The Teletype machine used at the South Minneapolis yards is typical of the type provided by the Milwaukee on its latest installation.

Installation between Chicago, La Crosse, Wis., St. Paul, Minn., and Minneapolis, facilitates transmission of manifests and thus expedites car tracing.

Milwaukee Utilizes Teletype

The Chicago, Milwaukee, St. Paul & Pacific has extended its Teletype facilities to include a new circuit between Chicago, St. Paul, Minn., and Minneapolis, via La Crosse, Wis. An existing single line Morse duplex circuit repeatered at Milwaukee, Wis., was utilized for the new 421-mile circuit. New Teletype machines, each capable of receiving and sending up to 60 words a minute, were installed at La Crosse, St. Paul and Minneapolis, while a machine previously in service on other circuits was connected in at Chicago. Only one office may transmit business at one time, but all of the other three offices, if desired, may receive the business being transmitted from the sending office. Selectors are provided at all four offices with a code assigned to each individual office which starts a buzzer signal, indicating that the machine at that station should be cut in. The machine at Minneapolis is located in the yard office at South Minneapolis yards.

Example of Manifest Form No. 1 as typed on roll paper by Teletype machine.
the one at St. Paul is in the St. Paul yard office, the machine at La Crosse is in the telegraph office in the station which is near the La Crosse yards, and the Chicago machine is in the yard office.

Seven manifest forms are used in the transmission of such information. These are shown in the accompanying illustration. The Teletype machines are used to transmit the information in the same order as shown for a particular form. The information is typed by both the receiving and transmitting machines on continuous rolls of paper. All messages and manifests transmitted are numbered consecutively for a particular day, beginning at midnight.

**Types of Manifest Forms**

Manifest Form No. 1 is a symbol consist report, showing the station at which the carload was manifested, date, train number, time of departure, filing time with telegraph operator, symbol reference, car initials, number, contents, point of origin, billing received from connecting line, shipper's name, consignee, final destination and route if for a point beyond the "Milwaukee." The information for other manifest form reports is handled in a similar manner. Form No. 2 is a pass-

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Manifest and other forms used on the Milwaukee. Information is transmitted by Teletype in the order indicated by the forms.