

be started and stopped by a float-operated switch attached to a copper float in an 8-in. wrought-iron float tube, and actuated by the rise and fall of sewage in the suction well. For the present population served by the station, one pump will be sufficient and the other will be used as a spare and later to assist during peak load when additional units are installed. For the ultimate conditions, when the district tributary is more densely populated, four pumps will be required, one of which will be a spare.

SECTION ON AB

The lower compartment, containing the pumps, is encircled by two compartments, from one of which the pumps draw their suction, discharging into the other, which is connected by a force main to the gravity sewer at a higher level.

The upper compartment, or motor room, will eventually contain four vertical motors, four float switches, the switchboard, wash-stand, lockers for supplies, etc., and a venturi meter register. The sewage will be measured by a venturi tube situated in a chamber on the force main about 50 ft. from the pumping station, the pressure pipes being led back to the register in the motor room.

Power

"Hydro" current will be used, and to provide for interruptions in current flow, 12-in. check valves are placed between the suction and discharge chambers, so that should the sewage rise to a sufficient height in the suction well, it would flow through the check valves and on into the force main with the minimum damage, if any, by flooding the interceptor and overflowing into the river.

Interior Finish

The motor room will be lined with a light-colored brick and will have a red quarry-tile floor. The ceiling and girders will be painted with a cream color cement paint. The pumproom will be painted a similar color, but will be a light stone color from the floor to a height of 3 ft. 6 ins.

Ventilation

A system of ventilation will be installed, capable of supplying 500 cu. ft. of air per minute, or a complete change of air in ten minutes. The fan with motor is placed near the roof, from which air ducts are carried to the floor of the motor and pump rooms. The air exhausted by the fan will be expelled through a flue and opening in the side of the superstructure, and fresh air will enter through the stairway

