OPEN WIRE
SIDE LEAD TERMINATIONS

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1. GENERAL

1.01 This section covers the general methods to be used for constructing side lead terminations. The details regarding the placing of attachments and the type of connections to be employed between wires are covered in other sections.

2. SIDE LEADS FROM OPEN WIRE LINES

2.01 Where practicable, in order to avoid reverse (buck) arm construction, terminate side leads on two-pole corners as shown in Fig. 1. The pull on either pole should preferably not exceed the limits provided for in Section 621-200-011.

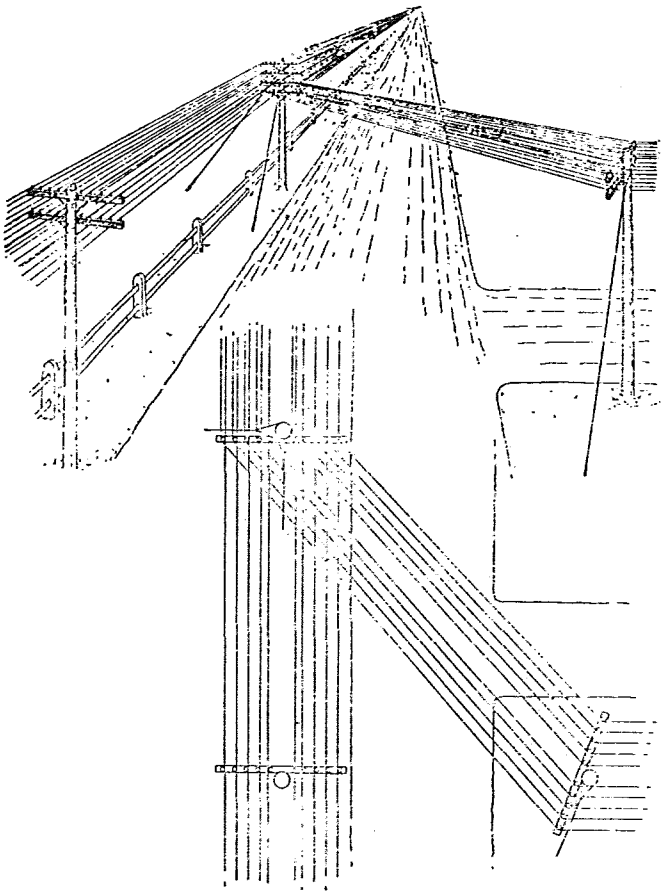


Fig. 1

2.02 Where circuits on side lead terminate in both directions on main lead, construct the termination as shown in Fig. 2.

