 | 15 | -17 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 108.3 | 108.3 | -1.3 | 1.2 | 2.6 |
| | | 78.9 | 76.9 | 3261 | 1847 | 24.2 | 41.6 | 14 | -15 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 29.4 | 31.4 | -.3 | .3 | .4 |
| | | 29.4 | 31.4 | 2985 | 1355 | 9.8 | 23.2 | 6 | -6 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 2662.5 | 1963.6 | -443.8 | 598.3 | 35.5 |
| PAR2 | 21.33 | 36.7 | 36.7 | 5698 | 3751 | 6.4 | 9.8 | -25 | 25 | 2625.8 | 1926.9 | -402.3 | 541.9 | 37.4 |
| PAR3 | 31.00 | 16.8 | 16.8 | 2583 | 1701 | 6.5 | 9.9 | -26 | 26 | 2609.0 | 1910.1 | -383.7 | 516.6 | 38.2 |
| PAR4 | 40.67 | 16.9 | 16.9 | 2583 | 1701 | 6.5 | 9.9 | -26 | 26 | 2592.1 | 1893.2 | -365.4 | 491.5 | 39.1 |
| PAR5 | 50.34 | 17.0 | 17.0 | 2583 | 1701 | 6.6 | 10.0 | -26 | 26 | 2575.2 | 1876.2 | -347.1 | 466.5 | 40.0 |
| PAR6 | 60.01 | 17.1 | 17.1 | 2583 | 1701 | 6.6 | 10.0 | -26 | 26 | 2558.1 | 1859.2 | -329.1 | 441.7 | 40.9 |
| PAR7 | 69.68 | 17.2 | 17.2 | 2583 | 1701 | 6.6 | 10.1 | -26 | 26 | 2540.9 | 1842.0 | -311.2 | 417.0 | 41.8 |
| PAR8 | 79.35 | 17.3 | 17.3 | 2583 | 1701 | 6.7 | 10.1 | -26 | 26 | 2523.7 | 1824.8 | -293.4 | 392.5 | 42.7 |
| CLUB | 89.02 | 17.4 | 17.4 | 2583 | 1700 | 6.8 | 10.2 | -26 | 26 | 2506.2 | 1807.3 | -275.9 | 368.2 | 43.6 |
| CLUB | 101.02 | 101.1 | 66.4 | 2945 | 1733 | 34.3 | 38.3 | -1 | 2 | 2405.2 | 1740.9 | -254.6 | 338.7 | 43.8 |
| HO11 | 115.02 | 129.7 | 82.4 | 3443 | 2029 | 37.7 | 40.6 | -0 | 0 | 2275.5 | 1658.5 | -230.8 | 306.0 | 43.8 |
| HO12 | 124.69 | 84.3 | 58.4 | 2368 | 1391 | 35.6 | 42.0 | 4 | -6 | 2191.3 | 1600.1 | -215.0 | 284.4 | 43.2 |
| HO13 | 134.36 | 77.2 | 57.0 | 2323 | 1347 | 33.2 | 42.4 | 9 | -13 | 2114.1 | 1543.1 | -199.9 | 263.5 | 41.7 |
| HO14 | 144.03 | 85.7 | 53.7 | 2264 | 1287 | 37.9 | 41.7 | 6 | -9 | 2028.3 | 1489.4 | -185.2 | 243.5 | 40.6 |
| HO15 | 153.70 | 90.4 | 53.7 | 2253 | 1276 | 40.1 | 42.1 | 4 | -7 | 1938.0 | 1435.7 | -171.0 | 224.3 | 39.8 |
| HO16 | 163.37 | 87.5 | 54.4 | 2253 | 1276 | 38.9 | 42.6 | 5 | -8 | 1850.5 | 1381.3 | -157.4 | 206.0 | 38.8 |
| OF17 | 177.37 | 121.7 | 79.9 | 3261 | 1847 | 37.3 | 43.2 | 7 | -10 | 1728.8 | 1301.4 | -138.6 | 181.0 | 37.0 |
| OF18 | 189.37 | 99.6 | 69.6 | 2795 | 1583 | 35.6 | 43.9 | 9 | -13 | 1629.2 | 1231.9 | -123.4 | 160.8 | 35.1 |
| OF19 | 201.37 | 99.3 | 70.5 | 2795 | 1583 | 35.5 | 44.5 | 9 | -13 | 1529.9 | 1161.4 | -109.1 | 141.9 | 33.1 |
| OF20 | 213.37 | 99.4 | 71.3 | 2795 | 1583 | 35.6 | 45.1 | 10 | -14 | 1430.5 | 1090.1 | -95.6 | 124.1 | 31.0 |
| OF21 | 225.37 | 99.5 | 72.2 | 2795 | 1583 | 35.6 | 45.6 | 10 | -14 | 1331.0 | 1017.9 | -82.9 | 107.5 | 28.9 |
| OF22 | 237.37 | 99.6 | 73.1 | 2795 | 1583 | 35.6 | 46.2 | 10 | -14 | 1231.4 | 944.8 | -71.2 | 92.2 | 26.7 |
| OF23 | 249.37 | 99.6 | 73.9 | 2795 | 1583 | 35.6 | 46.7 | 11 | -14 | 1131.9 | 870.9 | -60.3 | 78.0 | 24.5 |
| OF24 | 261.37 | 99.5 | 74.7 | 2795 | 1583 | 35.6 | 47.2 | 11 | -15 | 1032.4 | 796.2 | -50.3 | 65.0 | 22.2 |
| OF25 | 273.37 | 99.4 | 75.4 | 2795 | 1583 | 35.6 | 47.6 | 11 | -15 | 932.9 | 720.8 | -41.2 | 53.2 | 19.9 |
| | | 99.4 | 76.2 | 2795 | 1583 | 35.5 | 48.1 | 11 | -15 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 833.6 | 644.6 | -33.0 | 42.6 | 17.5 |
| | | 99.3 | 76.7 | 2795 | 1583 | 35.5 | 48.4 | 12 | -15 | | | | | |
| OF27 | 297.37 | | | | | | | | | 734.2 | 568.0 | -25.7 | 33.2 | 15.2 |
| | | 99.3 | 76.8 | 2795 | 1583 | 35.5 | 48.5 | 11 | -15 | | | | | |
| OF28 | 309.37 | | | | | | | | | 634.9 | 491.2 | -19.3 | 25.0 | 12.8 |
| | | 99.3 | 76.8 | 2795 | 1583 | 35.5 | 48.5 | 11 | -15 | | | | | |
| OF29 | 321.37 | | | | | | | | | 535.5 | 414.4 | -13.9 | 18.0 | 10.5 |
| | | 99.4 | 76.9 | 2795 | 1583 | 35.5 | 48.6 | 11 | -14 | | | | | |
| OF30 | 333.37 | | | | | | | | | 436.2 | 337.4 | -9.4 | 12.1 | 8.2 |
| | | 98.8 | 76.4 | 2795 | 1583 | 35.4 | 48.3 | 11 | -14 | | | | | |
| OF31 | 345.37 | | | | | | | | | 337.4 | 261.0 | -5.8 | 7.5 | 6.0 |
| | | 97.3 | 74.8 | 2795 | 1583 | 34.8 | 47.2 | 10 | -13 | | | | | |
| OF32 | 357.37 | | | | | | | | | 240.1 | 186.2 | -3.1 | 4.0 | 4.0 |
| | | 95.8 | 73.3 | 2795 | 1583 | 34.3 | 46.3 | 10 | -13 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 144.3 | 112.9 | -1.3 | 1.7 | 2.0 |
| | | 100.1 | 79.9 | 3261 | 1847 | 30.7 | 43.2 | 10 | -12 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 44.2 | 33.1 | -.3 | .4 | .0 |
| | | 44.1 | 33.1 | 2985 | 1355 | 14.8 | 24.4 | 0 | -1 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 3203.8 | 1853.3 | -415.3 | 725.5 | 11.7 |
| PAR2 | 21.33 | 38.4 | 38.4 | 5698 | 3751 | 6.7 | 10.2 | -25 | 25 | 3165.4 | 1814.9 | -376.2 | 657.6 | 13.7 |
| PAR3 | 31.00 | 17.6 | 17.6 | 2583 | 1701 | 6.8 | 10.4 | -25 | 25 | 3147.8 | 1797.3 | -358.8 | 627.1 | 14.6 |
| PAR4 | 40.67 | 17.8 | 17.8 | 2583 | 1701 | 6.9 | 10.5 | -25 | 25 | 3130.0 | 1779.5 | -341.5 | 596.7 | 15.5 |
| PAR5 | 50.34 | 18.0 | 18.0 | 2583 | 1701 | 7.0 | 10.6 | -25 | 25 | 3112.0 | 1761.5 | -324.3 | 566.5 | 16.4 |
| PAR6 | 60.01 | 18.1 | 18.1 | 2583 | 1701 | 7.0 | 10.7 | -25 | 25 | 3093.9 | 1743.4 | -307.4 | 536.5 | 17.3 |
| PAR7 | 69.68 | 18.3 | 18.3 | 2583 | 1701 | 7.1 | 10.8 | -26 | 26 | 3075.6 | 1725.1 | -290.6 | 506.7 | 18.3 |
| PAR8 | 79.35 | 18.4 | 18.4 | 2583 | 1701 | 7.1 | 10.8 | -26 | 26 | 3057.1 | 1706.7 | -274.0 | 477.0 | 19.2 |
| CLUB | 89.02 | 18.7 | 18.7 | 2583 | 1700 | 7.3 | 11.0 | -25 | 26 | 3038.4 | 1688.0 | -257.6 | 447.6 | 20.1 |
| CLUB | 101.02 | 125.4 | 63.7 | 2945 | 1733 | 42.6 | 36.8 | -4 | 8 | 2913.0 | 1624.3 | -237.7 | 411.9 | 21.4 |
| HO11 | 115.02 | 156.6 | 78.0 | 3443 | 2029 | 45.5 | 38.5 | -4 | 7 | 2756.5 | 1546.3 | -215.6 | 372.2 | 22.8 |
| HO12 | 124.69 | 101.6 | 54.5 | 2368 | 1391 | 42.9 | 39.2 | -0 | 1 | 2654.9 | 1491.7 | -200.9 | 346.0 | 22.9 |
| HO13 | 134.36 | 93.9 | 53.0 | 2323 | 1347 | 40.4 | 39.3 | 4 | -6 | 2561.0 | 1438.8 | -186.7 | 320.8 | 22.1 |
| HO14 | 144.03 | 103.7 | 49.4 | 2264 | 1287 | 45.8 | 38.4 | 1 | -2 | 2457.3 | 1389.3 | -173.0 | 296.5 | 21.8 |
| HO15 | 153.70 | 108.8 | 49.3 | 2253 | 1276 | 48.3 | 38.7 | -0 | 0 | 2348.5 | 1340.0 | -159.8 | 273.3 | 21.9 |
| HO16 | 163.37 | 105.2 | 50.0 | 2253 | 1276 | 46.7 | 39.2 | 1 | -2 | 2243.2 | 1290.0 | -147.1 | 251.1 | 21.7 |
| OF17 | 177.37 | 146.1 | 73.6 | 3261 | 1847 | 44.8 | 39.9 | 2 | -4 | 2097.2 | 1216.4 | -129.6 | 220.7 | 20.9 |
| OF18 | 189.37 | 119.2 | 64.3 | 2795 | 1583 | 42.7 | 40.6 | 4 | -7 | 1977.9 | 1152.1 | -115.4 | 196.3 | 19.9 |
| OF19 | 201.37 | 118.8 | 65.3 | 2795 | 1583 | 42.5 | 41.2 | 4 | -7 | 1859.1 | 1086.8 | -101.9 | 173.2 | 18.8 |
| OF20 | 213.37 | 118.8 | 66.3 | 2795 | 1583 | 42.5 | 41.9 | 4 | -7 | 1740.3 | 1020.5 | -89.3 | 151.6 | 17.6 |
| OF21 | 225.37 | 118.8 | 67.3 | 2795 | 1583 | 42.5 | 42.5 | 4 | -8 | 1621.5 | 953.2 | -77.4 | 131.5 | 16.4 |
| OF22 | 237.37 | 118.8 | 68.3 | 2795 | 1583 | 42.5 | 43.1 | 5 | -8 | 1502.7 | 884.9 | -66.4 | 112.7 | 15.1 |
| OF23 | 249.37 | 119.2 | 69.2 | 2795 | 1583 | 42.6 | 43.7 | 5 | -8 | 1383.5 | 815.7 | -56.2 | 95.4 | 13.9 |
| OF24 | 261.37 | 120.2 | 70.0 | 2795 | 1583 | 43.0 | 44.2 | 5 | -8 | 1263.3 | 745.8 | -46.8 | 79.5 | 12.5 |
| OF25 | 273.37 | 121.2 | 70.7 | 2795 | 1583 | 43.4 | 44.7 | 5 | -8 | 1142.1 | 675.0 | -38.3 | 65.1 | 11.2 |
| | | 122.2 | 71.5 | 2795 | 1583 | 43.7 | 45.1 | 5 | -8 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 1019.8 | 603.6 | -30.6 | 52.1 | 9.8 |
| | | 122.7 | 72.0 | 2795 | 1583 | 43.9 | 45.5 | 5 | -9 | | | | | |
| OF27 | 297.37 | | | | | | | | | 897.1 | 531.5 | -23.8 | 40.6 | 8.4 |
| | | 122.4 | 72.3 | 2795 | 1583 | 43.8 | 45.7 | 5 | -9 | | | | | |
| OF28 | 309.37 | | | | | | | | | 774.7 | 459.2 | -17.9 | 30.6 | 6.9 |
| | | 122.1 | 72.6 | 2795 | 1583 | 43.7 | 45.9 | 5 | -9 | | | | | |
| OF29 | 321.37 | | | | | | | | | 652.6 | 386.5 | -12.8 | 22.0 | 5.5 |
| | | 121.8 | 72.9 | 2795 | 1583 | 43.6 | 46.1 | 5 | -9 | | | | | |
| OF30 | 333.37 | | | | | | | | | 530.9 | 313.6 | -8.6 | 14.9 | 4.1 |
| | | 120.3 | 72.4 | 2795 | 1583 | 43.0 | 45.8 | 5 | -8 | | | | | |
| OF31 | 345.37 | | | | | | | | | 410.6 | 241.1 | -5.3 | 9.3 | 2.7 |
| | | 116.7 | 70.4 | 2795 | 1583 | 41.7 | 44.4 | 4 | -7 | | | | | |
| OF32 | 357.37 | | | | | | | | | 293.9 | 170.8 | -2.8 | 5.1 | 1.6 |
| | | 113.2 | 68.5 | 2795 | 1583 | 40.5 | 43.2 | 4 | -7 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 180.7 | 102.3 | -1.2 | 2.2 | .5 |
| | | 121.7 | 74.4 | 3261 | 1847 | 37.3 | 40.3 | 4 | -7 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 59.0 | 27.9 | -.3 | .5 | -.6 |
| | | 59.0 | 27.9 | 2985 | 1355 | 19.8 | 20.6 | -4 | 8 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013

WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 3421.3 | 1440.2 | -317.2 | 780.9 | -28.9 |
| PAR2 | 21.33 | 37.0 | 37.0 | 5698 | 3751 | 6.5 | 9.9 | -25 | 25 | 3384.2 | 1403.1 | -286.9 | 708.3 | -27.0 |
| PAR3 | 31.00 | 17.1 | 17.1 | 2583 | 1701 | 6.6 | 10.0 | -25 | 25 | 3367.2 | 1386.1 | -273.4 | 675.7 | -26.2 |
| PAR4 | 40.67 | 17.2 | 17.2 | 2583 | 1701 | 6.7 | 10.1 | -25 | 25 | 3349.9 | 1368.8 | -260.1 | 643.2 | -25.3 |
| PAR5 | 50.34 | 17.4 | 17.4 | 2583 | 1701 | 6.7 | 10.2 | -25 | 25 | 3332.5 | 1351.4 | -246.9 | 610.9 | -24.4 |
| PAR6 | 60.01 | 17.6 | 17.6 | 2583 | 1701 | 6.8 | 10.3 | -25 | 25 | 3314.9 | 1333.8 | -233.9 | 578.8 | -23.5 |
| PAR7 | 69.68 | 17.8 | 17.8 | 2583 | 1701 | 6.9 | 10.5 | -25 | 25 | 3297.1 | 1316.0 | -221.1 | 546.8 | -22.7 |
| PAR8 | 79.35 | 18.0 | 18.0 | 2583 | 1701 | 7.0 | 10.6 | -25 | 25 | 3279.1 | 1298.1 | -208.5 | 515.0 | -21.7 |
| CLUB | 89.02 | 18.3 | 18.2 | 2583 | 1700 | 7.1 | 10.7 | -25 | 25 | 3260.9 | 1279.9 | -196.0 | 483.4 | -20.8 |
| CLUB | 101.02 | 130.7 | 49.5 | 2945 | 1733 | 44.4 | 28.5 | -7 | 18 | 3130.2 | 1230.4 | -181.0 | 445.0 | -18.2 |
| HO11 | 115.02 | 162.3 | 61.3 | 3443 | 2029 | 47.1 | 30.2 | -6 | 16 | 2967.9 | 1169.1 | -164.2 | 402.3 | -15.2 |
| HO12 | 124.69 | 106.3 | 42.8 | 2368 | 1391 | 44.9 | 30.8 | -4 | 10 | 2861.6 | 1126.3 | -153.1 | 374.2 | -13.9 |
| HO13 | 134.36 | 93.1 | 41.2 | 2323 | 1347 | 42.6 | 30.6 | -2 | 4 | 2762.6 | 1085.1 | -142.4 | 347.0 | -13.5 |
| HO14 | 144.03 | 110.0 | 37.5 | 2264 | 1287 | 48.6 | 29.2 | -3 | 8 | 2652.6 | 1047.6 | -132.1 | 320.8 | -12.5 |
| HO15 | 153.70 | 115.7 | 37.1 | 2253 | 1276 | 51.4 | 29.1 | -3 | 10 | 2536.9 | 1010.4 | -122.1 | 295.7 | -11.3 |
| HO16 | 163.37 | 112.4 | 37.5 | 2253 | 1276 | 49.9 | 29.4 | -3 | 8 | 2424.5 | 972.9 | -112.5 | 271.7 | -10.2 |
| OF17 | 177.37 | 156.9 | 54.9 | 3261 | 1847 | 48.1 | 29.7 | -2 | 6 | 2267.6 | 918.0 | -99.3 | 238.9 | -9.1 |
| OF18 | 189.37 | 129.0 | 47.7 | 2795 | 1583 | 46.1 | 30.1 | -1 | 4 | 2138.7 | 870.4 | -88.6 | 212.4 | -8.6 |
| OF19 | 201.37 | 128.7 | 48.1 | 2795 | 1583 | 46.0 | 30.4 | -1 | 4 | 2010.0 | 822.3 | -78.4 | 187.5 | -8.1 |
| OF20 | 213.37 | 129.9 | 48.5 | 2795 | 1583 | 46.1 | 30.6 | -1 | 4 | 1881.1 | 773.8 | -68.8 | 164.2 | -7.5 |
| OF21 | 225.37 | 129.0 | 48.9 | 2795 | 1583 | 46.1 | 30.9 | -1 | 4 | 1752.1 | 724.9 | -59.8 | 142.4 | -6.9 |
