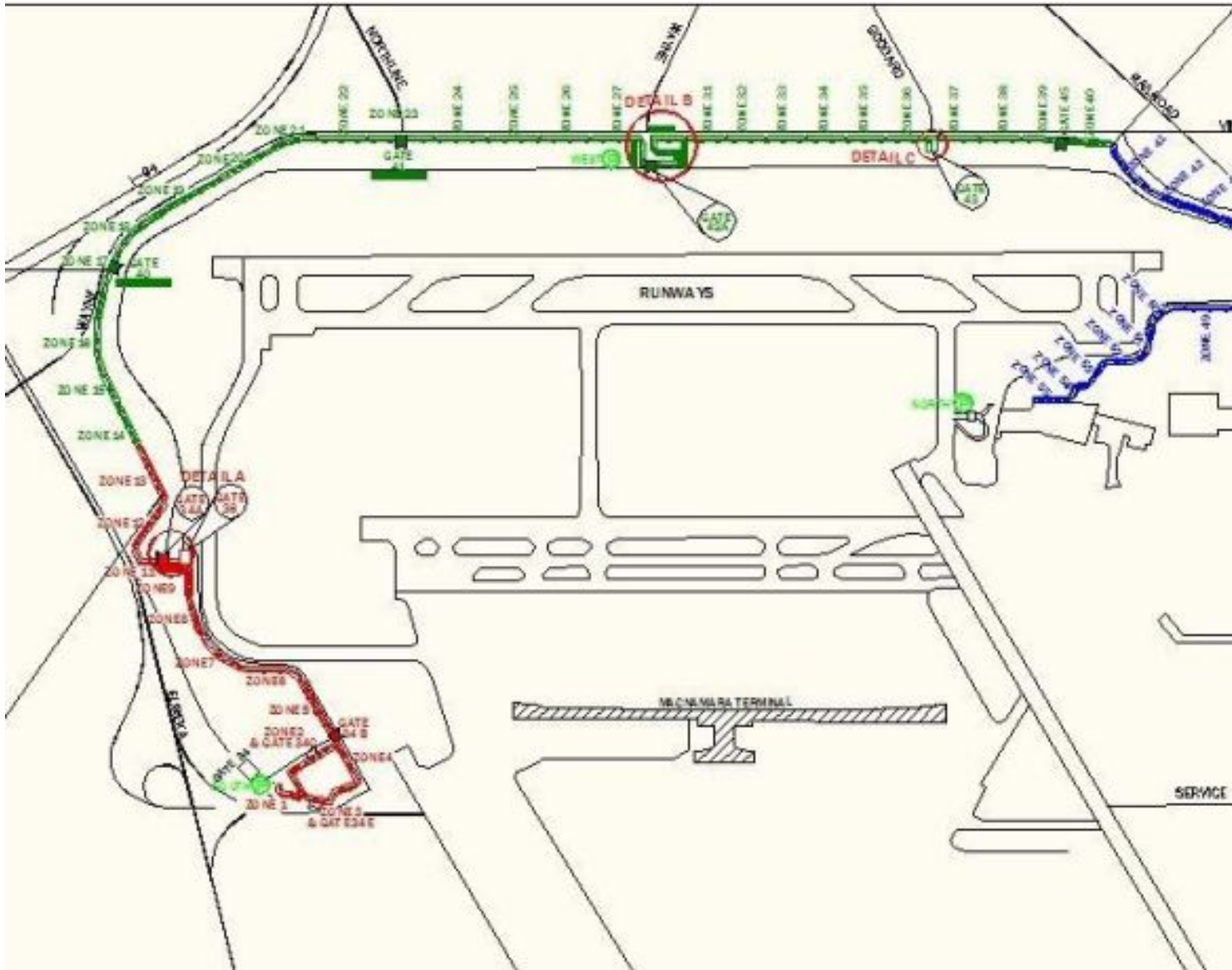
