

That portion of James Bay Ward dipping north could be drained by this system, and the remainder would require a system of its own emptying into Royal Roads.

The smaller feeders of this scheme would be of glazed pipes which, with a little preparation, could be manufactured in the Province, there being abundant material.

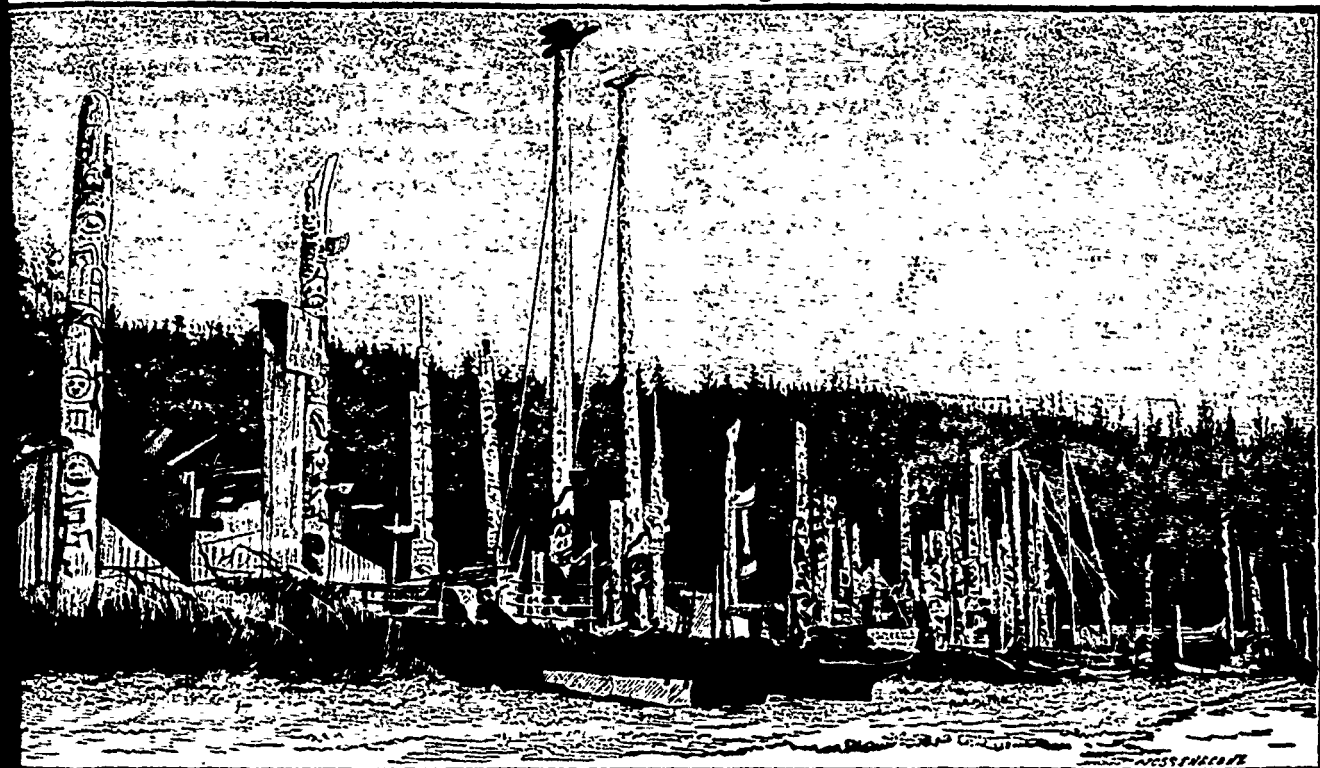
Implied as necessary in the above idea would be an additional main water supply to be got by bringing in another main from Elk Lake, the fiction of a costly reservoir on the higher level here, being (by the writer) considered unnecessary, the present source being the natural and proper reservoir.

The advantage of having two complete sets of pipes is obvious. A main might burst or leak; a new

in the temperature securing a circulation and throwing the noxious gases—that may be driven back through the sewer—high above our heads—where, being lighter, they will disperse in the upper air; also, a sewer provided with the necessary traps, and connected with the street sewer, but if the above mentioned contrivance be adopted the traps cannot be forced and the dwelling is perfectly safe, though typhoid is raging all around no germ can enter the dwelling by means of the sewer pipe. This renders unnecessary any open vents or gratings on the streets.

To condense then, we have abundant means of carrying out, what is conceded to be the best system where practicable, viz., the water-carriage system, that is, we have plenty of water and a splendid "dump."

We secure efficiency at a trifling outlay because this



SCENE ON QUEEN CHARLOTTE ISLANDS.

filter might be required, a big fire might devastate the city; and, if no mishap occurred, the increasing needs of the people, and the enhancement in value of property, as also the crowning triumph of Victoria as the sanatorium of the Pacific would be the fact of pure streams of water coursing through her streets, an idea the realization of which should be begun immediately, and completed as soon as possible, taking Melbourne as her prototype, the model city of the New World.

As health and cleanliness are the main objects, every means known to science should be brought to bear; but the great objection urged against a sewage system connecting every house with every other can be successfully overcome by a system of plumbing which isolates each house, every dwelling having a double vent for the escape of gas one on the inside the other on the outside of the building, and both opening up on the roof, the difference

scheme, roughly estimated and without counting on the cost of right of way, would come to less than even the smallest sum suggested, as necessary to carry out a drainage scheme. It would last out the bulk of the present generation, and when ready to be replaced by a new material there would still be the complete system of levels, and such sewers as are now put in of glazed tile tubing, while the box drains might be used to carry large pipes when they became leaky and unfit of themselves.

It would be salubrious, being tight, no exhalations could escape, and seeing that everything would be either thrown into the main artery to be pulsed out into that great purifier, old ocean, or delivered into the upper regions of air. Though neither last nor least, we would be using the products of the country, and all the expenditure necessary would be circulated amongst our own mechanics and tradesmen.