

## **GUYING**

### **EXTENDING GUY RODS**

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#### **1. GENERAL**

1.01 Extending the length of a guy rod or providing an additional eye on rods for the attachment of an additional guy strand can be accomplished by use of a guy rod clamp.

#### **2. DESCRIPTION**

2.01 Two clamps are available for use on the standard size guy rods as follows:

<u>Size of Guy Rod</u>	<u>Type of Clamp Used</u>
1/2 inch	3-Bolt Guy Clamp
5/8 inch	B Guy Rod Clamp
3/4 inch	B Guy Rod Clamp
1 inch	B Guy Rod Clamp
1-1/4 inch	None*

\*The B Guy Rod Clamps are not designed to develop the full strength of a 1-1/4-inch rod and should not be used on rods of this size.

#### **3. EXTENDING LENGTH OF GUY RODS**

3.01 Fig. 1 illustrates the method of extending an existing guy rod.

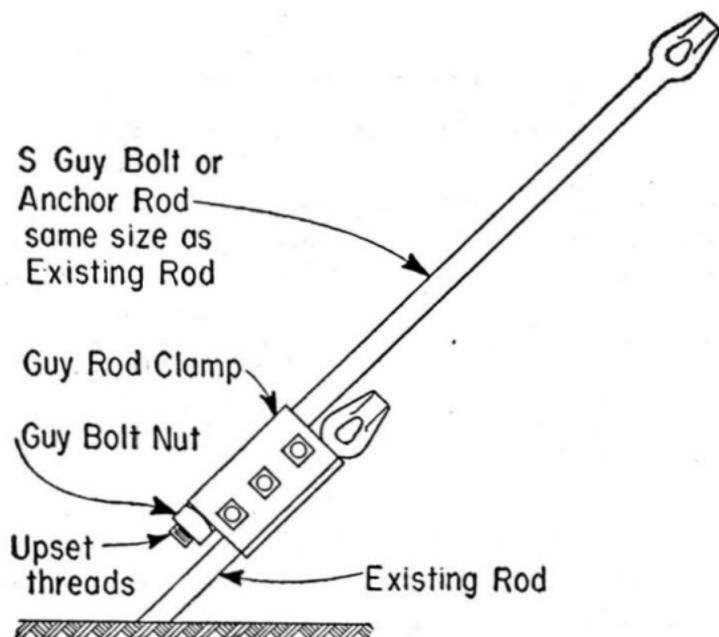


Fig. 1

3.02 A guy rod or S guy bolt of standard length should be used for the extension.

#### 4. ADDING EYE TO GUY RODS

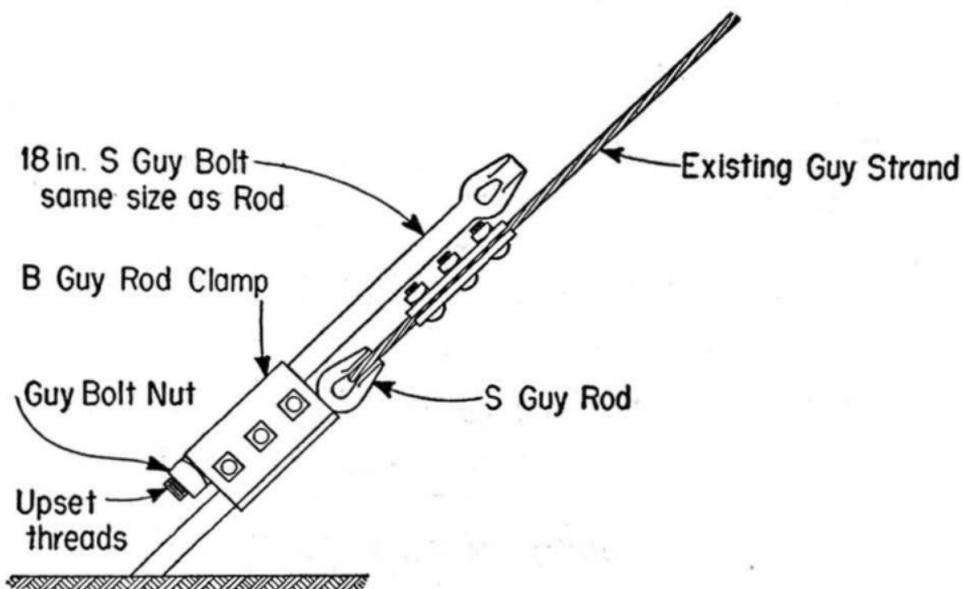
4.01 The capacity of the various types and sizes of anchors and rods are detailed in G23.125 and G23.130, as well as the size of the guy strand for which the rods are generally intended. Any combination of guys may be used provided they do not exceed the maximum capacities shown in Table 1.

