

ernization program in Columbus, O., was . . .

Built For Trolley Buses

THE completion of the West Bread Street Coach Station in late 1948 marked the final phase program embarked on by the Columbus & Southern Ohio Electric Company, Columbus, Ohio, Interrupted by the war, the programs. which called for changeover of all street car lines to troller has or

motor bus, gained monuntum in 1946 and was finally completed in Sept., 1948. The company new operates 240 troller bases over eight routes which total 63.97 one-way miles and 79 motor bases over 12 routes, totaling 45.79 one-way

Included in the program was the conversion of two car harns to trolley has garages and the construction of a new station on West modate 110 troffer bases and 175 drivers, the West Broad Street Conch Station was built at a cost of \$309,000. In May, 1949, the ompony garaged and maintained 101 trolley buses at this station and 96 of these vehicles are scheduled

aring peak hours. This station house which was abandoned two vears ago.

The West Broad Street Station covers 2.46 acres and has entrances and exits for trolley buses on two streets in order to provide two contes to the downtown area. Outside storage area has 9,520 souace vands of concrete payement, the conivalent of a paved strip 18 feet wide and nine-tenths of a mile long. Including the storage area, there are 8,000 feet of overhead wire installed at the station

In addition to the storage yard. three buildings are located on the property (see accompanying chart). These structures include transportation headquarters, a maintenance building and a wash building. The total cost of erecting these three buildings was \$244,000 and the land, which includes the storage area, cost \$65,000. The maintenance building con-

tains a pit and hoist area, a small office for the foremen, a parts room, a tire room, a fire-proof storage room for inflammables and a boiler room. The main working area has four well-lighted pits. Each pit is emipped with outlets for supplying grease, lubrication and air. As a safety precaution, grease and lubricating oil are stored in the fireproof storage room and piped to the pits. A Weaver hoist also is located in the main working area

The C. & S. Ohio Electric Co. maintains its trolley buses on a mileage basis. Inspections are perfermed at 1,500, 10,000 and 18,000 miles. The 1,500-mile inspection, called the "A" inspection by the company, occurs every 7-10 days. and an average of seven trolley buses are inspected daily at the West Broad Street station.

The "A" inspection includes: outside and inside of the vehicle. motor, retrievers, trolley equip ment, radio coils, air equipment,

front and rear axles, steering assembly and control equipment. The "B" inspection, performed at 10,000 miles, includes all the items on the "A" inspection plus: cleaning and adjusting buxeer, door edge, drum and treadle switches, and fuse clips; lubricating motor, controller and unit switch bearings; lubricating trolley bases; overhauling shoe assemblies; testing axle shafts; checking toe-in on steering assembly; overhauling brake valve bady and adjusting air pressure; and

changing air intake strainer. The "C" inspection, which is performed at 18,000 miles, includes all the items on both the "A" and "B" inspections plus the draining and flushing of the differential carrier. For the first four months of 1942. troller bus maintenance costs were

2.79 cents per mile, exclusive of tire costs. In addition to an excellent maintenance system, the fact that of 240 trolley buses operated, 138 are less than two years old and all of them manufactured by the same company (Marmon-Herrington) contributes to this low main-The West Broad Street Station is

used only for regular scheduled inspections and spring changing. The Kelton Avenue Shops do all of the heavy work including; body rebuilding, painting, motor rebuilding, overhouling compressors, overhauling drive units, upholstery and flooring work. In addition, the parts room at West Broad Street keeps only a small supply of parts on hand. The major supply is kept at the Kelton Avenue Shops and sent to West Broad when requisi-

The wash building is a separate unit located about 150 ft, from the maintenance building (see accompanying chart). Trolley buses are washed once a week in good weather and as often as needed in had weather. If necessary, the entire fleet can be washed in one wight Most of the washing is done by an automatic Whiting washer. Roofs of the vehicles are washed with fountain brushes. To make that job easier and safer, the company designed and built a raised platform for washers to stand so white using fountain brushes on the roof. Electrically operated double-doors

at either end of the washhouse are kept open during warm weather. In the winter, they are opened only long enough to allow vehicles to enter or leave. The wash building is heated by a thermostatically-controlled overhead gas-unit heaters. All trolley buses are stored out-

side at night except vehicles which are being inspected. The outside storage area is divided into two secley buses are stored in one area and 44-passenger in another. The 48passenger vehicles are used on High Street, the heaviest travelled line in Columbus. The two-story transportation of-

fice contains the cashier's room and schedule room with routing boards on the first floor. The entire second floor is devoted to a driver's lounge, showers and locker space. This building, as well as the a coal-fired boiler located in the maintenance building A total of 20 maintenance em-

ployees are used at the West Broad Street Station, These include: four washers, one hostler, one janitor, four servicemen, one relief serviceman, two foremen and seven

Trolley bases are stored outside at night except those which are being inspected. An average of seven vehicles are inspected daily.

Iwo entrances and exits facilitate the flow of vehicles during rush hours. Outside storage area has 3,520 square yards of pavement.



