

PATENT GUY ANCHORS SWAMP ANCHORS

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1. DESCRIPTION

1.01 Swamp anchors, shown in Fig. 1, are of the screw type and consist of a helical plate, iron pipe for rods and a pipe eye nut for attaching the guy strand.

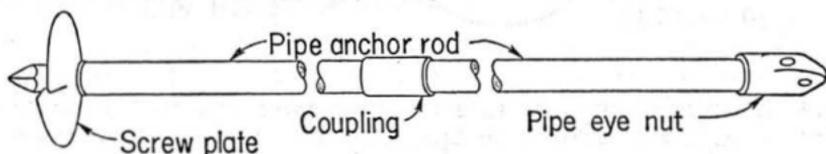


Fig. 1

1.02 The following table lists the sizes of swamp anchors, the maximum size of guys used with them and the sizes of pipe used for guy rods.

<u>Size of Anchor</u> (Inches)	<u>Maximum</u> <u>Size of Guy</u>	<u>Size of Pipe</u> (Inches)
10	6M	1-1/2
12	10M	2
15	16M	2

2. PIPE AND COUPLINGS

2.01 The pipe used for guy rods should be of the extra strength type to withstand the torque imposed while turning the anchor into the ground. It should be obtained locally in 5 or 10-foot lengths and threaded for 1-1/2 inches on each end.

2.02 If more than one length of pipe is required to reach the desired depth the pipe couplings should also be of the extra strength type.

3. INSTALLATION

3.01 Place the anchor in the following manner :

- (a) Dig a hole about one foot deep and large enough to take the screw plate to be used. Place the screw plate, with pipe attached, in the hole and align the pipe with the direction of the guy. The start of the installation is shown in Fig. 2.

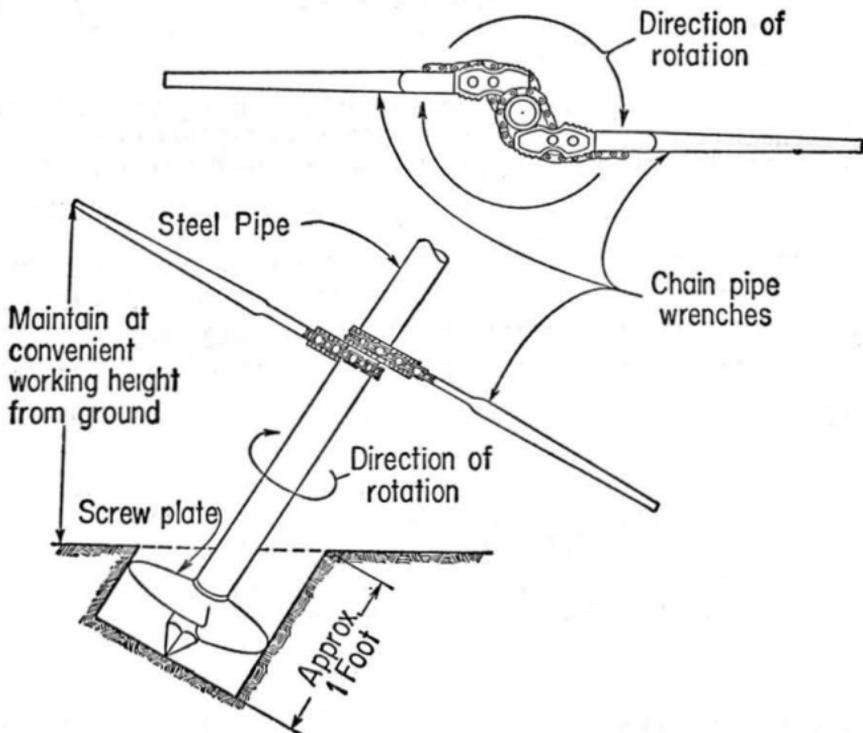


Fig. 2

Note: Do not place wrenches on the threaded portion of the pipe.

(b) With the pipe held in this position attach two chain-type pipe wrenches so as to turn the anchor in a clockwise direction.

(c) Turn the anchor into the ground by means of the pipe wrenches. When the wrench handles are so low that manipulation becomes difficult, shift the wrenches on the pipe to as great a height as possible for convenient turning. Continue the process until the anchor has been sunk as far as practical with the first length of pipe. Care should be taken in placing the wrenches so as not to injure the pipe and to minimize scaling and removal of galvanizing.

(d) Turn the anchor into the ground until the pipe can no longer be turned with four men operating the wrenches with a three-foot extension on each wrench handle. If this condition is not obtained with the first length of pipe, attach a second length of pipe with a pipe coupling and continue the operation, placing additional lengths, if necessary, until the anchor can no longer be turned by four men on the wrenches.

(e) When the anchor has been set, screw a pipe eye nut on the end of the pipe to provide a means for attaching the guy.

4. CORROSION PROTECTION

4.01 Where specified by plans or other instructions a half-lapped layer of Pitch Tape may be placed on the pipe anchor rod and couplings for corrosion protection. Place the tape in a counterclockwise direction starting at the screw plate. In applying Pitch Tape, follow the instructions and precautions contained in Section G56.610.1, "Cable Splicing—Buried Splice Protection."