| OF22 | 237.37 | 129.2 | 49.3 | 2795 | 1583 | 46.2 | 31.2 | -1 | 4 | 1623.0 | 675.5 | -51.4 | 122.1 | -6.4 |
| OF23 | 249.37 | 129.5 | 50.0 | 2795 | 1583 | 46.3 | 31.6 | -1 | 4 | 1493.4 | 625.5 | -43.6 | 103.4 | -5.8 |
| OF24 | 261.37 | 130.3 | 51.1 | 2795 | 1583 | 46.6 | 32.3 | -1 | 3 | 1363.1 | 574.4 | -36.4 | 86.3 | -5.3 |
| OF25 | 273.37 | 131.0 | 52.1 | 2795 | 1583 | 46.9 | 32.9 | -1 | 3 | 1232.1 | 522.3 | -29.8 | 70.7 | -4.9 |
| | | 131.7 | 53.1 | 2795 | 1583 | 47.1 | 33.6 | -1 | 2 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 1100.4 | 469.1 | -23.9 | 56.7 | -4.6 |
| | | 132.0 | 54.2 | 2795 | 1583 | 47.2 | 34.2 | -1 | 2 | | | | | |
| OF27 | 297.37 | | | | | | | | | 968.4 | 415.0 | -18.6 | 44.3 | -4.3 |
| | | 131.3 | 55.2 | 2795 | 1583 | 47.0 | 34.9 | -1 | 2 | | | | | |
| OF28 | 309.37 | | | | | | | | | 837.1 | 359.7 | -13.9 | 33.5 | -4.0 |
| | | 130.7 | 56.3 | 2795 | 1583 | 46.8 | 35.6 | -1 | 2 | | | | | |
| OF29 | 321.37 | | | | | | | | | 706.4 | 303.4 | -10.0 | 24.2 | -3.7 |
| | | 130.1 | 57.4 | 2795 | 1583 | 46.5 | 36.2 | -1 | 2 | | | | | |
| OF30 | 333.37 | | | | | | | | | 576.3 | 246.1 | -6.7 | 16.5 | -3.5 |
| | | 128.1 | 57.3 | 2795 | 1583 | 45.8 | 36.2 | -1 | 2 | | | | | |
| OF31 | 345.37 | | | | | | | | | 448.2 | 188.7 | -4.1 | 10.4 | -3.1 |
| | | 123.9 | 55.5 | 2795 | 1583 | 44.3 | 35.1 | -2 | 4 | | | | | |
| OF32 | 357.37 | | | | | | | | | 324.3 | 133.2 | -2.1 | 5.7 | -2.6 |
| | | 120.6 | 54.6 | 2795 | 1583 | 43.1 | 34.5 | -2 | 4 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 203.6 | 78.6 | -.9 | 2.6 | -1.9 |
| | | 132.3 | 59.2 | 3261 | 1847 | 40.6 | 32.0 | -2 | 4 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 71.4 | 19.4 | -.2 | .6 | -1.3 |
| | | 71.4 | 19.4 | 2985 | 1355 | 23.9 | 14.3 | -5 | 17 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 200 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 3284.0 | 879.8 | -180.7 | 748.8 | -75.3 |
| PAR2 | 21.33 | 36.0 | 36.0 | 5698 | 3751 | 6.3 | 9.6 | -25 | 25 | 3248.0 | 843.8 | -162.4 | 679.2 | -73.5 |
| PAR3 | 31.00 | 16.7 | 16.7 | 2583 | 1701 | 6.5 | 9.8 | -25 | 25 | 3231.3 | 827.1 | -154.3 | 647.8 | -72.7 |
| PAR4 | 40.67 | 16.9 | 16.9 | 2583 | 1701 | 6.5 | 9.9 | -25 | 25 | 3214.4 | 810.2 | -146.4 | 616.7 | -71.8 |
| PAR5 | 50.34 | 17.1 | 17.1 | 2583 | 1701 | 6.6 | 10.1 | -25 | 25 | 3197.2 | 793.1 | -138.6 | 585.7 | -70.9 |
| PAR6 | 60.01 | 17.4 | 17.4 | 2583 | 1701 | 6.7 | 10.2 | -25 | 25 | 3179.8 | 775.7 | -131.0 | 554.8 | -70.1 |
| PAR7 | 69.68 | 17.6 | 17.6 | 2583 | 1701 | 6.8 | 10.3 | -25 | 25 | 3162.2 | 758.1 | -123.6 | 524.2 | -69.2 |
| PAR8 | 79.35 | 17.8 | 17.8 | 2583 | 1701 | 6.9 | 10.5 | -25 | 25 | 3144.4 | 740.3 | -116.4 | 493.7 | -68.3 |
| CLUB | 89.02 | 18.2 | 18.1 | 2583 | 1700 | 7.0 | 10.6 | -25 | 26 | 3126.2 | 722.2 | -109.3 | 463.4 | -67.3 |
| CLUB | 101.02 | 127.1 | 30.5 | 2945 | 1733 | 43.2 | 17.6 | -8 | 33 | 2999.1 | 691.7 | -100.8 | 426.6 | -62.9 |
| HO11 | 115.02 | 157.0 | 39.8 | 3443 | 2029 | 45.6 | 19.6 | -8 | 31 | 2842.1 | 651.9 | -91.4 | 385.7 | -57.7 |
| HO12 | 124.69 | 103.1 | 27.9 | 2368 | 1391 | 43.5 | 20.1 | -7 | 25 | 2739.0 | 623.9 | -85.2 | 358.7 | -54.9 |
| HO13 | 134.36 | 96.4 | 26.1 | 2323 | 1347 | 41.5 | 19.4 | -5 | 19 | 2642.7 | 597.9 | -79.3 | 332.7 | -53.0 |
| HO14 | 144.03 | 104.4 | 22.3 | 2264 | 1287 | 46.1 | 17.3 | -5 | 21 | 2538.3 | 575.6 | -73.7 | 307.7 | -50.6 |
| HO15 | 153.70 | 109.0 | 21.4 | 2253 | 1276 | 48.4 | 16.8 | -4 | 23 | 2429.3 | 554.2 | -68.2 | 283.7 | -48.1 |
| HO16 | 163.37 | 106.8 | 21.3 | 2253 | 1276 | 47.4 | 16.7 | -4 | 21 | 2322.5 | 532.9 | -62.9 | 260.7 | -45.7 |
| OF17 | 177.37 | 150.6 | 30.6 | 3261 | 1847 | 46.2 | 16.6 | -4 | 20 | 2171.9 | 502.3 | -55.7 | 229.2 | -42.6 |
| OF18 | 189.37 | 125.4 | 26.0 | 2795 | 1583 | 44.9 | 16.4 | -4 | 18 | 2046.5 | 476.3 | -49.8 | 203.9 | -40.3 |
| OF19 | 201.37 | 124.5 | 26.0 | 2795 | 1583 | 44.5 | 16.4 | -4 | 18 | 1922.0 | 450.3 | -44.3 | 180.1 | -38.0 |
| OF20 | 213.37 | 123.9 | 26.0 | 2795 | 1583 | 44.3 | 16.4 | -4 | 18 | 1798.1 | 424.3 | -39.0 | 157.8 | -35.6 |
| OF21 | 225.37 | 123.2 | 25.9 | 2795 | 1583 | 44.1 | 16.4 | -4 | 18 | 1674.9 | 398.4 | -34.1 | 136.9 | -33.2 |
| OF22 | 237.37 | 122.5 | 25.9 | 2795 | 1583 | 43.8 | 16.4 | -4 | 19 | 1552.4 | 372.5 | -29.5 | 117.6 | -30.8 |
| OF23 | 249.37 | 122.4 | 26.0 | 2795 | 1583 | 43.8 | 16.4 | -4 | 19 | 1430.0 | 346.5 | -25.1 | 99.7 | -28.4 |
| OF24 | 261.37 | 123.1 | 26.2 | 2795 | 1583 | 44.0 | 16.5 | -4 | 19 | 1306.8 | 320.3 | -21.1 | 83.3 | -26.0 |
| OF25 | 273.37 | 123.8 | 26.3 | 2795 | 1583 | 44.3 | 16.6 | -4 | 19 | 1183.0 | 294.0 | -17.5 | 68.3 | -23.6 |
| | | 124.5 | 26.5 | 2795 | 1583 | 44.5 | 16.7 | -4 | 19 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 200 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 1058.5 | 267.5 | -14.1 | 54.9 | -21.2 |
| | | 124.9 | 27.3 | 2795 | 1583 | 44.7 | 17.2 | -4 | 18 | | | | | |
| OF27 | 297.37 | | | | | | | | | 933.6 | 240.2 | -11.0 | 42.9 | -18.8 |
| | | 124.9 | 29.1 | 2795 | 1583 | 44.7 | 18.4 | -4 | 18 | | | | | |
| OF28 | 309.37 | | | | | | | | | 808.7 | 211.1 | -8.3 | 32.5 | -16.4 |
| | | 125.0 | 30.9 | 2795 | 1583 | 44.7 | 19.5 | -4 | 18 | | | | | |
| OF29 | 321.37 | | | | | | | | | 683.7 | 180.2 | -6.0 | 23.5 | -14.0 |
| | | 125.0 | 32.8 | 2795 | 1583 | 44.7 | 20.7 | -5 | 17 | | | | | |
| OF30 | 333.37 | | | | | | | | | 558.7 | 147.4 | -4.0 | 16.1 | -11.7 |
| | | 123.5 | 33.6 | 2795 | 1583 | 44.2 | 21.2 | -5 | 18 | | | | | |
| OF31 | 345.37 | | | | | | | | | 435.2 | 113.8 | -2.5 | 10.1 | -9.3 |
| | | 119.6 | 32.9 | 2795 | 1583 | 42.8 | 20.8 | -5 | 19 | | | | | |
| OF32 | 357.37 | | | | | | | | | 315.6 | 80.9 | -1.3 | 5.6 | -6.9 |
| | | 116.7 | 33.1 | 2795 | 1583 | 41.7 | 20.9 | -5 | 18 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 198.9 | 47.8 | -.5 | 2.5 | -4.6 |
| | | 129.8 | 36.3 | 3261 | 1847 | 39.8 | 19.7 | -5 | 18 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 69.2 | 11.4 | -.1 | .6 | -2.1 |
| | | 69.2 | 11.4 | 2985 | 1355 | 23.2 | 8.4 | -5 | 29 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 210 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 3223.0 | 506.4 | -86.9 | 733.3 | -116.0 |
| PAR2 | 21.33 | 35.5 | 35.5 | 5698 | 3751 | 6.2 | 9.5 | -26 | 26 | 3187.5 | 470.8 | -76.5 | 665.0 | -114.2 |
| PAR3 | 31.00 | 16.6 | 16.6 | 2583 | 1701 | 6.4 | 9.8 | -26 | 26 | 3170.9 | 454.2 | -72.0 | 634.2 | -113.3 |
| PAR4 | 40.67 | 16.9 | 16.9 | 2583 | 1701 | 6.5 | 9.9 | -26 | 26 | 3154.0 | 437.3 | -67.7 | 603.6 | -112.4 |
| PAR5 | 50.34 | 17.2 | 17.2 | 2583 | 1701 | 6.7 | 10.1 | -26 | 26 | 3136.8 | 420.1 | -63.5 | 573.2 | -111.6 |
| PAR6 | 60.01 | 17.5 | 17.5 | 2583 | 1701 | 6.8 | 10.3 | -26 | 26 | 3119.3 | 402.6 | -59.6 | 543.0 | -110.7 |
| PAR7 | 69.68 | 17.8 | 17.8 | 2583 | 1701 | 6.9 | 10.5 | -26 | 26 | 3101.4 | 384.8 | -55.7 | 512.9 | -109.8 |
| PAR8 | 79.35 | 18.1 | 18.1 | 2583 | 1701 | 7.0 | 10.7 | -26 | 26 | 3083.3 | 366.7 | -52.1 | 483.0 | -108.8 |
| CLUB | 89.02 | 18.6 | 18.4 | 2583 | 1700 | 7.2 | 10.8 | -26 | 26 | 3064.7 | 348.2 | -48.7 | 453.3 | -107.9 |
| CLUB | 101.02 | 126.6 | 18.9 | 2945 | 1733 | 43.0 | 10.9 | -6 | 43 | 2938.1 | 329.3 | -44.6 | 417.2 | -102.3 |
| H011 | 115.02 | 153.3 | 26.3 | 3443 | 2029 | 44.5 | 13.0 | -7 | 41 | 2784.8 | 303.0 | -40.2 | 377.2 | -95.8 |
| H012 | 124.69 | 100.6 | 17.9 | 2368 | 1391 | 42.5 | 12.9 | -7 | 37 | 2684.3 | 285.1 | -37.3 | 350.7 | -91.7 |
| H013 | 134.36 | 93.8 | 15.7 | 2323 | 1347 | 40.4 | 11.7 | -6 | 33 | 2590.4 | 269.4 | -34.6 | 325.2 | -88.7 |
| H014 | 144.03 | 100.5 | 11.6 | 2264 | 1287 | 44.4 | 9.0 | -4 | 34 | 2489.9 | 257.7 | -32.1 | 300.7 | -85.3 |
| H015 | 153.70 | 105.1 | 10.8 | 2253 | 1276 | 46.7 | 8.5 | -4 | 34 | 2384.8 | 246.9 | -29.7 | 277.1 | -81.6 |
| H016 | 163.37 | 104.0 | 10.7 | 2253 | 1276 | 46.2 | 8.4 | -3 | 33 | 2280.8 | 236.2 | -27.3 | 254.5 | -78.1 |
| OF17 | 177.37 | 148.6 | 15.3 | 3261 | 1847 | 45.6 | 8.3 | -3 | 32 | 2132.3 | 220.8 | -24.1 | 223.7 | -73.3 |
| OF18 | 189.37 | 125.5 | 13.0 | 2795 | 1583 | 44.9 | 8.2 | -3 | 31 | 2006.8 | 207.9 | -21.5 | 198.8 | -69.3 |
| OF19 | 201.37 | 124.4 | 12.6 | 2795 | 1583 | 44.5 | 8.0 | -3 | 32 | 1882.4 | 195.2 | -19.1 | 175.5 | -65.4 |
| OF20 | 213.37 | 123.3 | 12.3 | 2795 | 1583 | 44.1 | 7.7 | -3 | 32 | 1759.1 | 183.0 | -16.9 | 153.6 | -61.4 |
| OF21 | 225.37 | 122.3 | 11.9 | 2795 | 1583 | 43.7 | 7.5 | -3 | 33 | 1636.8 | 171.1 | -14.7 | 133.3 | -57.3 |
| OF22 | 237.37 | 121.2 | 11.6 | 2795 | 1583 | 43.4 | 7.3 | -3 | 34 | 1515.6 | 159.5 | -12.8 | 114.3 | -53.2 |
| OF23 | 249.37 | 120.8 | 11.4 | 2795 | 1583 | 43.2 | 7.2 | -3 | 34 | 1394.8 | 148.1 | -10.9 | 96.9 | -49.0 |
| OF24 | 261.37 | 121.2 | 11.4 | 2795 | 1583 | 43.3 | 7.2 | -3 | 34 | 1273.6 | 136.8 | -9.2 | 80.9 | -44.8 |
| OF25 | 273.37 | 121.5 | 11.3 | 2795 | 1583 | 43.5 | 7.2 | -3 | 34 | 1152.1 | 125.4 | -7.6 | 66.3 | -40.6 |
| | | 121.9 | 11.3 | 2795 | 1583 | 43.6 | 7.2 | -3 | 34 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 210 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 1030.2 | 114.1 | -6.2 | 53.2 | -36.4 |
| | | 122.1 | 11.5 | 2795 | 1583 | 43.7 | 7.3 | -3 | 34 | | | | | |
| OF27 | 297.37 | | | | | | | | | 908.2 | 102.6 | -4.9 | 41.6 | -32.2 |
| | | 121.9 | 11.9 | 2795 | 1583 | 43.6 | 7.5 | -3 | 34 | | | | | |
| OF28 | 309.37 | | | | | | | | | 786.3 | 90.7 | -3.7 | 31.4 | -28.0 |
| | | 121.7 | 12.3 | 2795 | 1583 | 43.5 | 7.8 | -3 | 35 | | | | | |
| OF29 | 321.37 | | | | | | | | | 664.6 | 78.4 | -2.7 | 22.7 | -23.7 |
| | | 121.5 | 12.7 | 2795 | 1583 | 43.5 | 8.0 | -4 | 35 | | | | | |
| OF30 | 333.37 | | | | | | | | | 543.0 | 65.8 | -1.8 | 15.5 | -19.5 |
| | | 120.5 | 13.3 | 2795 | 1583 | 43.1 | 8.4 | -4 | 35 | | | | | |
| OF31 | 345.37 | | | | | | | | | 422.5 | 52.5 | -1.1 | 9.7 | -15.2 |
| | | 117.7 | 14.2 | 2795 | 1583 | 42.1 | 9.0 | -4 | 35 | | | | | |
| OF32 | 357.37 | | | | | | | | | 304.8 | 38.3 | -.6 | 5.3 | -11.0 |
| | | 115.4 | 15.6 | 2795 | 1583 | 41.3 | 9.9 | -5 | 33 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 189.5 | 22.6 | -.2 | 2.3 | -7.1 |
| | | 125.7 | 18.5 | 3261 | 1847 | 38.5 | 10.0 | -5 | 33 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 63.8 | 4.2 | -.0 | .6 | -2.8 |
| | | 63.8 | 4.2 | 2985 | 1355 | 21.4 | 3.1 | -3 | 44 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 3123.5 | 510.0 | -86.5 | 707.9 | -128.9 |
| | | 35.9 | 35.9 | 5698 | 3751 | 6.3 | 9.6 | -26 | 26 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 3087.7 | 474.1 | -76.0 | 641.7 | -127.0 |
| | | 16.9 | 16.9 | 2583 | 1701 | 6.5 | 9.9 | -26 | 26 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 3070.8 | 457.3 | -71.5 | 611.9 | -126.2 |
| | | 17.2 | 17.2 | 2583 | 1701 | 6.7 | 10.1 | -26 | 26 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 3053.6 | 440.1 | -67.2 | 582.3 | -125.3 |
| | | 17.6 | 17.6 | 2583 | 1701 | 6.8 | 10.3 | -26 | 26 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 3036.0 | 422.5 | -63.0 | 552.8 | -124.4 |
