

HOW TO BUILD RURAL TELEPHONE LINES

ings, as branch wires can be run from the main line to the buildings and thus save wire and simplify the construction. Reference to Fig. 4, in which c, e, etc., represent the buildings to be connected, run the main line and a and f the branch wires, will make this point clear.

POLES.

Poles twenty-two or twenty-four feet long of any good wood, cut when green, should be used. Cedar and chestnut are particularly desirable on account of their lasting qualities. The poles should be reasonably straight and well proportional. The diameter

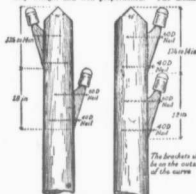


Fig. 3—Location of Brackets on Pole for Straight Lines. Fig. 4—Location of Brackets on Pole at Curves.

THE NORTHERN ELECTRIC & MFG. CO., LTD.

of the top of the pole should be about 5 or 6 inches. In order to prolong the life of the poles and add to their attractiveness, all the bark should be removed, knots trimmed close and the butt cut off square. The top of the poles should be roofed as shown in Fig. 5.

POLE FITTINGS.

Where only one or two line wires are to be mounted on the poles, oak brackets fitted with glass insulators are fastened to the poles as indicated in Fig. 5 for straight lines, or as shown in Fig. 6 at curves. The brackets should be attached to the poles before the poles are raised.



BRACKETS.

Brackets Figs. 7 and 8 are usually made of oak and given two coats of metallic paint and have a thread on the upper end to which is fastened a glass insulator, a type, as used in telephone work, is shown in Fig. 12.

They should be about 18 inches apart. The upper bracket should be 8 inches from the top of the poles

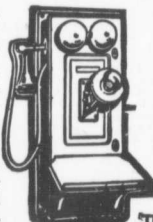


WE **FREE** BUT ONLY ON VOLUME **REQUEST**

THIS book consists of 100 solid pages of carefully compiled information on the building of rural telephone lines. It is well printed, profusely illustrated and handsomely bound in stiff, cloth-covered binding. Apart entirely from its actual cost of printing and binding, the preparation of the technical matter in it has run into a great deal of money. That is why we ask for the coupon—we want to be sure that you are interested in the subject, before we go to the expense of sending you this book dealing with

The Complete Story of "How to Build Rural Telephone Lines"—Use the Coupon

The two pages shown above give you an idea of how thoroughly this book covers every detail. Every other page in the book is just as full of information as the pages shown. Among the matters dealt with in this volume, is the organization of mutual-companies, of stock-companies, line construction, equipment, costs of construction, companies already organized, their history and what they have ac-



complished, government regulations on the subject—in fact, every detail you could possibly think of or need to know. If there is no telephone system in your community to-day, it is only a matter of time until there will be one. Farmers are organizing community-owned systems all over the country. Some day one will be organized in your locality. You owe it to yourself to know the facts, for knowing the facts may mean money to you. Send for the book—use the coupon NOW.

160
The Northern Electric and Manufacturing Co. Limited
Gentlemen,
Please send me FREE, one copy of your 100 page, bound and illustrated book on "How to Build Rural Telephone Lines".

Name
Post Office
Province



Montreal
Toronto
Winnipeg
Regina
Calgary
Vancouver

The Northern Electric
AND MANUFACTURING CO. LIMITED
Manufacturer and supplier of all apparatus and equipment used in the construction, operation and maintenance of Telephone, Fire Alarm and Electric Railway Plants. Address our house nearest you.