

The city of Victoria, B.C., will receive tenders for the delivery of 12,000 feet of cast-iron water pipe. Address W. W. Northcott, City Hall, Victoria, B.C.

The Baer Typewriter Improvement Co. have been incorporated at Victoria, B.C., with a capital of \$5,000, to manufacture typewriting machines, etc.

The British American Coral & Mycenian Marble Co. have been incorporated at Victoria, B.C., with a capital of \$100,000, to manufacture coral, mycenian marble, etc.

The simplicity of the handsome new office building of the B. F. Sturtevant Co., Hyde Park, Mass., brings it into harmony with the shop buildings and still it bears the appearance and grandeur of a modern school house. It is about 45 feet wide and 125 feet long, with four stories and a basement. One half of the basement is occupied by the printing plant and its stock room. Here are printed the catalogues, circulars, letter-heads and all printed forms used in the office and shops. Another portion is used as a lunch room for the office force, while the heating and ventilating apparatus is also located in the basement. Naturally the building is heated and ventilated by the Sturtevant fan system. The galvanized iron heat flues are built into the walls and convey the heated fresh air through register openings into the various rooms. On the first floor are located the production, time and costs departments and the publication department; on the second floor are the sales and accounting departments, cashier, clerks, etc., the manager's office and the filing department. The drafting rooms occupy the whole of the third floor, while the blue-print department is on the fourth floor. The fourth floor also contains two large vacant rooms which may be utilized for future growth, either as offices or drafting rooms. Eight large fire-proof vaults, each about 9 feet wide and 19 feet long give abundant room for the safe keeping of books, correspondence, drawings and valuable data. The first two floors are finished in quartered oak and the upper two in plain oak. The wainscoting, painting, the tinting of the walls and ceilings and the office fixtures are all very tasty and add much in making this office building one of the finest in the country.

Dodge & Day, engineers, Philadelphia, Pa., have placed the orders for generators and motors for Alexander Brothers, Philadelphia, with the Western Electric Co.; for the shafting, hangers, etc., with Geo. V. Cresson Co., and wiring with Buchanan Co., all of Philadelphia. This firm of engineers has just been commissioned to install a heating system in the building lately acquired by Alexander Bros. at No. 412 North Third Street, Philadelphia, and have also taken charge of the installation of additional motors at the plant of Schaum & Uhlinger, Second Street and Glenwood Ave., Philadelphia.

The trade of Cape Colony shows a fair advance for the calendar year 1903 over 1902. A return just made up at the Department of Trade and Commerce at Ottawa, gives the value of imports into the colony in 1903 as \$108,800,271, compared with \$106,539,766 from Canada, the imports increased from \$218,400 to \$1,100,002. The imports from the United States were \$22,080,271, an increase of \$5,750,000, while the imports into the colony from Great

Britain, which were \$108,550,951 in 1902, were \$5,000,000 less last year. The total exports of Cape Colony in 1903 were \$125,143,607, of which Great Britain took \$108,143,607, consisting mainly of raw gold and diamonds.

There was a very large decrease in the production of corundum and emery in the United States in 1903, which amounted to only 2,542 short tons, valued at \$64,102. This is a decrease of 1,709 tons in quantity and of \$40,503 in value as compared with the production of 4,251 tons, valued at \$104,605, in 1902. The imports of emery and corundum continue to be largely in excess of the home production, and in 1903 they were valued at \$321,569, as compared with \$214,842, the value of the 1902 imports. There continued to be an increase of corundum imported, almost wholly from Canada.

ELECTRICITY.

Electrical machinery and appliances of all kinds, electrical power plants and other progress in the electrical industries will be noted here.

There are now three telephone companies in New Brunswick, and all are extending their lines. The oldest, the New Brunswick Telephone Co., are spreading out in the upriver counties where the Union Co., with headquarters at Florenceville, are doing the same. The Central Co. have their headquarters at Bellisle, and there is a rumor of an amalgamation of the Union and Central. If this occurs there will be two strong rival companies in the province.

