EXCHANGE WIRE RECORD — M1 CARRIER

1. GENERAL

1.01 This section describes procedures used in the preparation and maintenance of exchange wire records for M1 carrier telephone systems for exchange service on power lines or exchange wire lines.

1.02 The purpose of an assignment record for these systems is to facilitate the following assignment center operations:

(a) Making the assignments for service orders, transfers, etc.

(b) Giving information to field forces when required.

(c) Assist in arranging for power company connections and disconnections incident to telephone station movement.

2. RECORD FOR M1 CARRIER SYSTEMS ON POWER LINES

2.01 The assignment center record shall consist of the following:

(a) A copy of the carrier system layout, illustrated by Fig. 1, which will be in schematic form and will include:

(1) The portion of the power line and its branches occupied by the carrier system.

(2) The M1 carrier equipment (choke coils, line coupling capacitors, etc.) along the power line and its branches with indication of the number of the pole on which each item of equipment is located.

(3) The telephone station locations by pole numbers. Telephone numbers suffixed by the channel number may also be indicated if desired.

Note: The plant engineer will prepare such a record when a carrier system is established or modified, and will furnish a copy to the assignment center. The size of each record sheet should be such that it is convenient to use. This may result in a sectionalized type of record. Throughout this section, this record is referred to as the "Layout Record."

(b) An exchange wire record form prepared to include the following:

(1) The diagraming of each channel in the same manner as an individual circuit of wire.

(2) The entering of the subscriber telephone number at the proper location along the pole lead.

(3) Other details as illustrated in Figs. 2 and 3.

2.02 In general, the assignment forces may make an assignment of a station without guidance by the engineer, if there is a vacancy on an existing carrier channel and if the location of the station is such that nothing is required to be done by the power company on the power circuit except the installation of a coupling capacitor and line coupling unit.

2.03 The assignment centers shall post their records, including their "Layout Record" copy, to reflect the result of all station connections, disconnections and changes. If additions, removals or changes are made with respect to choke coils or other items on the carrier system, the "Layout Record" should be posted accordingly. When changes have been extensive enough to require that the engineers reissue the "Layout Record," a copy of the new record will be furnished the assignment center.

