

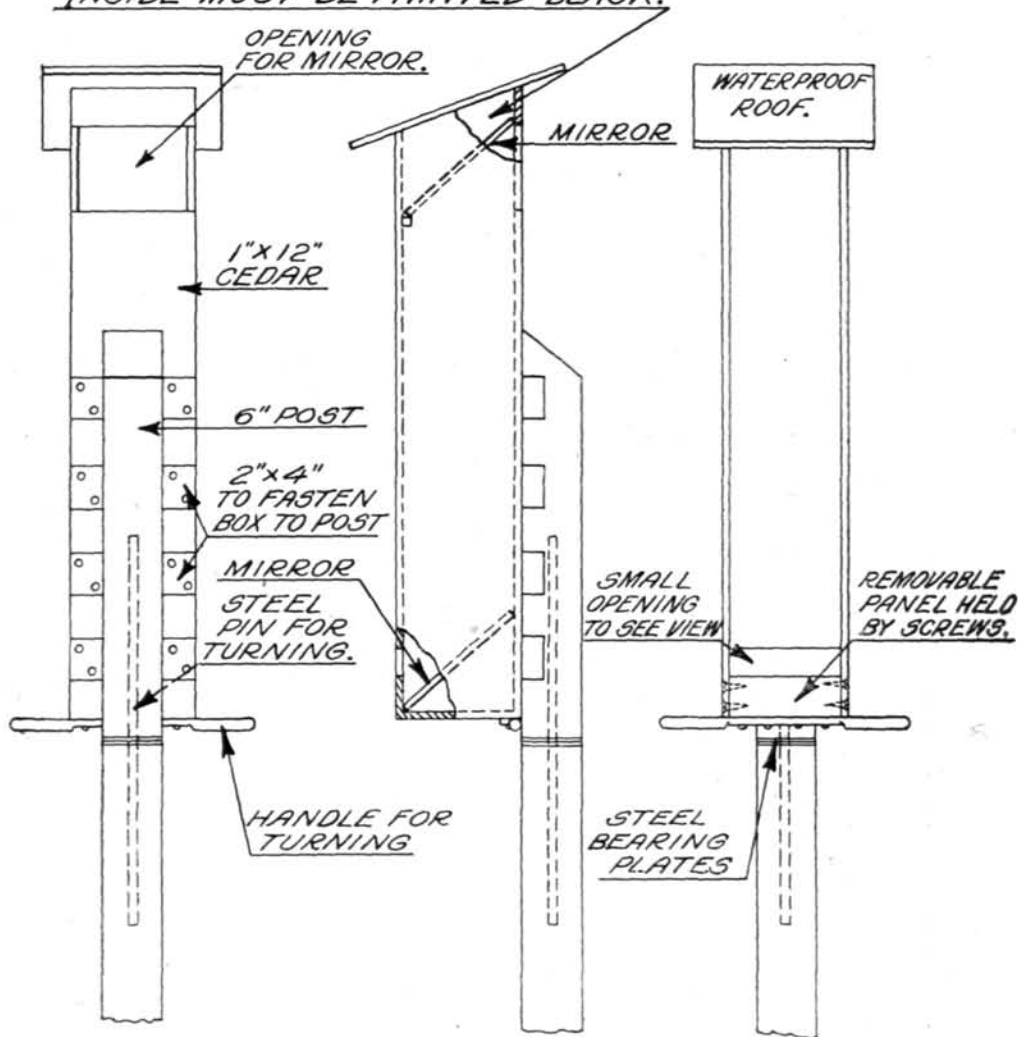
### A Periscope for Use in Connection With Blind Holes

By E. F. McRae, Shaughnessy Heights Golf Club, Vancouver, B. C.

We have a blind hole on our course, and I have devised a periscope for use in connection with this hole which is giving us gratifying results. The general plan and important details of the apparatus are illustrated in the accompanying sketch.

The height above ground of the upper mirror and the angle at which the mirrors are set will of course have to depend upon local conditions, but the two mirrors will have to be adjusted to sit at the same angle. The top of our periscope box is 15 feet above the surface of the ground, and the lower mirror is 4½ feet above the ground, low enough for use by

INSIDE MUST BE PAINTED BLACK.



FRONT ELEVATION.

SIDE ELEVATION.

REAR ELEVATION.

Plans of Periscope for Use with Blind Holes

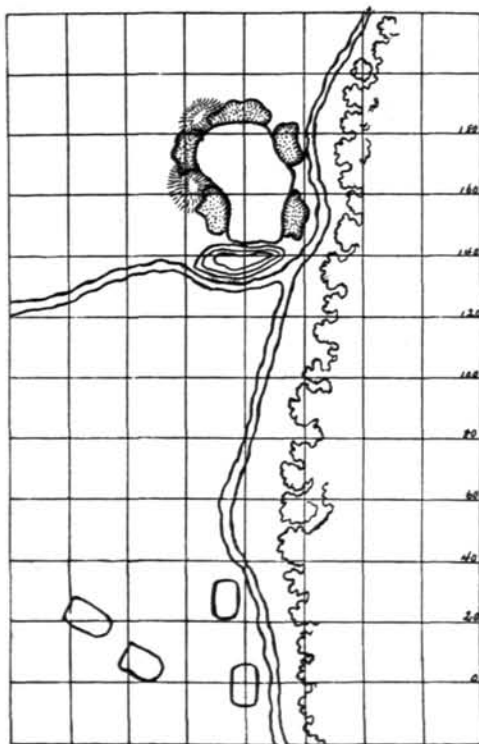
a boy in sighting but not so low that a tall man is unable to use it by bending down to sight. The fastened supporting post extends 3 feet under ground and  $3\frac{1}{2}$  feet above ground. The turning post, to which the periscope box is attached, is connected with the fastened post by means of a  $1\frac{1}{4}$ -inch by 40-inch steel pin, and the abutting faces of the two posts are fitted with steel bearing-plates. The pin should fit loosely enough to allow for a little play so as to permit of ease in turning the box. The periscope box is made of 1-inch by 12-inch cedar boards, and must be painted black inside. The upper mirror rests on a cleat, and the lower mirror on the bottom of the box. Holes may be bored in the bottom of the box to permit of drainage, if desired, although we have not found this necessary, as the overhang of the roof prevents most of the rain from blowing into the box. We, of course, had to have mirrors cut to fit our box. In order to preserve the back of the mirrors from the effects of dampness, I glued asbestos on the back of the mirrors, with waterproof glue, and shellacked the edges. For a turning handle I use a shovel handle fastened to the bottom of the box by means of screws.

Our periscope takes in the whole of a 360-yard hole.

**Greenkeepers' Register.**—The editors of THE BULLETIN will be glad to receive letters from greenkeepers seeking employment and forward names and addresses to clubs in need of greenkeepers. Applicants should indicate their experience, age, and references.

### Instructive Golf Holes XI

No. 9 Merion Cricket Club (East Course), Haverford, Pa., 160 to 180 Yards



This is an extremely fine "midiron" hole. It extends nearly due north, the way from the tee to the green being a gentle down-slope. On the right are woods, out of bounds. The front of the green is guarded by a pond formed by damming the small creek. While the putting sward is almost surrounded by bunkers, it is fairly generous in size, measuring about 7,500 square feet, and is well backed up, so that it is readily held by a high shot. Such a long high shot is, however, one of the really difficult shots in golf. The water hazard in front of the green might, where desirable, be represented by a sand bunker.