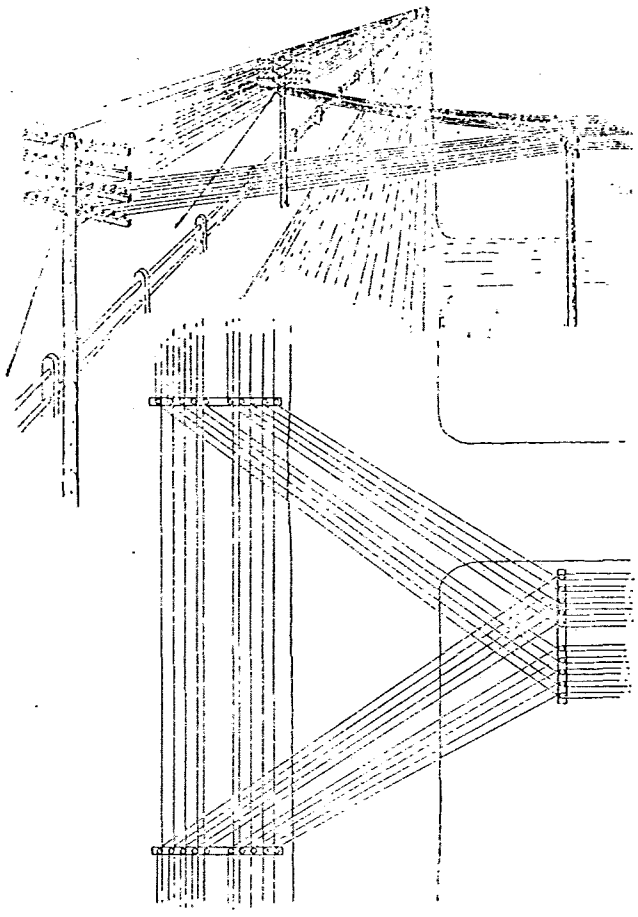


Fig. 2

2.03 Where the methods shown in paragraphs 2.01 and 2.02 are impracticable and one or more complete arms are run at the same time or where specified on detail plans, run open wire to the main lead pole and use reverse (buck) arm construction. This type of construction should be avoided in so far as practicable for High Grade Toll Lines.

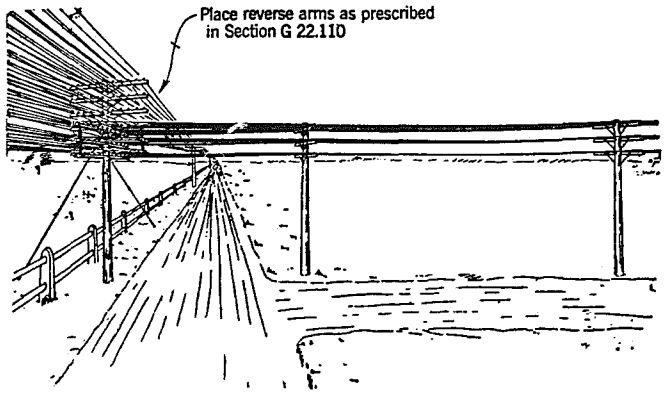


Fig. 3

2.04 Where buck arm construction is employed, line wires extending between crossarms shall be secured to the insulators on which the wires are dead-ended by a modified horse shoe tie. See Fig. 4.

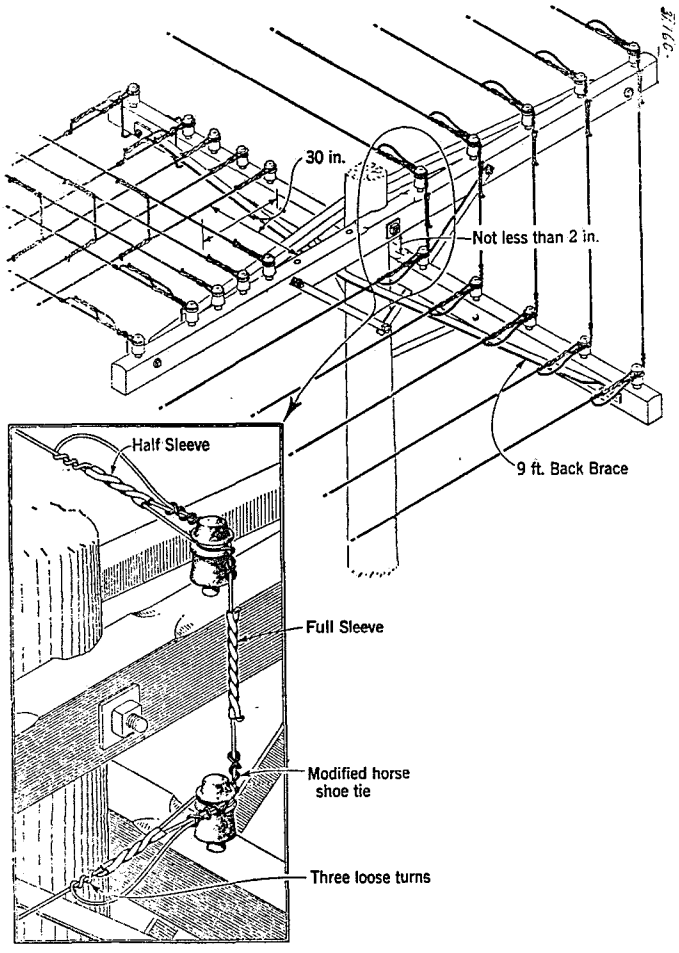


Fig. 4

2.05 Where the side lead consists of exchange circuits only and clearance conditions permit, drop wire may be run from side lead to main lead as shown in Figs. 5 and 6. Place drop wire and attachments in accordance with the Practices covering Drop and Block Wiring.