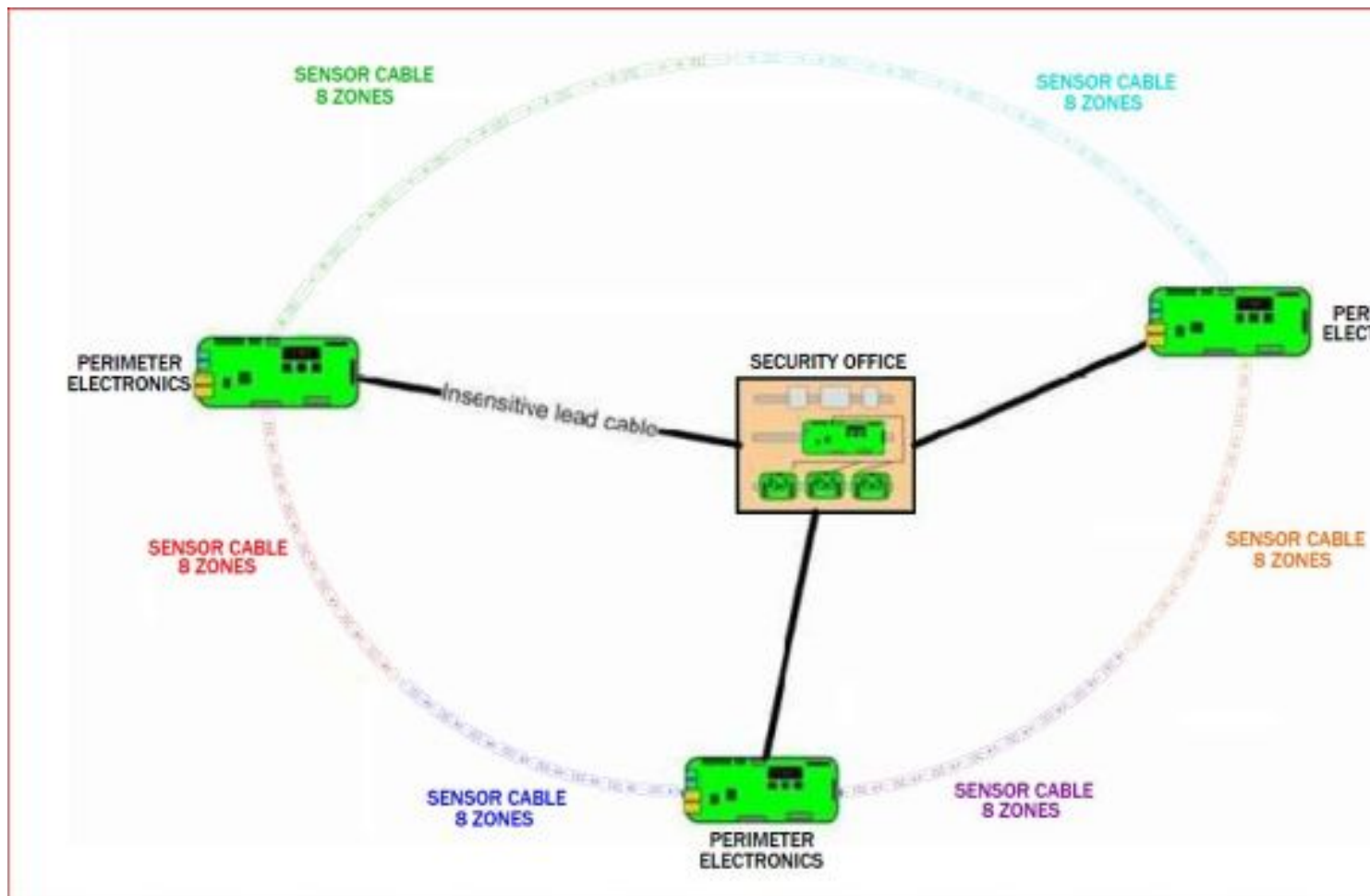


