



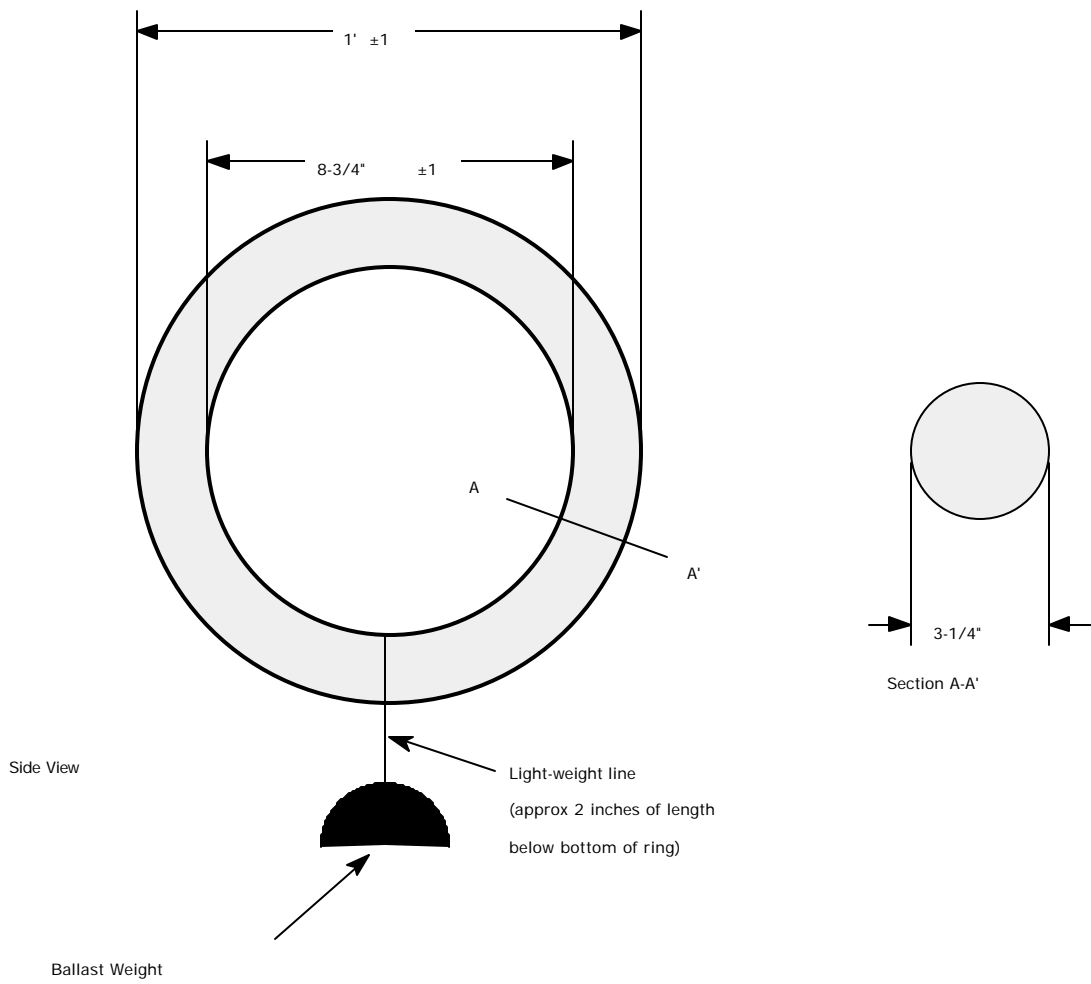
Description of the Beacon for the 3rd International AUV Competition

The beacons consist of three components:

