

CABLE SPLICING - GENERAL

SETTING UP ALPETH AND STALPETH

SHEATH CABLES

NOTES CONCERNING THIS ADDENDUM

This addendum is being reissued to provide additional instructions for setting up alpeth and stalpeth cables, and to provide revised instructions on the anchoring device for the permanent ties to the manhole wall for these cables.

The following paragraphs should be marked "See Addendum" and treated as indicated.

- Paragraph 1.05 - Added
- Paragraph 2.05(a) - Added
- Paragraph 4.01 - Replaced in part
- Paragraph 4.02(e) - Added
- Paragraph 4.03 - Replaced
- Paragraph 4.04 - Added

1. GENERAL

1.05 When splicing work is being done in manholes containing existing alpeth or stalpeth cables, inspect these cables and place or replace any ties required. If the permanent anchoring device for these ties is cutting the tie, or is not holding properly, replace it with the anchoring device specified in Paragraph 4.03 of this Addendum. If buckling of the cable is found, tape sheath with one half-lapped layer of aluminum tape, two half-lapped layers of DR tape extending two inches beyond aluminum tape, two half-lapped layer of glass cloth tape extending one inch beyond DR tape.

## 2. SETTING UP CABLE

2.05(a) The following method of setting up alpth or stalpth cables may be used.

- (1) Straighten the cable from the duct entrance and place a cable bending shoe around cable in duct blocking shoe out from recess wall.
- (2) Gradually work cable into contour of bending shoe and hold in place by wrapping shoe and cable together with a rubber bandage.
- (3) Place a second cable bending shoe to form the bend onto the first cable hook, placing shoe so that straight cable will extend out from the first cable hook. Cable should be gradually formed to the cable shoe and secured by wrapping assembly together with a rubber bandage.
- (4) If sufficient space, prepare the cable ends, leaving shoes and bandages in place. When splicing work is completed, remove bandages and shoes and place permanent ties.

## 4. PERMANENT SUPPORTS

4.01 Change the material in this paragraph from "lead lashing wire" to "copper lashing wire."

4.02(e) Cables should be tied to the end cable racks. Tie to other racks only when necessary to hold the cable in position.

4.03 To hold the formed bends in alpth and stalpth cable set-ups, the cables should be tied to the manhole walls in the following manner:

(a) Place a 3-inch shim of polyethylene sheath around the cable and hold it in place with a lashed cable support of sufficient length to place two wraps around the shim and cable. Secure the end of the support as shown in Paragraph 4.02.

(b) In new manholes, preformed anchor holes will be located on the side walls at each end of the manhole at a point six (6) inches from the end walls of the manhole and spaced vertically 7-1/2 inches apart. These holes are formed when the manhole is constructed and should be used for the anchoring device to hold the cable tie except when these holes may not be located to afford maximum holding power for the particular cable setup. In this case, a new hole must be drilled.

(c) In manholes where anchor holes have not been preformed, drill a 1/4 inch diameter anchor hole, deep enough to accommodate the 1/4 x 1-1/4 inch Hammer Drive Anchor, in the side-wall of the manhole at a point approximately six (6) inches from the end wall of the manhole and at a level which will provide maximum holding power for the tie to the support on the cable.

(d) Place a drop wire hook on the manhole wall at the proper anchor hole position, using a 1/4 x 1-1/4 inch Hammer Drive Anchor inserted through a 5/16 x 3/4 x 1/16 inch round washer and then through the eye of the drop wire hook. Align the drop wire hook in the direction of pull by the wire tie.

(e) Tie support on the cable to the drop wire hook using a length of copper lashing wire sufficient to place five (5) strands of wire between the wire hole on the support and the drop wire hook. Serve the loose ends of the lashing wire around the tie for six or eight turns and cut off excess wire.

4.04 Where copper lashing wire ties are used to secure the cable to the cable racks they should be placed as shown in the sketch in Paragraph 4.03.