



Schedule Rating Office of New Jersey.
ENGINEERING DEPARTMENT
NEWARK, N. J.

Lenola, Moorestown Twp.
Fire District, No. 2
Burlington County, New Jersey

NOVEMBER 30, 1943

KEY

PROTECTED FIRE ZONE: Shown in Green.
NOTE.—For description of fire protection, etc., see other side.
Elevations range from 20 to 60 feet above mean sea level.
Water mains 8 inches and larger in diameter
Water mains 6 inches in diameter
Water mains 4 inches in diameter



Fire hydrants shown thus
Gate valves shown thus
Fire house shown thus
Fire apparatus designated by symbols thus:
H Hose car
Y Pumping engine and hose car
O Booster tank or tanks on above



1
2
3
4
5
6
7
8
323

LENOLA, FIRE DISTRICT No. 2, MOORESTOWN TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY.

Population—Township Census of 1940 was 7,749. Estimated Fire District Population is about 2,000.

IN GENERAL: Located on the Pennsylvania Railroad about 8 miles east of Camden adjoining the westerly limits of Moorestown which comprises the remainder of the township. It is a residential community with commuters to Camden and Philadelphia. Area about one square mile. Elevations from 20 to 60 feet. Main thoroughfares are macadam in good condition, others are gravel in fair condition. Railroad crossings at grade or other features would not seriously affect the response and operation of the fire department.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished to all built-up portions of the township by the municipal water department which owns the supply works, distribution system and appurtenances. **Organization:** For details as to administration, supply works and pumping station, see report on Moorestown with Map No 147. **Supply Mains:** The supply to the Lenola distribution system is through a single 12-inch transmission main from the pumping station located in Moorestown on Hadonfield Road near the Lenola-Moorestown limits. In addition there is a 6-inch connection to the Moorestown system on Camden Avenue and a 6-inch emergency connection to the Chester Township water supply system in Camden Avenue at the westerly limits. **Distribution System:** In one service consisting of a 12-inch supply main with 8-inch arteries and 4- and 6-inch gridiron and dead ends. **Elevated Tank:** Located on Albany Road northeast of the Pennsylvania Railroad as shown on map. It is steel on a 63-foot tower with a diameter of 28 feet and a height of 29 feet and a capacity of 175,000 gallons. Elevation of base 70 feet. Elevation of overflow 162 feet. **Consumption:** The average and maximum daily consumption in the entire territory served for the 12-month period ending July 31st, 1943 was 0.509 and 0.668 m.g.d. On July 31st, 1943 there were 1,964 services in the entire territory, all of which are metered. **Pipe:** All cast iron, tar coated, bell and spigot joint, laid with about a 3½-foot cover. Total length, 38,300 feet; 17.9% 12-inch, 17.3% 8-inch, 64.8% 6-inch. **Gate Valves:** There are 60 on the system in Lenola of Ludlow make set with iron boxes at grade. Direction of operation is uniform. No regular inspection. The fire department is notified when valves affecting the supply to hydrants are closed. **Hydrants:** There are 53 on the system in Lenola of Mathews make of standard type, of which 12 have two 2½- and one 4½-inch outlets while the remainder have two 2½-inch outlets. Hydrant branches are 4- and 6-inch, of which about 80% are gated. Hydrant hose outlet threads are 2 sizes, National Standard and 3/32 inches outside diameter with 6 threads per inch. Hydrant steamer outlet threads are National Standard. Hydrants are inspected annually and were found to be in good condition at time of this survey. **Pressures:** Direct reading gauge at pumping station at about elevation 17 showed 55 pounds. Readings taken at two hydrants showed pressure readings of 60 and 53 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Camden Ave and Palmyra Rd., 555—60—54
Centre St., 1,500 ft. N of Palmyra Rd., 685—53—25.

FIRE DEPARTMENT: A volunteer organization of one company under the control of the district fire commissioners. Total active membership 32 including an acting chief, an acting first assistant chief, and one engineer, of whom a minimum of 10 members are available at all times. Officers are elected annually by the company and confirmed by the district fire commissioners. The department is sup-

ported by an annual fire district budget. **Company:** Located on the Palmyra-Lenola Road north of Camden Avenue as shown on map. Building is a 2-story stuccoed concrete block structure with asbestos shingle wood roof, steam heat, electric lights, concrete floor, and telephone. **Equipment:** One 1943 Buffalo 500-g.p.m. triple combination pumping engine carrying one 200-gallon booster tank, 150 feet of booster hose, 1,000 feet of 2½-inch hose, 200 feet of 1½-inch hose, 2 short ladders, and some minor equipment. One 1934 hose and booster car carrying one 185-gallon booster tank, one 75-g.p.m. booster pump, 150 feet of booster hose, 450 feet of 2½-inch hose, 100 feet of 1½-inch hose, 2 short ladders, and some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. Total supply is 1,450 feet and all is carried on the apparatus. About 50% of the total supply is more than 5 years old. Hose is tested at least annually at 200 pounds pump pressure with shut-off nozzles. No drying facilities provided. **Operations:** Fire department is under the jurisdiction of the district fire commissioners and is governed by company by-laws. There is no municipal ordinance governing the department. There are 5 appointed drivers for each machine and motors are started at least weekly. **Drills and Training:** Company drills are held twice monthly under the direction of the chief officers. They consist of hose laying, pump operation, and ladder work. Members have attended the Burlington County Fire School and 10 of the present members are graduates. **Fire Methods:** Booster streams and hand equipment are used on incipient fires supported by hydrant and engine streams with shut-off nozzles. Salvage equipment is limited to one tarpaulin. No heavy stream appliances are provided. Four gas masks are carried on the equipment. **Response to Alarms:** Both pieces of apparatus respond to all alarms and one piece of apparatus responds to calls for assistance from surrounding municipalities. Substantial assistance is available from the adjoining district of Moorestown and from other surrounding volunteer departments. **Building Inspection:** No routine inspection by the fire department. County fire marshal investigates fires and complaints. **Records and Reports:** Records consist primarily of attendance tabulations including nature of alarms and equipment used. Monthly reports are made to the district fire commissioners. **Fire Alarms:** No telegraph alarm system. Fire alarms are telephoned to the Moorestown Police Headquarters or to homes of members near fire station and sounded on electric siren on tower at fire station.

POLICE DEPARTMENT: The township department consists of a chief, a sergeant, 2 desk clerks, and 6 patrolmen working in 8-hour shifts. There are 3 cars equipped with 2-way radio, and one ambulance. Police respond to alarms of fire and report unauthorized construction to the building inspector.

BUILDING LAWS: Code adopted April 26, 1920 provides for the appointment of a building inspector and requires that permits be secured before building operations may begin. Code has little value from a fire protection standpoint. No fire limits are established and flammable roof coverings are allowed throughout the township.

EXPLOSIVES AND FLAMMABLES: No municipal regulations. State laws adequately cover the storage and shipment of explosives and flammables and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

ZONING ORDINANCE: None.