

lights and aids to navigation on the Lachine Canal and Lake St. Louis had been completed.

Victoria, B.C.—The work of laying a 12-inch main to connect the Gorge Road main with the temporary pipe line over the Gorge, through which the city is now securing its supply from the system of the Esquimalt Waterworks Company, has been completed. The new main will provide for an additional supply approximating 1,000,000 gallons per day and bring the total supply available from the Esquimalt Waterworks Company to slightly below 6,000,000 gallons per diem. By next fall the pipe line of the Sooke system will be laid from the city to a point beyond Parson's Bridge. When this is done a permanent connection with the system of the Esquimalt Waterworks Company will be made at the bridge, and at any future time, if accident should interfere with the Sooke supply, instant connection with the company's system will be possible.

Halifax, N.S.—Mr. Thomas Cozzolino, president of the Nova Scotia Construction Company, Limited, stated recently in connection with the work being done by his company on the Dominion Atlantic section of the C.P.R., that in constructing No. 2 pier at the north end of the Halifax harbor 1,600 concrete piles had been sunk, each from 58 to 78 feet in length and weighing as much as 75 tons. These were driven into the bottom of the harbor, where the water is from 38 to 40 feet deep by a hammer weighing about 16 tons. About 300 more of these piles will be driven, making a total of about 2,000. Mr. Cozzolino states that experts aver that this piece of work has formed the solution of the concrete pier problem. The wharf will be 800 feet in length, and will cost, when completed in August, about \$1,000,000. Concrete sheds of the finest construction are also called for in the plans for the work being carried out at this port.

Winnipeg, Man.—W. E. Skinner, consulting engineer, recently gave an interesting talk on the hydro-electrical resources of Manitoba at a union of the Jovian order at Winnipeg. He stated that, according to the report made to the government on water-powers within the province, the total amount of power within the limits of the province that can possibly be developed was 3,037,355 horse-power; and in the summer months, from May to October, there would be available another 218,430 horse-power. This, Mr. Skinner pointed out, was three times as much power as was used in the cities of Chicago and New York for all purposes during last year. While much of the power in Manitoba was at present inaccessible, the resources of the country would bring it close to hand.

Fort William, Ont.—Work will soon be commenced by the Thunder Bay Contracting Company on the 2,646-foot sea wall which is to be built at the mouth of the Mission river. The first work to be done to the wall was commenced early last March, but only timber enough for the construction of three cribs was on hand; and when this was used, work was stopped until a fresh supply could be obtained from the lumber mills in British Columbia. This supply is expected to arrive this week. The wall will be built on the crib construction plan from the bottom of the river, which is 28 feet deep at that point, to the surface; and from there up the wall will be constructed of concrete. When completed, it will be the means of reclaiming several acres of valuable land from Lake Superior.

Toronto, Ont.—The Department of Colonization Roads of the Ontario government has already commenced sending road gangs throughout Northern Ontario, since this season's program of work is a considerably extensive one. A highway connecting the Transcontinental and Canadian Pacific Railways through Waubagoon township will be undertaken at once. Other roads to be constructed are a new trunk road running out of Sudbury and Coniston, one connecting Quibell and Vermillion; and the Gowganda road in the pulpwood

district of Espanola. Further, the Provincial and Dominion governments have under present consideration the extension of the trunk line of roadway running between North Bay and the Soo, so as to make through connection between Ottawa and Sault Ste. Marie. The contemplated new section of this highway would follow the old military road from Ottawa to Mattawa, and thence to North Bay. The extension is being strongly urged, and it is likely that the proposal will be adopted.

Toronto, Ont.—It has been announced that early in June will commence a motor survey of Ontario to be made under the direction of the provincial highways department, the purpose of which is to furnish the basis for construction work next year upon the \$30,000,000 highways system for older Ontario. The motor survey will be carried on by several corps of engineers, each with a section of the province to cover. They will determine the present condition of all the travelled roads, urban, interurban and rural. They will study local conditions with a view to finding out which should be improved and the type of construction best adapted to meet traffic requirements. Sources of road-building material will also be investigated. Upon the completion of the survey tentative schemes will be submitted to the various counties and townships with a view to arriving at permanent plans. At present, the department has engaged 12 draughtsmen on the preparation of county and township road plans, upon which the progress of construction on each type of highways will be recorded from season to season.

ZINC AND POWER POSSIBILITIES AT NELSON, BRITISH COLUMBIA.

An outcome of the efforts which have been made by the board of trade of Nelson, B.C., and of mining men of the district, to induce the Woolsey, McAlpine, Johnson Zinc Corporation of New York to locate its proposed new electric zinc smelting plant at Nelson, has been to awaken interest in the possibilities of the district. Consequently, Mr. Johnson, Dr. Struthers, his associate, and Dr. E. A. Barlow, of McGill University, Montreal, who has been working on the problem for the Canadian Federal Government, are now at Nelson going into the question of electric power supply, site and other questions.

It was on account of the success which has been achieved by the Johnson process that the Government, on the advice of W. R. Ingalls, of New York, zinc expert, discontinued its work and decided to await further results from Mr. Johnson.

Huge bodies of low-grade zinc ore, in developed and undeveloped mines of the district, await the solution of the treatment of complex zinc ores and if the process is carried to a complete success it will mean a heavy increase in mining operations in this district.

With last week's output the total production of mines in Rossland, Slocan-Ainsworth, Nelson and East Kootenay districts this year was brought to 182,837 tons. Shipments to Trail smelter last week totalled 7,030 tons, which is 804 tons greater than those of the previous week. Shipments to the smelter for the year are 117,053 tons.

The Granby Con. Co., of Anyox, B.C., is operating only one of its blast furnaces at its new works at which smelting was commenced on March 16. It is stated that experience thus far indicates that ore from the company's Hidden Creek mines, near here, can be smelted without lime flux, and that 700 tons a day is being put through the single furnace in blast.