(a) Bracket Lead

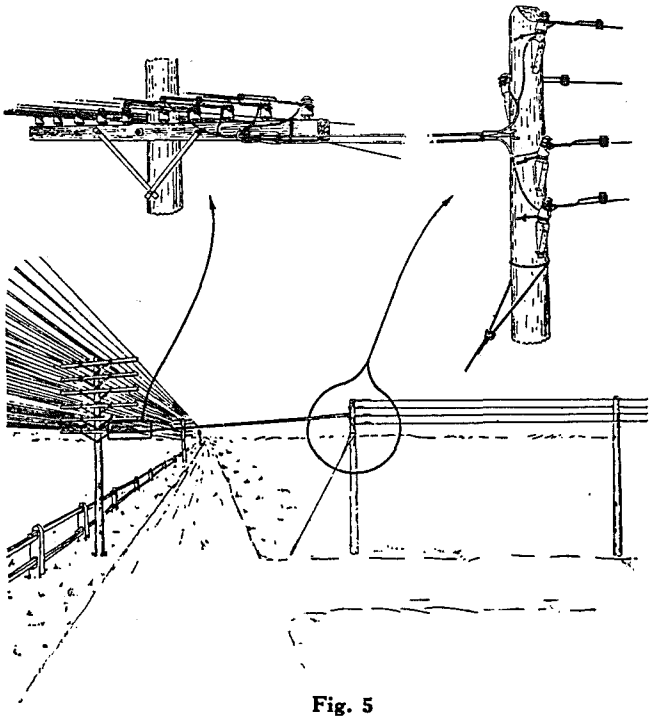


Fig. 5

(b) Crossarm Lead

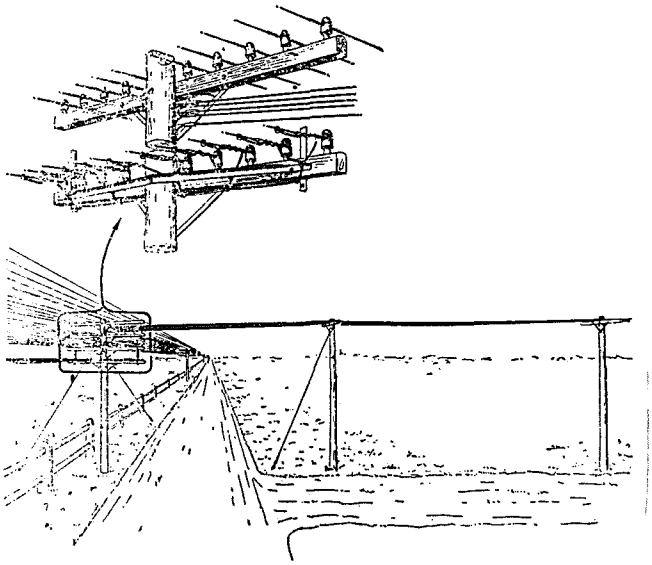


Fig. 6

2.06 Where clearance conditions permit, run bracket lead to main line pole. See Fig. 7.

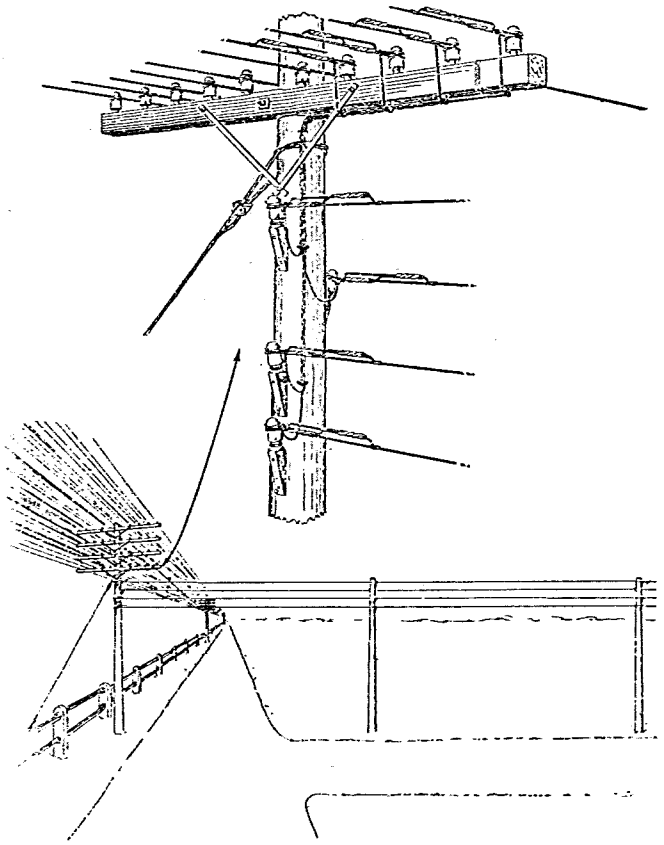


Fig. 7

3. SIDE LEADS FROM AERIAL CABLE LINES

3.01 For side leads where there will never be more than four wires, run bracket lead to main line pole, if clearance