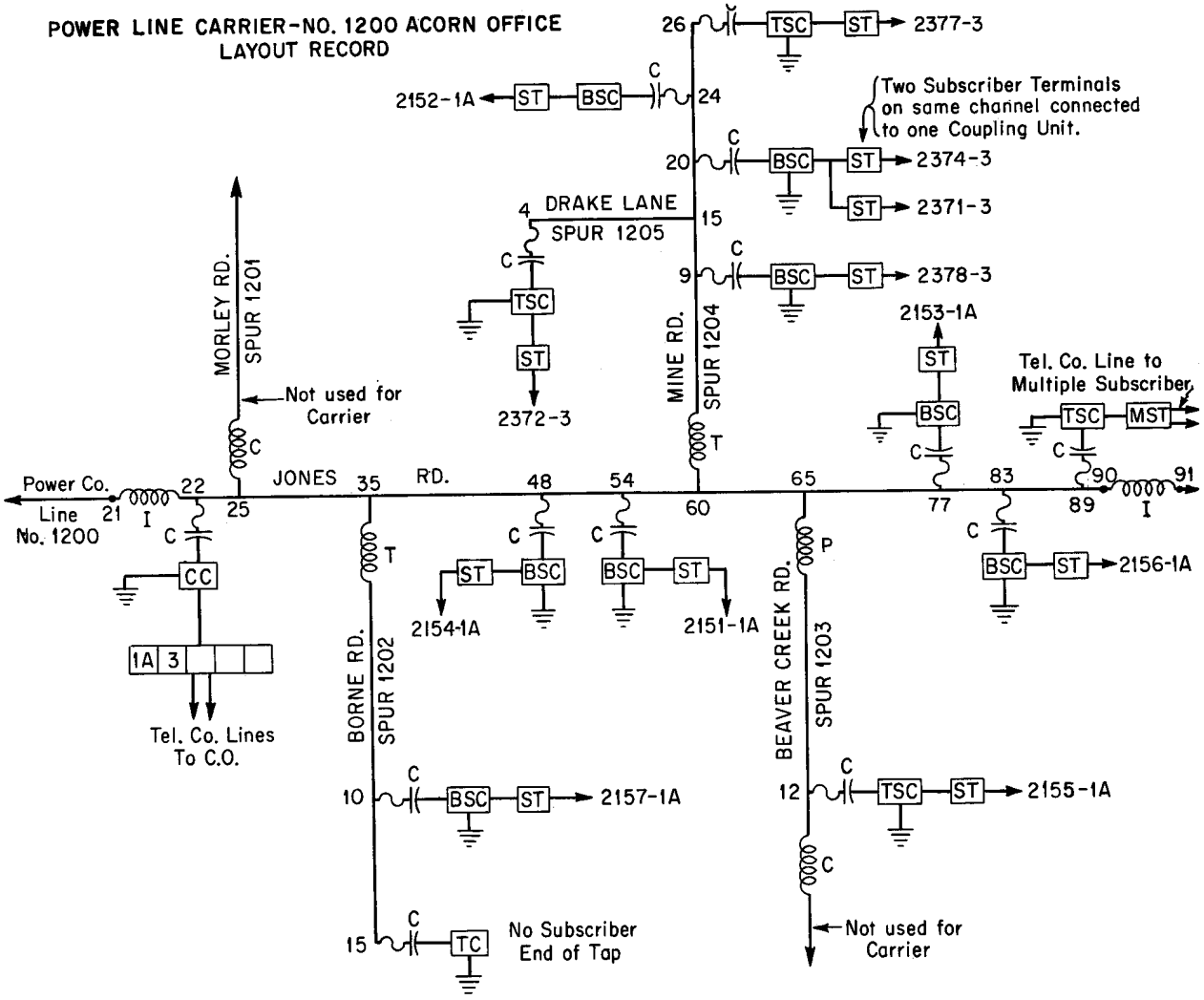
2.04 The power company's pole numbering shall be used by the Plant Department on its records of carrier plant, and for indicating to the plant forces and power company where work is to be done. If there are cases where the power poles are not numbered, each pole supporting a drop wire to a telephone, and each other pole having carrier equipment, should be assigned a pole number by the engineer in accordance with the standard section covering "Lead and Pole" numbering.

3. RECORD FOR M1 CARRIER SYSTEMS ON EXCHANGE WIRE LINES

3.01 M1 carrier may be used on exchange wire lines, with certain modifications as to choke arrangements, to furnish exchange service.

3.02 Under certain conditions, phantom circuits may be used for exchange service, e.g., the temporary use of toll open wire.

3.03 The assignment records for these systems shall be substantially the same as those for carrier systems on power lines, described in the preceding paragraphs and in the associated figures. The exchange wire lines may also have some noncarrier stations working on them and these stations should be diagramed on a separate wire record form from that used for the carrier frequency stations on the same pole line. The two forms should be cross-referenced.



C Coupling Capacitor and Fuse (Including 99A Protector when required.)

Common Carrier Terminals (Terminals actually installed shall be indicated by appropriate channel numbers in one or more of the five spaces.)

CC Common Coupling Unit for Common Terminal

BSC Bridging Subscriber Coupling Unit for all Bridged Stations

TSC Terminating Subscribers Coupling Unit for all End Stations

TC Terminating Coupling Unit for Ends of Taps where no Station is Located.

