

## INDIANA BELL INSTRUCTIONS FOR BURIED CABLE AND CLOSURE MARKERS

### 1. GENERAL

1.01 This section is reissued to:

- (a) Provide local instructions for buried cable caution signs,
- (b) Cancel the "B" and "C" System approved Buried Cable Warning signs,
- (c) Refer to 629-020-005 for information concerning the D and F Buried Cable signs, cable locations, and cable location number plates,
- (d) Make general revisions in text to include the use of the Caution Telephone Closure sign,
- (e) Clarify the use of the 8" X 8" Caution Buried Cable sign and the forces responsible for placing extra caution signs, and
- (f) Include information on the #72 mounting bracket and 8 ft. aluminum channel post.

### 2. DESCRIPTION

2.01 Three signs are available, two 8" X 8" signs and one 10" X 14" sign.

2.02 The 8" X 8" Caution Buried Cable sign is constructed of .060 gauge steel with black printing on a yellow background, with two 5/16" diameter mounting holes. (Figure 1)



FIGURE 1

2.03 The 8" X 8" Caution Telephone Closure sign is constructed of .075 gauge plastic with black printing on a yellow background. (Figure 2)



FIGURE 2

2.04 The 10" X 14" Caution Buried Cable sign (see Figure 3) is constructed of .060 gauge steel with black printing on a yellow background with two holes of 5/16" diameter for mounting. Additional smaller holes are provided to attach a location marker.



FIGURE 3

### 3. USE

3.01 The 8" X 8" Caution Buried Cable sign shall be used in congested areas such as an apartment complex, housing additions, and trailer courts.

3.02 The 10" X 14" Caution Buried Cable sign shall be used in urban and rural areas where greater visibility is desired; also on all toll, trunk or EAS cables which might isolate a community or area if they are damaged.

#### NOTICE

Not for use or disclosure outside Indiana Bell  
except under written agreement.

## SECTION 629-200-901NB

**3.03** The Caution Buried Cable signs, whenever possible, shall be placed at the following locations:

- (a) At or near splice locations
- (b) Where the route of the cable changes direction
- (c) At each side of road crossings
- (d) Crossing under or over pipe lines
- (e) Railroad crossings
- (f) Where excavation work is likely to be performed
- (g) At borrow pits
- (h) At the crest of hills
- (i) At entrances to property traversed by the cable
- (j) At irrigation, erosion control, or where similar activities are practiced

**3.04** Where practicable, the 10" X 14" or 8" X 8" Caution Buried Cable signs should be placed in fence lines or at other locations where they will not inconvenience the occupant of the property.

**3.05** On state highway right-of-way, the location of the markers shall be shown on the work print.

**3.06** In any case, consult the proper authorities before placing the warning signs.

**3.07** On buried cable routes where the markers are not shown on the work print, use 1500 feet as a guide for the maximum distance between signs.

**3.08** The 8" X 8" Caution Telephone Closure sign shall be used at cable closure locations where the closure is likely to become hidden by high grass or underbrush, subjecting it to roadside mower damage, and at locations where the closure is likely to become covered or damaged by snow removal equipment.

### 4. MOUNTING

**4.01** The Caution Buried Cable signs shall be mounted on a U channel steel post, wooden post, fence, or gate.

**4.02** The steel post, rib-bak "U" channel weighs 2 lbs. per foot is available in 7', 8', 9', 10', and 12' lengths. The 7' post is available in red or green color and both are stock items. The posts have baked enamel finish and have 3/8" holes on 1" centers. These posts shall be driven into the ground 2 to 2-1/2 ft., depending on soil conditions.

**4.03** The red posts are standard in rural areas where higher visibility is desired. Green posts should be used in urban areas where it is desirable that they blend in with the surrounding landscape.

**4.04** A post driver and a steel cap which fits the top of the U channel steelpost is available from the supplier and should be used to drive the posts. If a post driver is not available, a heavy hammer may be used. Eye goggles shall be worn when driving a post in this manner. Before a post is placed, first verify the location of all buried utilities.

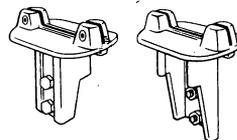
**4.05** If the channel steel post is not available, an 8 ft. aluminum channel post with Bell System engraved may be used.