conditions permit, and bridle on pole from terminal through protector mounting to open wire. See Fig. 8.

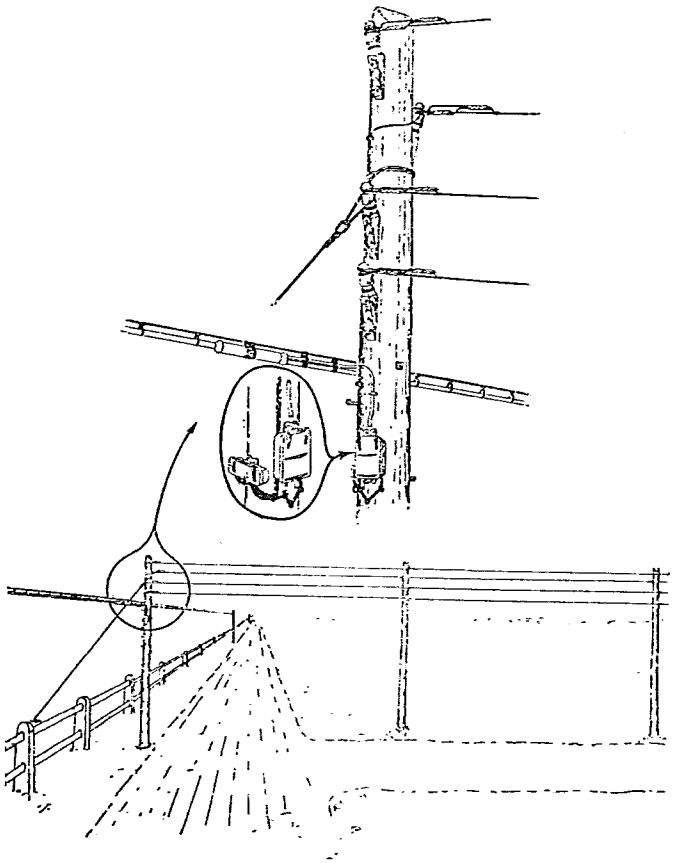


Fig. 8

3.02 Where side lead consists of exchange circuits and clearance conditions do not permit of the practice shown in Fig. 8, run drop wire from side lead to main lead as shown in Fig. 9. Place drop wire and attachments in accordance with the Practices covering Drop and Block Wiring.

