



THE FIRE INSURANCE RATING
ORGANIZATION OF N. J.
ENGINEERING DEPARTMENT
NEWARK 2, N. J.

Beachwood Borough **Ocean County, New Jersey**

JUNE 30, 1951

BERKELEY

KEY

PROTECTED FIRE ZONE: Shown in Green.
NOTE.—Fire protection report on file in Engineering
Department of F. I. R. O. of N. J.
Elevations range from 10 to 70 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:
① Pumping engine and hose car
② Hose car
③ Booster tank or tanks on above

BEACHWOOD BOROUGH, OCEAN COUNTY, NEW JERSEY.

Population—Census of 1940 was 650.

Estimated Summer Population—1,500.

IN GENERAL: Located on the Toms River, Central Railroad of New Jersey, and Pennsylvania Railroad one mile southeast of Toms River. A seashore resort of small homes along the south bank of the Toms River. Area 3 square miles. Elevations range from 10 to 70 feet. Main roads concrete, others gravel in fair to poor condition. Railroad crossings at grade and traffic on main highway are said never to have interfered with the response of fire apparatus.

WATER SUPPLY: Water for domestic and fire protection purposes is furnished by the borough which owns supply works and distribution system and supplies water to the borough only. System is under the supervision of the foreman of the street department who with one laborer will maintain and operate system. Two trucks are provided. Foreman is a member of the fire department and responds to all alarms of fire. Records consist of detailed sketches showing location of valves, hydrants, and pipe. **Supply Works:** Built in 1941. Water is obtained from one 12-inch well 278 feet deep with a capacity of 220 gallons per minute by a deep well turbine which discharges directly into the distribution system with elevated tank acting as equalizer. Deep well turbine starts automatically when pressure drops below 47 pounds. **Pumping Station:** Located as shown on map. Building is a small area cinder block structure with a composition roof. Electric lights. Oil stove for heat. No hand protection. No exposures. Wiring in conduit. Housekeeping good. Elevation of pump room floor 10 feet. **Equipment:** A 220-g.p.m. Sterling deep well turbine driven by a 25-h.p. U. S. Electric motor. **Distribution System:** In one service; see map. Supply to the district is through an 8-inch main extending southwest on Beachwood Boulevard. Arterial system is generally good with a few 6-inch dead end mains supplying hydrants. **Elevated Tank:** Steel, located as shown on map, 19 feet by 17 feet 6½ inches, capacity 50,000 gallons, mounted on a 91-foot 4-inch steel tower. Elevation of base 25 feet. Elevation of overflow 133 feet 10½ inches. **Consumption:** There are no available figures on consumption. System has just been placed in operation. It is estimated that there will be about 400 unmetered services. **Pipe:** Asbestos cement, laid with a 3½-foot cover. Total length, 43,150 feet; 61.0% 4-inch, 19.0% 6-inch, 20.0% 8-inch. No trouble reported from frozen mains or electrolysis. **Gate Valves:** There are 82 of Mueller manufacture set with iron boxes at grade. Direction of operation is uniform. No regular inspection is planned. **Hydrants:** There are 20 of Mueller make of standard type with two 2½- and one 4½-inch outlets and 6-inch gated branches. Hose and steamer outlet threads are National Standard. Hydrants will be inspected twice a year. Those operated during resurvey were new. **Pressures:** Readings taken at 4 hydrants widely distributed showed pressures ranging from 42 to 48 with an average of 45 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on December 23, 1941 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Atlantic City Blvd. and Beachwood Blvd., 1,260—46—40.
Starboard St. and Capstan Ave., 700—48—45.
Ship Ave. and Wave St., 1,170—42—21.
Lookout St. and Beacon Ave., 1,090—43—18.

FIRE DEPARTMENT: A volunteer organization of one company under the supervision of the commissioner of public safety. Borough owns house, apparatus, and equipment, and appropriated \$500 for the support of the department in 1941. Total membership 25 of whom an average of 11 are always

available. There are a chief, an assistant chief, and a foreman who are elected annually by the company and approved by the commissioners. **Company—Beachwood Volunteer Fire Company No. 1:** Located on the Atlantic City Boulevard near Beachwood Boulevard. Building is a 2-story concrete block structure with asbestos shingle roof, concrete apparatus floor, steam heat, telephone, and electric lights. **Equipment:** A 1938 Pirsch Diamond T 500-g.p.m. triple combination pumping engine carrying a 200-gallon booster tank, 350 feet of booster hose, 800 feet of 1½-inch hose, 800 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. A 1931 Ford auxiliary car carrying some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested monthly at 100 pounds, shifted at fires and drills, and dried on apparatus floor. There is a total supply of 1,200 feet of 2½-inch hose of which 400 feet is held in reserve and all is over 5 years old. **Operations:** Department governed by company by-laws. Chief has control of apparatus at all times and of men at fires and drills. He may suspend members pending a hearing before company. There are 3 members of company who are appointed as drivers. Motors are started daily. **Drills and Training:** Drills, held monthly under the supervision of the chief, consist of hose laying, pump operation, and use of equipment. **Fire Methods:** Booster streams are used on incipient fires reinforced by engine and hydrant lines with shut-off nozzles. No gas masks, salvage equipment, or heavy stream appliances are provided. **Response to Alarms:** Entire department responds to all alarms in borough. Outside aid may be secured from Toms River, Pine Beach, and Ocean Gate. **Building Inspection:** Occasional inspection for rubbish by the department. **Records and Reports:** Chief keeps a complete record in log book of all fires and makes annual reports to the board of commissioners. **Fire Alarms:** Fire alarm system is part of the fire department and is maintained by a local electrician. Headquarters equipment is located on apparatus floor and consists of a two-circuit Sterling board with the necessary switches for testing and operation. Circuit is protected on operating board by 10-ampere fuses. Current for operation of system is supplied from the local utility at 110 volts. There is a punch register, a 10-inch gong and a siren at fire house, and 16 interfering type fire alarm boxes of Sterling and Federal manufacture. Boxes are mounted on utility company poles at or near street intersections with red and silver indicating bands. Circuit is divided into two loops carrying all boxes and alarm instruments. Wire is No. 10 hard drawn, triple braided copper, mounted below power wire on utility company poles. Inside wiring is in conduit. Circuit is tested daily. Boxes are tested weekly by operating. Alarms of fire may be telephoned to homes of three firemen and borough hall and are sounded from the nearest fire alarm box.

POLICE DEPARTMENT: Consists of three patrolmen and 12 specials. One car is provided. Police respond to all fires. There are 7 fire police.

BUILDING LAWS: Code adopted June 16, 1939 requires that a permit be secured before building operation may begin. Flammable roof coverings are allowed throughout borough. No fire limits are established.

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.