**4.06** The 10" X 14" Caution Buried Cable signs should be mounted to the U channel posts by using a #1 "U" cap or a #72 Ma Bell Utility Bracket Sign Holder. If desired, a #1 cap top may be used on the upper edge of the 10" X 14" sign to attach the "D" directional sign. (Figure 4)

#1 Cap Top



#1 "U" Cap



NO. 72 MA BELL  
UTILITY BRACKET  
3 3/8" SIGN HOLDER



NO. 457  
BRACKET

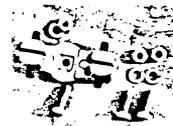


FIGURE 4

**4.07** The 8" X 8" Caution Buried Cable sign mounts to the U channel post using two 5/16" X 2" hex head bolts. At temporary locations, such as a construction project, the #35-112 post may be used for mounting the sign. Use the two #6 32" X 2" tress head bolts furnished with the post to mount the sign to the post. Excessive length of the bolts, if any, shall be cut off. The #35-112 post shall be placed at least 12" deep. Before the post is placed, first verify the location of all buried utilities.

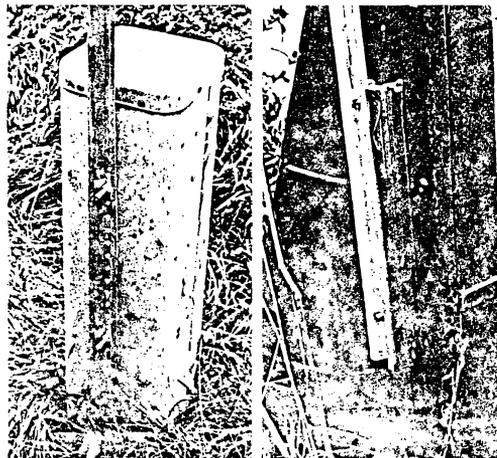
**4.08** When the Caution Buried Cable signs are attached to fences, wooden post, or gates, use lashing wire of 1" #10 RH galvanized wood screws through the holes provided.

**4.09** The Buried Cable Caution signs shall face in the direction from which approach to the cable route is most likely.

**4.10** The 8" X 8" Caution Telephone Closure sign shall be mounted to a 6 ft. light weight aluminum post using one #457 bracket. The bracket is mounted to the side of the post with one 5/16" X 7/8" bolt, lock washer, and nut. The sign is held in the #457 bracket by four 5/16" knurled set screws. Screw the set screws on one side of the bracket flush with the inside of the bracket channel. The other two set screws are used to tighten against the sign. (Figures 2 & 4)

**4.11** The 6 ft. aluminum post, which has 5/16" holes on 1" centers punched on both ends, shall be mounted to the back of the cable closures with two 5/16" X 7/8" bolts, lock washers, and nuts. The 5/16" X 7/8" bolts can be inserted through the "knock-outs" in the back of some closures or to the support post in the back of others. (Figure 5)

**4.12** Closures that have neither "knock-outs" or support posts to the back of the closure will be drilled with two 5/16" holes. Care should be used not to damage the cable conductor during drilling operations by removing closure cover when possible (38Y, LD-10, etc.) or by moving the conductors as far away from the drilling operation as possible.



**FIGURE 5**

**4.13** Drilling procedures:

- (a) Using the post as a guide, select a point on the rear of the closure that will not interfere with the opening or closing of the closure and make a mark at the location where one of the holes is to be drilled.
- (b) Put the post aside and dent the closure on the spot marked by using a hammer and center punch.
- (c) Using a 5/16" drill bit and AC or DC electric drill, drill the hole, then attach the post to the closure using one of the 5/16" bolts.
- (d) Align the post to the desired position and drill the second hole using one of the factory drilled holes in the post as a guide. (Figure 6)

