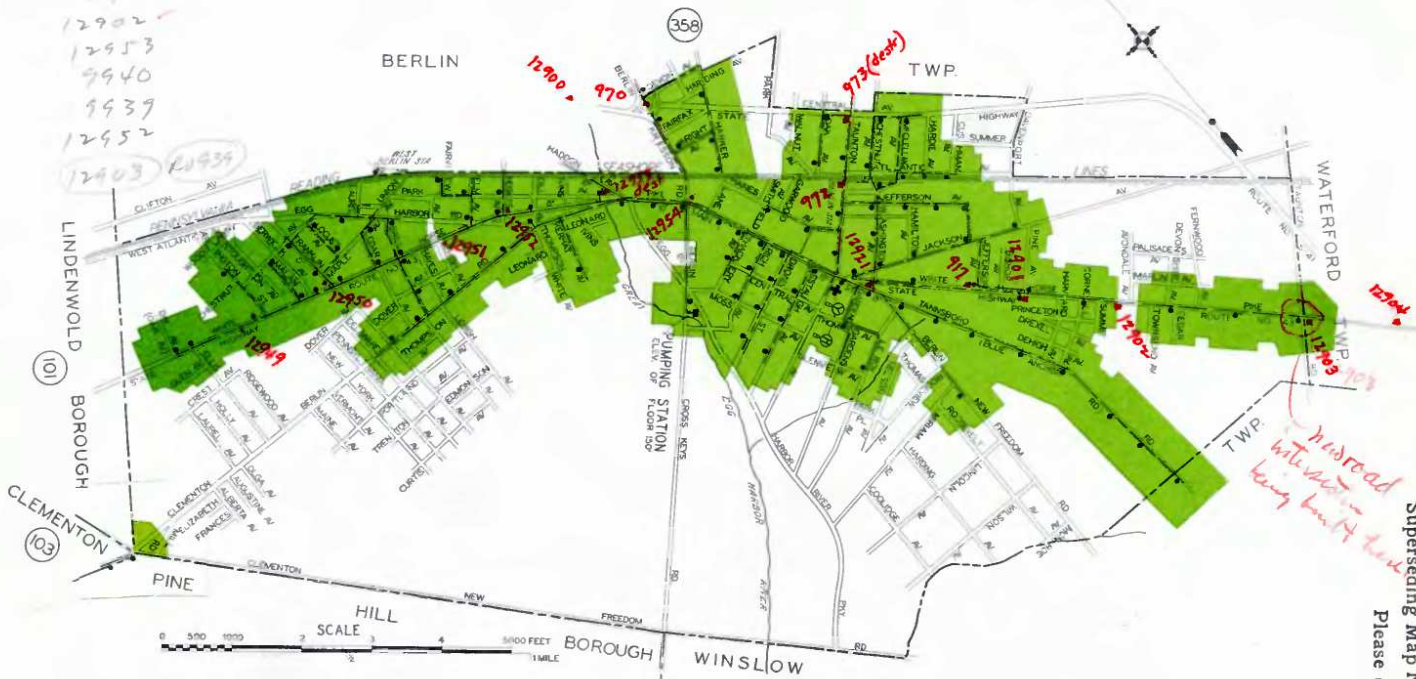


12957  
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Handroad  
 intersection  
 being built

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

**Berlin Borough**  
 Camden County, New Jersey

JANUARY 31, 1949

**KEY**  
 PROTECTED FIRE ZONE: Shown in Green.  
 NOTE.—For description of fire protection, etc., see other side.  
 Elevations range from 140 to 184 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:  
 (V) Pumping engine and hose car  
 (H) Hose car  
 (B) Booster tank or tanks on above

Superseding Map No. 304 of December 15, 1938.  
 Please destroy old issue.

## BERLIN BOROUGH, CAMDEN COUNTY, NEW JERSEY.

Population — 1940 Census — 1,753.