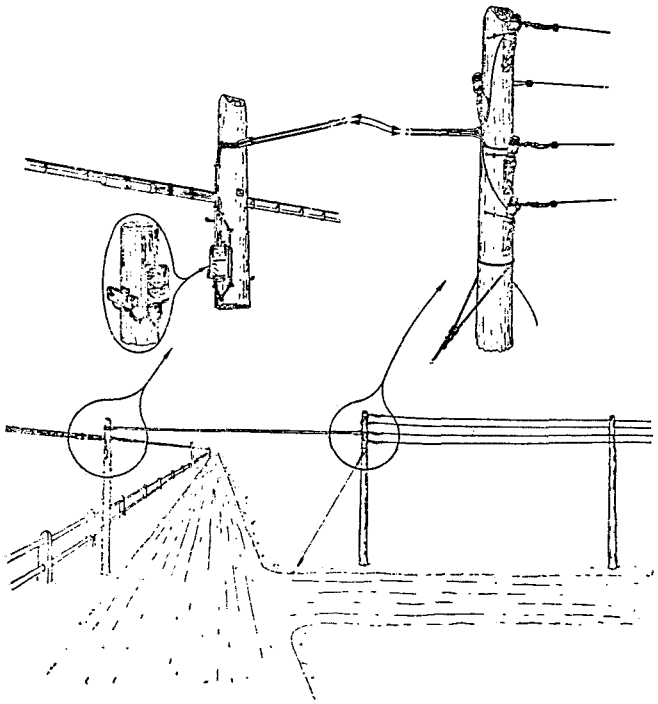


Fig. 9

3.03 For side leads of an ultimate of over four wires, where there is sufficient clearance above cable on line pole, run open wire to line pole. See Fig. 10.

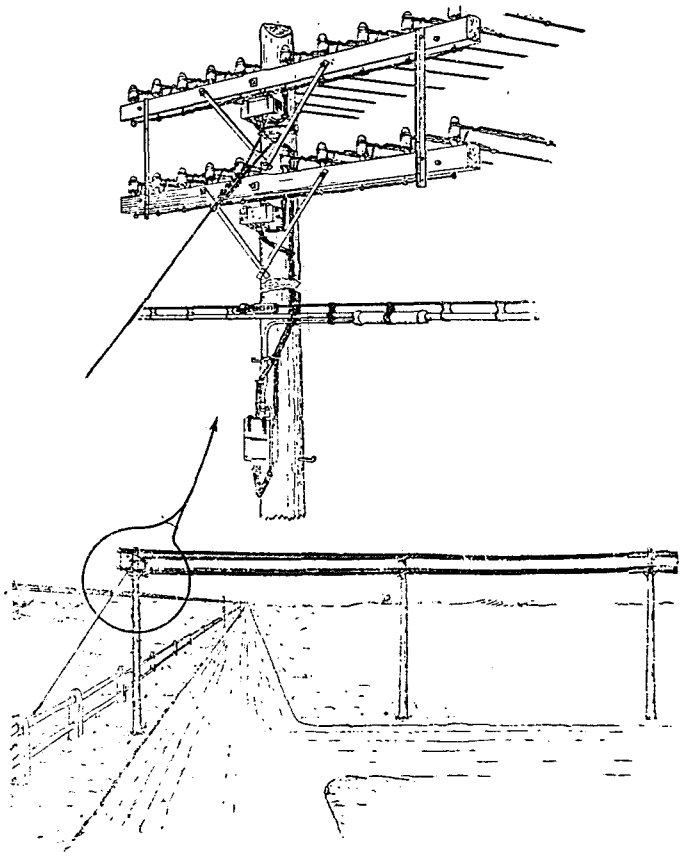
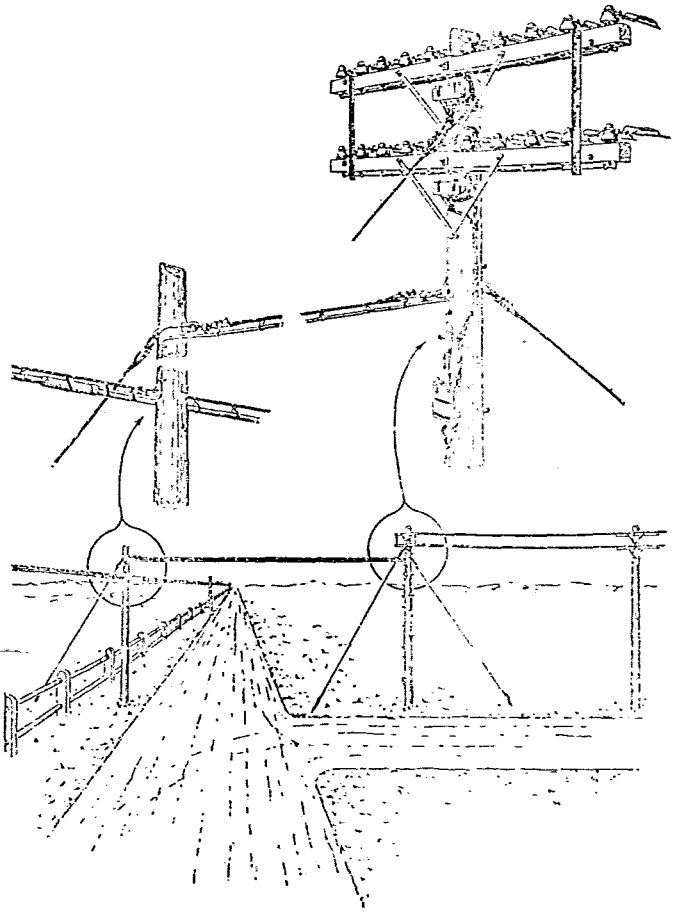