1. The recovery ring
2. The acoustic source
3. The optical source

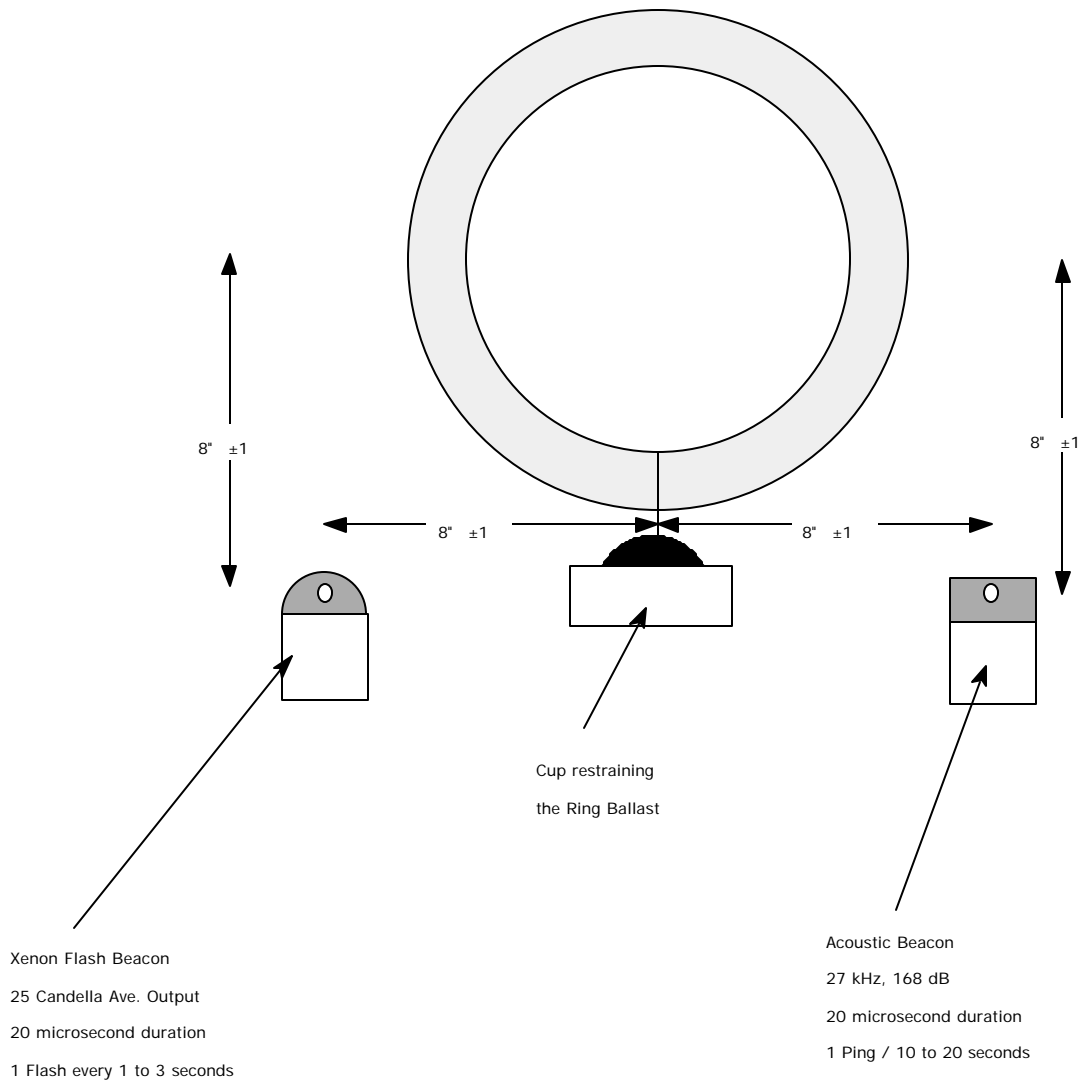
The ring is shown in Figure 1. It is a buoyant torus of closed-cell foam, with a ballast weight hung from a short line. Together, the ring and weight are very slightly negative to keep the ring on the station. As shown, the ring is approximately 12 inches in diameter. Its deviations from roundness will be less than $\pm 1''$. The weight is suspended from the ring by a short line. Teams should not try to use the line to pick up the ring.

Figure 2 shows the relative positions of the two beacons and the ring. In Figure 2, the open circles in the strobe and pinger symbols denote the center of their respective transducers. All measurements are made to those centers. Figure 2 does not show cabling, nor does it show a control box that will be below the transducers. The specifications are shown on Figure 2.



Marker Ring (Rev 1.1)
 Ring is Closed Cell Foam (Bright Orange)
 Weight is Steel
 J. Bales, 10 March 2000

Figure 1. The Marker Ring.



NOTE:

Ring is &Weight together are slightly negative. Our intention is to have weight on or near bottom, but cannot gaurantee the ring's altitude off of bottom.
(We will keep the ring and beacons clear of underwater foliage).

Beacons And Ring (Rev 1.1)
J. Bales, 10 March 2000

Figure 2. Arrangement of Ring and Beacons.