Table 1

<u>Size of Rod</u>	<u>Maximum Capacity Guy Strand—Pounds</u>
1/2"	2,000
5/8"	6,000
3/4"	12,000
1"	20,000
1"	25,000*

\*Where it is known that the anchor is 4 way 12 inch.

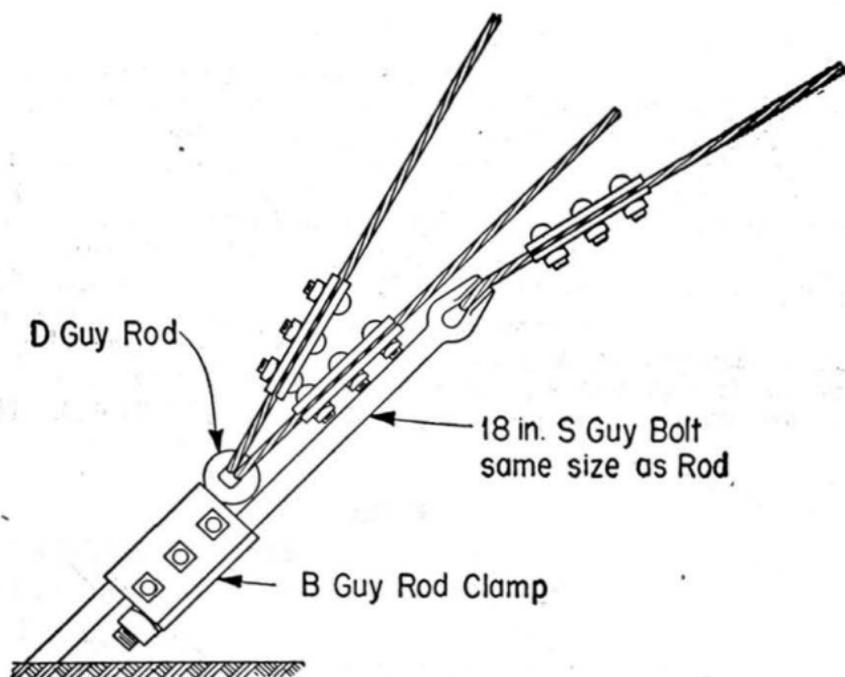
4.02 Where spare guying capacity exists in the anchor an additional eye may be added to a guy rod by using the B guy rod clamp and S guy bolt. This would not apply to a 1/2-inch guy rod, since the capacity of the anchor is one 2.2M guy strand. Fig. 2 illustrates the method of attaching the S guy bolt.



**Fig. 2**

4.03 The size of the S guy bolt should be the same size as the anchor rod, regardless of the size of guy to be added. The guy bolt may be above or below the rod depending upon the position of the strand to be added.

4.04 Where a double thimble rod is in place and additional capacity is available in the rod and anchor, the additional eye can also be provided by the use of the S guy bolt. Fig. 3 illustrates the method of attaching the bolt in such cases. If joint use is involved, one utility may require two guy strands and the other utility one. The guy rod clamp and guy bolt should be so positioned that the utility requiring two guy strands will be able to associate their guys.



**Fig. 3**