

CANADIAN Contract Record

*A Weekly Journal of Public Works, Tenders,
Advance Information and Municipal Progress*

This Paper Reaches Every Week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and Leading Contractors in All Lines Throughout Canada

VOL. 16.

TORONTO, MONTREAL, WINNIPEG, MARCH 15, 1905

No. 5

THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY WEDNESDAY
As an Intermediate Edition of the Canadian
Architect and Builder.

THE C. H. MORTIMER PUBLISHING COMPANY
of Toronto, Limited,

Subscription Price, \$2 per annum, payable
in advance.

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone Main 2362.

Branch Offices:

38 Alliance Building, Montreal,
Telephone Main 2299.

720-721 Union Bank Building, Winnipeg.
22 Great St. Helen's, London, England.

Subscribers who may change their address
should give prompt notice of same. In doing so
give both old and new address. Notify the pub-
lishers of any irregularity in delivery of papers.

TO CONTRACTORS

Tenders will be received until TUESDAY,
THE 21ST OF MARCH, for the erection of

**Large Additions to Foundry
Building.**

Plans and specifications can be seen and all
other information obtained at the office of the
architect.

R. J. LENNOX, Architect.

Tenders Wanted

Tenders will be received by the undersigned
up to 5 o'clock p.m. on WEDNESDAY, 23RD
INST. for the Masonry, Rough Carpentry,
Steel Construction, Slate and Metal Roofing,
etc., required for the substructure of St. Pat-
rick's Church, McCaul Street, Toronto; also for
all trades except heating for a church at Uper-
grove, Ont.

The lowest or any tender not necessarily ac-
cepted.

A. W. HOLMES,
Architect,
Toronto, Ont.

TENDERS WANTED

Town of Owen Sound Debentures.

Tenders will be received by the undersigned
up to 6 o'clock p.m. on FRIDAY, 17TH MARCH,
1905, for the following debentures:

Guaranteed by the County of Grey, \$15,000 for
improvement of Gas Plant; \$20,000 for im-
provement of Electric Light Plant.

Dated 1st February 1904, payable 1st February,
1924, interest 4 per cent. per annum half yearly,
February and August.

By-laws are approved by A. Bruce, Esq.,
K.C., Hamilton.

No tender necessarily accepted.
A. J. SPENCER, Town Treasurer.
Owen Sound, 17th February, 1905.

OPENING FOR AN ARCHITECT

Advertiser desires to learn of an archi-
tect, thoroughly reliable and honorable, who
wishes to find a good location for business, in
Eastern Canada; must be energetic and well
recommended. Englishman preferred, but he
should be able to speak French also. Address
"J.D." care CONTRACT RECORD, Toronto, Ont.

TENDERS

For Supply of from

**20,000 TO 30,000 BARRELS
OF CEMENT.**

Sealed tenders addressed to the Chairman of
the Committee on Works, for the supply of from
20,000 to 30,000 barrels of cement, will be re-
ceived at the office of the undersigned up to 8.30
p.m. on TUESDAY, APRIL 4th, 1905.

Specifications and forms of tender may be ob-
tained upon application at the office of Col.
H. N. Ruttan, City Engineer, Winnipeg.

Each tender must be accompanied by an ac-
cepted cheque, draft or cash deposit for the sum
called for in the form of tender supplied, which
will be subject to forfeiture in case of failure on
the part of the contractor to enter into a writ-
ten contract if called upon to do so.

The city reserves the right to reject any or all
tenders, or to accept any bid which appears a
vantageous to the city of Winnipeg.

C. J. BROWN, City Clerk.

City Clerk's Office,
Winnipeg, March 3, 1905.

TOWN OF PORTAGE LA PRAIRIE PROVINCE OF MANITOBA

WATERWORKS AND SEWERAGE WORKS

Sealed tenders will be received by the Secre-
tary-Treasurer until 8 p.m. on

WEDNESDAY, APRIL 12th, 1905,

for the following sub-divisions of the proposed
works:

Contract "A"—Pipelining on Water Works
and Sewerage Works.

Contract "B"—Power House.

Contract "C"—Water Tower.

Contract "G"—Pumping Machinery.

