

## **Artificial Aspects of the “Cenote”**

### **Containment Structure:**

Solid concrete--- gunnite surfaced with black marcite, it contains 74,000 gallons, in three connected pools: 1 ½ -foot-deep wading pool, 4-foot-deep pool, and 9½-foot-deep pool. The two main pools form an oval cylinder, the four-foot pool being like a gibbous moon, and the nine-foot pool being an oculus.

### **Re-Circulation Pump:**

Five-Horse-Power Electrical Motor runs the Pump, set below the level of the pool, down the hill. The pump works 24/7 year-round. The electricity is single-phase, from Florida Power and Light.

### **Circulation:**

Water is sucked down through the coarse gravel bed on the bottom of the deepest pool, into perforated plastic pipes that spoke into the main drain; some water also is drawn from the surface by two small skimmers, one of which skimmers goes to the NW bio-filter, shared with the wading pool. All the water then goes through the pump, then through the UV units, then some of it goes to the wall holes of the four-foot pool and to a small planted bio-filter and tiny waterfall; and some of the water goes to the three main waterfalls--- the four-foot pool flows over into the nine-foot pool, and the three main waterfalls fall into the nine-foot pool, then down through the gravel again.

A little water goes from the pump to flow over an algae-covered rock into the wading pool, then through a small planted bio-filter to a pipe under the deck to the larger NW planted bio-filter, then back to the pump.