



K4JA – Callao, VA



K4JA – Callao, VA



WB9Z - Crescent City, IL



W7RM - La Center, WA



K3CR – near State College, PA



NØNI – Rippey, IA



NQ4I – Griffin, GA

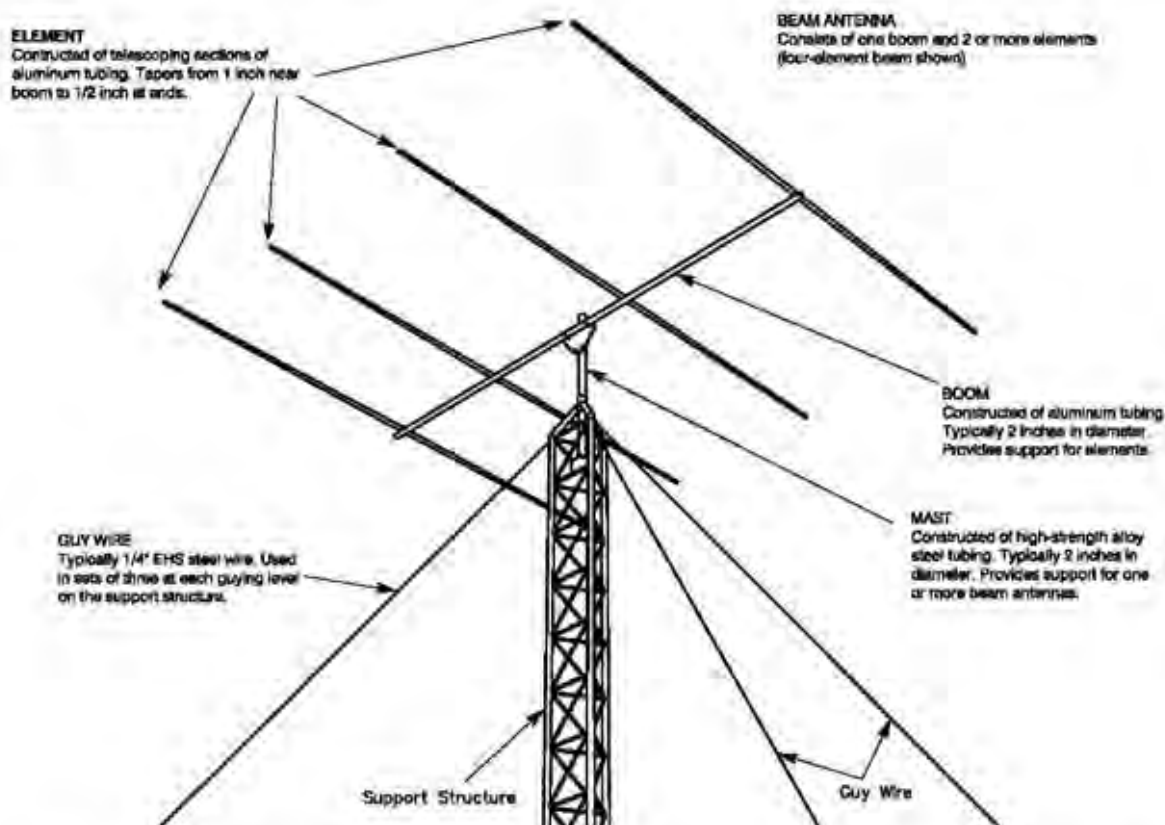


KC1XX- Mason, NH

Exhibit 5

Amateur Radio Antenna Systems that are Ordinary Accessory Uses of a Residence

In contrast to the commercial antenna systems, above, amateur radio antennas, other than whips, are frequently Yagi-style beam antennas.¹ The pictorial below shows a Yagi antenna installation. Here's some nomenclature:



In this case, the antennas proposed are verticals, a whip, and Yagis for amateur radio.

Yagi antennas, atop an antenna support structure, for amateur radio use are, without any doubt at all, normal, reasonable accessory uses to residential real property. See *e.g.*, *Wright v. Vogt*, 7 N.J. 1, 80 A.2d 108 (1951) (holding that a sixty-foot high amateur tower was a permissible use in residential zones); *Dettmar v. County Board of Zoning Appeals*, 28 Ohio Misc. 35, 273 N.E. 2d 921, 922 (Ohio Ct. Com. Pl. 1971) (holding that a sixty-four-foot high amateur radio antenna in a residential, single-family zone was permissible as an accessory use customarily incident to single-family dwellings); *Town of Paradise Valley v. Lindberg*, 27 Ariz.

¹In the 1926, *Dr. Shintaro Uda* and *Dr. Hidetsugu Yagi* of the Tohoku Imperial University invented a directional antenna system consisting of an array of coupled parallel dipoles. This form of antenna is correctly called a Yagi-Uda array, frequently shortened to "a Yagi." Since the 1950's, the Yagi antenna has been the style of amateur radio antenna most widely installed atop antenna support structures. Most typical residential outdoor TV antennas are Yagi antennas.

App. 70, 551 P. 2d 60, 61-62 (Ariz. Ct. App. 1976) (holding a ninety-foot high amateur radio antenna was a permitted use accessory to a single-family residence); *Skinner v. Zoning Bd. of Adjustment*, 80 N.J. Super. 380, 193 A.2d 861, 863-864 (N.J. Super. Ct. App. Div. 1963), (holding that a one-hundred-foot high amateur antenna is a permitted accessory use of residential property).