The latest electrical developments at Shawinigan Falls, Que., go to show how rapidly this branch of engineering is progressing in Canada. A 50,000-volt current is carried to Montreal, a distance of 85 miles and develops in the neighborhood of 10,000 h.p. Work is now in progress on an additional transmission line which will double the amount of power now delivered in Montreal. Half a dozen years ago this locality was almost unknown, its only means of access being a canoe. Now on account of its power riches, Shawinigan is a rapidly growing city of manufacturing industries.

The Berlin & Waterloo Street Railway Co. are building a new electric power house and repair shops. A 150 k.w. Westinghouse dynamo will be installed.

A company have acquired the rights to the water power of the Gaspe River in Nova Scotia, with the idea of furnishing electric light and power throughout the Annapolis Valley.

The Goldie & McCulloch Co., Galt, Ont., have just furnished the Winnipeg Street Railway Co. with a compound engine of the heavy duty type, the fly wheel of which weighs 10,000 pounds. This type of engine has been specially designed to meet the requirements of modern central station practice.

The Shawinigan Water & Power Co., Shawinigan Falls, Que., have contracted with the Canadian Westinghouse Co., Hamilton, Ont., for a two-phase rotating field alternator of 6,000 k.w. capacity and 2,200 kilowatts in transformers.

Toronto City Council have adopted the report of a special committee favoring a municipal telephone system and decided to submit to the ratepayers at the January election a by-law to raise \$10,000 for the installation of such a system.

The Western Telephone Co. have built a power house at Red Deer, N.W.T. with the object of furnishing electric light and telephone systems for that place. They may also furnish the power for operating the water works system.

The Bell Telephone Co. are completing a large addition to their main offices in Montreal. The switchboard to be installed will have a capacity for 10,000 subscribers.

A Danish electrical engineer has invented an attachment for the telephone by which messages received during the absence of the subscriber from his office can be recorded and reproduced at desire. The new instrument is called the telegraphone.

Mr. J. F. H. Wyse, formerly manager of the Brantford Electric & Operating Co., is now practising as a consulting electrical engineer. His office is at 16 King Street West, Toronto.

Mr. John Galt, C.E., and M.E., Toronto, has reported that water works and electric light systems for the town of Indian Head, N.W.T., would cost about \$87,000. The E. S. Harrison Co., Winnipeg, Man., have submitted a proposition to establish an electric plant at that place.

The Mexican Light & Power Co., which is controlled by Toronto and Montreal capitalists, have secured a contract from the Federal Government of Mexico for the entire lighting of the city of Mexico and suburbs till 1917, also for the lighting of the post offices and Government building in that city. The contracts were arranged by Mr. C. H. Caham, Halifax, N.S., attorney for the company.

The Electric Development & Securities Co., incorporated under the laws of the state of New York, have been granted a license to conduct business in Ontario, under the name of the International Electric Securities Co. Authority is given to develop power and to carry on a general contracting business. Mr. F. K. Foster, Toronto, is attorney for the company.

Messrs. Marchand & Co., electrical contractors, Ottawa, have acquired an interest in a water power at Bryson, Que., and have in contemplation a scheme to supply light and power to Bryson and the adjacent villages.

The Toronto Street Railway Co. have introduced on their system a testing car, which is a marvel in electrical ingenuity, and which, it is claimed, will not only save labor, but will be a means of preventing accidents. The car is so constructed that it registers every defective joint, rail or crossing, every weakness or escape of current, or other defect in the system as it travels along the car routes, and this register is so complete that as soon as the car runs into the barns the exact places where the defects exist are shown, and a repair wagon can go straight to the point. The car also registers the amount of current passing along the wire throughout its whole route.

The municipality of Chiviloy, province of Buenos Aires, S.A., is open for proposals