**IN GENERAL:** Located on the Pennsylvania-Reading Seashore Lines Railroad about 18 miles southeast of Camden. It is principally a residential community with about 7 small industries employing about 145. Area 3.7 square miles. Elevations range from 140 to 184 feet. Through roads are paved in good condition. Other streets are gravel in fair to poor condition. A few minor railroad grade crossings do not seriously interfere with the response of fire apparatus.

**WATER SUPPLY:** The borough owns and operates the supply works, distribution system, and appurtenances supplying water for domestic and fire protection purposes to Berlin Borough and Berlin Township. **Organization:** The system is under the control of an annually appointed chairman of the water committee and is in charge of a superintendent, who, with an assistant and one employee, operates the pumping station and performs all duties with additional help obtained when needed. Two small trucks with repair equipment are provided. Office is located at the pumping station. Records are limited to pumping statistics and a fairly up-to-date distribution map. **Supply Works:** Built in 1925. The entire supply is obtained from five 6-inch to 10-inch wells 68 to 360 feet deep with an aggregate yield of about 0.44 m.g.d. Three wells are operated by direct suction, one is operated by air lift, and one is provided with a deep well pump. With the exception of the latter, wells discharge to a concrete covered receiving basin 18 x 18 x 9 feet with a capacity of 21,870 gallons. Deep well pump and high lift pumps discharge to the distribution system with a standpipe in the township acting as an equalizer. Deep well pump is automatically operated on a variation of 55 to 65 pounds pressure. **Pumping Station:** Located on Berlin-Cross Keys Road at the Egg Harbor River Parkway. It is a 1-story brick structure with asbestos shingled wood roof, concrete floor, steam heat, electric lights, and telephone. No hand protection. Exposures are negligible. Wiring is in conduit. Housekeeping is good. Elevation of pump room floor about 150 feet. **Equipment:** One 0.595-m.g.d. Deming triplex pump driven by a 75-h.p. Fairbanks-Morse diesel engine which also drives a 9-inch by 8-inch Pennsylvania air compressor. One 0.595-m.g.d. Deming triplex pump driven by an 80-h.p. Chicago Pneumatic diesel engine which also drives one 9-inch by 8-inch Chicago Pneumatic air compressor. The diesel engines are fed from individual outside above-ground 275-gallon diesel oil tanks. **Well Station:** Located adjacent to the pumping station in a small area 1-story metal structure with concrete floor, tin roof, oil stove for heat, and electric lights. **Equipment:** One 0.36-m.g.d. Layne deep well turbine pump driven by a 25-h.p. U. S. electric motor. **Distribution System:** In one service consisting of a 12-inch and 8-inch artery with incomplete 4-inch and 6-inch gridiron and unsupported small diameter branches. **Standpipe:** Located on McClellan Avenue west of Haddon Avenue in Berlin Township. It is steel, 20 feet in diameter by 120 feet high with a capacity of 282,000 gallons. Elevation of base about 180 feet. Elevation of overflow about 300 feet. **Consumption:** The average and maximum daily consumption during 1947 in the entire territory served were 0.136 and 0.2 million gallons respectively. On December 31, 1947 there were 953 live services in the entire territory covered, all but 11 of which were metered. **Pipe:** All pipe is cast iron, tar coated, bell and spigot joint, laid with about a 3-foot minimum cover. Total length in the borough, 71,600 feet; 2.2% 12-inch, 5.9% 10-inch, 8.4% 8-inch, 68.7% 6-inch, and 14.8% 4-inch. No trouble was reported from freezing or electrolysis. **Gate Valves:** There are 75 valves in the borough of R. D. Wood and Mueller makes, set with valve boxes at grade. Direction of operation is uniform, but no routine valve inspections are made. **Hydrants:** There are 98 in the borough of R. D. Wood make of standard type, all having two 2½-inch and one 4½-inch outlets and 6-inch branches. Only a few of the hydrant branches are gated. Hose outlets have an outside diameter of 3½ inches with 6 threads per inch. Larger outlets have an outside diameter of 5½ inches with 7 threads per inch. Hydrants are inspected semi-annually, and at time of resurvey those operated were found to be in fair condition. **Pressures:** Readings taken at 5 well distributed locations showed pressures ranging from 48 to 57 pounds with an average of 53 pounds. A direct reading gauge at the pumping station at about elevation 155, with standpipe about 10 feet below full mark,

showed a pressure of 66 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on September 9, 1948 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

White Horse Pike and Rich Ave., 780—55—19.

