CONTRACTS AWARDED.

VICTORIA, B. C.—Building on Johnson street for Juene Bros.: Robert Dinsdale, contractor.

FORT FRANCIS, ONT.—Two-storey cold-storage building for L. Christie: J. F. McKenzie, contractor.

MONCTON, N.B.-Haley Bros., of St. John, are reported to have secured the contract for refitting the post-office here.

PORT ARTHUR, ONT.—The Council have just sold \$25,000 town debentures to the Dominion Securities Company, at 105.

TORONTO, ONT.—The contract has been let for a new Baptist church at corner of Bloor street and Ossington avenue, brick and stone, cost \$13,000.

WINNIPEG, MAN.—The City Council have accepted the following tenders: Supply of 16 and 18 inch valves, Chapman Valve Company, \$305; hydrants, Camden Iron Works, \$6,025 f.o.b. Winnipeg.

FREDERICTON, N. B.—It is under-stood that the Canada Foundry Company, stood that the Canada Foundry Company, Toronto, have secured the contract for the superstructure of the Fredericton highway bridge.—The Council have disposed of \$10,0000 of waterworks debentures to J. W. McCready, at \$25 above par. They are redeemable in 30 years and bear interest at 4 per cent.

FIRES.

FIRES.

Hotel at Dyment, Ont., owned by Mrs.
Larson; loss \$4,000.—Central Congregational church on Hargrave street, Winnipeg, damaged to extent of \$25,000.—St.
Luke's Anglican cathedral, Halifax, N.S.,
totally destrayed; loss about \$30,000,
insurance \$20,000.—Creamery at Richmond Hill, Ont., owned by the Devonshire
Manufacturing Company, totally destroyed. A new building will be erected.—
Methodist church at Markdale, Ont.; loss,
\$8,000.—Machine shop of the Stuart
Machinery Company, Winnipeg, Man.,
partially destroyed; loss \$10,000.—Residence of Charles Ellis, C.E., Winnipeg,
loss \$2,000.—Flour mill of Emerson Reid,
Portage du Fort, Que.—Building at 364
\$t. Paul street, Montreal, owned by John
Torrance and occupied by the British
American Import Company, partially
destroyed; loss on building, \$30,000.

PRODUCTION OF PORTLAND CEMENT.

According to a report published by the United States Geological Survey, the production of Portland cement in the

JOHN CALT

C. E. and M. E.

CONSULTING ENGINEER and EXPERT

> SPECIALTIES : WATERWORKS, SEWERACE AND ELECTRIC LICHT

Chief Assistant Engineers:
O. W. SMITH, C. E. W. J. BOWERS, C. E.

23 Jordan Street TORONTO

JOHN S. FIELDING Mem. Soc. C. R. West Penn. '87.

CONSULTING ENGINEER

Water Powers Dams, Bridges Room 2, 15 Toronto Street, TORONTO ONT

BANCO ZAROSSI

Italian Licensed Labor Contractor 460 St. James St., MONTREAL

All kinds of Italian Laborers furnished on short notice.

United States in 1903, 22,342,973 barrels, showed an increase of 5,112,329 barrels over that of 1902. This increase in supply was not entirely justified by the demand, and when the year closed a quantity of the Portland cement produced during the year was left unsold in the hins. Prices fell as a result and only the oldest and best known brands were able to maintain their usual market rate. The low price of the artificial product also seriously interfered with the production of natural rock cement, so that many operators of natural cement plants were forced to shut down during a large part of the year.

The total production of hydraulic cement in the United States in 1903 was 29,899,140 barrels, valued at \$31,931,341, an increase of 4,145,636 barrels in quantity and of \$6,564,961 in value as compared with 25,753,504 barrels, valued at \$25,366,380, produced in 1902.

Of the total production in 1903, 22,342,-973 barrels, having a value of \$27,713,319, were Portland cement.

The production of natural-rock cement was 7,030,271 barrels, valued at \$3,675, This was a decrease in quantity of 1,014,034 barrels and in value of \$401,110, as compared with 8,044,305 barrels, valued at \$4,076,630, the production of 1902. The production of pozzuolana or slag cement was 525,896 barrels, valued at \$542,502. The number of Portland cement works in the country during 1903 was 78.

SAWING STONE BY WIRE.

Stone sawing by wire is done successfully in France, according to a paper by Mr. E. Bourdon in the "Bulletin" of the Society for the Encouragement of National Industry. A complete plant comprises an endless wire passing round a series of pulleys, one of which is a driving-pulley. The necessary tension is obtained by a straining trolley working on an incline plane, and between the driving shaft and this trolley is situated the saw frame, which carries the guide-pulleys for the wire saw. This wire, which is driven at a given speed, is caused to press lightly on the stone, and the cutting is done by sand mixed with water, which is conveyed into the saw-cut as the work proceeds. Though the mode of operation appears simple, it entails various difficulties in practical application. Three twisted steel wires are used, each wire having a diameter of 0.098 in. The strands must be twisted fairly tight and should make one turn in 1.18 in. The wire may be driven in the workshop at a speed of 23 ft. per second, but i quarries or adits the speed should not exceed 13 ft. per second. The force exerted by the wire to produce the cut must be uniform and must be capable of being readily varied; moreover, it must be enged to the latent of the laten an endless wire passing round a series able of being readily varied; moreover, it must be proportionate to the length of the

WATER WASHED SAND

Is recognized as the standard for all first-class work. Architects and Contractors who make it a point to specify Water-Washed Sand are giving the best possible value to their clients. We guarantee prompt deliveries.

SAND & DREDGING, Limited Tel. M. 4507 John Street Dock, TORONTO

CONSIDER:

for a moment, that roadways are built to be used by the horse.

THE BITULITHIC PAVEMENT

provides a sure toot-hold for the horse, gives him confidence, he draws a heavier load with less exertion, and consequently is of more value.

The Warren Bituminous Paving Co., Limited

-CONCRETE PIPE-

Reinforced Concrete, Culvert and Sewer Pipe

Frost-Proof and Practically Indestructible

We have on hand over 5 miles of Reinforced Pipe, 6 inch to 36 Engineers and others interested, please write inch. us for prices.

THE DOMINION CONCRETE CO., LIMITED, KEMPTVILLE, ONT.

The IMPERIAL CEMENT CO. LIMITED

OWEN SOUND, ONT.

Makers of the Celebrated

Imperial Portland Cement

CRUSHERS

the best English Manganese Steel.
Latest approved Chain or Belt Elevators, any length.
Revolving and Chute Screens, any Specification.

SAWYER & MASSEY CO., LTD. Hamilton, Can.