Intrusion Detection for Long Perimeters

Many of the locations that use the Infinity 2020 intrusion detection system are very large. Airports and refineries for example can have perimeters that are many miles long. How do we deal with perimeters that long which may require hundreds of alarm zones?

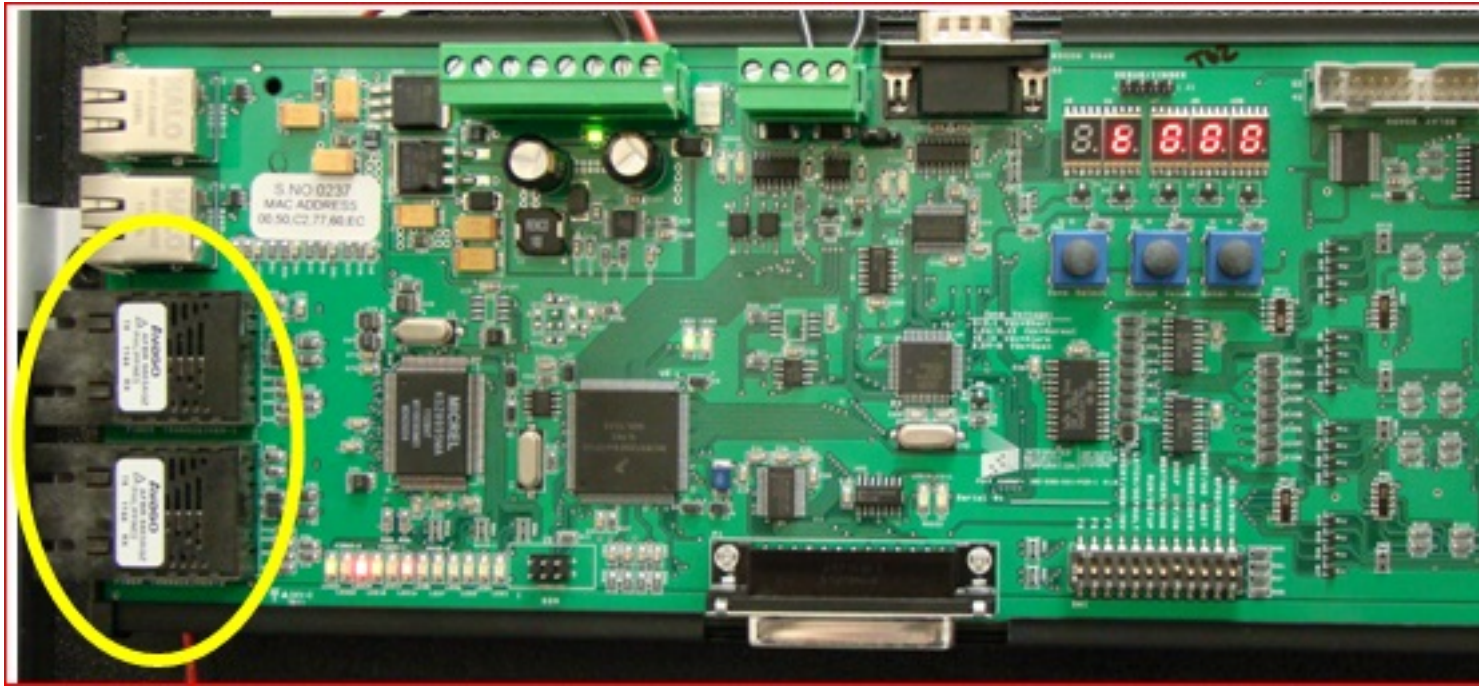


We install multiple linked Vision Boards, the brains of Infinity 2020. If the security control center is centrally located at the site, we might choose to install all of our electronics there and run insensitive "lead cable" from the control room to multiple points along the fence through conduit.