Route S-41 and Chestnut Ave., 390—55—9.

Tannsboro Rd. about 650 ft. N. of Winslow Twp Line, 280—52—3.

White Horse Pike about 950 ft. N/W of Taunton Rd., 290—48—5.

White Horse Pike and Ells Ave., 300—57—4.

**FIRE DEPARTMENT:** A volunteer organization of one independent company which owns house, apparatus, and equipment. The borough appropriated \$2,500 for the support of the department during 1948. Total active membership 25, of whom a minimum of about 12 are available at all times. Officers include a chief, assistant chief, captain, and 2 lieutenants who are elected annually by the company without confirmation by the mayor and council. **Company—Berlin Fire Company No. 1:** Located on Taunton Avenue near White Horse Pike in a 2½-story frame building with asbestos shingled roof, concrete apparatus floor, steam heat, electric lights, telephone, and siren. **Equipment:** A 1947 Ward La France 750-g.p.m. triple combination pumping engine carrying a 500-gallon booster tank, 250 feet of booster hose, 800 feet of 2½-inch hose, 300 feet of 1½-inch hose, a 1,500-watt portable electric generator, 4 flood lights, a 35-foot extension ladder, and meager minor equipment. A 1942 Chevrolet-U.S.A. hose and booster car provided with a 300-g.p.m. Barton front mounted pump and a 375-gallon booster tank and carrying 300 feet of booster hose, 500 feet of 2½-inch hose, 250 feet of 1½-inch hose, 2 short ladders, one all-purpose gas mask, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with Jones snap couplings. It is shifted and tested semi-annually at about 250 pounds pressure and occasionally dried on the sidewalk. No hose is over 5 years old, but reserve hose is limited to 200 feet. **Operations:** The company is independently governed by company by-laws. Chief has control of apparatus at all times and of men at fires and drills. Motors are started weekly and there are at least 8 drivers. **Drills and Training:** Company drills are held monthly under the supervision of chief officers. They consist of hose laying and testing, pump operation, and some ladder work. **Fire Methods:** Booster and 1½-inch lines are used on incipient fires reinforced by hydrant and engine lines with shut-off nozzles. Department is provided with two salvage covers and one all-purpose gas mask, but is lacking in other salvage equipment and heavy stream appliances. **Response to Alarms:** Both pieces of apparatus respond to all alarms within the borough and outside aid may be secured from volunteer departments of neighboring municipalities. **Building Inspection:** No routine inspections are made. **Records and Reports:** Fairly complete records are kept of fires and drills, but no report is submitted to the borough. **Fire Alarms:** Alarms are telephoned through the Berlin Telephone Exchange to the Berlin Bakery where it is said that constant attendance is maintained and where there is a switch controlling the siren and intercommunication system with the fire house. All alarms are sounded on siren at the fire house by means of push buttons.

**POLICE DEPARTMENT:** Consists of a chief and 2 patrolmen who are subject to call. No vehicles are provided.

**BUILDING LAWS:** A code adopted January 1, 1929 provides for the annual appointment of a building inspector and has some structural restrictions, but is not sufficiently comprehensive from a fire protection standpoint. No fire limits are established and combustible roof covering materials are permitted.

**FIRE PREVENTION LAWS:** No municipal regulations. State laws adequately cover the storage and shipment of explosives, the transportation of flammables, and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

**ZONING ORDINANCE:** None.