

Figure 4-23. Self-supporting, hog-guyed pole

ed on a planned time cycle and should provide rd-free operation for at least 2 years to be cost-tive.

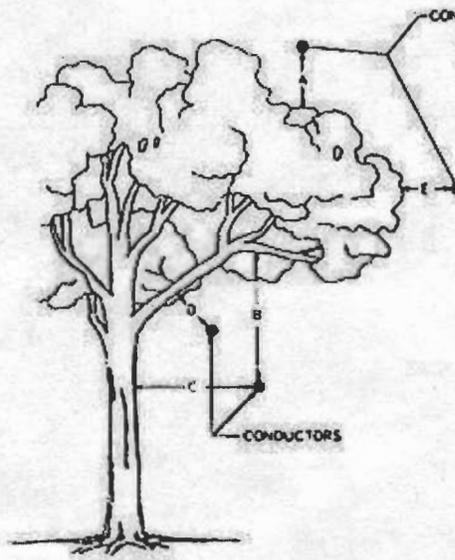
Table 4-5. Number of guy wire clamps

Breaking strength of guy stand		Number of clamps	Type of clamp
Pounds	Kilograms		
4,000	1,800	1	Two-bolt
6,000	2,700	1	Three-bolt
10,000	4,500	2	Three-bolt
16,000	7,200	3	Three-bolt

d. Safety precautions. Tree trimming should be done from a bucket to the utmost extent possible. Even maximum use of buckets will not permit all work to be done without climbing the tree. When tree climbing is required, safety precautions must be observed. Refer to ANSI 2133.1 for tree care operations and safety requirements.

4-54. Tree trimming clearances and climbing space.

Minimum clearances to be maintained between conductors and any part of a tree are shown in figure 4-24. These distances may be increased as desired. Note that distances A and B are measured from the normal sagged position of the conductor, and that distance C, D, and E must be increased by the sag at that point. For tree trimming purposes, the 30-inch (750-millimeter) climbing space dimensions shown in figure 4-1 should be increased to 40 inches (1,000 millimeters), and distances in figure 4-24 should be increased as required to maintain a 40-inch (1,000-millimeter) minimum climbing space.



	0 to 750 v and 13.2 Neutral	750 to 8700 V	13.2 Phase to 40 Kv	120 Kv
"A" TOP OF TREE	3ft(0.9m)	5ft(1.5m)	8ft(2.5m)	15ft(4.5m)
"B" OVERHANGING LIMB	15ft(1.5m)	10ft(3m)	AVOID	AVOID
SAG OF LINE PLUS				
"C" MAIN TRUNK	2ft(0.6m)	2ft(0.6m)	6ft(1.8m)	AVOID
"D" MAIN LIMB	4ft(1.2m)	4ft(1.2m)	7ft(2.1m)	AVOID
"E" BRANCHES	5ft(1.5m)	5ft(1.5m)	8ft(2.5m)	12ft(3.7m)

Includes System Communication Taps or leaves shall not be allowed to touch System Communication bare wires.

Figure 4-24. Recommended minimum clearances for tree trimming