Aviation Related Requirements:

Horizontal Surface
A horizontal plane 150 ft above the established airport elevation, the perimeter of which is constructed by
extension of the base of specified radii from the center of each end of the primary surface of each runway and extending
the adjacent arcs by lines tangent to those arcs.

The radius of each arc is 10,000 ft; The radius of the arc specified for each end of a runway will have the same
arithmetic value.

Conical Surface
A surface extending outward and upward from the periphery of the horizontal surface at a slope of 20:1 for a horizontal
distance of 4,000 ft past the horizontal surface.

A surface longitudinally centered on the extended runway centerline, extending outward and upward from each end of the
primary surface and approach surfaces.

Approach Surface or Break Slope
A surface extending for a horizontal distance of 10,000 ft at a slope of 7:1 from the centerline and its extension at a slope of 7:1 from the
edge of the approach surface.

 Transitional Surface
Extends outward and upward at right angles to runway centerline and its extension at a radius of 0.71 from the
radius of primary surface and approach surface.

Approach Surface Specifics

a) Inner edge of approach surface is the same width as the primary surface and expands uniformly to a width of
3,500 ft for that end of a non-precision instrument runway other than utility, having visibility minimums
greater than ¾ of a statute mile.

b) Approach surface extends for a horizontal distance of 10,000 ft at a slope of 3/4 for all non-precision
instrument runways other than utility.

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