Contract "H"—Boilers.

Plans and specifications, &c., may be seen at
the office of the Secretary-Treasurer, Portage la
Prairie, or at the office of the Chief Engineer,
103 Bay Street, Toronto, after March 6th, 1905.

F. A. WHITAKER, Esq.,

EDWARD BROWN, Esq., Sec.-Treas.

Mayor.

WILLIS CHIPMAN, C.E., Chief Engineer,
Toronto, Ontario.

THE BITULITHIC PAVEMENT

We are prepared to furnish Municipal Cor-
porations and Responsible Contractors with the
necessary plant, bitumen for the three courses,
expert advice and laboratory testing on a roy-
alty basis under our patent for laying the Bit-
ulithic Pavement. We are also prepared to in-
stall Municipal Paving Plants.

WARREN BROTHERS COMPANY,
93 Federal St., Boston.

TENDERS FOR BUILDINGS

Sealed proposals will be received at the Di-
vision Engineer's Office Winnipeg, until eighteen
(18.00) o'clock, SATURDAY, MARCH TWEN-
TY-FIFTH (25th), 1905, by the Canadian
Pacific Railway Company, for the construction
of any or all of the following buildings:

No. 2 Section Houses, on Stone Foundations

PORT WILLIAM SECTION.
Sunshine. Poland. Biota.
IGNACK SECTION.
Minitaki. Barclay.
NAPINKA SECTION.
Mather.
ARCOLA SECTION.
Pipestone. Reston. Antler. Redvers.
Manor.

ESTEVAN SECTION.

Beresford.

No. 2 Section Houses, on Posts and Sills

SWIFT CURRENT SECTION.
Boharm. Mortlach. Secretan. Ernfold.
Herbert. Waldeck. Aikins.

PORTAL SECTION.

Midale. Ralph. McTaggart. Wilcox. Lang.
Hitchcock.

Freight Sheds

Crystal City, 40 feet x 26 feet, Killarney, 30
feet x 60 feet.

No. 2 Portable Station, F. O. B. Nearest Shipping Point

Parry. Netley. Grand Pointe. Headingly.
Deleau. Harding. Pendennis. Bradwardine.
Carnegie. Hazelcliffe. Manson. Stockholm.
Grayson. Killalee. Patrick. Girvin.

Pump Houses

Tantallon. Neudorf. Parkbg.
Combined Station at Balmoral.
Combination Oil and Storehouse at Regina.
Station at Crystal City. Chaplain. McLean.
Boiler House at Rat Portage.
14 Tool Houses, f. o. b. cars at the nearest
shipping point.

The right is reserved to reject any or all pro-
posals, to award the contract to other than the
lowest bidder, or to readvertise for proposals
should the Company deem such a course advan-
tageous to its interests.

Plans, specifications, form of proposal can be
seen at the
Division Engineer's Office, Winnipeg.
Superintendent's Office, Port William.
Superintendent's Office, Brandon.
Superintendent's Office, Moose Jaw.
Envelopes containing proposals should be
marked, "Proposals for Buildings."

J. E. SCHWITZER,

Division Engineer,
Winnipeg, March 4, 1905.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE.]

TENDERS WANTED

Tenders are invited by the undersigned until MARCH 28TH, 1905, for the construction of a bridge over the Welland River known as Robins Bridge, about 2 miles from Perry Station. The superstructure to be of concrete, built on oak piling 12 ft. 3 in. in height above low water mark. The superstructure is to be of steel 100 ft. in length with a clear roadway of 16 ft. width. Tenders will be received for substructure or superstructure separately if so desired. Plans and specifications may be seen at the Clerk's office, Welland. The lowest or any tender not necessarily accepted.

ROBERT COOPER, County Clerk.
Clerk's Office, Welland, February 27th, 1905.

**TENDERS FOR
Six Street Sprinklers**

Sealed tenders for the construction and delivery of six Sprinkling Wagons, addressed to the Chairman of the Committee on Works, will be received at the office of the undersigned up to 8.30 p. m. on TUESDAY, MARCH 28, 1905. Specifications and forms of tender may be obtained at the office of Col. H. N. Rutan, City Engineer, Winnipeg, Canada.

