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Southern California Area

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

ADDENDUM G31.115.1
Issue A, June, 1950-S
T. P. T. & T. Co.

OPEN WIRE

TENSIONING

NOTES CONCERNING THIS ADDENDUM

This Addendum supplements Section G31.115.1 and has been issued to provide instructions for determining the sag of wires placed over alternate crossarms.

The cross-reference "See Addendum" should be written in Section G31.115.1 following Paragraph 4.04 to indicate the addition of new information.

5. SAG OF WIRES PLACED OVER ALTERNATE CROSSARMS

5.01 Where the wires have been placed over alternate crossarms, and it is desirable to pull them up to approximately final tension before placing them over the other crossarms, determine the sag for the double span as follows.

(a) Obtain from the table of sags the sag for a span whose length is $1/2$ the length of the double span. For example, if the length of the double span is 400 feet, the sag value for a 200 foot span should be determined. Multiply this sag (19 inches, for example) by four and use this value (76 inches, for example) as the sag to be provided in the double span. It will be found when the wire is raised into position on the intermediate pole, the resulting sag will approximate (usually slightly more than) that desired in each of the shorter spans.

(b) Final tensioning should be done with the wires placed on top of the crossarms except at poles where upward changes in grade require preventive measures against flip-ups. In this case final tensioning should be done after wire is deadended or crossarm is placed above wires to prevent contact with power wires.