| | | 18.0 | 18.0 | 2583 | 1701 | 7.0 | 10.6 | -26 | 26 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 3018.0 | 404.5 | -59.0 | 523.6 | -123.4 |
| | | 18.3 | 18.3 | 2583 | 1701 | 7.1 | 10.8 | -26 | 26 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 2999.7 | 386.2 | -55.2 | 494.5 | -122.5 |
| | | 18.7 | 18.7 | 2583 | 1701 | 7.2 | 11.0 | -26 | 26 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 2981.0 | 367.5 | -51.5 | 465.6 | -121.5 |
| | | 19.2 | 19.1 | 2583 | 1700 | 7.4 | 11.2 | -25 | 26 | | | | | |
| CLUB | 89.02 | | | | | | | | | 2961.8 | 348.4 | -48.1 | 436.8 | -120.6 |
| | | 127.6 | 18.7 | 2945 | 1733 | 43.3 | 10.8 | -6 | 44 | | | | | |
| CLUB | 101.02 | | | | | | | | | 2834.2 | 329.7 | -44.0 | 402.1 | -114.8 |
| | | 153.7 | 25.7 | 3443 | 2029 | 44.6 | 12.7 | -7 | 44 | | | | | |
| H011 | 115.02 | | | | | | | | | 2680.5 | 303.9 | -39.6 | 363.5 | -107.8 |
| | | 100.1 | 16.2 | 2368 | 1391 | 42.3 | 11.7 | -7 | 42 | | | | | |
| H012 | 124.69 | | | | | | | | | 2580.4 | 287.7 | -36.7 | 338.0 | -103.5 |
| | | 92.7 | 14.4 | 2323 | 1347 | 39.9 | 10.7 | -6 | 40 | | | | | |
| H013 | 134.36 | | | | | | | | | 2487.7 | 273.3 | -34.0 | 313.5 | -99.7 |
| | | 97.3 | 10.7 | 2264 | 1287 | 43.0 | 8.3 | -4 | 40 | | | | | |
| H014 | 144.03 | | | | | | | | | 2390.4 | 262.6 | -31.4 | 289.9 | -95.8 |
| | | 100.6 | 10.2 | 2253 | 1276 | 44.6 | 8.0 | -4 | 40 | | | | | |
| H015 | 153.70 | | | | | | | | | 2289.8 | 252.4 | -28.9 | 267.3 | -91.7 |
| | | 98.7 | 10.4 | 2253 | 1276 | 43.8 | 8.1 | -4 | 39 | | | | | |
| H016 | 163.37 | | | | | | | | | 2191.1 | 242.0 | -26.5 | 245.6 | -87.8 |
| | | 139.6 | 15.4 | 3261 | 1847 | 42.8 | 8.3 | -4 | 39 | | | | | |
| OF17 | 177.37 | | | | | | | | | 2051.4 | 226.6 | -23.3 | 215.9 | -82.3 |
| | | 116.6 | 13.5 | 2795 | 1583 | 41.7 | 8.5 | -4 | 38 | | | | | |
| OF18 | 189.37 | | | | | | | | | 1934.8 | 213.1 | -20.6 | 192.0 | -77.9 |
| | | 116.7 | 13.5 | 2795 | 1583 | 41.8 | 8.6 | -4 | 38 | | | | | |
| OF19 | 201.37 | | | | | | | | | 1818.1 | 199.6 | -18.1 | 169.5 | -73.4 |
| | | 117.1 | 13.5 | 2795 | 1583 | 41.9 | 8.5 | -4 | 38 | | | | | |
| OF20 | 213.37 | | | | | | | | | 1701.0 | 186.0 | -15.8 | 148.4 | -68.9 |
| | | 117.4 | 13.5 | 2795 | 1583 | 42.0 | 8.5 | -4 | 38 | | | | | |
| OF21 | 225.37 | | | | | | | | | 1583.6 | 172.5 | -13.7 | 128.7 | -64.4 |
| | | 117.8 | 13.5 | 2795 | 1583 | 42.1 | 8.5 | -4 | 38 | | | | | |
| OF22 | 237.37 | | | | | | | | | 1465.9 | 159.0 | -11.7 | 110.4 | -59.9 |
| | | 117.8 | 13.4 | 2795 | 1583 | 42.2 | 8.5 | -4 | 38 | | | | | |
| OF23 | 249.37 | | | | | | | | | 1348.0 | 145.6 | -9.9 | 93.5 | -55.4 |
| | | 117.6 | 13.2 | 2795 | 1583 | 42.1 | 8.3 | -4 | 38 | | | | | |
| OF24 | 261.37 | | | | | | | | | 1230.4 | 132.4 | -8.2 | 78.0 | -50.8 |
| | | 117.3 | 13.0 | 2795 | 1583 | 42.0 | 8.2 | -4 | 39 | | | | | |
| OF25 | 273.37 | | | | | | | | | 1113.2 | 119.3 | -6.7 | 64.0 | -46.3 |
| | | 117.0 | 12.8 | 2795 | 1583 | 41.9 | 8.1 | -4 | 39 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 996.2 | 106.5 | -5.3 | 51.3 | -41.6 |
| | | 117.1 | 12.7 | 2795 | 1583 | 41.9 | 8.0 | -4 | 39 | | | | | |
| OF27 | 297.37 | | | | | | | | | 879.0 | 93.8 | -4.1 | 40.1 | -37.0 |
| | | 117.8 | 12.8 | 2795 | 1583 | 42.2 | 8.1 | -4 | 39 | | | | | |
| OF28 | 309.37 | | | | | | | | | 761.2 | 81.0 | -3.1 | 30.2 | -32.3 |
| | | 118.6 | 12.9 | 2795 | 1583 | 42.4 | 8.1 | -4 | 39 | | | | | |
| OF29 | 321.37 | | | | | | | | | 642.6 | 68.1 | -2.2 | 21.8 | -27.6 |
| | | 119.3 | 13.0 | 2795 | 1583 | 42.7 | 8.2 | -4 | 39 | | | | | |
| OF30 | 333.37 | | | | | | | | | 523.3 | 55.1 | -1.4 | 14.8 | -22.9 |
| | | 118.5 | 13.1 | 2795 | 1583 | 42.4 | 8.3 | -4 | 39 | | | | | |
| OF31 | 345.37 | | | | | | | | | 404.8 | 42.0 | -.9 | 9.2 | -18.2 |
| | | 114.7 | 13.3 | 2795 | 1583 | 41.0 | 8.4 | -5 | 41 | | | | | |
| OF32 | 357.37 | | | | | | | | | 290.1 | 28.7 | -.4 | 5.1 | -13.5 |
| | | 109.9 | 12.4 | 2795 | 1583 | 39.3 | 7.9 | -5 | 43 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 180.1 | 16.3 | -.2 | 2.2 | -8.7 |
| | | 119.0 | 13.3 | 3261 | 1847 | 36.5 | 7.2 | -5 | 44 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 61.1 | 3.0 | -.0 | .5 | -3.4 |
| | | 61.1 | 3.0 | 2985 | 1355 | 20.5 | 2.2 | -3 | 55 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER PROJECT #6013
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 2701.8 | 528.5 | -94.9 | 608.7 | -142.2 |
| PAR2 | 21.33 | 33.6 | 33.6 | 5698 | 3751 | 5.9 | 9.0 | -26 | 26 | 2668.2 | 494.9 | -84.0 | 551.5 | -140.5 |
| PAR3 | 31.00 | 15.9 | 15.9 | 2583 | 1701 | 6.2 | 9.4 | -26 | 26 | 2652.3 | 479.0 | -79.2 | 525.7 | -139.6 |
| PAR4 | 40.67 | 16.3 | 16.3 | 2583 | 1701 | 6.3 | 9.6 | -26 | 26 | 2636.0 | 462.7 | -74.7 | 500.2 | -138.8 |
| PAR5 | 50.34 | 16.7 | 16.7 | 2583 | 1701 | 6.5 | 9.8 | -26 | 26 | 2619.2 | 445.9 | -70.3 | 474.7 | -137.9 |
| PAR6 | 60.01 | 17.2 | 17.2 | 2583 | 1701 | 6.6 | 10.1 | -26 | 26 | 2602.1 | 428.8 | -66.1 | 449.5 | -137.0 |
| PAR7 | 69.68 | 17.6 | 17.6 | 2583 | 1701 | 6.8 | 10.3 | -26 | 26 | 2584.5 | 411.2 | -62.0 | 424.4 | -136.1 |
| PAR8 | 79.35 | 18.0 | 18.0 | 2583 | 1701 | 7.0 | 10.6 | -26 | 26 | 2566.5 | 393.2 | -58.1 | 399.5 | -135.2 |
| CLUB | 89.02 | 18.6 | 18.4 | 2583 | 1700 | 7.2 | 10.8 | -26 | 26 | 2547.9 | 374.8 | -54.4 | 374.8 | -134.2 |
| CLUB | 101.02 | 115.9 | 15.9 | 2945 | 1733 | 39.4 | 9.2 | -6 | 47 | 2432.0 | 358.9 | -50.0 | 344.9 | -128.6 |
| HO11 | 115.02 | 133.8 | 21.3 | 3443 | 2029 | 38.9 | 10.5 | -8 | 50 | 2298.2 | 337.6 | -45.1 | 311.8 | -121.8 |
| HO12 | 124.69 | 85.8 | 12.7 | 2368 | 1391 | 36.3 | 9.1 | -8 | 52 | 2212.4 | 324.8 | -41.9 | 290.0 | -117.3 |
| HO13 | 134.36 | 78.5 | 13.4 | 2323 | 1347 | 33.8 | 9.9 | -9 | 53 | 2133.9 | 311.4 | -38.8 | 269.0 | -113.0 |
| HO14 | 144.03 | 83.1 | 10.6 | 2264 | 1287 | 36.7 | 8.3 | -6 | 50 | 2050.8 | 300.8 | -35.9 | 248.7 | -108.8 |
| HO15 | 153.70 | 86.3 | 10.5 | 2253 | 1276 | 38.3 | 8.2 | -6 | 48 | 1964.5 | 290.3 | -33.0 | 229.3 | -104.6 |
| HO16 | 163.37 | 84.9 | 11.0 | 2253 | 1276 | 37.7 | 8.6 | -6 | 49 | 1879.6 | 279.2 | -30.3 | 210.7 | -100.4 |
| OF17 | 177.37 | 120.2 | 16.9 | 3261 | 1847 | 36.9 | 9.1 | -7 | 49 | 1759.4 | 262.4 | -26.5 | 185.3 | -94.3 |
| OF18 | 189.37 | 100.6 | 15.3 | 2795 | 1583 | 36.0 | 9.7 | -8 | 50 | 1658.8 | 247.1 | -23.4 | 164.8 | -89.2 |
| OF19 | 201.37 | 100.3 | 15.5 | 2795 | 1583 | 35.9 | 9.8 | -8 | 50 | 1558.5 | 231.6 | -20.6 | 145.5 | -84.0 |
| OF20 | 213.37 | 100.2 | 15.6 | 2795 | 1583 | 35.8 | 9.9 | -8 | 51 | 1458.3 | 215.9 | -17.9 | 127.4 | -78.8 |
| OF21 | 225.37 | 100.0 | 15.8 | 2795 | 1583 | 35.8 | 10.0 | -8 | 51 | 1358.2 | 200.2 | -15.4 | 110.5 | -73.6 |
| OF22 | 237.37 | 99.9 | 15.9 | 2795 | 1583 | 35.7 | 10.0 | -8 | 51 | 1258.4 | 184.3 | -13.1 | 94.8 | -68.3 |
| OF23 | 249.37 | 99.9 | 16.0 | 2795 | 1583 | 35.8 | 10.1 | -8 | 51 | 1158.4 | 168.3 | -11.0 | 80.3 | -63.0 |
| OF24 | 261.37 | 100.3 | 16.0 | 2795 | 1583 | 35.9 | 10.1 | -8 | 51 | 1058.2 | 152.3 | -9.0 | 67.0 | -57.8 |
| OF25 | 273.37 | 100.6 | 16.0 | 2795 | 1583 | 36.0 | 10.1 | -8 | 51 | 957.6 | 136.2 | -7.3 | 54.9 | -52.5 |
| | | 100.9 | 16.0 | 2795 | 1583 | 36.1 | 10.1 | -8 | 51 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 856.7 | 120.2 | -5.8 | 44.0 | -47.2 |
| | | 101.2 | 16.0 | 2795 | 1583 | 36.2 | 10.1 | -8 | 51 | | | | | |
| OF27 | 297.37 | | | | | | | | | 755.5 | 104.2 | -4.4 | 34.3 | -42.0 |
| | | 101.7 | 15.7 | 2795 | 1583 | 36.4 | 9.9 | -8 | 51 | | | | | |
| OF28 | 309.37 | | | | | | | | | 653.8 | 88.5 | -3.3 | 25.9 | -36.7 |
| | | 102.2 | 15.4 | 2795 | 1583 | 36.6 | 9.8 | -8 | 51 | | | | | |
| OF29 | 321.37 | | | | | | | | | 551.6 | 73.1 | -2.3 | 18.6 | -31.4 |
| | | 102.6 | 15.2 | 2795 | 1583 | 36.7 | 9.6 | -8 | 51 | | | | | |
| OF30 | 333.37 | | | | | | | | | 449.0 | 57.9 | -1.5 | 12.6 | -26.0 |
| | | 102.2 | 15.0 | 2795 | 1583 | 36.6 | 9.5 | -8 | 51 | | | | | |
| OF31 | 345.37 | | | | | | | | | 346.8 | 42.9 | -.9 | 7.8 | -20.7 |
| | | 99.5 | 14.4 | 2795 | 1583 | 35.6 | 9.1 | -8 | 53 | | | | | |
| OF32 | 357.37 | | | | | | | | | 247.3 | 28.5 | -.5 | 4.3 | -15.3 |
| | | 94.7 | 11.7 | 2795 | 1583 | 33.9 | 7.4 | -7 | 57 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 152.5 | 16.8 | -.2 | 1.9 | -9.8 |
| | | 101.7 | 12.1 | 3261 | 1847 | 31.2 | 6.5 | -7 | 59 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 50.8 | 4.8 | -.0 | .5 | -3.7 |
| | | 50.8 | 4.8 | 2985 | 1355 | 17.0 | 3.5 | -7 | 72 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER , PROJECT #6013
WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 2151.6 | 439.1 | -83.2 | 482.2 | -155.7 |
| PAR2 | 21.33 | 29.1 | 29.1 | 5698 | 3751 | 5.1 | 7.8 | -26 | 26 | 2122.5 | 410.0 | -74.1 | 436.6 | -154.2 |
| PAR3 | 31.00 | 13.6 | 13.6 | 2583 | 1701 | 5.3 | 8.0 | -26 | 26 | 2108.9 | 396.4 | -70.2 | 416.2 | -153.5 |
| PAR4 | 40.67 | 13.9 | 13.9 | 2583 | 1701 | 5.4 | 8.2 | -26 | 26 | 2095.0 | 382.5 | -66.5 | 395.9 | -152.7 |
| PAR5 | 50.34 | 14.2 | 14.2 | 2583 | 1701 | 5.5 | 8.3 | -26 | 26 | 2080.8 | 368.3 | -62.8 | 375.7 | -152.0 |
| PAR6 | 60.01 | 14.4 | 14.4 | 2583 | 1701 | 5.6 | 8.5 | -26 | 26 | 2066.4 | 353.8 | -59.3 | 355.6 | -151.3 |
| PAR7 | 69.68 | 14.7 | 14.7 | 2583 | 1701 | 5.7 | 8.6 | -26 | 26 | 2051.7 | 339.1 | -56.0 | 335.7 | -150.5 |
| PAR8 | 79.35 | 15.0 | 15.0 | 2583 | 1701 | 5.8 | 8.8 | -26 | 26 | 2036.7 | 324.2 | -52.8 | 315.9 | -149.7 |
| CLUB | 89.02 | 15.4 | 15.2 | 2583 | 1700 | 5.9 | 9.0 | -26 | 26 | 2021.3 | 308.9 | -49.7 | 296.3 | -148.9 |
| CLUB | 101.02 | 96.4 | 10.1 | 2945 | 1733 | 32.7 | 5.8 | -5 | 51 | 1924.9 | 298.8 | -46.1 | 272.6 | -144.0 |
| H011 | 115.02 | 110.7 | 11.7 | 3443 | 2029 | 32.1 | 5.8 | -6 | 58 | 1814.3 | 287.1 | -42.0 | 246.5 | -137.5 |
| H012 | 124.69 | 68.1 | 4.9 | 2368 | 1391 | 28.8 | 3.5 | -5 | 67 | 1746.2 | 282.2 | -39.2 | 229.3 | -132.9 |
| H013 | 134.36 | 60.2 | 6.6 | 2323 | 1347 | 25.9 | 4.9 | -9 | 78 | 1686.0 | 275.6 | -36.5 | 212.7 | -128.2 |
| H014 | 144.03 | 65.5 | 5.5 | 2264 | 1287 | 28.9 | 4.3 | -6 | 70 | 1620.5 | 270.0 | -33.9 | 196.7 | -123.6 |
| H015 | 153.70 | 69.1 | 6.2 | 2253 | 1276 | 30.7 | 4.8 | -6 | 67 | 1551.4 | 263.9 | -31.3 | 181.3 | -118.9 |
| H016 | 163.37 | 67.5 | 7.4 | 2253 | 1276 | 30.0 | 5.8 | -7 | 68 | 1483.9 | 256.5 | -28.8 | 166.7 | -114.3 |
| OF17 | 177.37 | 95.0 | 12.8 | 3261 | 1847 | 29.1 | 6.9 | -9 | 70 | 1388.9 | 243.7 | -25.3 | 146.6 | -107.6 |
| OF18 | 189.37 | 78.8 | 13.0 | 2795 | 1583 | 28.2 | 8.2 | -12 | 71 | 1310.2 | 230.7 | -22.4 | 130.4 | -101.8 |
| OF19 | 201.37 | 78.6 | 13.4 | 2795 | 1583 | 28.1 | 8.5 | -12 | 72 | 1231.6 | 217.3 | -19.8 | 115.1 | -96.0 |
| OF20 | 213.37 | 78.5 | 13.7 | 2795 | 1583 | 28.1 | 8.7 | -13 | 73 | 1153.1 | 203.5 | -17.2 | 100.8 | -90.1 |
| OF21 | 225.37 | 78.5 | 14.1 | 2795 | 1583 | 28.1 | 8.9 | -13 | 74 | 1074.6 | 189.5 | -14.9 | 87.4 | -84.1 |
| OF22 | 237.37 | 78.5 | 14.4 | 2795 | 1583 | 28.1 | 9.1 | -14 | 74 | 996.1 | 175.1 | -12.7 | 75.0 | -78.1 |
| OF23 | 249.37 | 78.7 | 14.6 | 2795 | 1583 | 28.1 | 9.2 | -14 | 75 | 917.4 | 160.5 | -10.7 | 63.5 | -72.0 |
