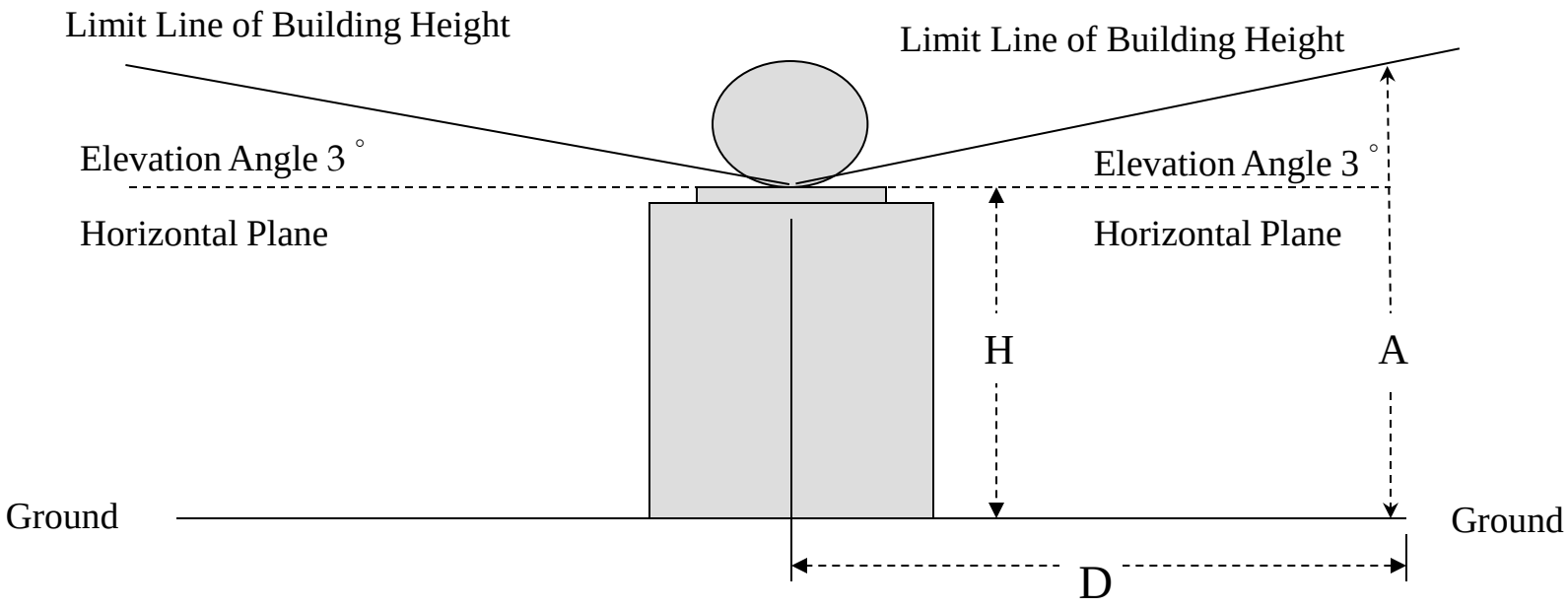


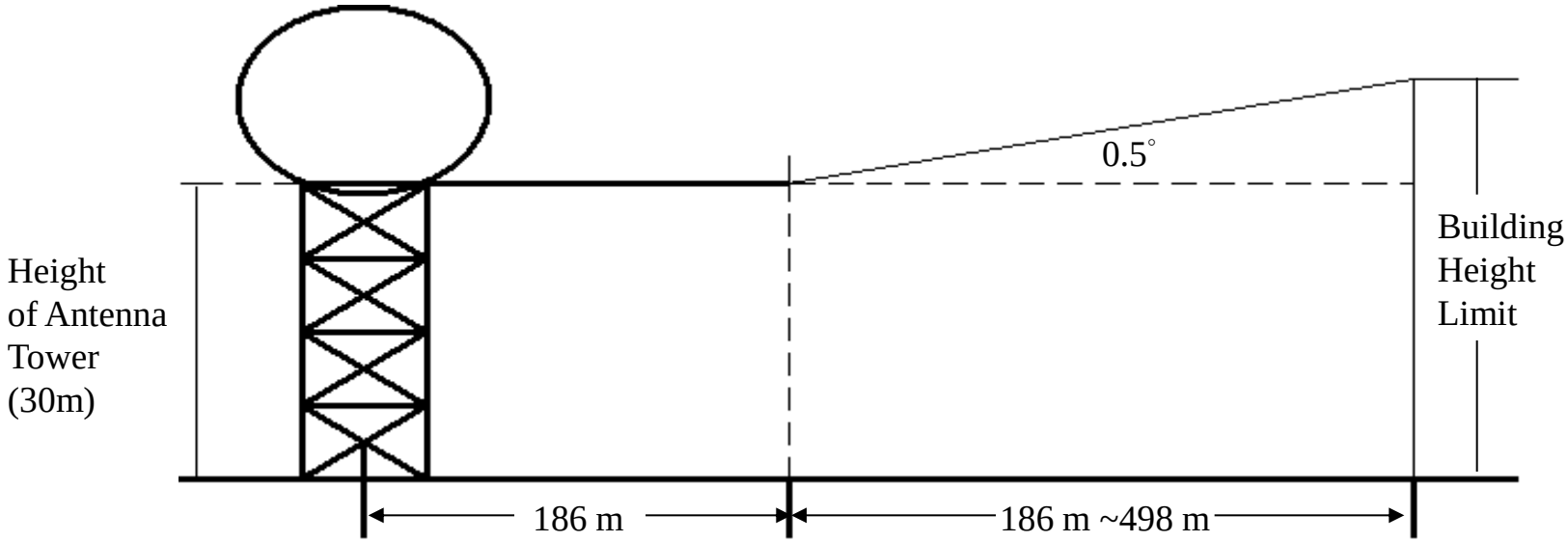
$A < H + D \tan 3^{\circ}$

A = Height of the building

H = Height of the antenna pedestal bottom above the ground

D = Horizontal distance between the bottom center of an antenna pedestal and the building

Sketch 1



The radius of clearance zone surrounding a weather radar antenna is described as follows：

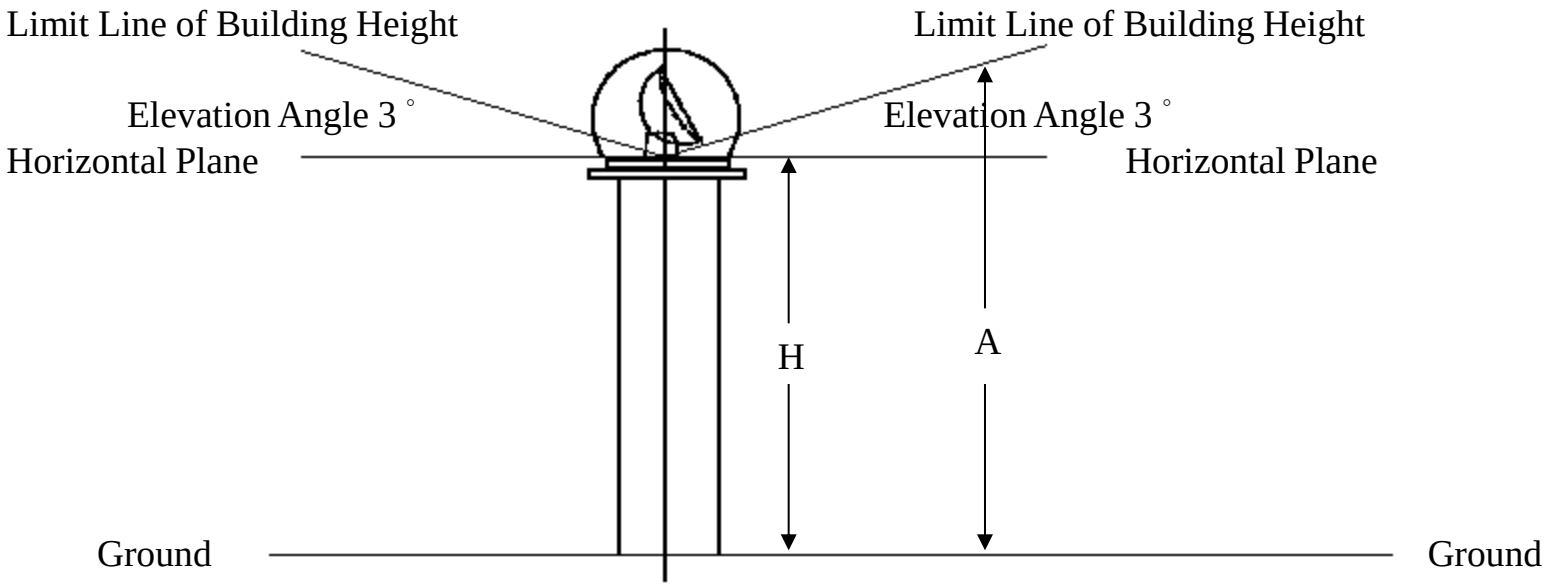
For the zone 0 - 186 m, the height limit of surrounding buildings is 30meters.

Zone of the minimal discernible signal：(Pulse width) ×(Wave speed)÷2＋(Distance between the plane of antenna disk and central axis of pedestal)

As for the CWB's Doppler weather radar :

$(3.3 \times 10^{-6}) \times (3 \times 10^{8}) \div 2 + 3 = 498$ m

Sketch 2



$A < H + D \tan 3^{\circ}$

A = Height of a building

H = Height of the bottom center of the antenna pedestal above the ground

D = Horizontal distance between the bottom center of the antenna pedestal and the surrounding building

Sketch 3