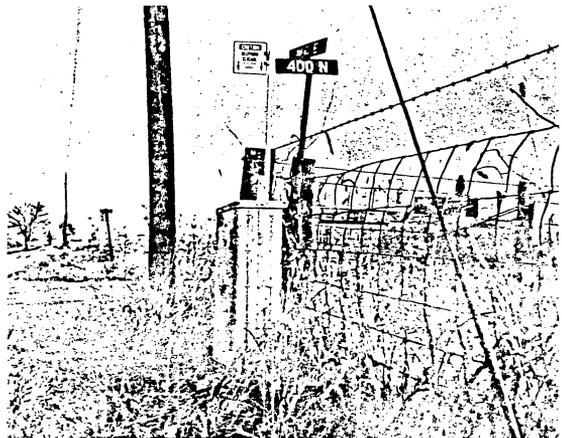
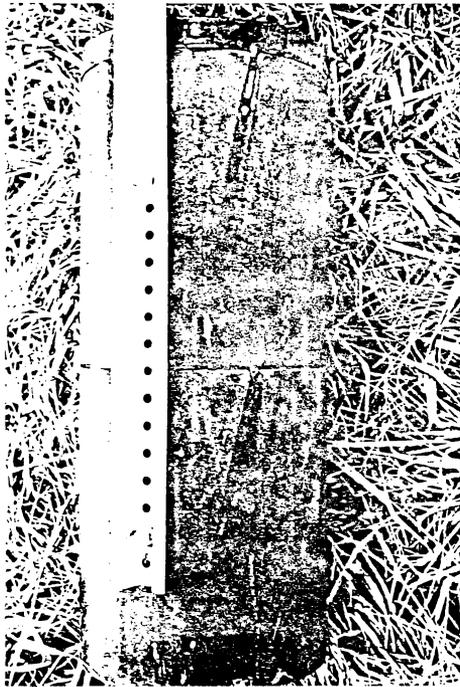
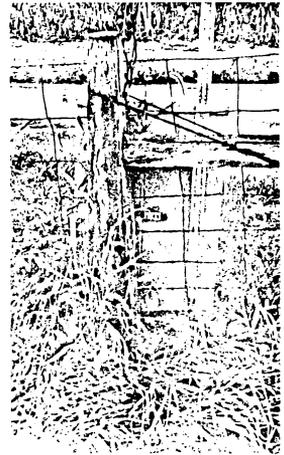
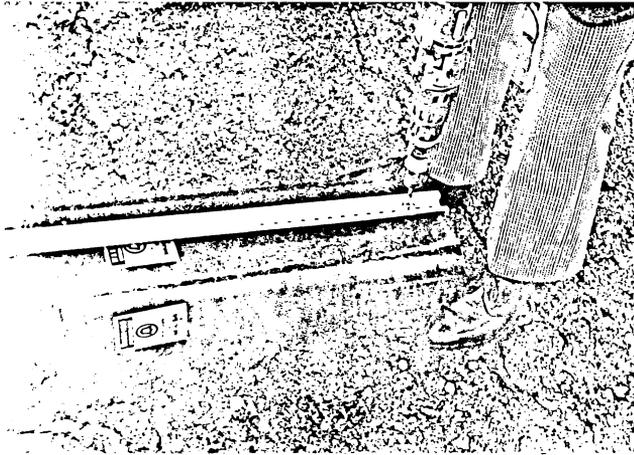


FIGURE 6

**4.14** The Construction forces will place the original number of required signs as outlined in this practice.

**4.15** The Cable Maintenance forces shall place extra signs, as required, to protect existing facilities. Cable Maintenance forces shall also remove extra signs that are no longer needed.

**5. ORDERING INFORMATION**

**5.01** These are stock items from ASI Regional Distribution Center:

- (a) Signs, Caution, Buried Cable per Drawing 3-C188 (Figure 1) 10" X 14"
- (b) Sign, Caution, Buried Cable 8" X 8"
- (c) Sign, Caution Telephone Closure 8" X 8"
- (d) Post, 35-112
- (e) Post, Sign U Channel, Size 7 ft., 8 ft., and 10 ft., green or red
- (f) Screws, Machine, Round Head, 3/16" X 1/2"
- (g) Screws, Cap Hex Head, 5/16" X 2"

(h) Screws, Drive, 5/16" X 3"

(i) #1 U Cap (Figure 3) bracket for steel posts

(j) #1 Cap Top (Figure 3) bracket for directional sign

(k) #IB 457 Post Assembly (consisting of one 6' aluminum post, one #457 bracket, four 5/16" knurled set screws, three 5/16" X 7/3" bolts, lock washers, and nuts)

**5.02** Bracket #72 and the 8 ft. aluminum channel post with Bell System engraved are not stock items with ASI.

**5.03** The supplier for all items, except Item C, is:

Hall Signs, Inc.  
P.O. Box 313  
3000 West Third Street  
Bloomington, Indiana 47402

Item C is supplied by:

Duratuf Products Company  
P.O. Box 264  
Crawfordsville, Indiana 47933