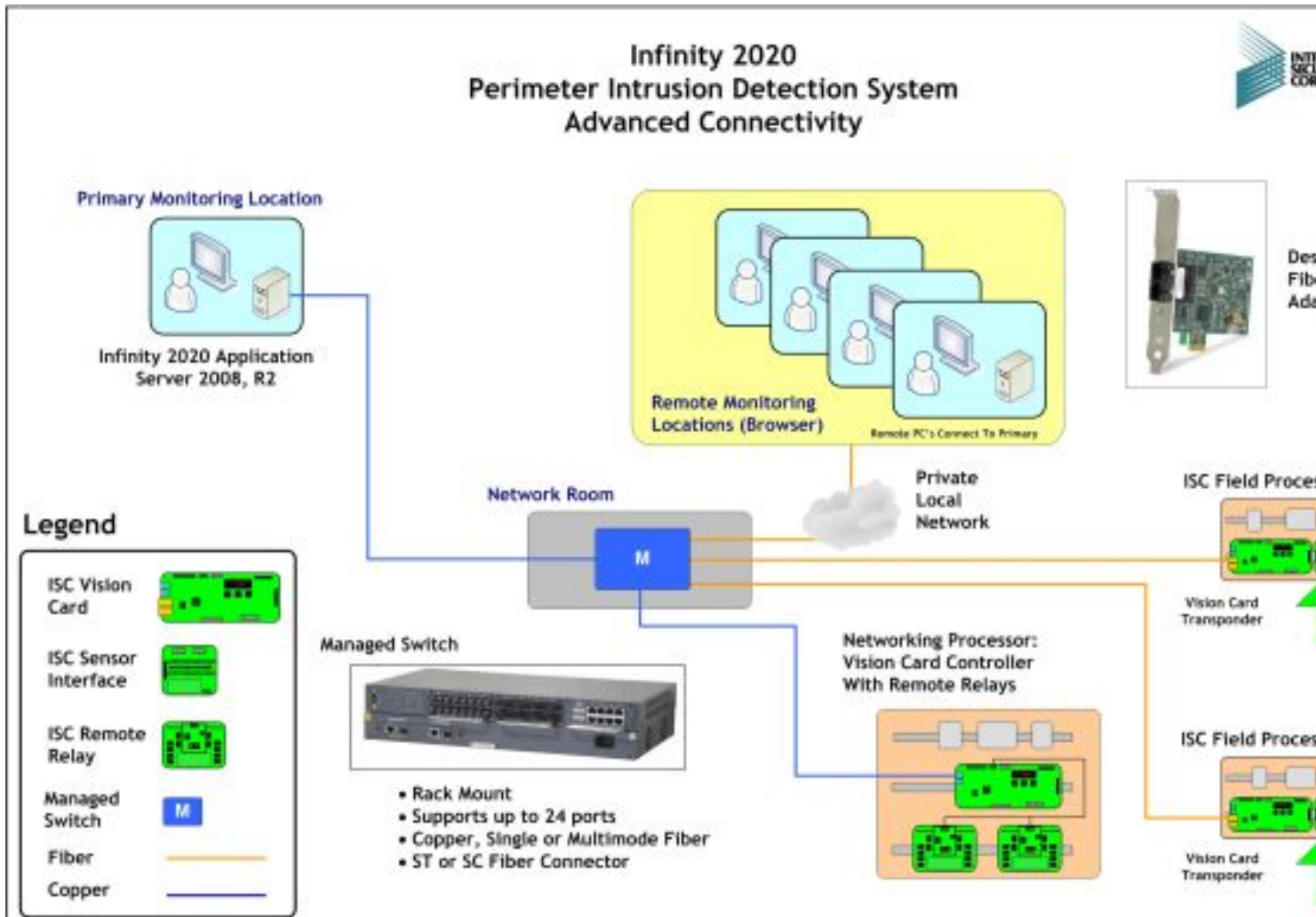
At very large sites however this approach may not work well. The design that has become more common is to install sets of our electronics at multiple points, 4,000 feet to 5,000 feet apart, along the perimeter and link them to each other and the security center over fiber optic cable. Since cameras are often installed and communicating over the same network, there is usually no extra infrastructure to put in place.

We offer a choice of single or multi-mode transceivers built into our Vision Boards.

