

Visual Surveillance

GROUND OBSERVERS

Ground based visual observers will be located at 5 selected locations (figure 1). Sites selected have accessibility for each observer. Sites #3 and #4 are 2 1/4 NM radius, all others are 2 NM radius. This is because the area between #3 and #4 is inaccessible. Most of the land that the corridor flies over is ranch/farmland. The safety analysis and capability demonstration proved that observers were capable of providing see-and-avoid of non-participating traffic within these parameters. Observers meet all qualifications to include medical certification and prescribed 14 CFR Part 91 training on rules and responsibilities when operating near other aircraft and right-of-way rules. Observers are well versed on proper communication with the pilot and will maintain two-way communications.

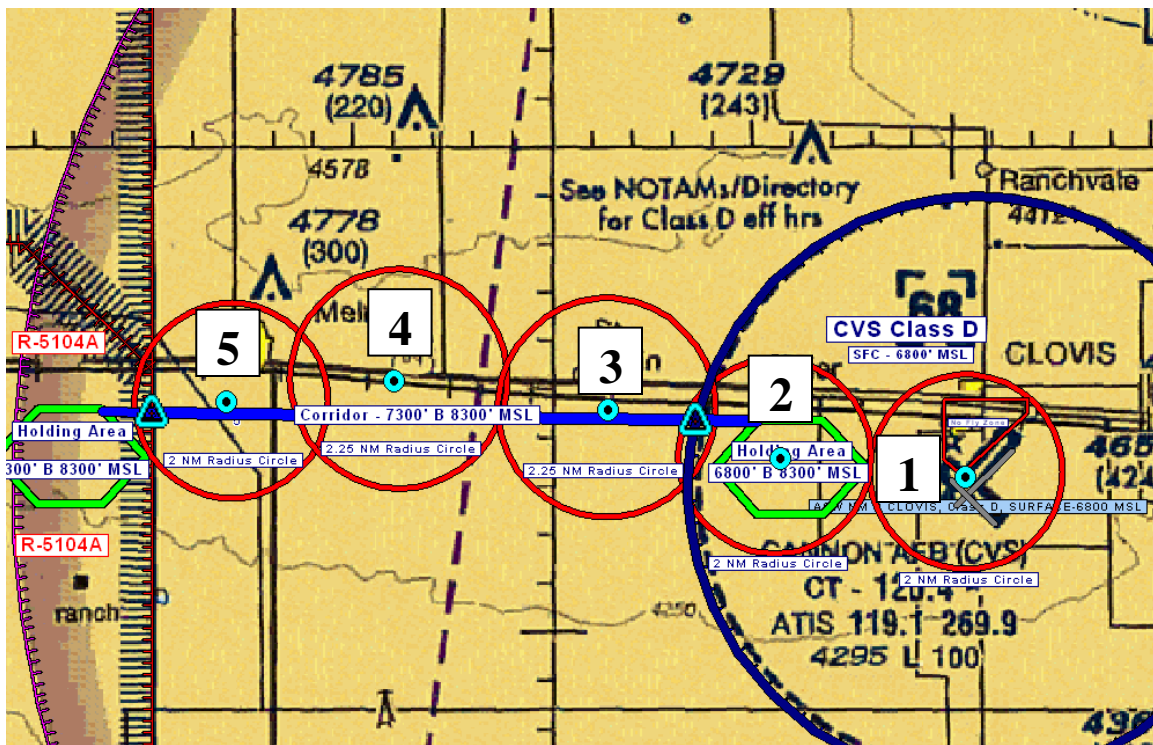


Figure 1. Observer Locations.

AIRBORNE SENSORS

Pilots of the MQ-1 will use the aircraft sensors to aid in see-and-avoid requirement. The aircraft is equipped with a color nose camera (generally used by the pilot for flight control), a day variable-aperture TV camera, and a variable-aperture infrared camera (for low light/night).