| OF24 | 261.37 | 79.2 | 14.7 | 2795 | 1583 | 28.3 | 9.3 | -14 | 75 | 838.2 | 145.8 | -8.8 | 53.0 | -65.9 |
| OF25 | 273.37 | 79.7 | 14.8 | 2795 | 1583 | 28.5 | 9.3 | -14 | 74 | 758.6 | 131.0 | -7.2 | 43.4 | -59.8 |
| | | 80.2 | 14.9 | 2795 | 1583 | 28.7 | 9.4 | -14 | 74 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 678.4 | 116.1 | -5.7 | 34.8 | -53.6 |
| | | 80.6 | 14.9 | 2795 | 1583 | 28.8 | 9.4 | -14 | 74 | | | | | |
| OF27 | 297.37 | | | | | | | | | 597.8 | 101.2 | -4.4 | 27.1 | -47.5 |
| | | 80.9 | 14.8 | 2795 | 1583 | 28.9 | 9.3 | -13 | 74 | | | | | |
| OF28 | 309.37 | | | | | | | | | 516.9 | 86.4 | -3.3 | 20.5 | -41.3 |
| | | 81.2 | 14.7 | 2795 | 1583 | 29.1 | 9.3 | -13 | 73 | | | | | |
| OF29 | 321.37 | | | | | | | | | 435.7 | 71.7 | -2.3 | 14.7 | -35.2 |
| | | 81.5 | 14.6 | 2795 | 1583 | 29.2 | 9.2 | -13 | 73 | | | | | |
| OF30 | 333.37 | | | | | | | | | 354.1 | 57.2 | -1.5 | 10.0 | -29.1 |
| | | 81.0 | 14.4 | 2795 | 1583 | 29.0 | 9.1 | -13 | 73 | | | | | |
| OF31 | 345.37 | | | | | | | | | 273.1 | 42.7 | -.9 | 6.2 | -23.0 |
| | | 78.3 | 13.7 | 2795 | 1583 | 28.0 | 8.7 | -13 | 75 | | | | | |
| OF32 | 357.37 | | | | | | | | | 194.8 | 29.0 | -.5 | 3.4 | -17.0 |
| | | 73.5 | 10.8 | 2795 | 1583 | 26.3 | 6.8 | -12 | 80 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 121.3 | 18.2 | -.2 | 1.5 | -11.0 |
| | | 78.7 | 11.9 | 3261 | 1847 | 24.1 | 6.5 | -13 | 85 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 42.6 | 6.3 | -.1 | .4 | -4.1 |
| | | 42.6 | 6.3 | 2985 | 1355 | 14.3 | 4.6 | -14 | 95 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 250 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1600.0 | 26.8 | 11.3 | 359.9 | -141.1 |
| PAR2 | 21.33 | 21.8 | 21.8 | 5698 | 3751 | 3.8 | 5.8 | -25 | 25 | 1578.2 | 5.0 | 11.6 | 326.0 | -140.0 |
| PAR3 | 31.00 | 10.4 | 10.4 | 2583 | 1701 | 4.0 | 6.1 | -26 | 26 | 1567.9 | -5.4 | 11.6 | 310.8 | -139.5 |
| PAR4 | 40.67 | 10.6 | 10.6 | 2583 | 1701 | 4.1 | 6.3 | -26 | 26 | 1557.2 | -16.0 | 11.5 | 295.7 | -138.9 |
| PAR5 | 50.34 | 10.9 | 10.9 | 2583 | 1701 | 4.2 | 6.4 | -26 | 26 | 1546.3 | -26.9 | 11.3 | 280.7 | -138.4 |
| PAR6 | 60.01 | 11.2 | 11.2 | 2583 | 1701 | 4.4 | 6.6 | -26 | 26 | 1535.1 | -38.2 | 11.0 | 265.8 | -137.8 |
| PAR7 | 69.68 | 11.5 | 11.5 | 2583 | 1701 | 4.5 | 6.8 | -26 | 26 | 1523.5 | -49.7 | 10.6 | 251.0 | -137.2 |
| PAR8 | 79.35 | 11.8 | 11.8 | 2583 | 1701 | 4.6 | 7.0 | -26 | 26 | 1511.7 | -61.6 | 10.0 | 236.3 | -136.6 |
| CLUB | 89.02 | 12.2 | 12.1 | 2583 | 1700 | 4.7 | 7.1 | -26 | 26 | 1499.5 | -73.7 | 9.4 | 221.8 | -135.9 |
| CLUB | 101.02 | 75.5 | 1.3 | 2945 | 1733 | 25.6 | .7 | -1 | 52 | 1424.0 | -75.0 | 8.5 | 204.2 | -132.0 |
| H011 | 115.02 | 84.5 | -2.3 | 3443 | 2029 | 24.5 | -1.1 | 2 | 64 | 1339.5 | -72.7 | 7.4 | 184.9 | -126.6 |
| H012 | 124.69 | 47.5 | -6.5 | 2368 | 1391 | 20.0 | -4.7 | 12 | 84 | 1292.1 | -66.2 | 6.8 | 172.2 | -122.6 |
| H013 | 134.36 | 38.4 | -6.2 | 2323 | 1347 | 16.5 | -4.6 | 18 | 112 | 1253.7 | -60.0 | 6.2 | 159.8 | -118.2 |
| H014 | 144.03 | 46.4 | -6.6 | 2264 | 1287 | 20.5 | -5.1 | 13 | 90 | 1207.3 | -53.4 | 5.6 | 147.9 | -113.9 |
| H015 | 153.70 | 51.2 | -6.1 | 2253 | 1276 | 22.7 | -4.8 | 10 | 81 | 1156.1 | -47.3 | 5.1 | 136.5 | -109.7 |
| H016 | 163.37 | 49.6 | -5.1 | 2253 | 1276 | 22.0 | -4.0 | 9 | 84 | 1106.5 | -42.2 | 4.7 | 125.6 | -105.5 |
| OF17 | 177.37 | 68.9 | -5.6 | 3261 | 1847 | 21.1 | -3.0 | 7 | 88 | 1037.6 | -36.7 | 4.1 | 110.6 | -99.4 |
| OF18 | 189.37 | 56.3 | -3.1 | 2795 | 1583 | 20.1 | -1.9 | 5 | 92 | 981.3 | -33.6 | 3.7 | 98.5 | -94.2 |
| OF19 | 201.37 | 56.7 | -2.6 | 2795 | 1583 | 20.3 | -1.7 | 4 | 93 | 924.7 | -30.9 | 3.3 | 87.0 | -88.9 |
| OF20 | 213.37 | 57.3 | -2.3 | 2795 | 1583 | 20.5 | -1.4 | 4 | 93 | 867.4 | -28.7 | 3.0 | 76.3 | -83.5 |
| OF21 | 225.37 | 58.0 | -1.9 | 2795 | 1583 | 20.7 | -1.2 | 3 | 94 | 809.4 | -26.8 | 2.6 | 66.2 | -78.1 |
| OF22 | 237.37 | 58.6 | -1.5 | 2795 | 1583 | 21.0 | -1.0 | 2 | 94 | 750.8 | -25.2 | 2.3 | 56.8 | -72.6 |
| OF23 | 249.37 | 59.2 | -1.3 | 2795 | 1583 | 21.2 | -.8 | 2 | 94 | 691.6 | -23.9 | 2.0 | 48.2 | -67.0 |
| OF24 | 261.37 | 59.7 | -1.2 | 2795 | 1583 | 21.3 | -.8 | 2 | 94 | 632.0 | -22.7 | 1.7 | 40.3 | -61.4 |
| OF25 | 273.37 | 60.1 | -1.1 | 2795 | 1583 | 21.5 | -.7 | 2 | 94 | 571.8 | -21.6 | 1.5 | 33.0 | -55.8 |
| | | 60.6 | -1.1 | 2795 | 1583 | 21.7 | -.7 | 2 | 94 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 250 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 511.2 | -20.5 | 1.2 | 26.5 | -50.1 |
| | | 60.9 | -1.2 | 2795 | 1583 | 21.8 | -.7 | 2 | 94 | | | | | |
| OF27 | 297.37 | | | | | | | | | 450.2 | -19.3 | 1.0 | 20.8 | -44.4 |
| | | 61.0 | -1.5 | 2795 | 1583 | 21.8 | -.9 | 2 | 93 | | | | | |
| OF28 | 309.37 | | | | | | | | | 389.3 | -17.8 | .8 | 15.7 | -38.7 |
| | | 61.0 | -1.8 | 2795 | 1583 | 21.8 | -1.2 | 3 | 93 | | | | | |
| OF29 | 321.37 | | | | | | | | | 328.3 | -16.0 | .6 | 11.4 | -33.0 |
| | | 61.0 | -2.2 | 2795 | 1583 | 21.8 | -1.4 | 3 | 92 | | | | | |
| OF30 | 333.37 | | | | | | | | | 267.3 | -13.8 | .4 | 7.8 | -27.4 |
| | | 60.0 | -2.4 | 2795 | 1583 | 21.5 | -1.5 | 4 | 93 | | | | | |
| OF31 | 345.37 | | | | | | | | | 207.2 | -11.4 | .2 | 5.0 | -21.8 |
| | | 56.4 | -3.1 | 2795 | 1583 | 20.2 | -2.0 | 5 | 98 | | | | | |
| OF32 | 357.37 | | | | | | | | | 150.8 | -8.3 | .1 | 2.9 | -16.2 |
| | | 52.3 | -4.3 | 2795 | 1583 | 18.7 | -2.7 | 9 | 106 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 98.6 | -4.0 | .0 | 1.4 | -10.6 |
| | | 57.0 | -3.0 | 3261 | 1847 | 17.5 | -1.6 | 6 | 112 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 41.6 | -1.0 | .0 | .4 | -4.2 |
| | | 41.6 | -1.0 | 2985 | 1355 | 13.9 | -.7 | 2 | 101 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1484.0 | -179.6 | 61.2 | 338.0 | -114.5 |
| | | 18.1 | 18.1 | 5698 | 3751 | 3.2 | 4.8 | -25 | 25 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 1465.9 | -197.7 | 57.2 | 306.5 | -113.6 |
| | | 8.9 | 8.9 | 2583 | 1701 | 3.4 | 5.2 | -25 | 25 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 1457.1 | -206.5 | 55.2 | 292.4 | -113.1 |
| | | 9.3 | 9.3 | 2583 | 1701 | 3.6 | 5.5 | -26 | 26 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 1447.8 | -215.8 | 53.2 | 278.4 | -112.6 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.8 | 5.7 | -26 | 26 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 1438.0 | -225.5 | 51.1 | 264.4 | -112.1 |
| | | 10.1 | 10.1 | 2583 | 1701 | 3.9 | 6.0 | -26 | 26 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 1427.9 | -235.7 | 48.8 | 250.6 | -111.6 |
| | | 10.6 | 10.6 | 2583 | 1701 | 4.1 | 6.2 | -26 | 26 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 1417.4 | -246.2 | 46.5 | 236.8 | -111.0 |
| | | 11.0 | 11.0 | 2583 | 1701 | 4.3 | 6.5 | -26 | 26 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 1406.4 | -257.2 | 44.1 | 223.1 | -110.5 |
| | | 11.5 | 11.4 | 2583 | 1700 | 4.4 | 6.7 | -26 | 26 | | | | | |
| CLUB | 89.02 | | | | | | | | | 1394.9 | -268.6 | 41.5 | 209.6 | -109.9 |
| | | 66.6 | -4.6 | 2945 | 1733 | 22.6 | -2.7 | 3 | 48 | | | | | |
| CLUB | 101.02 | | | | | | | | | 1328.3 | -264.0 | 38.3 | 193.3 | -106.6 |
| | | 74.8 | -9.1 | 3443 | 2029 | 21.7 | -4.5 | 7 | 60 | | | | | |
| H011 | 115.02 | | | | | | | | | 1253.5 | -254.8 | 34.7 | 175.2 | -102.1 |
| | | 41.3 | -10.7 | 2368 | 1391 | 17.4 | -7.7 | 21 | 79 | | | | | |
| H012 | 124.69 | | | | | | | | | 1212.3 | -244.2 | 32.3 | 163.3 | -98.6 |
| | | 33.3 | -9.5 | 2323 | 1347 | 14.3 | -7.1 | 31 | 109 | | | | | |
| H013 | 134.36 | | | | | | | | | 1179.0 | -234.6 | 30.0 | 151.7 | -94.6 |
| | | 41.6 | -11.1 | 2264 | 1287 | 18.4 | -8.6 | 22 | 82 | | | | | |
| H014 | 144.03 | | | | | | | | | 1137.4 | -223.5 | 27.8 | 140.5 | -91.0 |
| | | 46.9 | -10.8 | 2253 | 1276 | 20.8 | -8.5 | 17 | 72 | | | | | |
| H015 | 153.70 | | | | | | | | | 1090.6 | -212.7 | 25.7 | 129.7 | -87.4 |
| | | 45.5 | -9.9 | 2253 | 1276 | 20.2 | -7.8 | 16 | 74 | | | | | |
| H016 | 163.37 | | | | | | | | | 1045.1 | -202.7 | 23.6 | 119.4 | -83.9 |
| | | 63.3 | -12.8 | 3261 | 1847 | 19.4 | -6.9 | 15 | 76 | | | | | |
| OF17 | 177.37 | | | | | | | | | 981.8 | -189.9 | 20.9 | 105.2 | -78.9 |
| | | 51.9 | -9.5 | 2795 | 1583 | 18.6 | -6.0 | 14 | 79 | | | | | |
| OF18 | 189.37 | | | | | | | | | 929.9 | -180.5 | 18.7 | 93.7 | -74.6 |
| | | 52.6 | -9.5 | 2795 | 1583 | 18.8 | -6.0 | 14 | 78 | | | | | |
| OF19 | 201.37 | | | | | | | | | 877.3 | -171.0 | 16.6 | 82.9 | -70.4 |
| | | 53.6 | -9.7 | 2795 | 1583 | 19.2 | -6.1 | 14 | 77 | | | | | |
| OF20 | 213.37 | | | | | | | | | 823.7 | -161.3 | 14 6 | 72.7 | -66.1 |
| | | 54.6 | -9.8 | 2795 | 1583 | 19.5 | -6.2 | 14 | 76 | | | | | |
| OF21 | 225.37 | | | | | | | | | 769.1 | -151.5 | 12.7 | 63.1 | -61.8 |
| | | 55.5 | -10.0 | 2795 | 1583 | 19.9 | -6.3 | 14 | 75 | | | | | |
| OF22 | 237.37 | | | | | | | | | 713.6 | -141.5 | 10.9 | 54.2 | -57.5 |
| | | 56.3 | -10.2 | 2795 | 1583 | 20.1 | -6.5 | 14 | 75 | | | | | |
| OF23 | 249.37 | | | | | | | | | 657.3 | -131.3 | 9.3 | 46.0 | -53.2 |
| | | 56.7 | -10.5 | 2795 | 1583 | 20.3 | -6.6 | 14 | 74 | | | | | |
| OF24 | 261.37 | | | | | | | | | 600.6 | -120.7 | 7.8 | 38.5 | -48.8 |
| | | 57.1 | -10.8 | 2795 | 1583 | 20.4 | -6.8 | 14 | 74 | | | | | |
| OF25 | 273.37 | | | | | | | | | 543.5 | -109.9 | 6.4 | 31.6 | -44.5 |
| | | 57.5 | -11.1 | 2795 | 1583 | 20.6 | -7.0 | 14 | 73 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 486.0 | -98.8 | 5.2 | 25.4 | -40.1 |
| | | 57.8 | -11.4 | 2795 | 1583 | 20.7 | -7.2 | 14 | 73 | | | | | |
| OF27 | 297.37 | | | | | | | | | 428.2 | -87.4 | 4.0 | 19.9 | -35.7 |
| | | 57.9 | -11.4 | 2795 | 1583 | 20.7 | -7.2 | 14 | 73 | | | | | |
| OF28 | 309.37 | | | | | | | | | 370.3 | -75.9 | 3.1 | 15.2 | -31.3 |
| | | 57.9 | -11.5 | 2795 | 1583 | 20.7 | -7.3 | 14 | 73 | | | | | |
| OF29 | 321.37 | | | | | | | | | 312.4 | -64.4 | 2.2 | 11.1 | -27.0 |
| | | 58.0 | -11.6 | 2795 | 1583 | 20.8 | -7.3 | 14 | 73 | | | | | |
| OF30 | 333.37 | | | | | | | | | 254.4 | -52.8 | 1.5 | 7.7 | -22.6 |
| | | 56.6 | -11.5 | 2795 | 1583 | 20.3 | -7.3 | 15 | 74 | | | | | |
| OF31 | 345.37 | | | | | | | | | 197.7 | -41.4 | .9 | 4.9 | -18.2 |
| | | 52.1 | -11.4 | 2795 | 1583 | 18.6 | -7.2 | 18 | 81 | | | | | |
| OF32 | 357.37 | | | | | | | | | 145.6 | -29.9 | .5 | 2.9 | -13.8 |
| | | 47.2 | -11.8 | 2795 | 1583 | 16.9 | -7.4 | 22 | 90 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 98.4 | -18.2 | .2 | 1.4 | -9.3 |
| | | 52.6 | -11.8 | 3261 | 1847 | 16.1 | -6.4 | 22 | 96 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 45.7 | -6.4 | .1 | .4 | -3.9 |
| | | 45.7 | -6.4 | 2985 | 1355 | 15.3 | -4.7 | 12 | 84 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 270 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1504.1 | -302.7 | 92.0 | 347.1 | -90.6 |
| | | 15.7 | 15.7 | 5698 | 3751 | 2.8 | 4.2 | -25 | 25 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 1488.4 | -318.4 | 85.4 | 315.2 | -89.9 |
