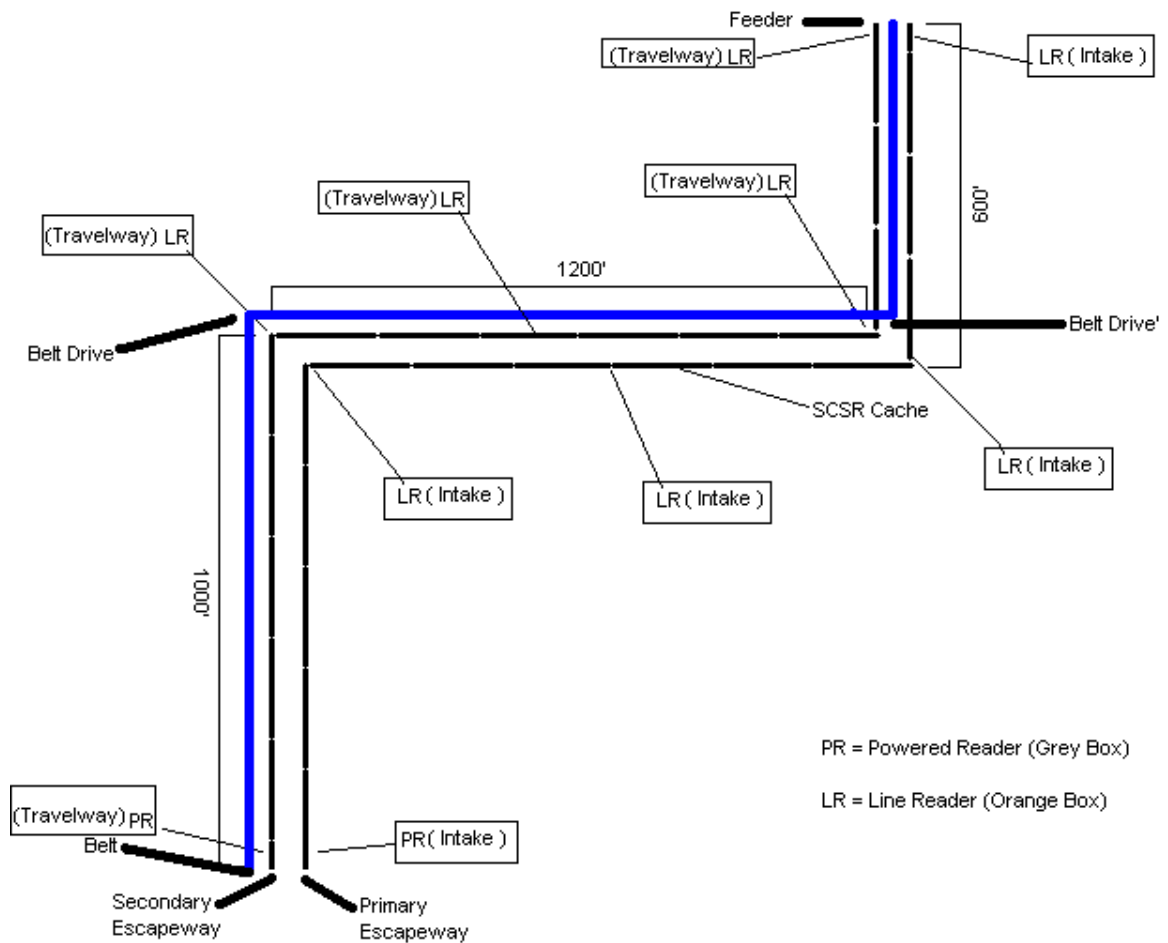


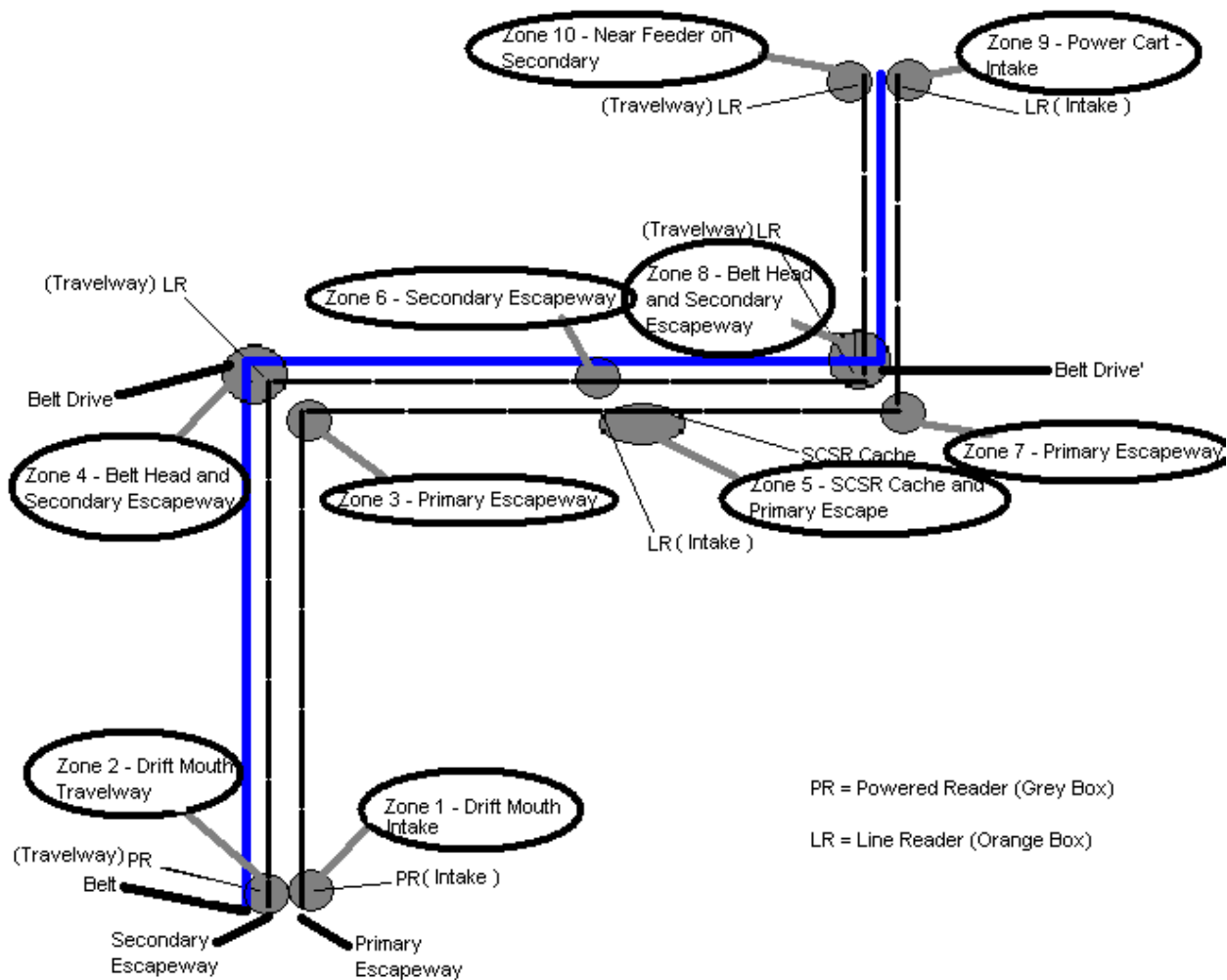
# MineNet® Antenna Placement

Antennas provide range-coverage on tags and communication devices. We have placed antenna readers in certain places to provide coverage to strategic locations between readers. These line readers and powered readers have been placed in both the primary and secondary escapeways to provide a continuous redundant loop of coverage at about 500 feet intervals or less. As an example:

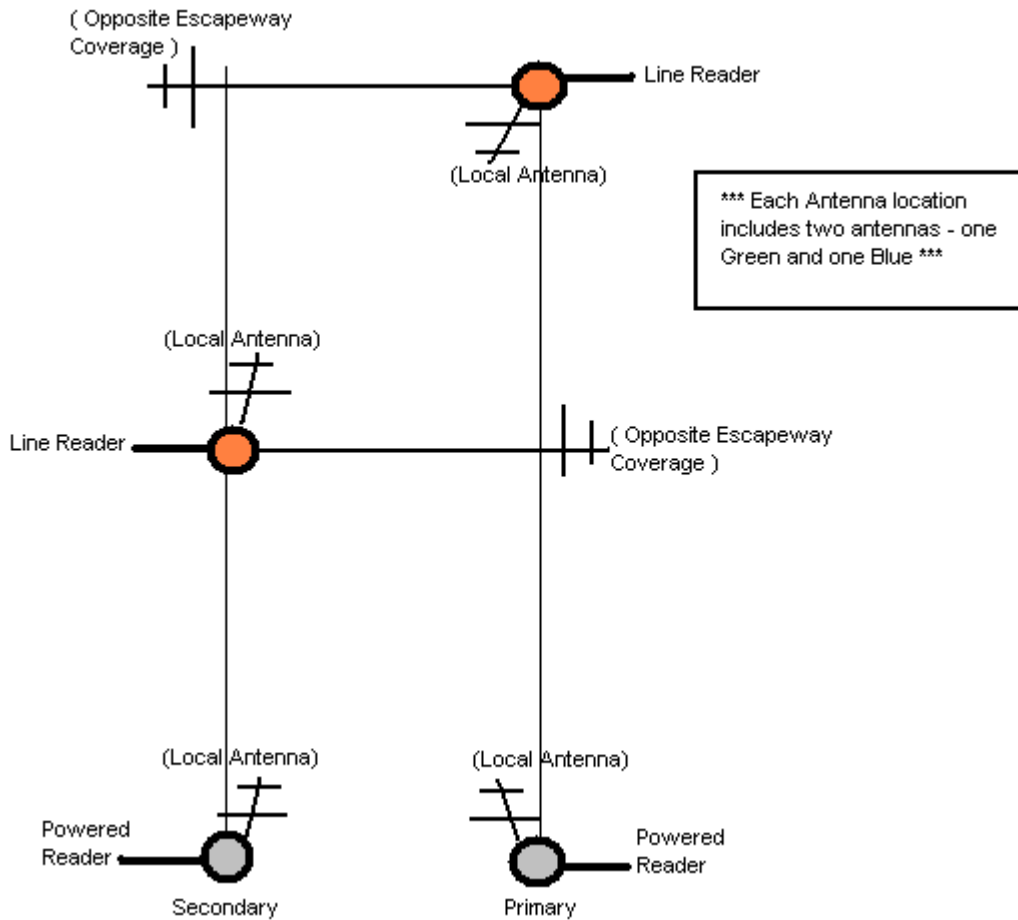


There are two different types of antennas: Tag antennas – (Green Colored) and Communication antennas – (Blue Colored). Both antennas need to be in each zone

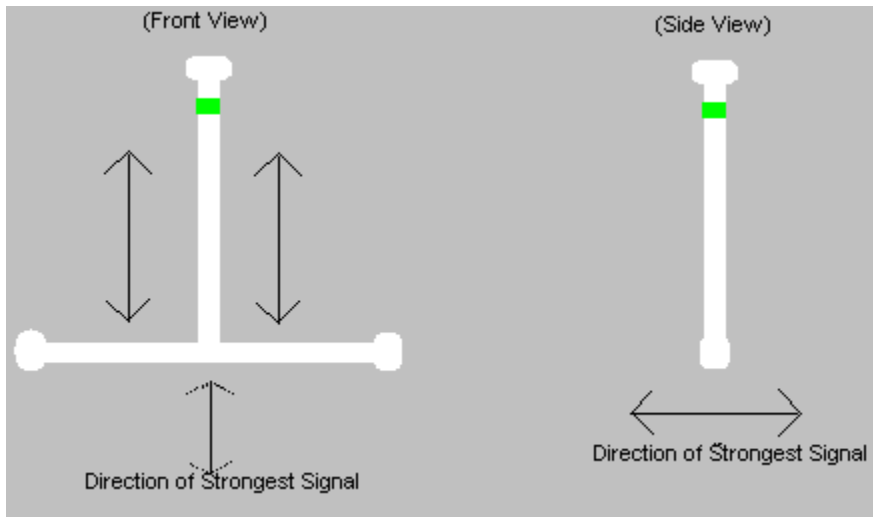
A zone is an area covered by antenna coverage. Zones consist of the primary escape way, secondary escape way, belt drives or transfers, SCSR Caches, and Rescue Shelters. For example:



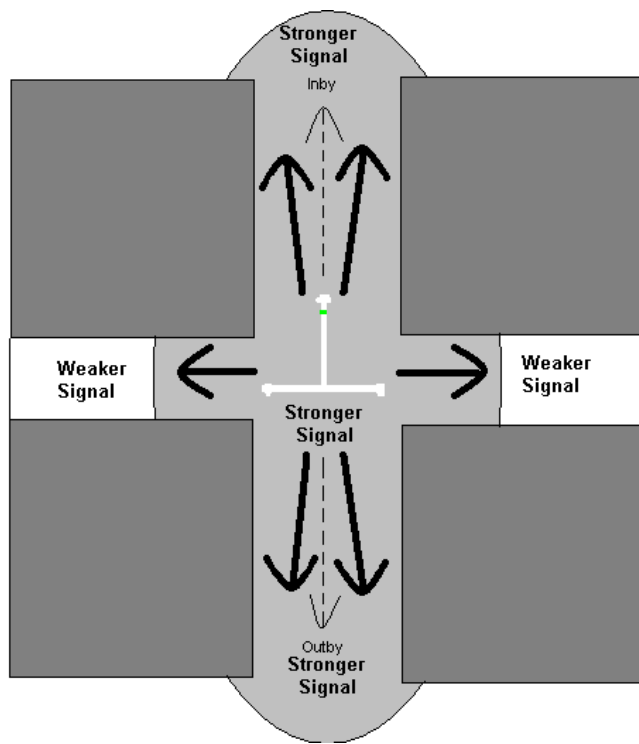
Proper antenna placement is the key to covering specific areas. The antenna can be run up to 320' feet from a line or powered reader. Powered readers just need 20' foot of antenna cable and usually will have just a local antenna near the powered reader itself. Line readers will cover both local and opposite escape way (from its location). For example:



Placement of the “Local” or “Opposite Escape way Coverage” antenna is just as important. The antenna is shaped like a “T” and if you can see the “T” shape that is your line of “Stronger” signal coverage. For Example:



You will also get signal from the “Side View” however it is not as strong as the “Front View”



Keep in mind that if a reader is placed at a strategic location like to cover a belt drive then try to place the antenna where it will hit both the belt head and the travel way at the same time. Just like the above picture the weaker signal area will still get coverage so if a belt drive is down a break, then it will be covered. (Important, do not place antennas in the middle of the pathway, place closer to the rib).