

EXHIBIT 001

The general purpose of this research project is to improve the resolution and accuracy of pulse Doppler meteorological radar techniques through the enhancement of computer software algorithms and radar antenna performance (i.e narrow beamwidth, side lobe suppression).

The present technology utilizes the Collins WRT-701C transmitter which does not provide the meteorological community with the most current technology available; therefore, the basis for research has been established to and develop new technological improvements through field experimentation to provide the general populace with improved and more detailed meteorological radar information.

This research is dependent on the ability to radiate and receive the precipitational volume which is contained within the radial perimeter of the coordinates specified on Form 442, line item 5(c).

The contribution of this research will directly benefit worldwide meteorological forecasters, and indirectly supply improved weather information to the general population of the world.

EXHIBIT 002
Item 15(d)

Reference FCC Part 17, Subpart B, Section 17.14(a), a survey team has inspected the proposed installation site for the experimental weather radar and has determined the following:

At a height of 21 meters above ground level, the surrounding buildings, radio towers and maintenance hangars, which all include obstruction lighting, isolate and protect the perimeter of this proposed installation and preclude any obstruction hazard to normal air traffic.

See attached sketches.
Exhibit 002

Sketch A
Sketch B

Exhibit 002
Sketch A

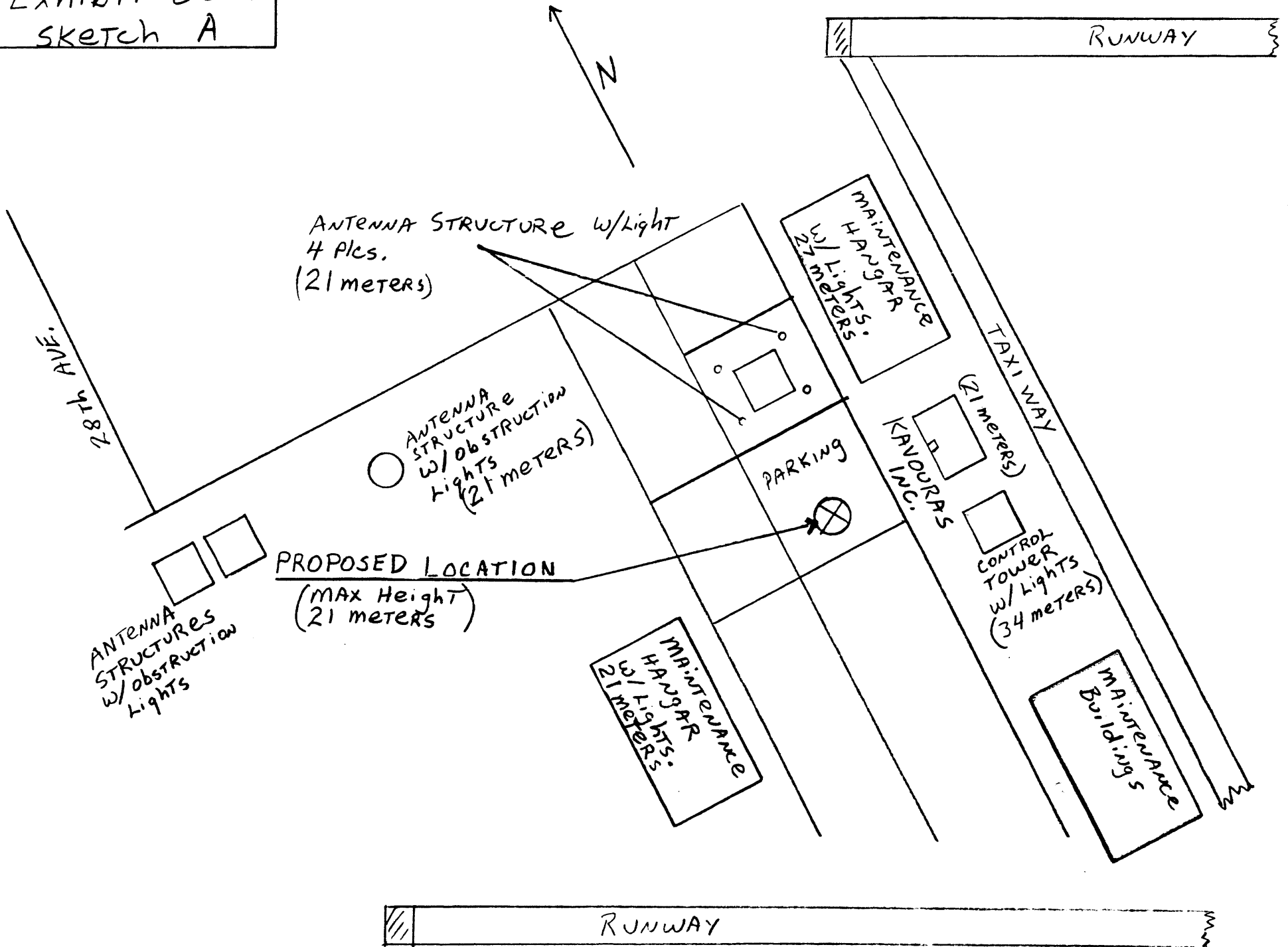


Exhibit 002
Sketch B