| | | 8.0 | 8.0 | 2583 | 1701 | 3.1 | 4.7 | -25 | 25 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 1480.3 | -326.5 | 82.3 | 300.9 | -89.5 |
| | | 8.6 | 8.6 | 2583 | 1701 | 3.3 | 5.0 | -25 | 25 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 1471.8 | -335.0 | 79.1 | 286.6 | -89.0 |
| | | 9.1 | 9.1 | 2583 | 1701 | 3.5 | 5.4 | -25 | 25 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 1462.7 | -344.1 | 75.8 | 272.4 | -88.6 |
| | | 9.7 | 9.7 | 2583 | 1701 | 3.7 | 5.7 | -26 | 26 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 1453.0 | -353.8 | 72.4 | 258.3 | -88.1 |
| | | 10.2 | 10.2 | 2583 | 1701 | 4.0 | 6.0 | -26 | 26 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 1442.8 | -364.0 | 69.0 | 244.3 | -87.5 |
| | | 10.8 | 10.8 | 2583 | 1701 | 4.2 | 6.3 | -26 | 26 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 1432.0 | -374.8 | 65.4 | 230.4 | -87.0 |
| | | 11.4 | 11.3 | 2583 | 1700 | 4.4 | 6.6 | -26 | 26 | | | | | |
| CLUB | 89.02 | | | | | | | | | 1420.6 | -386.1 | 61.7 | 216.6 | -86.4 |
| | | 61.7 | -9.6 | 2945 | 1733 | 20.9 | -5.6 | 7 | 46 | | | | | |
| CLUB | 101.02 | | | | | | | | | 1358.9 | -376.5 | 57.1 | 199.9 | -83.5 |
| | | 71.6 | -13.6 | 3443 | 2029 | 20.8 | -6.7 | 10 | 55 | | | | | |
| H011 | 115.02 | | | | | | | | | 1287.3 | -362.8 | 52.0 | 181.4 | -79.4 |
| | | 39.8 | -12.8 | 2368 | 1391 | 16.8 | -9.2 | 21 | 67 | | | | | |
| H012 | 124.69 | | | | | | | | | 1247.6 | -350.0 | 48.5 | 169.2 | -76.5 |
| | | 32.9 | -10.7 | 2323 | 1347 | 14.2 | -7.9 | 29 | 89 | | | | | |
| H013 | 134.36 | | | | | | | | | 1214.7 | -339.3 | 45.2 | 157.3 | -73.2 |
| | | 42.5 | -12.5 | 2264 | 1287 | 18.8 | -9.7 | 19 | 66 | | | | | |
| H014 | 144.03 | | | | | | | | | 1172.2 | -326.8 | 42.0 | 145.7 | -70.2 |
| | | 48.4 | -12.6 | 2253 | 1276 | 21.5 | -9.9 | 15 | 58 | | | | | |
| H015 | 153.70 | | | | | | | | | 1123.8 | -314.1 | 38.9 | 134.6 | -67.2 |
| | | 46.6 | -12.2 | 2253 | 1276 | 20.7 | -9.5 | 15 | 59 | | | | | |
| H016 | 163.37 | | | | | | | | | 1077.2 | -302.0 | 35.9 | 124.0 | -64.3 |
| | | 64.3 | -16.8 | 3261 | 1847 | 19.7 | -9.1 | 15 | 59 | | | | | |
| OF17 | 177.37 | | | | | | | | | 1012.9 | -285.2 | 31.8 | 109.3 | -60.2 |
| | | 52.1 | -13.6 | 2795 | 1583 | 18.6 | -8.6 | 16 | 60 | | | | | |
| OF18 | 189.37 | | | | | | | | | 960.8 | -271.5 | 28.4 | 97.5 | -56.9 |
| | | 53.1 | -13.8 | 2795 | 1583 | 19.0 | -8.7 | 15 | 59 | | | | | |
| OF19 | 201.37 | | | | | | | | | 907.7 | -257.7 | 25.3 | 86.3 | -53.5 |
| | | 54.4 | -14.1 | 2795 | 1583 | 19.5 | -8.9 | 15 | 57 | | | | | |
| OF20 | 213.37 | | | | | | | | | 853.3 | -243.6 | 22.2 | 75.7 | -50.2 |
| | | 55.7 | -14.4 | 2795 | 1583 | 19.9 | -9.1 | 14 | 56 | | | | | |
| OF21 | 225.37 | | | | | | | | | 797.6 | -229.2 | 19.4 | 65.8 | -46.9 |
| | | 57.0 | -14.7 | 2795 | 1583 | 20.4 | -9.3 | 14 | 55 | | | | | |
| OF22 | 237.37 | | | | | | | | | 740.6 | -214.5 | 16.7 | 56.6 | -43.5 |
| | | 58.0 | -15.0 | 2795 | 1583 | 20.7 | -9.5 | 14 | 54 | | | | | |
| OF23 | 249.37 | | | | | | | | | 682.6 | -199.5 | 14.3 | 48.1 | -40.2 |
| | | 58.4 | -15.5 | 2795 | 1583 | 20.9 | -9.8 | 14 | 53 | | | | | |
| OF24 | 261.37 | | | | | | | | | 624.1 | -184.0 | 12.0 | 40.2 | -36.9 |
| | | 58.9 | -16.0 | 2795 | 1583 | 21.1 | -10.1 | 14 | 52 | | | | | |
| OF25 | 273.37 | | | | | | | | | 565.2 | -168.0 | 9.9 | 33.1 | -33.6 |
| | | 59.4 | -16.5 | 2795 | 1583 | 21.2 | -10.4 | 14 | 52 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 270 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 505.9 | -151.5 | 7.9 | 26.6 | -30.3 |
| | | 59.7 | -16.9 | 2795 | 1583 | 21.4 | -10.7 | 14 | 51 | | | | | |
| OF27 | 297.37 | | | | | | | | | 446.2 | -134.6 | 6.2 | 20.9 | -27.0 |
| | | 59.9 | -17.3 | 2795 | 1583 | 21.4 | -10.9 | 15 | 50 | | | | | |
| OF28 | 309.37 | | | | | | | | | 386.2 | -117.3 | 4.7 | 15.9 | -23.7 |
| | | 60.1 | -17.6 | 2795 | 1583 | 21.5 | -11.1 | 15 | 50 | | | | | |
| OF29 | 321.37 | | | | | | | | | 326.1 | -99.7 | 3.4 | 11.7 | -20.5 |
| | | 60.3 | -18.0 | 2795 | 1583 | 21.6 | -11.4 | 15 | 49 | | | | | |
| OF30 | 333.37 | | | | | | | | | 265.8 | -81.7 | 2.3 | 8.1 | -17.2 |
| | | 59.0 | -17.9 | 2795 | 1583 | 21.1 | -11.3 | 15 | 50 | | | | | |
| OF31 | 345.37 | | | | | | | | | 206.8 | -63.8 | 1.4 | 5.3 | -14.0 |
| | | 52.8 | -18.6 | 2795 | 1583 | 18.9 | -11.8 | 19 | 53 | | | | | |
| OF32 | 357.37 | | | | | | | | | 154.0 | -45.2 | .8 | 3.1 | -10.8 |
| | | 47.9 | -18.2 | 2795 | 1583 | 17.1 | -11.5 | 23 | 60 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 106.2 | -26.9 | .4 | 1.6 | -7.5 |
| | | 55.6 | -16.4 | 3261 | 1847 | 17.0 | -8.9 | 20 | 68 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 50.6 | -10.5 | .1 | .5 | -3.4 |
| | | 50.6 | -10.5 | 2985 | 1355 | 17.0 | -7.8 | 13 | 64 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1418.4 | -369.4 | 107.9 | 322.5 | -74.1 |
| | | 17.1 | 17.1 | 5698 | 3751 | 3.0 | 4.6 | -25 | 25 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 1401.3 | -386.4 | 99.8 | 292.4 | -73.2 |
| | | 8.7 | 8.7 | 2583 | 1701 | 3.4 | 5.1 | -26 | 26 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 1392.6 | -395.2 | 96.0 | 278.9 | -72.8 |
| | | 9.3 | 9.3 | 2583 | 1701 | 3.6 | 5.5 | -26 | 26 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 1383.3 | -404.5 | 92.2 | 265.5 | -72.3 |
| | | 9.9 | 9.9 | 2583 | 1701 | 3.8 | 5.8 | -27 | 27 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 1373.4 | -414.4 | 88.2 | 252.2 | -71.8 |
| | | 10.5 | 10.5 | 2583 | 1701 | 4.1 | 6.2 | -27 | 27 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 1362.9 | -424.9 | 84.2 | 238.9 | -71.2 |
| | | 11.1 | 11.1 | 2583 | 1701 | 4.3 | 6.5 | -27 | 27 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 1351.8 | -436.0 | 80.0 | 225.8 | -70.6 |
| | | 11.7 | 11.7 | 2583 | 1701 | 4.5 | 6.9 | -27 | 27 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 1340.1 | -447.7 | 75.7 | 212.8 | -70.0 |
| | | 12.3 | 12.3 | 2583 | 1700 | 4.8 | 7.2 | -28 | 28 | | | | | |
| CLUB | 89.02 | | | | | | | | | 1327.7 | -460.0 | 71.3 | 199.9 | -69.3 |
| | | 56.0 | -15.7 | 2945 | 1733 | 19.0 | -9.1 | 13 | 45 | | | | | |
| CLUB | 101.02 | | | | | | | | | 1271.8 | -444.2 | 65.9 | 184.3 | -66.6 |
| | | 67.9 | -20.2 | 3443 | 2029 | 19.7 | -10.0 | 15 | 49 | | | | | |
| HO11 | 115.02 | | | | | | | | | 1203.8 | -424.0 | 59.8 | 167.0 | -62.9 |
| | | 38.8 | -17.7 | 2368 | 1391 | 16.4 | -12.7 | 23 | 51 | | | | | |
| HO12 | 124.69 | | | | | | | | | 1165.0 | -406.3 | 55.8 | 155.5 | -60.5 |
| | | 33.2 | -15.5 | 2323 | 1347 | 14.3 | -11.5 | 29 | 62 | | | | | |
| HO13 | 134.36 | | | | | | | | | 1131.8 | -390.9 | 52.0 | 144.4 | -58.0 |
| | | 42.2 | -15.3 | 2264 | 1287 | 18.6 | -11.9 | 19 | 52 | | | | | |
| HO14 | 144.03 | | | | | | | | | 1089.6 | -375.5 | 48.3 | 133.7 | -55.6 |
| | | 47.2 | -14.8 | 2253 | 1276 | 20.9 | -11.6 | 15 | 49 | | | | | |
| HO15 | 153.70 | | | | | | | | | 1042.5 | -360.7 | 44.7 | 123.4 | -53.0 |
| | | 45.2 | -14.1 | 2253 | 1276 | 20.1 | -11.1 | 16 | 50 | | | | | |
| HO16 | 163.37 | | | | | | | | | 997.3 | -346.6 | 41.3 | 113.5 | -50.6 |
| | | 61.9 | -19.2 | 3261 | 1847 | 19.0 | -10.4 | 16 | 51 | | | | | |
| OF17 | 177.37 | | | | | | | | | 935.4 | -327.4 | 36.6 | 100.0 | -47.1 |
| | | 49.8 | -15.3 | 2795 | 1583 | 17.8 | -9.7 | 16 | 53 | | | | | |
| OF18 | 189.37 | | | | | | | | | 885.6 | -312.1 | 32.7 | 89.0 | -44.2 |
| | | 50.5 | -15.6 | 2795 | 1583 | 18.1 | -9.8 | 16 | 52 | | | | | |
| OF19 | 201.37 | | | | | | | | | 835.1 | -296.5 | 29.1 | 78.7 | -41.3 |
| | | 51.5 | -16.0 | 2795 | 1583 | 18.4 | -10.1 | 16 | 50 | | | | | |
| OF20 | 213.37 | | | | | | | | | 783.6 | -280.5 | 25.6 | 69.0 | -38.5 |
| | | 52.5 | -16.4 | 2795 | 1583 | 18.8 | -10.3 | 15 | 49 | | | | | |
| OF21 | 225.37 | | | | | | | | | 731.1 | -264.2 | 22.3 | 59.9 | -35.6 |
| | | 53.5 | -16.8 | 2795 | 1583 | 19.1 | -10.6 | 15 | 48 | | | | | |
| OF22 | 237.37 | | | | | | | | | 677.7 | -247.4 | 19.3 | 51.5 | -32.8 |
| | | 54.1 | -17.3 | 2795 | 1583 | 19.4 | -10.9 | 15 | 46 | | | | | |
| OF23 | 249.37 | | | | | | | | | 623.5 | -230.1 | 16.4 | 43.7 | -30.1 |
| | | 54.4 | -17.9 | 2795 | 1583 | 19.5 | -11.3 | 15 | 45 | | | | | |
| OF24 | 261.37 | | | | | | | | | 569.1 | -212.2 | 13.7 | 36.5 | -27.4 |
| | | 54.7 | -18.6 | 2795 | 1583 | 19.6 | -11.7 | 15 | 43 | | | | | |
| OF25 | 273.37 | | | | | | | | | 514.4 | -193.6 | 11.3 | 30.0 | -24.8 |
| | | 55.0 | -19.2 | 2795 | 1583 | 19.7 | -12.2 | 14 | 41 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 459.4 | -174.3 | 9.1 | 24.2 | -22.2 |
| | | 55.0 | -19.8 | 2795 | 1583 | 19.7 | -12.5 | 14 | 40 | | | | | |
| OF27 | 297.37 | | | | | | | | | 404.4 | -154.6 | 7.1 | 19.0 | -19.7 |
| | | 54.7 | -20.0 | 2795 | 1583 | 19.6 | -12.7 | 15 | 40 | | | | | |
| OF28 | 309.37 | | | | | | | | | 349.7 | -134.5 | 5.4 | 14.5 | -17.3 |
| | | 54.4 | -20.3 | 2795 | 1583 | 19.5 | -12.8 | 15 | 39 | | | | | |
| OF29 | 321.37 | | | | | | | | | 295.2 | -114.2 | 3.9 | 10.6 | -14.8 |
| | | 54.1 | -20.6 | 2795 | 1583 | 19.4 | -13.0 | 15 | 39 | | | | | |
| OF30 | 333.37 | | | | | | | | | 241.1 | -93.6 | 2.7 | 7.4 | -12.4 |
| | | 52.9 | -20.3 | 2795 | 1583 | 18.9 | -12.9 | 15 | 39 | | | | | |
| OF31 | 345.37 | | | | | | | | | 188.2 | -73.3 | 1.7 | 4.8 | -10.0 |
| | | 47.4 | -21.5 | 2795 | 1583 | 17.0 | -13.6 | 17 | 38 | | | | | |
| OF32 | 357.37 | | | | | | | | | 140.7 | -51.7 | .9 | 2.8 | -7.9 |
| | | 43.8 | -20.8 | 2795 | 1583 | 15.7 | -13.2 | 19 | 40 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 97.0 | -30.9 | .4 | 1.4 | -5.7 |
| | | 52.1 | -18.9 | 3261 | 1847 | 16.0 | -10.2 | 18 | 51 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 44.9 | -12.0 | .1 | .4 | -2.7 |
| | | 44.9 | -12.0 | 2985 | 1355 | 15.1 | -8.9 | 15 | 57 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 290 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 1314.1 | -142.8 | 57.0 | 318.0 | -82.5 |
| | | 12.3 | 12.3 | 5698 | 3751 | 2.2 | 3.3 | -26 | 26 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 1301.8 | -155.2 | 53.9 | 290.1 | -81.9 |
| | | 5.8 | 5.8 | 2583 | 1701 | 2.2 | 3.4 | -26 | 26 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 1296.0 | -161.0 | 52.3 | 277.6 | -81.6 |
| | | 5.9 | 5.9 | 2583 | 1701 | 2.3 | 3.5 | -26 | 26 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 1290.1 | -166.9 | 50.8 | 265.1 | -81.3 |
| | | 6.1 | 6.1 | 2583 | 1701 | 2.4 | 3.6 | -25 | 25 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 1284.0 | -173.0 | 49.1 | 252.6 | -80.9 |
| | | 6.2 | 6.2 | 2583 | 1701 | 2.4 | 3.6 | -25 | 25 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 1277.8 | -179.2 | 47.4 | 240.2 | -80.6 |
| | | 6.3 | 6.3 | 2583 | 1701 | 2.5 | 3.7 | -25 | 25 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 1271.4 | -185.5 | 45.6 | 227.9 | -80.3 |
| | | 6.5 | 6.5 | 2583 | 1701 | 2.5 | 3.8 | -25 | 25 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 1265.0 | -192.0 | 43.8 | 215.6 | -80.0 |
| | | 6.6 | 6.6 | 2583 | 1700 | 2.6 | 3.9 | -25 | 26 | | | | | |
| CLUB | 89.02 | | | | | | | | | 1258.3 | -198.6 | 41.9 | 203.4 | -79.6 |