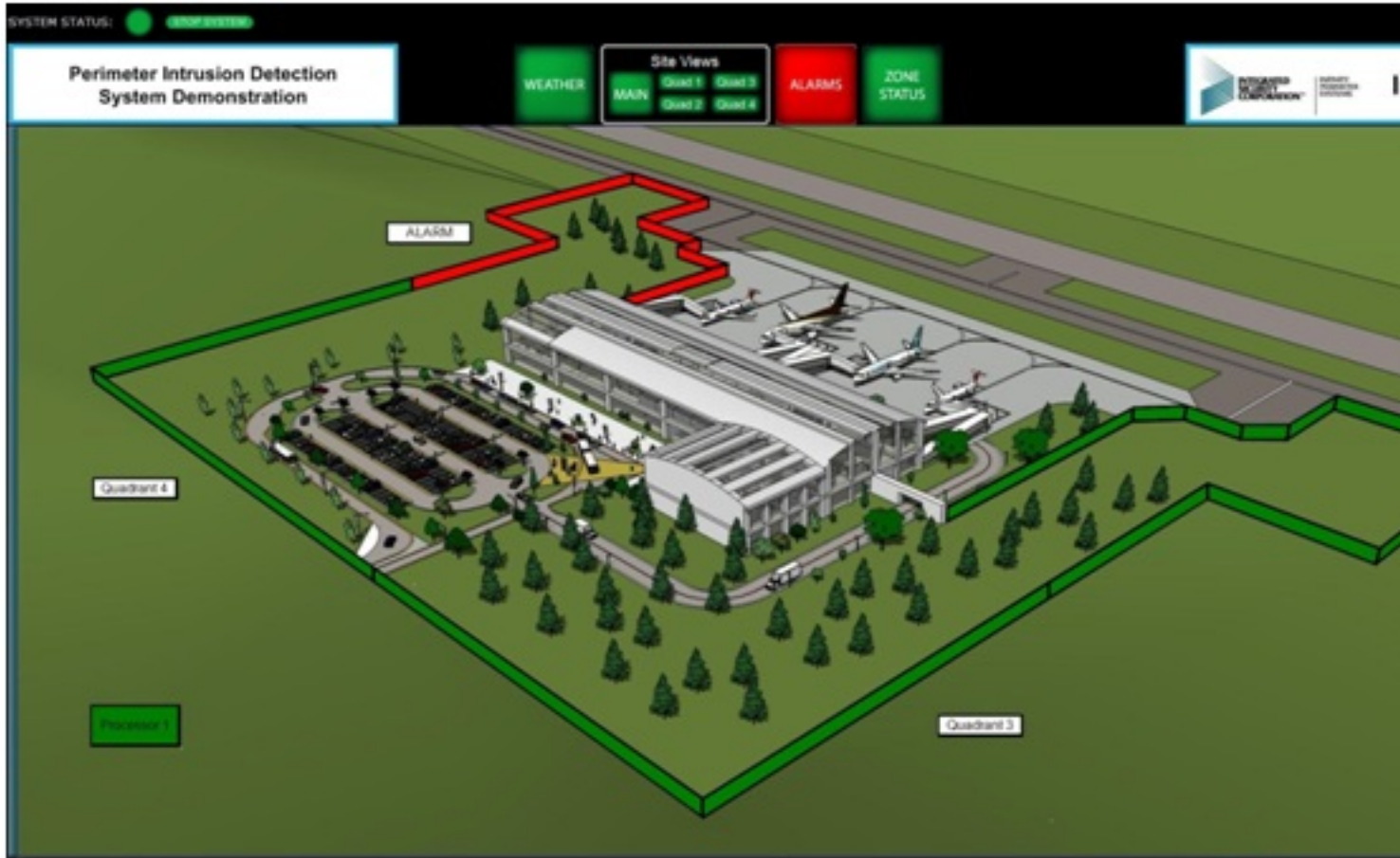


Vision Board w Fiber Transceivers Highlighted in Yellow

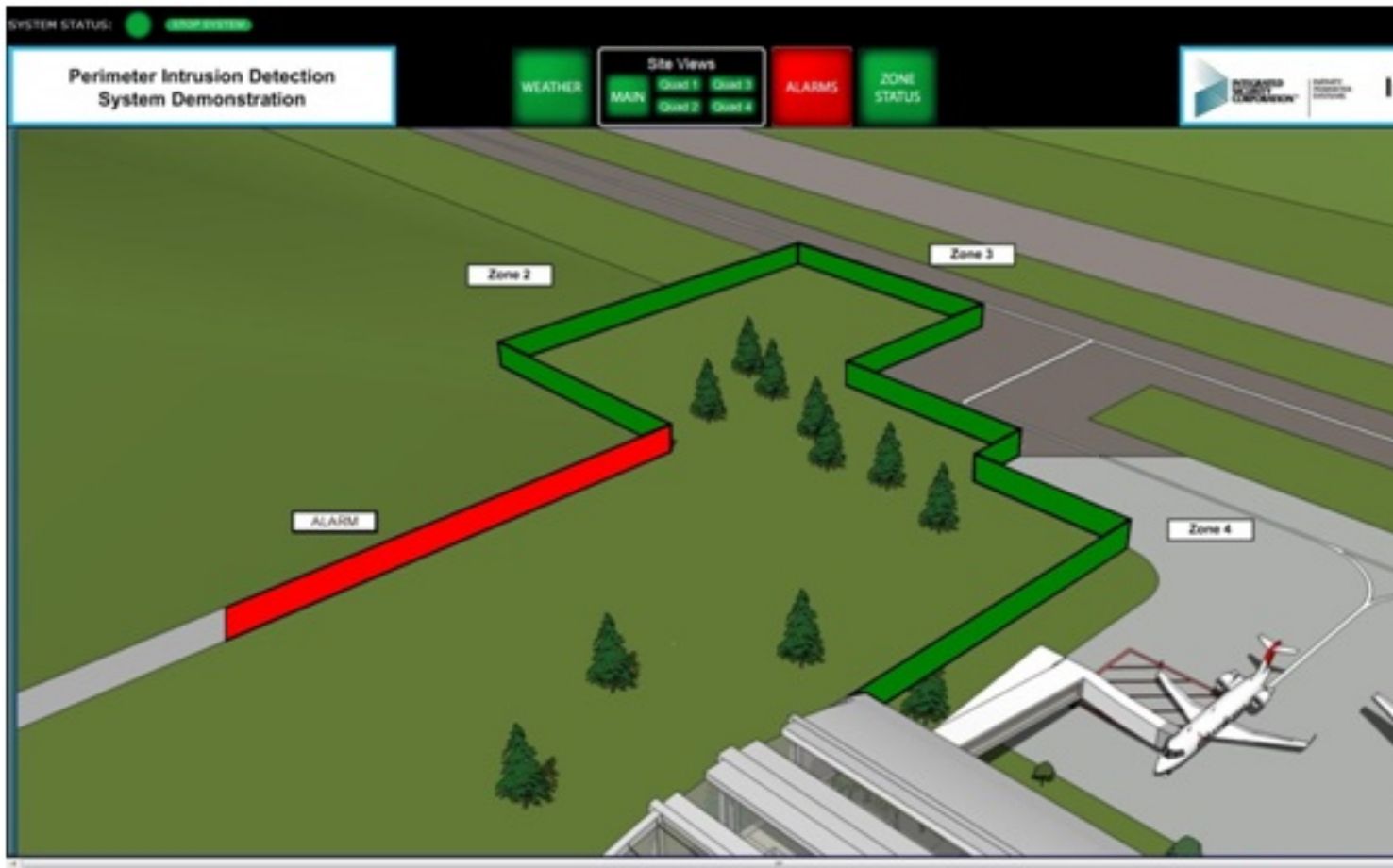
A computer running our software at the Security Center communicates with each of the IP addressable Vision Boards over the fiber network for alarm reporting and sensitivity adjustments. The elements of a perimeter system configured this way are:



Standard Ethernet (RJ45) ports are used for the base system. For long perimeter applications, the base system is connected to a managed switch (M) which supports up to 24 ports. The switch is connected to the primary monitoring location and remote monitoring locations via a private local network. The switch is also connected to a networking processor (Vision Card Controller With Remote Relays) which is connected to the ISC field processor via a vision card transponder.



The image shows a detailed view of the region showing the exact security office can then "drill



The perimeter is a "First Line of Defense" consisting of hundreds of zones spanning many miles of