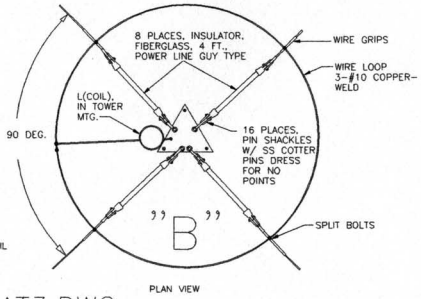
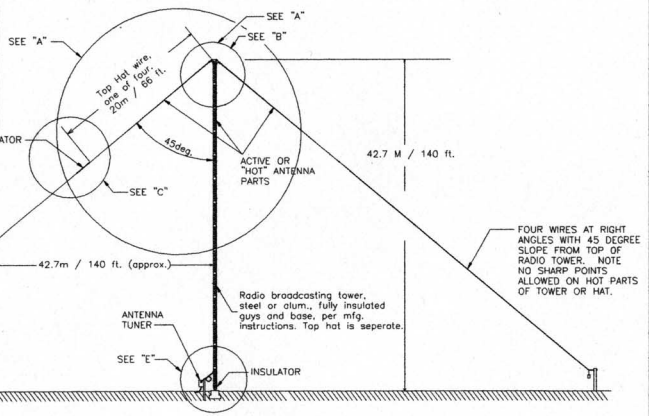
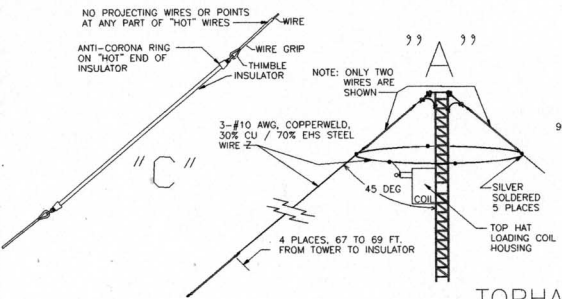
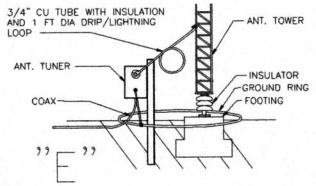
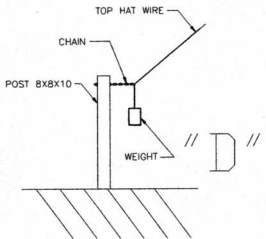


FREQ KHz	R(rad) Ohms	X(base) Ohms	Loss Eff. Ohms %	Range n. mi.
100	.101	-1928	5 1.98%	154 n.m.
200	.409	-948	5 7.56%	326 n.m.
300	.934	-614	5 15.7%	430 n.m.
400	1.70	-441	5 25.3%	494 n.m.
500	2.73	-332	5 35.3%	534 n.m.
600	4.07	-255	5 44.8%	558 n.m.

Antenna with top hat and no loading coil.



TOPHAT3.DWG

Arctic Antenna Company

TOP LOADED VERTICAL ANTENNA
FOR LOW AND MEDIUM FREQS.

June 12, 2001 Big Lake, Alaska