| | | 40.2 | .1 | 2945 | 1733 | 13.6 | .1 | -0 | 75 | | | | | |
| CLUB | 101.02 | | | | | | | | | 1218.1 | -198.7 | 39.5 | 188.6 | -76.6 |
| | | 46.8 | -3.8 | 3443 | 2029 | 13.6 | -1.9 | 7 | 85 | | | | | |
| HO11 | 115.02 | | | | | | | | | 1171.3 | -194.9 | 36.8 | 171.9 | -72.6 |
| | | 25.6 | -4.7 | 2368 | 1391 | 10.8 | -3.4 | 20 | 108 | | | | | |
| HO12 | 124.69 | | | | | | | | | 1145.7 | -190.2 | 34.9 | 160.7 | -69.7 |
| | | 19.4 | -5.3 | 2323 | 1347 | 8.3 | -3.9 | 38 | 140 | | | | | |
| HO13 | 134.36 | | | | | | | | | 1126.4 | -184.9 | 33.1 | 149.7 | -66.8 |
| | | 30.5 | -5.6 | 2264 | 1287 | 13.5 | -4.3 | 17 | 95 | | | | | |
| HO14 | 144.03 | | | | | | | | | 1095.9 | -179.4 | 31.4 | 138.9 | -63.8 |
| | | 37.5 | -4.6 | 2253 | 1276 | 16.6 | -3.6 | 10 | 82 | | | | | |
| HO15 | 153.70 | | | | | | | | | 1058.4 | -174.7 | 29.6 | 128.5 | -60.7 |
| | | 37.3 | -3.6 | 2253 | 1276 | 16.6 | -2.8 | 8 | 81 | | | | | |
| HO16 | 163.37 | | | | | | | | | 1021.0 | -171.1 | 28.0 | 118.5 | -57.7 |
| | | 53.8 | -3.4 | 3261 | 1847 | 16.5 | -1.8 | 5 | 81 | | | | | |
| OF17 | 177.37 | | | | | | | | | 967.3 | -167.7 | 25.6 | 104.5 | -53.3 |
| | | 45.8 | -1.1 | 2795 | 1583 | 16.4 | -.7 | 2 | 80 | | | | | |
| OF18 | 189.37 | | | | | | | | | 921.4 | -166.6 | 23.6 | 93.2 | -49.6 |
| | | 47.8 | -1.2 | 2795 | 1583 | 17.1 | -.7 | 2 | 76 | | | | | |
| OF19 | 201.37 | | | | | | | | | 873.6 | -165.4 | 21.6 | 82.4 | -46.0 |
| | | 50.0 | -1.3 | 2795 | 1583 | 17.9 | -.8 | 2 | 73 | | | | | |
| OF20 | 213.37 | | | | | | | | | 823.6 | -164.1 | 19.6 | 72.3 | -42.3 |
| | | 52.2 | -1.5 | 2795 | 1583 | 18.7 | -.9 | 2 | 70 | | | | | |
| OF21 | 225.37 | | | | | | | | | 771.5 | -162.6 | 17.7 | 62.7 | -38.7 |
| | | 54.3 | -1.7 | 2795 | 1583 | 19.4 | -1.1 | 2 | 67 | | | | | |
| OF22 | 237.37 | | | | | | | | | 717.1 | -160.9 | 15.7 | 53.8 | -35.0 |
| | | 56.1 | -2.5 | 2795 | 1583 | 20.1 | -1.6 | 3 | 64 | | | | | |
| OF23 | 249.37 | | | | | | | | | 661.0 | -158.4 | 13.8 | 45.5 | -31.4 |
| | | 57.4 | -4.2 | 2795 | 1583 | 20.5 | -2.7 | 4 | 61 | | | | | |
| OF24 | 261.37 | | | | | | | | | 603.7 | -154.2 | 11.9 | 37.9 | -27.9 |
| | | 58.7 | -6.0 | 2795 | 1583 | 21.0 | -3.8 | 6 | 57 | | | | | |
| OF25 | 273.37 | | | | | | | | | 545.0 | -148.2 | 10.1 | 31.0 | -24.5 |
| | | 59.9 | -7.7 | 2795 | 1583 | 21.4 | -4.9 | 7 | 54 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 290 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 485.0 | -140.5 | 8.4 | 24.8 | -21.2 |
| | | 60.6 | -9.5 | 2795 | 1583 | 21.7 | -6.0 | 8 | 51 | | | | | |
| OF27 | 297.37 | | | | | | | | | 424.5 | -131.0 | 6.8 | 19.4 | -18.0 |
| | | 60.1 | -11.2 | 2795 | 1583 | 21.5 | -7.0 | 9 | 48 | | | | | |
| OF28 | 309.37 | | | | | | | | | 364.4 | -119.8 | 5.2 | 14.6 | -15.1 |
| | | 59.6 | -12.9 | 2795 | 1583 | 21.3 | -8.1 | 10 | 45 | | | | | |
| OF29 | 321.37 | | | | | | | | | 304.8 | -107.0 | 3.9 | 10.6 | -12.3 |
| | | 59.1 | -14.6 | 2795 | 1583 | 21.2 | -9.2 | 10 | 42 | | | | | |
| OF30 | 333.37 | | | | | | | | | 245.7 | -92.4 | 2.7 | 7.3 | -9.6 |
| | | 58.1 | -15.4 | 2795 | 1583 | 20.8 | -9.7 | 10 | 40 | | | | | |
| OF31 | 345.37 | | | | | | | | | 187.5 | -77.1 | 1.7 | 4.7 | -7.1 |
| | | 49.5 | -21.1 | 2795 | 1583 | 17.7 | -13.3 | 13 | 30 | | | | | |
| OF32 | 357.37 | | | | | | | | | 138.0 | -56.0 | .9 | 2.8 | -5.4 |
| | | 41.6 | -26.1 | 2795 | 1583 | 14.9 | -16.5 | 12 | 19 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 96.4 | -29.9 | .4 | 1.4 | -4.3 |
| | | 53.8 | -20.4 | 3261 | 1847 | 16.5 | -11.0 | 12 | 32 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 42.6 | -9.5 | .1 | .4 | -2.4 |
| | | 42.6 | -9.5 | 2985 | 1355 | 14.3 | -7.0 | 12 | 53 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 300 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | 477.0 | -472.1 | 133.1 | 124.6 | -21.5 |
| | | 8.7 | 8.7 | 5698 | 3751 | 1.5 | 2.3 | -28 | 28 | | | | | |
| PAR2 | 21.33 | | | | | | | | | 468.3 | -480.8 | 122.9 | 114.5 | -21.0 |
| | | 4.5 | 4.5 | 2583 | 1701 | 1.7 | 2.6 | -28 | 28 | | | | | |
| PAR3 | 31.00 | | | | | | | | | 463.8 | -485.3 | 118.2 | 110.0 | -20.8 |
| | | 4.8 | 4.8 | 2583 | 1701 | 1.9 | 2.8 | -27 | 27 | | | | | |
| PAR4 | 40.67 | | | | | | | | | 459.0 | -490.1 | 113.5 | 105.5 | -20.5 |
| | | 5.2 | 5.2 | 2583 | 1701 | 2.0 | 3.0 | -27 | 27 | | | | | |
| PAR5 | 50.34 | | | | | | | | | 453.8 | -495.2 | 108.8 | 101.1 | -20.2 |
| | | 5.5 | 5.5 | 2583 | 1701 | 2.1 | 3.2 | -27 | 27 | | | | | |
| PAR6 | 60.01 | | | | | | | | | 448.3 | -500.7 | 103.9 | 96.7 | -19.9 |
| | | 5.8 | 5.8 | 2583 | 1701 | 2.3 | 3.4 | -27 | 27 | | | | | |
| PAR7 | 69.68 | | | | | | | | | 442.5 | -506.6 | 99.1 | 92.4 | -19.6 |
| | | 6.2 | 6.2 | 2583 | 1701 | 2.4 | 3.6 | -27 | 27 | | | | | |
| PAR8 | 79.35 | | | | | | | | | 436.3 | -512.7 | 94.1 | 88.2 | -19.3 |
| | | 6.5 | 6.5 | 2583 | 1700 | 2.5 | 3.8 | -27 | 27 | | | | | |
| CLUB | 89.02 | | | | | | | | | 429.8 | -519.2 | 89.2 | 84.0 | -18.9 |
| | | 9.8 | -12.3 | 2945 | 1733 | 3.3 | -7.1 | 98 | 78 | | | | | |
| CLUB | 101.02 | | | | | | | | | 420.1 | -506.9 | 83.0 | 78.9 | -17.0 |
| | | 11.7 | -17.0 | 3443 | 2029 | 3.4 | -8.4 | 95 | 65 | | | | | |
| HO11 | 115.02 | | | | | | | | | 408.3 | -489.9 | 76.0 | 73.1 | -14.6 |
| | | 4.1 | -16.8 | 2368 | 1391 | 1.7 | -12.1 | 67 | 16 | | | | | |
| HO12 | 124.69 | | | | | | | | | 404.3 | -473.1 | 71.4 | 69.2 | -13.4 |
| | | .5 | -18.0 | 2323 | 1347 | .2 | -13.3 | 44 | 1 | | | | | |
| HO13 | 134.36 | | | | | | | | | 403.8 | -455.1 | 66.9 | 65.2 | -12.6 |
| | | 3.2 | -17.1 | 2264 | 1287 | 1.4 | -13.3 | 37 | 7 | | | | | |
| HO14 | 144.03 | | | | | | | | | 400.6 | -438.0 | 62.6 | 61.4 | -12.0 |
| | | 5.7 | -16.1 | 2253 | 1276 | 2.5 | -12.6 | 37 | 13 | | | | | |
| HO15 | 153.70 | | | | | | | | | 394.9 | -421.9 | 58.4 | 57.5 | -11.3 |
| | | 5.5 | -15.1 | 2253 | 1276 | 2.4 | -11.8 | 39 | 14 | | | | | |
| HO16 | 163.37 | | | | | | | | | 389.4 | -406.9 | 54.4 | 53.7 | -10.6 |
| | | 7.6 | -19.9 | 3261 | 1847 | 2.3 | -10.8 | 42 | 16 | | | | | |
| OF17 | 177.37 | | | | | | | | | 381.8 | -386.9 | 48.8 | 48.3 | -9.7 |
| | | 6.2 | -15.3 | 2795 | 1583 | 2.2 | -9.7 | 45 | 18 | | | | | |
| OF18 | 189.37 | | | | | | | | | 375.6 | -371.6 | 44.3 | 43.8 | -8.9 |
| | | 9.4 | -14.9 | 2795 | 1583 | 3.0 | -9.4 | 44 | 25 | | | | | |
| OF19 | 201.37 | | | | | | | | | 367.2 | -356.8 | 39.9 | 39.3 | -8.0 |
| | | 10.9 | -14.5 | 2795 | 1583 | 3.9 | -9.1 | 41 | 30 | | | | | |
| OF20 | 213.37 | | | | | | | | | 356.3 | -342.3 | 35.7 | 35.0 | -7.1 |
| | | 13.3 | -14.1 | 2795 | 1583 | 4.8 | -8.9 | 37 | 35 | | | | | |
| OF21 | 225.37 | | | | | | | | | 343.0 | -328.2 | 31.7 | 30.8 | -6.1 |
| | | 15.7 | -13.7 | 2795 | 1583 | 5.6 | -8.7 | 33 | 37 | | | | | |
| OF22 | 237.37 | | | | | | | | | 327.3 | -314.4 | 27.8 | 26.8 | -5.1 |
| | | 18.0 | -14.1 | 2795 | 1583 | 6.4 | -8.9 | 28 | 36 | | | | | |
| OF23 | 249.37 | | | | | | | | | 309.3 | -300.3 | 24.2 | 22.9 | -4.0 |
| | | 20.1 | -15.6 | 2795 | 1583 | 7.2 | -9.8 | 23 | 30 | | | | | |
| OF24 | 261.37 | | | | | | | | | 289.2 | -284.7 | 20.6 | 19.4 | -3.1 |
| | | 22.2 | -17.0 | 2795 | 1583 | 7.9 | -10.7 | 19 | 25 | | | | | |
| OF25 | 273.37 | | | | | | | | | 267.0 | -267.7 | 17.3 | 16.0 | -2.2 |
| | | 24.3 | -18.4 | 2795 | 1583 | 8.7 | -11.6 | 16 | 21 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 300 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | 242.7 | -249.3 | 14.2 | 13.0 | -1.4 |
| | | 25.9 | -20.2 | 2795 | 1583 | 9.3 | -12.8 | 13 | 17 | | | | | |
| OF27 | 297.37 | | | | | | | | | 216.8 | -229.1 | 11.4 | 10.2 | -.7 |
| | | 26.9 | -22.5 | 2795 | 1583 | 9.6 | -14.2 | 10 | 11 | | | | | |
| OF28 | 309.37 | | | | | | | | | 189.9 | -206.6 | 8.7 | 7.8 | -.2 |
| | | 27.8 | -24.8 | 2795 | 1583 | 9.9 | -15.7 | 6 | 7 | | | | | |
| OF29 | 321.37 | | | | | | | | | 162.2 | -181.8 | 6.4 | 5.6 | .2 |
| | | 28.7 | -27.1 | 2795 | 1583 | 10.3 | -17.1 | 3 | 3 | | | | | |
| OF30 | 333.37 | | | | | | | | | 133.5 | -154.7 | 4.4 | 3.9 | .4 |
| | | 32.0 | -27.1 | 2795 | 1583 | 11.5 | -17.1 | 4 | 5 | | | | | |
| OF31 | 345.37 | | | | | | | | | 101.5 | -127.6 | 2.7 | 2.5 | .7 |
| | | 28.7 | -34.0 | 2795 | 1583 | 10.3 | -21.5 | -2 | -2 | | | | | |
| OF32 | 357.37 | | | | | | | | | 72.8 | -93.6 | 1.4 | 1.4 | .5 |
| | | 20.6 | -45.7 | 2795 | 1583 | 7.4 | -28.9 | -20 | -9 | | | | | |
| MEC1 | 369.37 | | | | | | | | | 52.2 | -47.9 | .5 | .7 | -.5 |
| | | 33.5 | -35.8 | 3261 | 1847 | 10.3 | -19.4 | -6 | -6 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 18.8 | -12.1 | .1 | .2 | -.9 |
| | | 18.8 | -12.1 | 2985 | 1355 | 6.3 | -9.0 | 23 | 36 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 310 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -122.5 | -789.9 | 216.9 | -41.0 | 41.5 |
| | | 13.2 | 13.2 | 5698 | 3751 | 2.3 | 3.5 | -27 | 27 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -135.8 | -803.1 | 200.0 | -38.3 | 42.2 |
| | | 6.9 | 6.9 | 2583 | 1701 | 2.7 | 4.0 | -26 | 26 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -142.6 | -810.0 | 192.2 | -36.9 | 42.6 |
| | | 7.4 | 7.4 | 2583 | 1701 | 2.9 | 4.4 | -25 | 25 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -150.1 | -817.4 | 184.3 | -35.5 | 43.0 |
| | | 8.0 | 8.0 | 2583 | 1701 | 3.1 | 4.7 | -25 | 25 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -158.1 | -825.4 | 176.3 | -34.0 | 43.4 |
| | | 8.5 | 8.5 | 2583 | 1701 | 3.3 | 5.0 | -24 | 24 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -166.6 | -833.9 | 168.3 | -32.5 | 43.8 |
| | | 9.1 | 9.1 | 2583 | 1701 | 3.5 | 5.3 | -24 | 24 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -175.7 | -843.0 | 160.2 | -30.8 | 44.2 |
| | | 9.6 | 9.6 | 2583 | 1701 | 3.7 | 5.7 | -24 | 24 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -185.3 | -852.7 | 152.0 | -29.1 | 44.7 |
| | | 10.2 | 10.1 | 2583 | 1700 | 3.9 | 6.0 | -24 | 24 | | | | | |
| CLUB | 89.02 | | | | | | | | | -195.5 | -862.8 | 143.7 | -27.2 | 45.2 |
| | | -9.3 | -19.1 | 2945 | 1733 | -3.2 | -11.0 | 59 | -29 | | | | | |
| CLUB | 101.02 | | | | | | | | | -186.2 | -843.7 | 133.5 | -24.9 | 46.6 |
| | | -4.1 | -23.8 | 3443 | 2029 | -1.2 | -11.7 | 55 | -9 | | | | | |
| HO11 | 115.02 | | | | | | | | | -182.1 | -819.9 | 121.8 | -22.3 | 47.9 |
| | | -4.1 | -24.0 | 2368 | 1391 | -1.7 | -17.3 | 2 | -0 | | | | | |
| HO12 | 124.69 | | | | | | | | | -178.0 | -795.9 | 114.0 | -20.6 | 48.0 |
| | | -7.9 | -24.9 | 2323 | 1347 | -3.4 | -18.5 | -33 | 10 | | | | | |
| HO13 | 134.36 | | | | | | | | | -170.1 | -771.0 | 106.4 | -18.9 | 47.1 |
| | | -10.7 | -23.9 | 2264 | 1287 | -4.7 | -18.5 | -47 | 21 | | | | | |
| HO14 | 144.03 | | | | | | | | | -159.4 | -747.1 | 99.1 | -17.3 | 45.7 |
| | | -9.9 | -23.7 | 2253 | 1276 | -4.4 | -18.5 | -51 | 21 | | | | | |
| HO15 | 153.70 | | | | | | | | | -149.5 | -723.5 | 92.0 | -15.8 | 44.3 |
| | | -8.1 | -23.6 | 2253 | 1276 | -3.6 | -18.5 | -50 | 17 | | | | | |
| HO16 | 163.37 | | | | | | | | | -141.4 | -699.9 | 85.1 | -14.4 | 43.0 |
| | | -8.6 | -34.0 | 3261 | 1847 | -2.6 | -18.4 | -49 | 12 | | | | | |