Each tender must be accompanied by an accepted cheque, draft or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the successful tenderer to enter into a written contract if called upon to do so. The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN, City Clerk.
City Clerk's Office,
Winnipeg, March 10, 1905.

**Tenders for
Arches and Culverts**

Sealed proposals will be received at the Division Engineer's Office, Winnipeg, until eighteen (18.00) o'clock SATURDAY, MARCH 25TH, 1905, by the Canadian Pacific Railway Company, for the construction of any of the following arches and culverts:

PORT WILLIAM SECTION.

Bridge 332—Mileage, 108.3; 7 ft. concrete arch; approximate length, 25 ft.

Bridge 333—Mileage, 107.1; 10 ft. rail top culvert.

Bridge 376—Mileage, 79.9; 10 ft. rail top culvert.

Bridge 380—Mileage, 75.6; 10 ft. concrete arch; approximate length, 37 ft.

Bridge 384—Mileage, 77.2; 8 ft. rail top culvert.

IGNACE SECTION.

Bridge 176—Mileage, 95.7; 7 ft. concrete arch; approximate length, 47 ft.

Bridge 215—Mileage, 68.4; 10 ft. rail top culvert.

Bridge 254—Mileage, 29.6; 10 ft. rail top culvert.

KAT PORTAGE SECTION.

Bridge 30—Mileage, 91.7; 10 ft. rail top culvert.

Bridge 39—Mileage, 72.4; 10 ft. concrete arch; approximate length, 53 ft.

Bridge 50—Mileage, 57.1; 10 ft. rail top culvert.

PORTAL SECTION.

Bridge 30—Mileage, 150.2; 12 ft. concrete arch; approximate length, 200 ft.

LARIVIERE SECTION.

Bridge.	Mileage.	Con. Arch.	Ap. Len.
112	88.2	8 ft.	30 ft.
	38.1	5 ft.	20 ft.
140	105.2	10 ft.	40 ft.
141	105.6	10 ft.	43 ft.
142	105.7	10 ft.	44 ft.
143	106.0	10 ft.	38 ft.
144	106.2	10 ft.	35 ft.
145	106.4	10 ft.	43 ft.

The company shall furnish rails cut to correct lengths, f.o.b. at the work.

The right is reserved to reject any or all proposals, to award the contract to other than the lowest bidder, or to re-advertise for proposals should the company deem such a course advantageous to its interests.

Plans, specifications and form of proposal can be seen at the

Division Engineer's Office, Winnipeg.
Superintendent's Office, Port William.
Superintendent's Office, Brandon.
Superintendent's Office, Moose Jaw.

Envelopes containing proposals should be marked "Proposals for Arches and Culverts."

J. E. SCHWITZER,
Division Engineer, Winnipeg, Man.
Winnipeg, March 4, 1905.

OLD DOORS WANTED

I am open to buy a few walnut doors from old buildings being torn down. Please state sizes, prices, or telephone M. 2701. JAS. ROBERTSON, 10 Front St. E., Toronto.

BUILDING SUPERINTENDENT

Wanted, a first-class Superintendent to oversee the construction of a \$40,000.00 Public Building. Must be well qualified and thoroughly posted in all branches. Complete plans and specifications will be furnished. Applications will be received until 12 o'clock noon, THURSDAY, MARCH 23. Apply Box 72, CONTRACT RECORD, Toronto, Ont.

CONCRETE SIDEWALKS

Sealed tenders addressed to John Morrison, City Clerk, will be received up to 4 p. m. of FRIDAY, THE 24TH MARCH, for the construction of

CEMENT CONCRETE WALKS

in the city of Woodstock during the season of 1905. Specifications may be seen and form of tender obtained at the office of the undersigned.

The lowest or any tender not necessarily accepted.

F. J. URE,
City Engineer.

CONTRACTS OPEN.

FERGUS, ONT.—George Beatty is taking tenders up to 18th inst. for erection of addition to residence.

ACTON, ONT.—T. S. Moore, Village Clerk, wants tenders by April 1st for construction of macadam streets.

CALGARY, N.W.T.—The McPherson Fruit Co. will build a warehouse here this spring, to cost about \$12,000.