ST Subscriber Terminal

MST Multi-Subscriber Terminal

C Tap Choke

I Isolating Choke

T 0.6 mh Transmission Choke

P 0.3 mh Transmission Choke

1201, 1202, etc. Lead Number

25 Pole No. 25

2157-1A, 2372-3, etc. Telephone Numbers Suffixed by the Channel Number

Fig. 1 - Illustrates an M1 Carrier System Layout Record

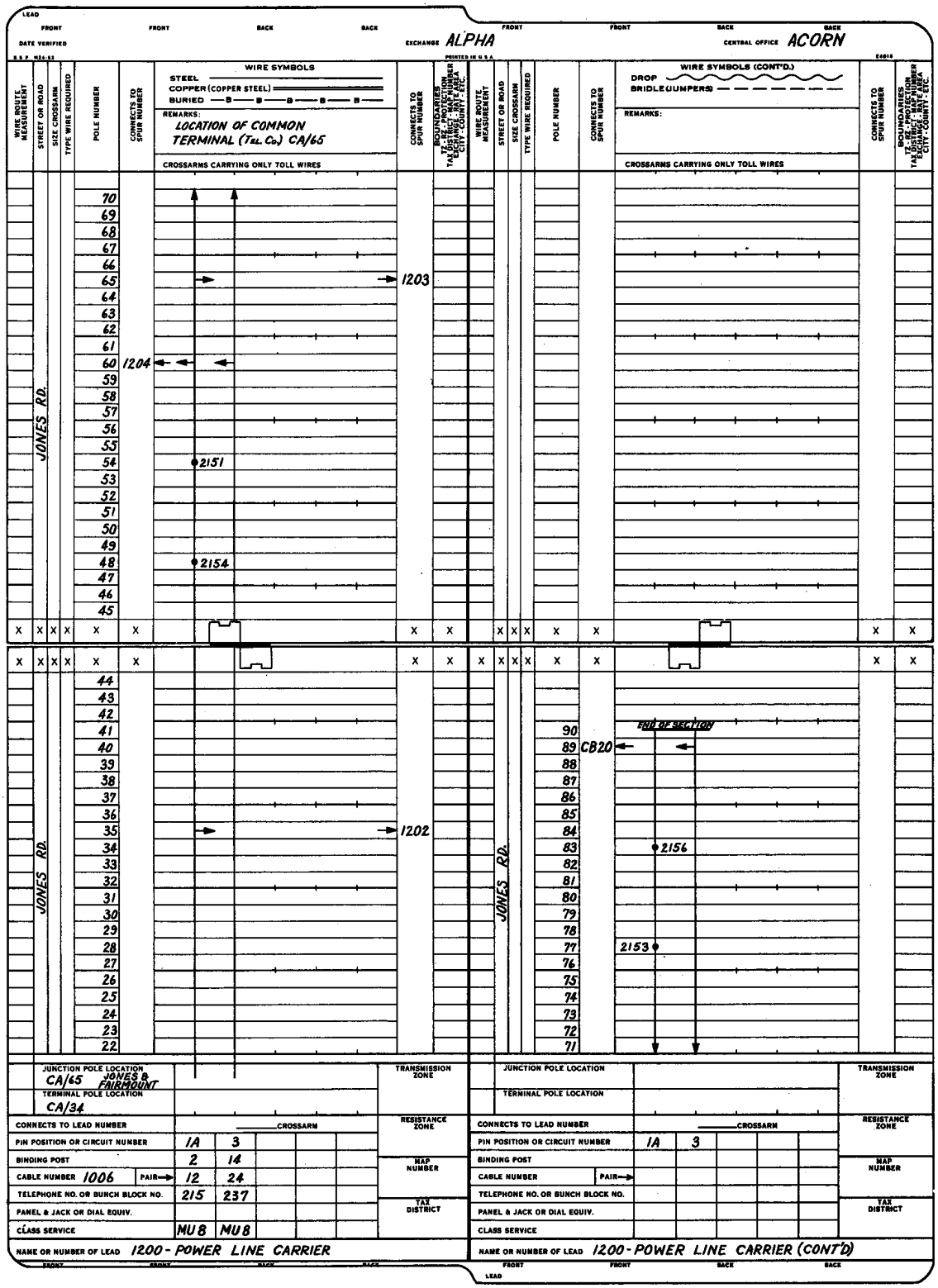


Fig. 2 - Illustrates an Wire Record Prepared for the M1 Carrier Channels in Service on the Main Lead Portrayed on the Layout Record. (See Fig. 1)

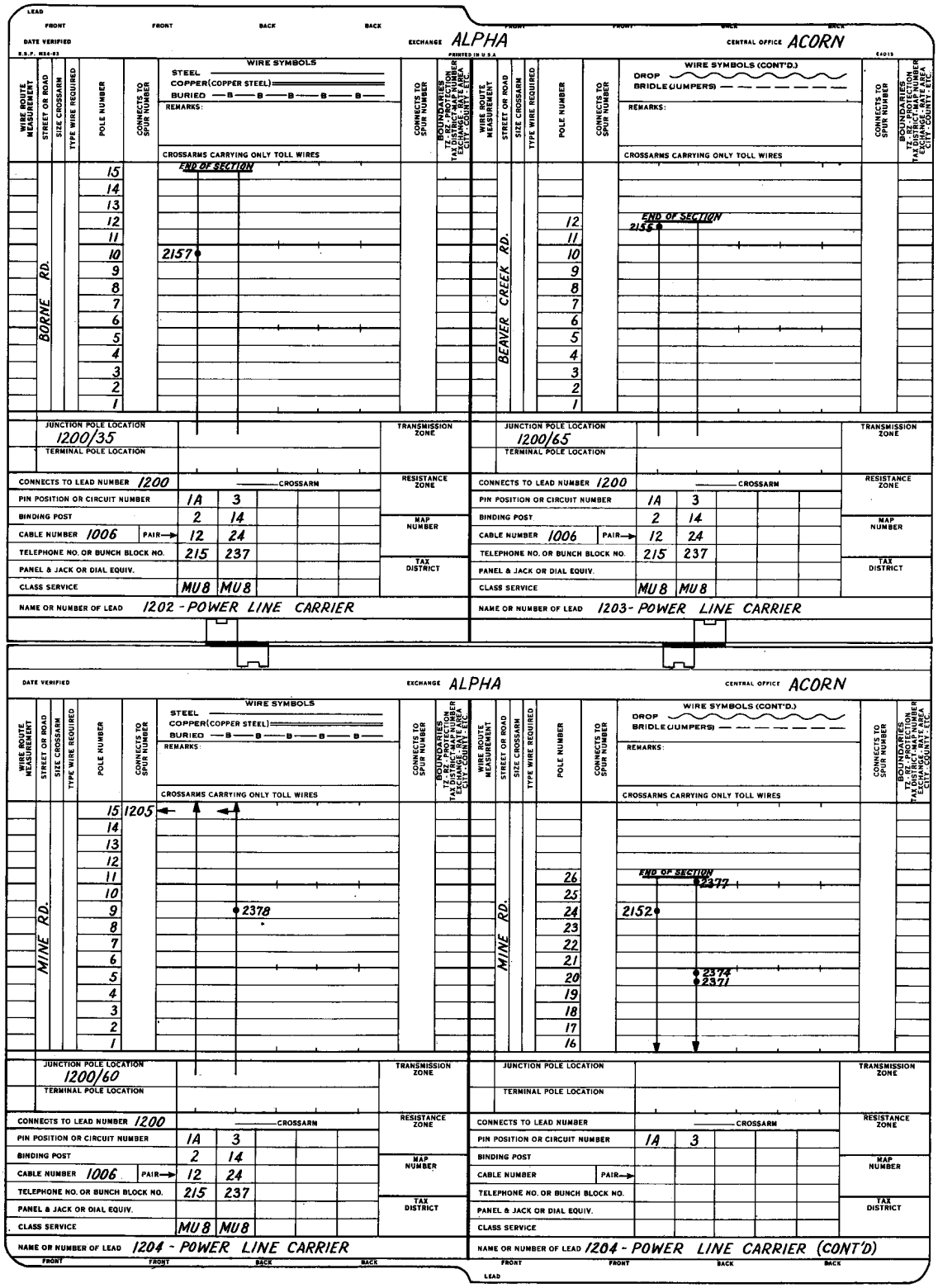


Fig. 3 - Illustrates the Wire Records Prepared for the M1 Carrier Channels in Service on the Spur Leads Portrayed on the Layout Record. (See Fig. 1).