| OF17 | 177.37 | | | | | | | | | -132.7 | -665.9 | 75.6 | -12.5 | 41.2 |
| | | -4.5 | -29.0 | 2795 | 1583 | -1.6 | -18.3 | -46 | 7 | | | | | |
| OF18 | 189.37 | | | | | | | | | -128.3 | -637.0 | 67.7 | -10.9 | 39.8 |
| | | -5.7 | -30.0 | 2795 | 1583 | -2.0 | -18.9 | -47 | 9 | | | | | |
| OF19 | 201.37 | | | | | | | | | -122.6 | -607.0 | 60.3 | -9.4 | 38.4 |
| | | -7.3 | -31.0 | 2795 | 1583 | -2.6 | -19.6 | -49 | 11 | | | | | |
| OF20 | 213.37 | | | | | | | | | -115.3 | -576.0 | 53.2 | -8.0 | 36.8 |
| | | -8.8 | -32.1 | 2795 | 1583 | -3.2 | -20.3 | -50 | 14 | | | | | |
| OF21 | 225.37 | | | | | | | | | -106.5 | -543.9 | 46.5 | -6.7 | 35.0 |
| | | -10.4 | -33.2 | 2795 | 1583 | -3.7 | -21.0 | -51 | 16 | | | | | |
| OF22 | 237.37 | | | | | | | | | -96.1 | -510.7 | 40.1 | -5.5 | 33.1 |
| | | -11.3 | -34.4 | 2795 | 1583 | -4.0 | -21.8 | -53 | 17 | | | | | |
| OF23 | 249.37 | | | | | | | | | -84.8 | -476.2 | 34.2 | -4.4 | 31.1 |
| | | -11.3 | -35.9 | 2795 | 1583 | -4.0 | -22.7 | -56 | 18 | | | | | |
| OF24 | 261.37 | | | | | | | | | -73.5 | -440.4 | 28.7 | -3.4 | 28.9 |
| | | -11.3 | -37.3 | 2795 | 1583 | -4.0 | -23.6 | -60 | 18 | | | | | |
| OF25 | 273.37 | | | | | | | | | -62.2 | -403.0 | 23.6 | -2.6 | 26.5 |
| | | -11.3 | -38.8 | 2795 | 1583 | -4.0 | -24.5 | -62 | 18 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 310 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -51.0 | -364.3 | 19.0 | -1.9 | 23.8 |
| | | -10.8 | -40.0 | 2795 | 1583 | -3.9 | -25.2 | -64 | 17 | | | | | |
| OF27 | 297.37 | | | | | | | | | -40.2 | -324.3 | 14.9 | -1.4 | 21.1 |
| | | -9.5 | -40.8 | 2795 | 1583 | -3.4 | -25.8 | -65 | 15 | | | | | |
| OF28 | 309.37 | | | | | | | | | -30.7 | -283.5 | 11.3 | -1.0 | 18.3 |
| | | -8.3 | -41.6 | 2795 | 1583 | -3.0 | -26.3 | -66 | 13 | | | | | |
| OF29 | 321.37 | | | | | | | | | -22.4 | -241.9 | 8.1 | -.7 | 15.4 |
| | | -7.1 | -42.4 | 2795 | 1583 | -2.5 | -26.8 | -67 | 11 | | | | | |
| OF30 | 333.37 | | | | | | | | | -15.3 | -199.6 | 5.5 | -.4 | 12.5 |
| | | -3.2 | -41.3 | 2795 | 1583 | -1.2 | -26.1 | -66 | 5 | | | | | |
| OF31 | 345.37 | | | | | | | | | -12.1 | -158.2 | 3.3 | -.3 | 9.8 |
| | | -2.9 | -45.2 | 2795 | 1583 | -1.0 | -28.6 | -65 | 4 | | | | | |
| OF32 | 357.37 | | | | | | | | | -9.2 | -113.0 | 1.7 | -.1 | 6.8 |
| | | -6.8 | -53.3 | 2795 | 1583 | -2.4 | -33.7 | -67 | 8 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -2.4 | -59.7 | .7 | -.1 | 3.2 |
| | | .5 | -45.0 | 3261 | 1847 | .1 | -24.3 | -60 | -1 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -2.9 | -14.7 | .1 | -.0 | .5 |
| | | -2.9 | -14.7 | 2985 | 1355 | -1.0 | -10.9 | -34 | 7 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 320 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -453.0 | -719.3 | 207.8 | -129.2 | 40.4 |
| PAR2 | 21.33 | 13.9 | 13.9 | 5698 | 3751 | 2.4 | 3.7 | -27 | 27 | -466.9 | -733.2 | 192.3 | -119.4 | 41.1 |
| PAR3 | 31.00 | 7.5 | 7.5 | 2583 | 1701 | 2.9 | 4.4 | -26 | 26 | -474.4 | -740.7 | 185.2 | -114.9 | 41.5 |
| PAR4 | 40.67 | 8.3 | 8.3 | 2583 | 1701 | 3.2 | 4.9 | -25 | 25 | -482.7 | -749.0 | 178.0 | -110.2 | 41.9 |
| PAR5 | 50.34 | 9.0 | 9.0 | 2583 | 1701 | 3.5 | 5.3 | -25 | 25 | -491.7 | -758.0 | 170.7 | -105.5 | 42.4 |
| PAR6 | 60.01 | 9.8 | 9.8 | 2583 | 1701 | 3.8 | 5.7 | -24 | 24 | -501.5 | -767.8 | 163.3 | -100.7 | 42.8 |
| PAR7 | 69.68 | 10.5 | 10.5 | 2583 | 1701 | 4.1 | 6.2 | -24 | 24 | -512.0 | -778.3 | 155.8 | -95.8 | 43.3 |
| PAR8 | 79.35 | 11.3 | 11.3 | 2583 | 1701 | 4.4 | 6.6 | -24 | 24 | -523.2 | -789.5 | 148.3 | -90.8 | 43.9 |
| CLUB | 89.02 | 12.0 | 12.0 | 2583 | 1700 | 4.6 | 7.0 | -23 | 23 | -535.2 | -801.5 | 140.6 | -85.7 | 44.4 |
| CLUB | 101.02 | -15.2 | -11.7 | 2945 | 1733 | -5.2 | -6.7 | 41 | -53 | -519.9 | -789.8 | 131.0 | -79.4 | 45.7 |
| HO11 | 115.02 | -13.4 | -12.9 | 3443 | 2029 | -3.9 | -6.3 | 43 | -44 | -506.5 | -776.9 | 120.0 | -72.2 | 46.8 |
| HO12 | 124.69 | -11.7 | -14.1 | 2368 | 1391 | -4.9 | -10.2 | -2 | 2 | -494.8 | -762.8 | 112.6 | -67.3 | 46.8 |
| HO13 | 134.36 | -17.5 | -16.8 | 2323 | 1347 | -7.5 | -12.5 | -31 | 33 | -477.3 | -746.0 | 105.3 | -62.6 | 45.7 |
| HO14 | 144.03 | -24.0 | -18.4 | 2264 | 1287 | -10.6 | -14.3 | -37 | 48 | -453.3 | -727.6 | 98.2 | -58.1 | 43.9 |
| HO15 | 153.70 | -24.7 | -19.0 | 2253 | 1276 | -11.0 | -14.9 | -39 | 50 | -428.7 | -708.6 | 91.2 | -53.9 | 41.9 |
| HO16 | 163.37 | -22.2 | -19.4 | 2253 | 1276 | -9.8 | -15.2 | -40 | 46 | -406.5 | -689.2 | 84.5 | -49.8 | 40.1 |
| OF17 | 177.37 | -27.7 | -28.7 | 3261 | 1847 | -8.5 | -15.5 | -41 | 39 | -378.8 | -660.6 | 75.0 | -44.3 | 37.9 |
| OF18 | 189.37 | -19.6 | -25.2 | 2795 | 1583 | -7.0 | -15.9 | -40 | 31 | -359.2 | -635.4 | 67.3 | -39.9 | 36.2 |
| OF19 | 201.37 | -19.1 | -27.3 | 2795 | 1583 | -6.8 | -17.3 | -41 | 29 | -340.1 | -608.1 | 59.8 | -35.7 | 34.6 |
| OF20 | 213.37 | -19.0 | -29.6 | 2795 | 1583 | -6.8 | -18.7 | -41 | 27 | -321.1 | -578.5 | 52.7 | -31.7 | 32.8 |
| OF21 | 225.37 | -18.8 | -31.9 | 2795 | 1583 | -6.7 | -20.1 | -42 | 25 | -302.2 | -546.6 | 45.9 | -28.0 | 31.0 |
| OF22 | 237.37 | -18.7 | -34.1 | 2795 | 1583 | -6.7 | -21.6 | -42 | 23 | -283.6 | -512.5 | 39.6 | -24.5 | 29.2 |
| OF23 | 249.37 | -18.5 | -36.0 | 2795 | 1583 | -6.6 | -22.8 | -42 | 22 | -265.0 | -476.5 | 33.6 | -21.2 | 27.3 |
| OF24 | 261.37 | -18.5 | -37.4 | 2795 | 1583 | -6.6 | -23.6 | -44 | 22 | -246.6 | -439.0 | 28.1 | -18.1 | 25.2 |
| OF25 | 273.37 | -18.4 | -38.8 | 2795 | 1583 | -6.6 | -24.5 | -46 | 22 | -228.2 | -400.2 | 23.1 | -15.3 | 23.0 |
| | | -18.3 | -40.3 | 2795 | 1583 | -6.5 | -25.4 | -47 | 21 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 320 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -210.0 | -359.9 | 18.5 | -12.7 | 20.8 |
| | | -18.3 | -41.3 | 2795 | 1583 | -6.5 | -26.1 | -48 | 21 | | | | | |
| OF27 | 297.37 | | | | | | | | | -191.7 | -318.7 | 14.5 | -10.2 | 18.4 |
| | | -18.5 | -41.6 | 2795 | 1583 | -6.6 | -26.3 | -48 | 21 | | | | | |
| OF28 | 309.37 | | | | | | | | | -173.2 | -277.0 | 10.9 | -8.1 | 16.0 |
| | | -18.6 | -42.0 | 2795 | 1583 | -6.7 | -26.5 | -48 | 21 | | | | | |
| OF29 | 321.37 | | | | | | | | | -154.6 | -235.0 | 7.8 | -6.1 | 13.6 |
| | | -18.8 | -42.4 | 2795 | 1583 | -6.7 | -26.8 | -48 | 22 | | | | | |
| OF30 | 333.37 | | | | | | | | | -135.7 | -192.6 | 5.3 | -4.3 | 11.1 |
| | | -19.8 | -41.6 | 2795 | 1583 | -7.1 | -26.3 | -47 | 22 | | | | | |
| OF31 | 345.37 | | | | | | | | | -116.0 | -151.1 | 3.2 | -2.8 | 8.8 |
| | | -27.1 | -43.6 | 2795 | 1583 | -9.7 | -27.5 | -42 | 26 | | | | | |
| OF32 | 357.37 | | | | | | | | | -88.8 | -107.5 | 1.7 | -1.6 | 6.2 |
| | | -37.2 | -48.3 | 2795 | 1583 | -13.3 | -30.5 | -38 | 30 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -51.6 | -59.2 | .7 | -.8 | 3.3 |
| | | -26.4 | -44.4 | 3261 | 1847 | -8.1 | -24.0 | -39 | 23 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -25.3 | -14.8 | .1 | -.2 | .9 |
| | | -25.3 | -14.8 | 2985 | 1355 | -8.5 | -10.9 | -16 | 27 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -973.4 | -1042.4 | 286.8 | -241.5 | 35.0 |
| PAR2 | 21.33 | 4.2 | 4.2 | 5698 | 3751 | .7 | 1.1 | -40 | 40 | -977.7 | -1046.6 | 264.5 | -220.7 | 35.3 |
| PAR3 | 31.00 | 4.2 | 4.2 | 2583 | 1701 | 1.6 | 2.5 | -32 | 32 | -981.9 | -1050.8 | 254.3 | -211.2 | 35.6 |
| PAR4 | 40.67 | 5.6 | 5.6 | 2583 | 1701 | 2.2 | 3.3 | -30 | 30 | -987.5 | -1056.4 | 244.2 | -201.7 | 35.9 |
| PAR5 | 50.34 | 7.0 | 7.0 | 2583 | 1701 | 2.7 | 4.1 | -29 | 29 | -994.5 | -1063.4 | 233.9 | -192.1 | 36.3 |
| PAR6 | 60.01 | 8.4 | 8.4 | 2583 | 1701 | 3.3 | 5.0 | -29 | 29 | -1002.9 | -1071.9 | 223.6 | -182.5 | 36.8 |
| PAR7 | 69.68 | 9.9 | 9.9 | 2583 | 1701 | 3.8 | 5.8 | -28 | 28 | -1012.8 | -1081.7 | 213.2 | -172.7 | 37.4 |
| PAR8 | 79.35 | 11.3 | 11.3 | 2583 | 1701 | 4.4 | 6.6 | -28 | 28 | -1024.0 | -1093.0 | 202.7 | -162.9 | 38.0 |
| CLUB | 89.02 | 12.6 | 12.6 | 2583 | 1700 | 4.9 | 7.4 | -28 | 28 | -1036.6 | -1105.6 | 192.0 | -152.9 | 38.7 |
| CLUB | 101.02 | -30.3 | -18.4 | 2945 | 1733 | -10.3 | -10.6 | 14 | -23 | -1006.4 | -1087.2 | 178.9 | -140.7 | 39.6 |
| HO11 | 115.02 | -25.7 | -11.8 | 3443 | 2029 | -7.5 | -5.8 | 25 | -54 | -980.6 | -1075.4 | 163.7 | -126.8 | 41.3 |
| HO12 | 124.69 | -26.5 | -16.7 | 2368 | 1391 | -11.2 | -12.0 | -1 | 1 | -954.2 | -1058.7 | 153.4 | -117.4 | 41.3 |
| HO13 | 134.36 | -36.3 | -24.4 | 2323 | 1347 | -15.6 | -18.1 | -18 | 26 | -917.9 | -1034.3 | 143.3 | -108.4 | 39.9 |
| HO14 | 144.03 | -43.0 | -26.6 | 2264 | 1287 | -19.0 | -20.7 | -20 | 32 | -874.9 | -1007.7 | 133.4 | -99.7 | 38.0 |
| HO15 | 153.70 | -44.4 | -27.7 | 2253 | 1276 | -19.7 | -21.7 | -20 | 32 | -830.4 | -980.0 | 123.8 | -91.4 | 36.0 |
| HO16 | 163.37 | -43.1 | -28.3 | 2253 | 1276 | -19.1 | -22.2 | -19 | 29 | -787.3 | -951.7 | 114.5 | -83.6 | 34.2 |
| OF17 | 177.37 | -60.0 | -42.0 | 3261 | 1847 | -18.4 | -22.7 | -18 | 25 | -727.3 | -909.7 | 101.4 | -73.0 | 32.0 |
| OF18 | 189.37 | -49.3 | -37.0 | 2795 | 1583 | -17.6 | -23.3 | -16 | 21 | -678.0 | -872.7 | 90.7 | -64.6 | 30.4 |
| OF19 | 201.37 | -47.9 | -39.9 | 2795 | 1583 | -17.1 | -25.2 | -17 | 20 | -630.1 | -832.8 | 80.5 | -56.7 | 28.7 |
| OF20 | 213.37 | -46.6 | -43.0 | 2795 | 1583 | -16.7 | -27.1 | -18 | 20 | -583.5 | -789.9 | 70.8 | -49.5 | 27.0 |
| OF21 | 225.37 | -45.3 | -46.0 | 2795 | 1583 | -16.2 | -29.1 | -20 | 19 | -538.2 | -743.8 | 61.6 | -42.7 | 25.2 |
| OF22 | 237.37 | -44.0 | -49.1 | 2795 | 1583 | -15.7 | -31.0 | -21 | 19 | -494.2 | -694.7 | 52.9 | -36.5 | 23.4 |
| OF23 | 249.37 | -43.0 | -51.5 | 2795 | 1583 | -15.4 | -32.5 | -22 | 18 | -451.2 | -643.2 | 44.9 | -30.9 | 21.5 |
| OF24 | 261.37 | -42.4 | -52.9 | 2795 | 1583 | -15.2 | -33.4 | -22 | 18 | -408.8 | -590.4 | 37.5 | -25.7 | 19.6 |
| OF25 | 273.37 | -41.8 | -54.3 | 2795 | 1583 | -14.9 | -34.3 | -22 | 17 | -367.0 | -536.1 | 30.8 | -21.0 | 17.6 |
| | | -41.1 | -55.7 | 2795 | 1583 | -14.7 | -35.2 | -23 | 17 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER - PROJECT #6013

WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -325.9 | -480.4 | 24.7 | -16.9 | 15.7 |
| | | -40.3 | -56.6 | 2795 | 1583 | -14.4 | -35.7 | -23 | 16 | | | | | |
| OF27 | 297.37 | | | | | | | | | -285.6 | -423.8 | 19.2 | -13.2 | 13.7 |
| | | -39.1 | -56.7 | 2795 | 1583 | -14.0 | -35.8 | -23 | 16 | | | | | |
| OF28 | 309.37 | | | | | | | | | -246.5 | -367.1 | 14.5 | -10.0 | 11.8 |
| | | -37.8 | -56.8 | 2795 | 1583 | -13.5 | -35.9 | -23 | 15 | | | | | |
| OF29 | 321.37 | | | | | | | | | -208.7 | -310.3 | 10.4 | -7.3 | 9.9 |
| | | -36.6 | -56.9 | 2795 | 1583 | -13.1 | -35.9 | -23 | 15 | | | | | |
| OF30 | 333.37 | | | | | | | | | -172.1 | -253.5 | 7.0 | -5.0 | 8.1 |
| | | -35.6 | -56.2 | 2795 | 1583 | -12.7 | -35.5 | -22 | 14 | | | | | |
| OF31 | 345.37 | | | | | | | | | -136.5 | -197.3 | 4.3 | -3.2 | 6.3 |
| | | -36.7 | -56.1 | 2795 | 1583 | -13.1 | -35.4 | -23 | 15 | | | | | |
| OF32 | 357.37 | | | | | | | | | -99.8 | -141.2 | 2.3 | -1.7 | 4.5 |
