

VANCOUVER, B.C.—The tender of A. Adams to construct a new Carnegie library building has been recommended for acceptance; price \$40,200. The other tenders were: E. Cook, \$47,632; W. S. Hurst, \$41,900; Lachance, Martel, \$56,200; D. Saul, \$42,433.

TORONTO, ONT.—Gouinlock & Baker, architects, have let the contract for the new building on Adelaide street east for the Toronto Electric Light Co. to the following: Masonry, Oakley & Holmes; plastering, T. Gander & Son. Same architects have let contracts for a five storey building, corner Duke and George streets, for Christie Brown & Co, to cost \$50,000.

LONDON, ONT.—Moore & Henry, architects, have let contracts as follows for alterations to house on Dufferin avenue for J. W. Little: Mason and brick work, E. Martyn; carpenter work, R. G. Wilson; plumbing and heating, W. Skelley & Son; plastering, Gould Bros. —Herbert Matthews, architect, has let the contract for alterations to house on Talbot street for Miss McDonough to R. G. Wilson.

#### RESISTANCE OF CONCRETE.

When certain conditions are imposed for the manufacture of concrete two very important errors are frequently made, says a writer in an exchange. First, the employment of screened stone is insisted on, although the use of unscreened stone would be preferable. Second, the proportion of the mortar is fixed independent of the spacing between the stones. Screened stone give a larger proportion of spaces than the unscreened, and consequently they require more mortar, and produce a more expensive concrete for the

same volume of stones. W. A. Hawley and R. F. Krihl have recently made a series of experiments in order to determine the resistance of a concrete according to the relations existing between the space measurement and the quantity of mortar. In these experiments the proportion of spaces filled was, 125, 100 and 75 per cent. By increasing the proportion of mortar by 25 per cent., the crushing point was increased by 53 per cent. and the breaking point by 15 per cent.; a decrease in the proportion of mortar brought about a diminution in these two resistances of 21 and 35 respectively. In practical work the most economical form is that having a proportion of mortar equal to 125 per cent., because, by an increase of 14 per cent. on the net cost an increase in resistance of 33 per cent. is obtained; while by a 14 per cent. diminution on the net cost a decrease in resistance of 30 per cent. is brought about.

#### DATE OF PUBLICATION.

Architect, engineers, municipal authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on the day to insure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, avoid which special attention is directed to this announcement.

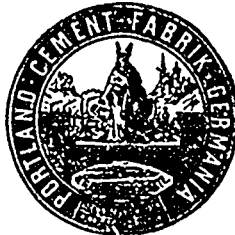
#### Paving Granite

Granite Sets for Street Paving. — CURBING to any shape ordered. — Fine Rich Colors for Building and Monumental Purposes.

Quarries Phillippe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL



### "GERMANIA" BRAND HIGHEST CLASS PORTLAND CEMENT

MCGILL UNIVERSITY TESTS, 1898:

Fineness:—residue on 100 sieve, 4.45%.

Tensile strength: neat: 7 days, 629 lb.

" " 28 " 773 lb.

—OF ALL FIRST CLASS DEALERS—



### "HEIDELBERG" Brand

(formerly "Schifferdecker")

Highest Class Portland Cement.

Very finely ground.

Output 1900—one million barrels.

Used extensively in construction of the Chaudiere Dam.

... OF ALL FIRST-CLASS DEALERS

#### TOWNSHIP DEBENTURES

##### WANTED

Highest Market Prices paid for Township and other Bonds by

The Central Canada Loan & Saving Co y  
Cor. King & Victoria Sts.  
TORONTO.

### A.E. AMES & CO.

BANKERS.

18 King Street East, TORONTO.

Buy and Sell

GOVERNMENT, RAILROAD and MUNICIPAL SECURITIES.

### M. BEATTY & SONS

WELLAND, ONT.

Dredges, Ditchers, Derricks and Steam Shovels

of various styles and sizes to suit any work.

Submarine Rock Drilling Machinery, Hoisting Engines, Suspension Cableways, Horse Power Hoisters, Gang Stone Saws, Centrifugal Pumps for Water, Sand and Gold Mining, and other Contractors Plant.

## "LEHIGH" PORTLAND CEMENT

Capacity, 4,000 Barrels every day in the year.

For Sidewalks and all other work requiring the highest quality Portland Cement.

Used by the U. S. Government and the largest contractors and users of Portland Cements in the United States.

Absolutely the most popular cement in Canada on account of its merits. For prices, etc., address

J. WATTERSON & CO., or  
45 Common St., Montreal, Que.

THORN CEMENT CO.,  
112-118 Church St., Buffalo, N. Y.

## The KERR ENGINE COMPANY, Limited

PUMPING MACHINERY  
HYDRANTS and VALVES  
Are our Specialty

For list of works see Catalogue and prices

WALKERVILLE, - ONTARIO

