For formations not listed in Table B, the approximate cubic yards of concrete required per 100 trench feet can be obtained with the following formula:

Formula: V = [13.8WH + 10.7H + 13.4W + 4]0.026

V = volume of concrete (cubic yards/100 trench feet)

W = number of ducts wide

H = number of ducts high

Example: Duct formation 5 wide by 10 high

$[(13.8 \times 5 \times 10) + (10.7 \times 10) + (13.4 \times 5) + 4]0.026$

$[690 + 107 + 67 + 4]0.026$

$[868 \times 0.026] = 22.6$ cubic yards.

5. LAYING CONDUIT

At the trench site, examine each conduit length and remove all mud and other debris such as lath, paper, stones, etc, from the ducts before placing them in the trench.

5.01 Place and join the duct sections in the trench. Lengths shorter than 5 feet should not be used at manholes or the cable entrance facility. Do not run polypropylene conduit into buildings.

Use only cement suitable for the kind of duct material being used; cement containers for use with ABS are marked for use with ABS; similarly marked are the containers to be used with PVC. Use only the adhesive supplied with B polypropylene conduit on polypropylene conduit. Solvent cement which is shipped with ABS and PVC conduit must not be used with polypropylene conduit.

5.02 Join the conduit as follows (Fig. 4):

(1) Wipe any mud or dirt from the end of the duct and from the inside of the coupling or bell.

(2) Apply cement to the **spigot end** of the duct with a natural bristle brush up to the insertion depth line.

(3) Polypropylene conduit has been designed with an interference fit bell and spigot joint. If the spigot does not seat in the bell to the insertion line drive the conduit home using a mallet and a wooden block as a buffer.

Note: If PVC cement seizes before the spigot end is fully seated, use a handsaw to cut out the defective joint. If polypropylene adhesive dries on the spigot end before the joint is made recoat the spigot end and insert into bell to complete joint.

5.03 The PVC cement and polypropylene adhesive should each have about the same consistency as oil base house paint. If it becomes too thick, discard and open a new can. When using polypropylene conduit and if immediate joint strength is required (eg, at field bends and manhole terminators), apply a thin coating of adhesive to the inside of the mating bell (or terminator). Allow a minimum of 5 minutes for adhesive to dry before completing the joint following Steps (2) and (3) of paragraph 5.02.