

Antenna descriptions and locations of installations.

The antennas used for testing in the frequency band of 4.4 – 4.99 GHz are as such:

Antenna Type	Azimuth Beamwidth (°)	Elevation Beamwidth (°)	Gain (dBi)
Omni	360	5	12
Sector	60	15	15
1 Foot Panel	14	14	21.5
2 Foot Panel	6	6	27
3 Foot Parabolic Dish	4.7	4.7	30
4 Foot Parabolic Dish	3.6	3.6	32.6

The locations to be used will be from the Harris Building ($43^{\circ}08'51.1''\text{N}$ $077^{\circ}33'26.1''\text{W}$) to locations as far as 60 Km. Most sites communicating with the Harris building will not be a fixed long term location. Testing will be at times mobile, from Harris roof to a test van driving around, and at times will be between two test vans driving around. There have been only two sites identified as long term fixed link candidates: $42^{\circ}59'23.11''\text{N}$ $77^{\circ}40'21.30''\text{W}$ and a building in East Rochester (address & coordinates unknown right now). See image below for area overview.