MASSEY, ONT.—Sims Bros. may install an electric light plant to light the saw mill and the village streets.

COWICHAN, B.C.—The Cowichan Waterworks Co. has been organized to construct a waterworks system here.

SYDNEY, N.S.—The A. C. Thompson Co. are this week taking tenders on erection of building for wire and nail works.

PARRY HARBOR, ONT.—Father Artus, Parish Priest, wants tenders for repairs and additions to St. Peter's church.

COLLINGWOOD, ONT.—The Electric Light Committee are considering plans for remodelling and extending the electric light plant.

PORTAGE LA PRAIRIE, MAN.—The Council have passed a bylaw to raise \$10,000 by debentures for the improvement of Crescent Lake.

NEWCASTLE, N. B.—The Town Council will seek authority to re-issue its unsold waterworks, sewerage and electric light debentures.

WOODSTOCK, ONT.—John Morrison, City Clerk, wants bids by 21st inst. for purchase of \$25,751.71 20-year 4½ per cent. debentures.

CARP, ONT.—J. P. McLaren, architect, of Ottawa, has prepared plans for a four-roomed school building to be built in S. S. No. 3, Huntley.

OLDS, N.W.T.—The Olds Milling & Elevator Co. has been formed here for the purpose of erecting a flour mill, elevator and electric light plant, to cost \$15,000.

HALIFAX, N.S.—The City Council propose to borrow \$30,000 for fire improvements, including a new steam fire engine and the erection of two brick stations.

NINGA, MAN.—The Ninga Milling

Co. has been organized here to build a flour mill and elevator. Promoters, Thomas Hill, J. G. Washington and others.

BOWMANVILLE, ONT.—A by-law was carried here last week to grant a loan of \$15,000 to the Durham Rubber Co., who purpose erecting a new brick building.

EDMONTON, N.W.T.—R. B. Ingalls, of Montreal, who holds the franchise for a street railway here, states that work will be begun immediately on the power house.

SWAN RIVER, MAN.—The Bank of Commerce are preparing to erect a stone and brick building.—Mr. Martin will build a new hotel to replace the Commercial.

WESTMOUNT, QUE.—A special committee has recommended to the Town Council the installation of an extensive waterworks system, at an estimated cost of \$700,000.

GUELPH, ONT.—L. C. Wideman, architect, is preparing plans for private residences for George Bolton, jr., and Mr. Harris, both at Rockwood, about seven miles from this city.

THREE RIVERS, QUE.—Tenders for construction of a drill hall here will be received by the Department of Public Works, Ottawa, up to Friday, 24th inst. Plans at office of A. R. Shehyn, this place.

MEAFORD, ONT.—The Baptist church congregation have appointed a committee to obtain estimates of the cost of a new brick church.—The question of enlarging the present town hall or building a new one is being considered.

BRUCE MINES, ONT.—The Bruce Mines and Algoma Railway Co. have applied for power to construct a railway from a point on the C.P.R. between Chapeau and Biscotasing north to Hanna Bay.

CHARLOTTETOWN, P.E.I.—At a public meeting held here recently, resolutions were adopted for the immediate construction of a railway tunnel to connect the island with the mainland at Cape Tormentine.

LEAMINGTON, ONT.—Plans by J. L. Wilson & Son, architects, of Chatham, have been accepted for erection of new Methodist church; pressed brick, cut stone trimmings, metallic ceilings, auditorium finished in oak, hot water heating, cost about \$25,000.

STURGEON POINT, ONT.—The Sturgeon Point Improvement Co. have elected directors. Colonel Dr. Ryerson, of Toronto, is president. A canvass will be made to secure the balance of the stock necessary to proceed with the erection of the proposed hotel.

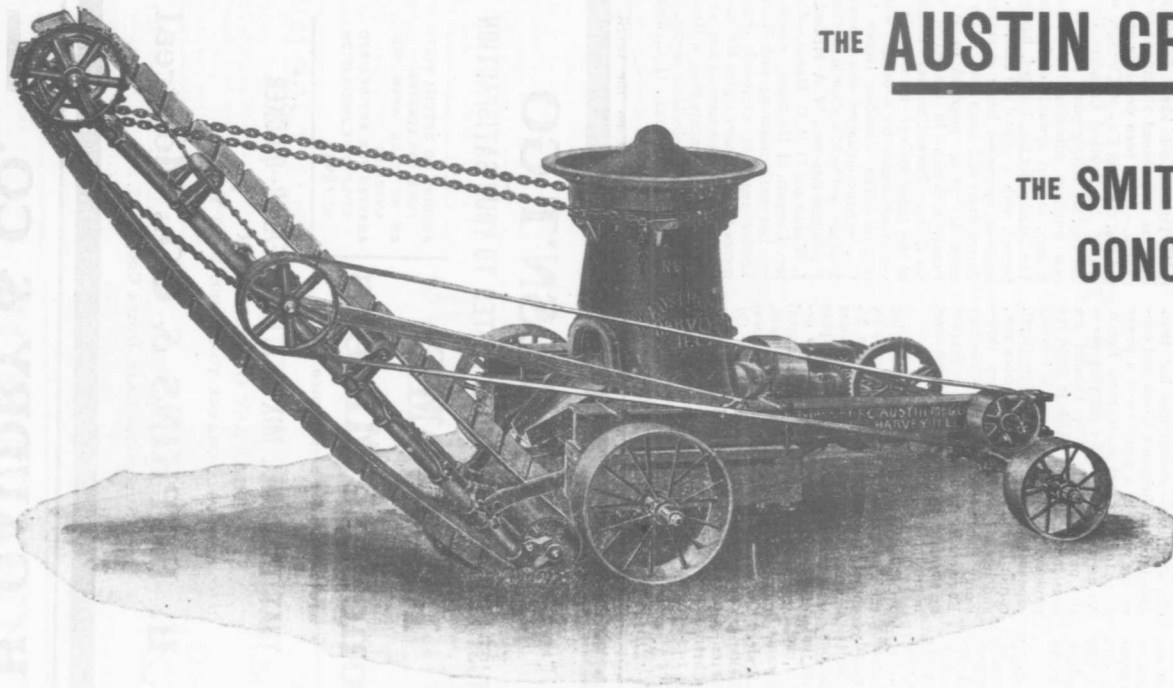
KINCARDINE, ONT.—J. McCrimmon, Chairman High School Committee, will receive tenders up to Friday, 24th inst., for alterations, additions and improvements to the high school. Plans at offices of Stewart & Witton, architects, Hamilton, and W. E. Binning, architect, Listowel.

RICHIBUCTO, N.B.—Tenders are invited by the Department of Public Works, Ottawa, up to Monday, April 3rd, for construction of extension to break-water here. Plans at offices of Geoffrey Stead, Chatham, N.B.; C. E. W. Dodwell, Halifax, N.S.; E. T. P. Shewan, St. John, N.B.; and on application to the Postmaster here.

PLEASANT BAY, N.S.—The Department of Public Works, Ottawa, desire tenders by Wednesday, 22nd inst., for construction of wharf here. Plans at offices of C. E. W. Dodwell, resident engineer, Halifax, E. G. Millidge, resident engineer, Antigonish, and at the Department, Ottawa.

“Cyclopean”
Concrete
Buckets
Dump Cars
of all kinds
Cableways
and Conveyors
Hoisting Engines
and Derricks

—◆—
Catalogues covering these
and other lines mailed
on request. If inter-
ested write us.



AUSTIN PORTABLE GYRATORY CRUSHER WITH ELEVATOR

Complete Rock Crushing and Concrete Mixing Plants Designed and Erected

W. H. C. MUSSEN & CO., MONTREAL

RAILWAY, MINING AND CONTRACTORS' SUPPLIES

THE **AUSTIN CRUSHER**

THE **SMITH
CONCRETE
MIXER**

Has Earned the
Guarantee of
Public Approval
and Confidence.
It Stands with-
out a Peer in the
Realm of Con-
crete Mixers.

March 15, 1905

CANADIAN CONTRACT RECORD

3

PETERBORO, ONT.—J. W. Fuller, engineer of the Dominion Public Works Department, is making surveys preparatory to the construction of a wharf at end of Lock street, to cost about \$9,000.—The proposal to build a new fire hall is being considered by the City Council.—Some alterations have been made in the plans for new Collegiate Institute building and new tenders are invited up to 31st inst.