| | | -39.5 | -57.5 | 2795 | 1583 | -14.1 | -36.3 | -24 | 16 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -60.3 | -83.7 | 1.0 | -.8 | 2.5 |
| | | -38.0 | -60.9 | 3261 | 1847 | -11.7 | -32.9 | -19 | 12 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -22.2 | -22.8 | .2 | -.2 | 1.0 |
| | | -22.2 | -22.8 | 2985 | 1355 | -7.5 | -16.8 | -22 | 21 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1250.2 | -1252.8 | 326.8 | -303.7 | 19.3 |
| | | -.9 | -.9 | 5698 | 3751 | -.2 | -.2 | 18 | -18 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -1249.2 | -1251.9 | 300.0 | -277.0 | 19.3 |
| | | 1.9 | 1.9 | 2583 | 1701 | .8 | 1.1 | -35 | 35 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -1251.2 | -1253.8 | 287.9 | -265.0 | 19.4 |
| | | 3.4 | 3.4 | 2583 | 1701 | 1.3 | 2.0 | -31 | 31 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -1254.6 | -1257.3 | 275.8 | -252.8 | 19.7 |
| | | 4.9 | 4.9 | 2583 | 1701 | 1.9 | 2.9 | -29 | 29 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -1259.5 | -1262.1 | 263.6 | -240.7 | 19.9 |
| | | 6.3 | 6.3 | 2583 | 1701 | 2.5 | 3.7 | -28 | 28 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -1265.8 | -1268.5 | 251.4 | -228.5 | 20.3 |
| | | 7.8 | 7.8 | 2583 | 1701 | 3.0 | 4.6 | -28 | 28 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -1273.6 | -1276.3 | 239.1 | -216.2 | 20.7 |
| | | 9.3 | 9.3 | 2583 | 1701 | 3.6 | 5.5 | -27 | 27 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -1282.9 | -1285.6 | 226.7 | -203.8 | 21.2 |
| | | 10.7 | 10.7 | 2583 | 1700 | 4.1 | 6.3 | -27 | 27 | | | | | |
| CLUB | 89.02 | | | | | | | | | -1293.6 | -1296.2 | 214.2 | -191.4 | 21.8 |
| | | -44.6 | -32.5 | 2945 | 1733 | -15.2 | -18.8 | 13 | -18 | | | | | |
| CLUB | 101.02 | | | | | | | | | -1248.9 | -1263.7 | 198.8 | -176.1 | 23.0 |
| | | -40.1 | -25.6 | 3443 | 2029 | -11.6 | -12.6 | 27 | -42 | | | | | |
| HO11 | 115.02 | | | | | | | | | -1208.8 | -1238.1 | 181.3 | -158.9 | 25.4 |
| | | -37.2 | -27.4 | 2368 | 1391 | -15.7 | -19.7 | 5 | -6 | | | | | |
| HO12 | 124.69 | | | | | | | | | -1171.6 | -1210.7 | 169.5 | -147.4 | 25.8 |
| | | -43.5 | -32.9 | 2323 | 1347 | -18.7 | -24.4 | -7 | 9 | | | | | |
| HO13 | 134.36 | | | | | | | | | -1126.1 | -1177.8 | 157.9 | -136.3 | 25.1 |
| | | -48.4 | -34.1 | 2264 | 1287 | -21.4 | -26.5 | -9 | 12 | | | | | |
| HO14 | 144.03 | | | | | | | | | -1079.7 | -1143.7 | 146.7 | -125.6 | 24.3 |
| | | -49.7 | -35.2 | 2253 | 1276 | -22.1 | -27.6 | -9 | 12 | | | | | |
| HO15 | 153.70 | | | | | | | | | -1030.0 | -1108.5 | 135.8 | -115.4 | 23.3 |
| | | -48.7 | -36.1 | 2253 | 1276 | -21.6 | -28.3 | -8 | 11 | | | | | |
| HO16 | 163.37 | | | | | | | | | -981.2 | -1072.4 | 125.3 | -105.7 | 22.5 |
| | | -68.9 | -53.9 | 3261 | 1847 | -21.1 | -29.2 | -8 | 10 | | | | | |
| OF17 | 177.37 | | | | | | | | | -912.4 | -1018.5 | 110.6 | -92.4 | 21.4 |
| | | -57.4 | -47.7 | 2795 | 1583 | -20.5 | -30.1 | -7 | 8 | | | | | |
| OF18 | 189.37 | | | | | | | | | -854.9 | -970.7 | 98.7 | -81.8 | 20.6 |
| | | -56.4 | -50.0 | 2795 | 1583 | -20.2 | -31.6 | -8 | 9 | | | | | |
| OF19 | 201.37 | | | | | | | | | -798.6 | -920.7 | 87.4 | -71.9 | 19.6 |
| | | -55.3 | -52.3 | 2795 | 1583 | -19.8 | -33.0 | -9 | 10 | | | | | |
| OF20 | 213.37 | | | | | | | | | -743.2 | -868.4 | 76.6 | -62.7 | 18.6 |
| | | -54.3 | -54.6 | 2795 | 1583 | -19.4 | -34.5 | -10 | 10 | | | | | |
| OF21 | 225.37 | | | | | | | | | -688.9 | -813.8 | 66.5 | -54.1 | 17.5 |
| | | -53.3 | -56.9 | 2795 | 1583 | -19.1 | -36.0 | -11 | 11 | | | | | |
| OF22 | 237.37 | | | | | | | | | -635.6 | -756.9 | 57.1 | -46.1 | 16.3 |
| | | -52.7 | -58.6 | 2795 | 1583 | -18.8 | -37.0 | -12 | 11 | | | | | |
| OF23 | 249.37 | | | | | | | | | -582.9 | -698.2 | 48.4 | -38.8 | 15.0 |
| | | -52.7 | -59.5 | 2795 | 1583 | -18.8 | -37.6 | -13 | 11 | | | | | |
| OF24 | 261.37 | | | | | | | | | -530.3 | -638.7 | 40.3 | -32.1 | 13.7 |
| | | -52.6 | -60.4 | 2795 | 1583 | -18.8 | -38.1 | -13 | 11 | | | | | |
| OF25 | 273.37 | | | | | | | | | -477.6 | -578.4 | 33.0 | -26.1 | 12.3 |
| | | -52.6 | -61.2 | 2795 | 1583 | -18.8 | -38.7 | -13 | 11 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -425.0 | -517.1 | 26.5 | -20.7 | 10.9 |
| | | -52.7 | -61.7 | 2795 | 1583 | -18.8 | -39.0 | -13 | 11 | | | | | |
| OF27 | 297.37 | | | | | | | | | -372.4 | -455.4 | 20.6 | -15.9 | 9.5 |
| | | -52.8 | -61.5 | 2795 | 1583 | -18.9 | -38.9 | -13 | 11 | | | | | |
| OF28 | 309.37 | | | | | | | | | -319.6 | -393.9 | 15.5 | -11.7 | 8.0 |
| | | -53.0 | -61.4 | 2795 | 1583 | -18.9 | -38.8 | -13 | 11 | | | | | |
| OF29 | 321.37 | | | | | | | | | -266.6 | -332.5 | 11.2 | -8.2 | 6.6 |
| | | -53.1 | -61.3 | 2795 | 1583 | -19.0 | -38.7 | -13 | 11 | | | | | |
| OF30 | 333.37 | | | | | | | | | -213.5 | -271.2 | 7.6 | -5.3 | 5.2 |
| | | -52.7 | -60.7 | 2795 | 1583 | -18.8 | -38.3 | -13 | 11 | | | | | |
| OF31 | 345.37 | | | | | | | | | -160.8 | -210.6 | 4.7 | -3.1 | 3.9 |
| | | -51.5 | -59.7 | 2795 | 1583 | -18.4 | -37.7 | -13 | 11 | | | | | |
| OF32 | 357.37 | | | | | | | | | -109.4 | -150.8 | 2.5 | -1.5 | 2.6 |
| | | -51.1 | -59.6 | 2795 | 1583 | -18.3 | -37.6 | -13 | 11 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -58.3 | -91.2 | 1.0 | -.5 | 1.2 |
| | | -55.2 | -65.6 | 3261 | 1847 | -16.9 | -35.5 | -10 | 9 | | | | | |
| MEC2 | 383.37 | | | | | | | | | -3.1 | -25.7 | .2 | -.0 | .1 |
| | | -3.1 | -25.7 | 2985 | 1355 | -1.0 | -18.9 | -4 | 0 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013
WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRND | 0.00 | | | | | | | | | -1759.2 | -1252.8 | 323.3 | -431.1 | 11.0 |
| | | -1.3 | -1.3 | 5698 | 3751 | -.2 | -.3 | -7 | 7 | | | | | |
| PAR2 | 21.33 | | | | | | | | | -1757.9 | -1251.5 | 296.6 | -393.6 | 11.0 |
| | | 1.1 | 1.1 | 2583 | 1701 | .4 | .6 | -37 | 37 | | | | | |
| PAR3 | 31.00 | | | | | | | | | -1759.0 | -1252.6 | 284.5 | -376.6 | 11.1 |
| | | 2.2 | 2.2 | 2583 | 1701 | .8 | 1.3 | -32 | 32 | | | | | |
| PAR4 | 40.67 | | | | | | | | | -1761.2 | -1254.7 | 272.4 | -359.6 | 11.2 |
| | | 3.2 | 3.2 | 2583 | 1701 | 1.2 | 1.9 | -30 | 30 | | | | | |
| PAR5 | 50.34 | | | | | | | | | -1764.4 | -1258.0 | 260.2 | -342.5 | 11.4 |
| | | 4.3 | 4.3 | 2583 | 1701 | 1.7 | 2.5 | -30 | 30 | | | | | |
| PAR6 | 60.01 | | | | | | | | | -1768.7 | -1262.3 | 248.0 | -325.5 | 11.7 |
| | | 5.3 | 5.3 | 2583 | 1701 | 2.1 | 3.1 | -29 | 29 | | | | | |
| PAR7 | 69.68 | | | | | | | | | -1774.0 | -1267.6 | 235.8 | -308.3 | 12.0 |
| | | 6.4 | 6.4 | 2583 | 1701 | 2.5 | 3.8 | -29 | 29 | | | | | |
| PAR8 | 79.35 | | | | | | | | | -1780.4 | -1274.0 | 223.5 | -291.2 | 12.3 |
| | | 7.3 | 7.4 | 2583 | 1700 | 2.8 | 4.3 | -29 | 29 | | | | | |
| CLUB | 89.02 | | | | | | | | | -1787.7 | -1281.4 | 211.1 | -273.9 | 12.8 |
| | | -61.0 | -31.6 | 2945 | 1733 | -20.7 | -18.2 | 11 | -21 | | | | | |
| CLUB | 101.02 | | | | | | | | | -1726.8 | -1249.8 | 196.0 | -252.8 | 14.4 |
| | | -60.2 | -25.2 | 3443 | 2029 | -17.5 | -12.4 | 15 | -36 | | | | | |
| H011 | 115.02 | | | | | | | | | -1666.5 | -1224.6 | 178.6 | -229.1 | 16.9 |
| | | -49.1 | -26.8 | 2368 | 1391 | -20.7 | -19.3 | 6 | -11 | | | | | |
| H012 | 124.69 | | | | | | | | | -1617.4 | -1197.8 | 166.9 | -213.2 | 17.6 |
| | | -56.1 | -34.0 | 2323 | 1347 | -24.2 | -25.3 | -2 | 3 | | | | | |
| H013 | 134.36 | | | | | | | | | -1561.2 | -1163.8 | 155.5 | -197.8 | 17.4 |
| | | -57.8 | -35.3 | 2264 | 1287 | -25.5 | -27.4 | -2 | 4 | | | | | |
| H014 | 144.03 | | | | | | | | | -1503.5 | -1128.5 | 144.4 | -183.0 | 17.1 |
| | | -57.9 | -35.9 | 2253 | 1276 | -25.7 | -28.1 | -2 | 4 | | | | | |
| H015 | 153.70 | | | | | | | | | -1445.6 | -1092.6 | 133.7 | -168.7 | 16.8 |
| | | -57.4 | -36.4 | 2253 | 1276 | -25.5 | -28.5 | -2 | 3 | | | | | |
| H016 | 163.37 | | | | | | | | | -1388.1 | -1056.2 | 123.3 | -155.0 | 16.5 |
| | | -82.3 | -53.5 | 3261 | 1847 | -25.2 | -29.0 | -2 | 3 | | | | | |
| OF17 | 177.37 | | | | | | | | | -1305.8 | -1002.7 | 108.9 | -136.2 | 16.2 |
| | | -69.8 | -46.7 | 2795 | 1583 | -25.0 | -29.5 | -2 | 2 | | | | | |
| OF18 | 189.37 | | | | | | | | | -1236.0 | -956.0 | 97.1 | -120.9 | 16.0 |
| | | -70.8 | -48.9 | 2795 | 1583 | -25.3 | -30.9 | -3 | 4 | | | | | |
| OF19 | 201.37 | | | | | | | | | -1165.3 | -907.1 | 85.9 | -106.5 | 15.6 |
| | | -71.9 | -51.2 | 2795 | 1583 | -25.7 | -32.4 | -4 | 5 | | | | | |
| OF20 | 213.37 | | | | | | | | | -1093.3 | -855.9 | 75.4 | -93.0 | 15.0 |
| | | -73.1 | -53.6 | 2795 | 1583 | -26.1 | -33.8 | -5 | 6 | | | | | |
| OF21 | 225.37 | | | | | | | | | -1020.3 | -802.3 | 65.4 | -80.3 | 14.3 |
| | | -74.2 | -55.9 | 2795 | 1583 | -26.5 | -35.3 | -6 | 7 | | | | | |
| OF22 | 237.37 | | | | | | | | | -946.1 | -746.4 | 56.1 | -68.5 | 13.5 |
| | | -75.4 | -57.7 | 2795 | 1583 | -27.0 | -36.4 | -6 | 8 | | | | | |
| OF23 | 249.37 | | | | | | | | | -870.7 | -688.7 | 47.5 | -57.6 | 12.5 |
| | | -76.6 | -58.7 | 2795 | 1583 | -27.4 | -37.1 | -7 | 9 | | | | | |
| OF24 | 261.37 | | | | | | | | | -794.1 | -630.0 | 39.6 | -47.6 | 11.4 |
| | | -77.8 | -59.6 | 2795 | 1583 | -27.8 | -37.7 | -7 | 9 | | | | | |
| OF25 | 273.37 | | | | | | | | | -716.3 | -570.4 | 32.4 | -38.5 | 10.3 |
| | | -79.0 | -60.6 | 2795 | 1583 | -28.3 | -38.3 | -7 | 10 | | | | | |

TABLE 7. SHEAR AND MOMENT DIAGRAMS : THREE LAKEWAY CENTER . PROJECT #6013

WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 38.0 PSF GUST FACTOR 1.32

| FLOOR | HEIGHT | FORCE (KIPS) X | FORCE (KIPS) Y | AREA (SQ FT) X | AREA (SQ FT) Y | PRESSURE (PSF) X | PRESSURE (PSF) Y | ECCEN (FT) X | ECCEN (FT) Y | SHEAR (KIPS) X | SHEAR (KIPS) Y | MOMENT (1000-FT-KIPS) X | MOMENT (1000-FT-KIPS) Y | MOMENT (1000-FT-KIPS) Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OF26 | 285.37 | | | | | | | | | -637.3 | -509.8 | 25.9 | -30.4 | 9.1 |
| | | -80.0 | -61.2 | 2795 | 1583 | -28.6 | -38.7 | -8 | 10 | | | | | |
| OF27 | 297.37 | | | | | | | | | -557.3 | -448.6 | 20.2 | -23.2 | 7.9 |
| | | -80.4 | -61.2 | 2795 | 1583 | -28.8 | -38.6 | -7 | 10 | | | | | |
| OF28 | 309.37 | | | | | | | | | -476.9 | -387.4 | 15.2 | -17.0 | 6.6 |
| | | -80.9 | -61.2 | 2795 | 1583 | -28.9 | -38.6 | -7 | 10 | | | | | |
| OF29 | 321.37 | | | | | | | | | -396.0 | -326.2 | 10.9 | -11.8 | 5.4 |
| | | -81.4 | -61.1 | 2795 | 1583 | -29.1 | -38.6 | -7 | 10 | | | | | |
| OF30 | 333.37 | | | | | | | | | -314.7 | -265.1 | 7.3 | -7.5 | 4.1 |
| | | -80.7 | -60.5 | 2795 | 1583 | -28.9 | -38.2 | -7 | 10 | | | | | |
| OF31 | 345.37 | | | | | | | | | -234.0 | -204.6 | 4.5 | -4.2 | 2.9 |
| | | -78.0 | -58.7 | 2795 | 1583 | -27.9 | -37.1 | -7 | 9 | | | | | |
| OF32 | 357.37 | | | | | | | | | -155.9 | -145.9 | 2.4 | -1.9 | 1.8 |
| | | -76.6 | -58.1 | 2795 | 1583 | -27.4 | -36.7 | -7 | 9 | | | | | |
| MEC1 | 369.37 | | | | | | | | | -79.4 | -87.7 | 1.0 | -.5 | .7 |
| | | -83.3 | -63.3 | 3261 | 1847 | -25.5 | -34.3 | -6 | 8 | | | | | |
| MEC2 | 383.37 | | | | | | | | | 3.9 | -24.4 | .2 | .0 | -.4 |
| | | 3.9 | -24.4 | 2985 | 1355 | 1.3 | -18.0 | 15 | 2 | | | | | |
| TOP | 401.37 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |