LUSHING LINE

SLAB

\$ SUCTIONS

lines Mannesmann lap-welded steel pipe was used and practically all of the joints are of the bell and spigot type, and leaded. Flanged pipe was used only for the first 125

512



Fig. 8.—Sectional Diagrams of Suction Well, Showing Piping Arrangement.

Feed tank

feet of the line from the station, in which section there is a Simplex venturi meter with indicating and recording apparatus in the power plant.

The storage reservoir is of reinforced concrete, covered and rectangular in shape. It is 208 feet by 96 feet and about 21 feet in depth. Provision is made for future extension, one side wall having been designed as self-supporting, to serve as a dividing wall when extensions are made. A concrete gate house with a brick

superstructure protects the necessary valves and con-nections. The reservoir has a beam and slab roof and buttressed walls, reinforced horizontally. In their design it was assumed that the earth pressures would be equivalent to that of a fluid weight of 15 lbs. per cubic foot when the reservoir was full and 33 lbs. per cubic foot when empty. Necessarily a heavier wall was adopted for the upper six or eight feet than this assumption required, to provide sufficient strength in case the earth backing were removed. An ad-

vantage of the type of wall adopted is that the main reinforcement serves also as temperature reinforcement and effectively distributes any vertical cracks.

When tested for leakage, the reservoir was found

