

iron pipe being the most expensive, and wooden pipe being the lowest priced: the estimates ranging from \$33,685 for cast iron pipe, to \$21,553 for wooden pipe. The kind of pipe recommended by the engineer, is the Spiral Steel Riveted pipe with flanged joints, which he says, in view of the fact that it is "Thoroughly asphalted inside and out" is nearly as durable as the cast iron pipe. The cost of this pipe is set down in the estimates at \$24,894. for the entire system.

These estimates include not only the pipe, but all the other incidents to the completion of the work. The other items in the estimates besides the cost of the pipe are Canal and filter \$400.00, Reservoir \$1,200. Laying pipe etc \$5861. Fittings \$1833. these expenses are the same no matter which kind of pipe is used. The report further says that if it is impracticable to do the whole of the work at first, the whole of the eight inch pipe can be put in, the filter and reservoir made, a 4 inch pipe from first south street along third West to the Normal school, and a 4 inch pipe from first North street to the creek, for \$10,174. this estimate includes five hydrants.

In conclusion the gentleman recommends the letting of the work to responsible contractors, rather than that the city do it itself, as it will be done better and cheaper. The wisdom of the council in selecting a competent man to make this survey and estimates is apparent to any one who will take the trouble to read Mr. LeProhon's report.

The Water System.

Mr. LeProhon, the civil engineer whom the City authorities employed to make the surveys and estimates for the putting in of the new water system has completed the survey and presented a report of his findings to the Committee on Water works. It is an able document, as far we are competent to judge, and contains a fund of information, which is of absorbing interest to any one who is interested in the installing of a water system. But its length prevents us from publishing it, although it ought to be in the hands of every one of our people.

The plan which is recommended is to take the water from the creek in a canal about 3000 feet long to a filter which is to be made as follows first a layer of charcoal, next a layer of coarse sand, and last a layer of broken stone. From the filter the water will pass directly into the Reservoir which to hold a twenty four hour supply for the present population of the city, will have to be 60 feet square on the bottom and 6 feet deep. The water will be conveyed from the reservoir to the city and along first South street to third west street in an eight inch pipe, and another eight inch pipe will extend from the main pipe down Main street to the City Hall, the entire length of this size of pipe required will be 9935 feet. The rest of the pipe will be four inch pipe, of which the total length required will be 19,366, making in all 29,304 feet of pipe for the entire system. The proposition is to run four inch pipe down first and second East streets to first North street, and also down third and fourth East streets as far as center street and along center street to connect with the pipe that runs down second East street. On the west side of Main street the pipes are to run down first west street to first North Street, and down third West street to first North street.

Second West street from center street North will be supplied by a pipe intersecting with the pipe that runs down first West street, but the upper part of that street is not provided for in the plan; which seems to us to be a serious oversight or omission. From third West street along first North street to the eight inch pipe on main street a four inch pipe will run to complete the circulation to that point, and from there a four inch pipe will run to the creek to clean the whole system.

In the matter of expense much depends upon the kind of pipe used, cast