Fig. 10

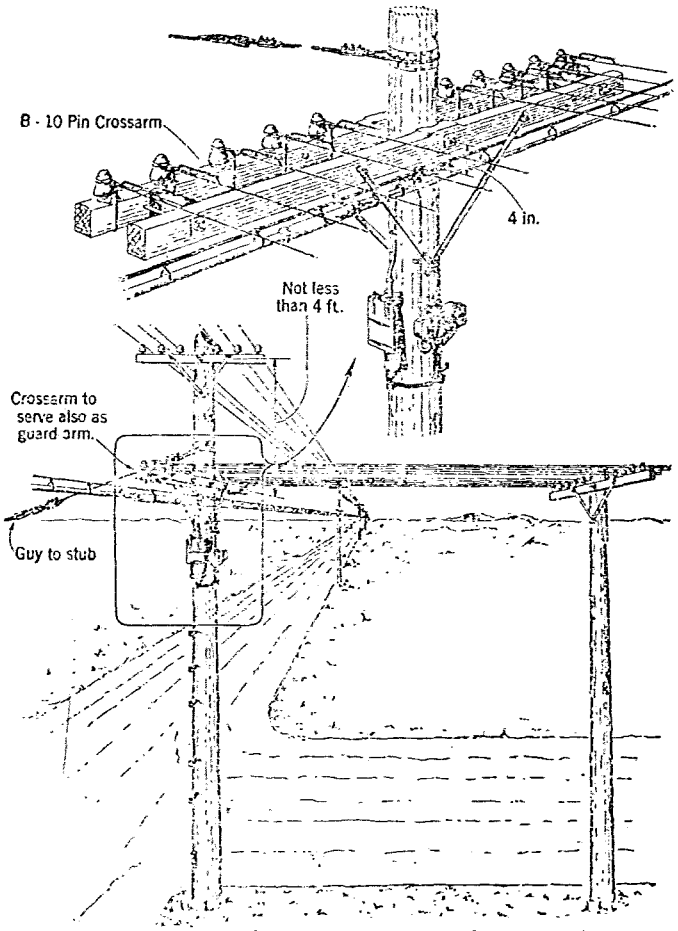
3.04 Where there is not sufficient clearance above cable on line pole, run branch cable to the side lead pole and bridle to the open wire. See Fig. 11.



Note: The eye-bolt or wrap method can be used for attaching the suspension strand and guy.

Fig. 11

3.05 Side lead may be terminated on joint use pole as shown in Fig. 12.



Note: If there is any interference between the larger sizes of cables and the crossarm braces use guard arm braces instead of the standard crossarm braces.

Fig. 12