



City of Huntington Beach
Department of Building & Safety
WIND EXPOSURE GUIDELINES

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WIND EXPOSURE GUIDELINES FOR THE CITY OF HUNTINGTON BEACH
 Per CBC 2007 Section 1609.4 and ASCE 7-05 Section 6.5.6

Basic Wind Speed: 85 mph (3-second gust)

Exposure Category:

For each wind direction considered, an exposure category that adequately reflects the characteristics of ground surface irregularities shall be determined by the design professional for the site at which the building or structure is to be constructed.

The map on the following page is a general guideline for wind exposure category from the offshore wind direction only. Site specific conditions shall be reviewed for natural topography, vegetation and constructed facilities that will determine the wind exposure category.

- **Exposure D:** Exposure D shall extend inland from the shoreline for a distance of 600 ft or 20 times the height of the building, whichever is greater.
- **Exposure C:** Exposure C shall apply for all cases where Exposures B or D do not apply.
- **Exposure B:** Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B (urban and suburban areas), prevails in the upwind direction for a distance of 2600 ft or 20 times the height of the building, whichever is greater.

Exception: For buildings whose mean roof height is less than or equal to 30 ft, the upwind distance is permitted to be reduced to 1500 ft.

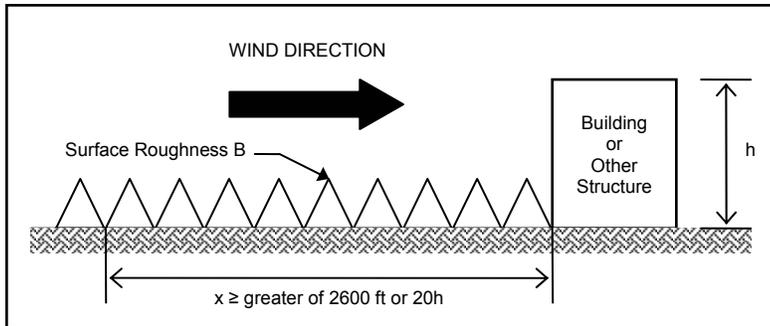


FIGURE A – ILLUSTRATION OF EXPOSURE B DEFINITION

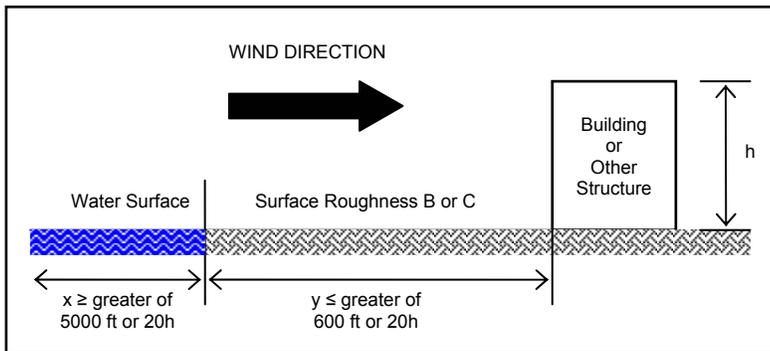


FIGURE B – ILLUSTRATION OF EXPOSURE D DEFINITION

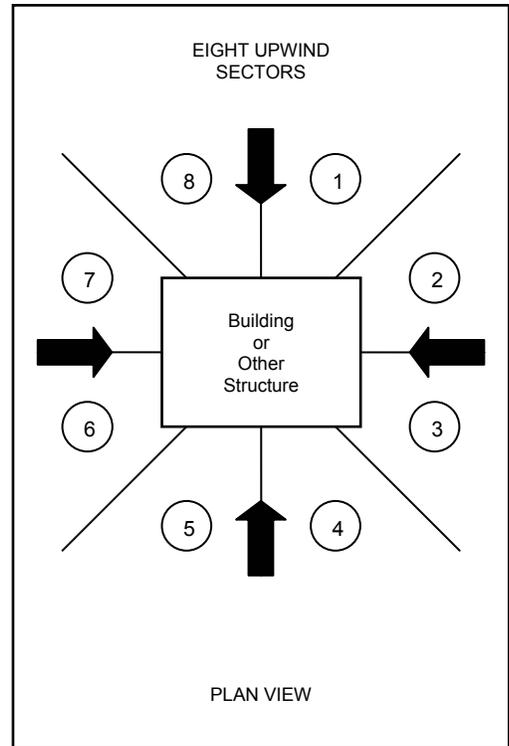
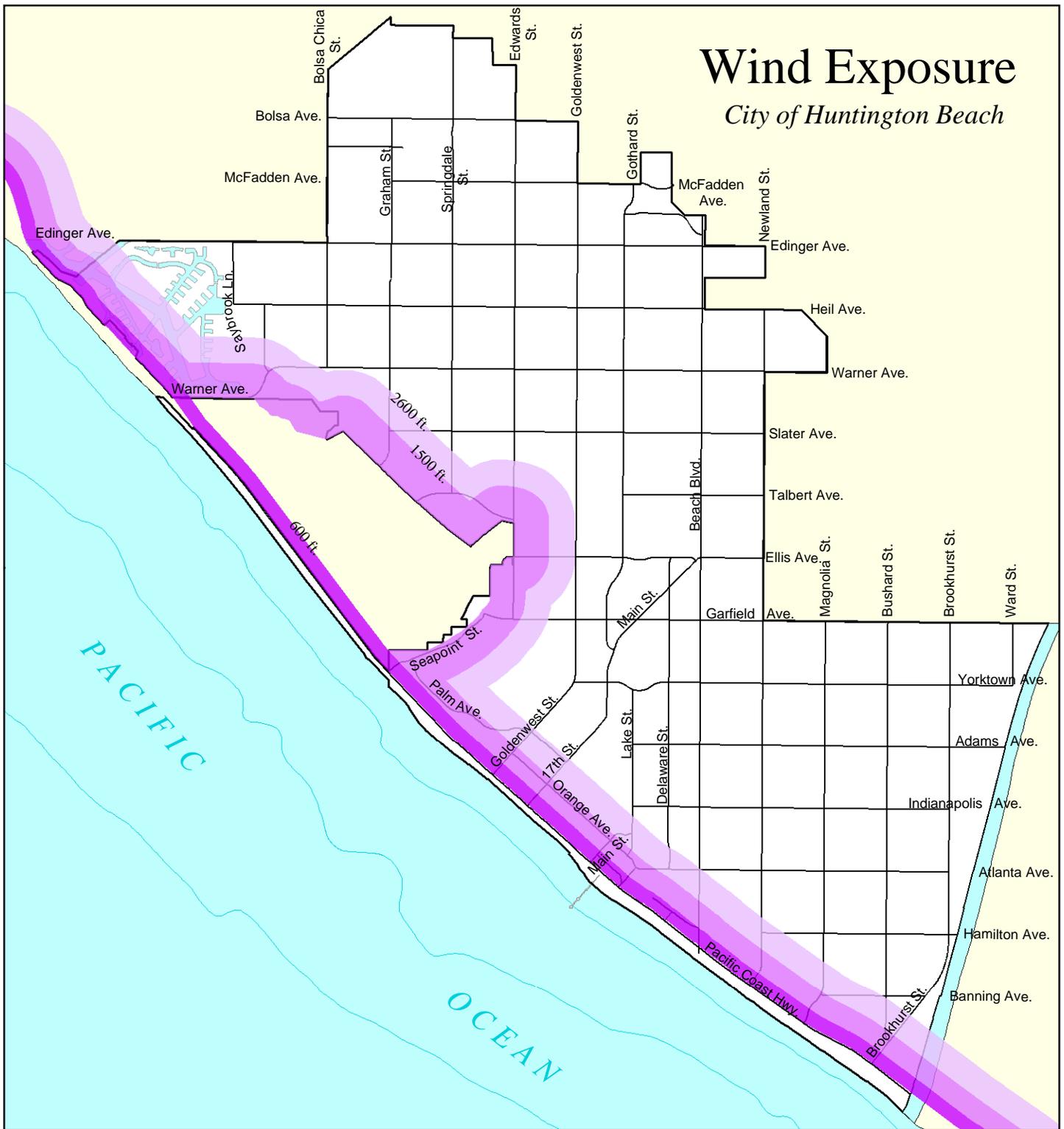


FIGURE C – ILLUSTRATION OF WIND LOADS FROM DIFFERENT DIRECTIONS

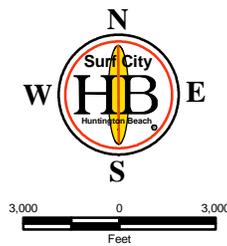
Wind Exposure

City of Huntington Beach



Exposure Category

- | | | | |
|---|-------------------------------|---|---|
|  | B (north of 2600 ft.) |  | C |
|  | C (or B if exception applies) |  | D |



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