FORT FRANCES, ONT. — J. J. Stone, of Koochiching, has purchased three lots on corner of Portage ave. and Scott streets and will, according to report, build a \$25,000 hotel thereon.—The by-law to raise \$20,000 for fire apparatus and municipal buildings was carried by the ratepayers last week. The sum of \$9,000 will be used for purchase of steam fire engine, hook and ladder truck, hose reel and hose.

ST. JOHN, N.B.—The Intercolonial Railway management have under consideration a number of extensive improvements to the railway station and approaches in this city. The Wall street and Stanley street iron bridges over the train yard will be replaced by more modern structures, the train shed and baggage room will be enlarged, and a new lighting plant installed in the roundhouse.—The City Council have under consideration a bill authorizing the construction of a lake or reservoir on the Mispec river and the taking of 7,750,000 gallons of water a day from the stream.

LONDON, ONT.—H. C. McBride, architect, has just taken tenders on alterations and additions to store of Scandrett Bros.—Building permits have been granted as follows: R. A. Jones, two-storey brick veneer double dwelling on Kensington street, West London; J. W.

Older, 1½ storey brick veneer residence on Dreney ave.—Plans are now being prepared for the new Sunday school building for St. Andrews Presbyterian church, towards which \$15,000 has been subscribed.—City Engineer Graydon will recommend that the Council grant \$3,000 for repairing the stone walks on Richmond and Dundas streets.

VANCOUVER, B.C.—C. W. Murray, Secretary School Board, is asking for competitive plans up to 17th inst. for two school buildings.—The Britannia Power Co., which was incorporated last year, intend to dam Britannia Creek and convey the water by a pipe line to a power house to be located at Britannia Beach. An aerial tram line for carrying ore is also proposed.—The City Council are considering sites on which to build the proposed Old Men's Home.—A Victoria capitalist has purchased the City Hotel, corner Powell street and Columbia ave., and intends erecting a modern three-storey structure on the site.—The City Engineer has been instructed to prepare an estimate of the cost of required street improvements.

OTTAWA, ONT.—It is stated that the Dominion Government are securing options on property lying between St. Patrick and Rideau streets on Sussex street and Mackenzie ave. for the purpose of providing a site for a large new departmental building.—At the annual meeting of St. Andrews church last week, the question of enlarging the edifice was considered.—The Hemina Mining Co. have applied to Parliament for power to build a railway from Lake Huron through Victoria, Salter and Tennyson Townships.—The erection of two new fire stations was considered at the Council

meeting last week. The Council will issue \$38,000 of debentures for the building of new schools.—L. K. Jones, Secretary Department Railways and Canals, invites tenders up to 4 p. m. to-day (Wednesday) for supply of Portland cement for the Lachine, Grenville and Beauharnois canals.

HAMILTON, ONT.—The Otis-Fensom Elevator Co. will enlarge their present buildings in this city and in addition will erect a new foundry building and a new fireproof pattern vault.—Zion Tabernacle Trustees will likely decide this week as to proposed alterations to the church.—It has been definitely announced that the Swift Co., of Chicago, who control the Fowlers' Canadian Co. in this city, are having plans prepared for new buildings adjoining their present factory, to cost upwards of \$50,000.—The Strathpeffer Co., Limited, has been formed, with a capital of \$200,000, to build an apartment house at corner of Barton street and Birch ave. Plans for same are being prepared by A. W. Peene, architect.—In connection with the Cataract Power Company's extension of the radial railway to Oakville this year, nine double track bridges will be required.—The Canadian Drawn Steel Co., recently organized with a capital of \$100,000, will build a plant in the Annex. Provisional directors, W. A. McCool, H. J. Waddie and D. R. C. Martin.—Architect Lampert, of Rochester, was in the city last week consulting with Manager Loudon regarding proposed improvements to the Grand Opera House.—At the County Council meeting last week a motion that the county build a House of Refuge was lost.—Building permits have been granted as follows: H. C. Beckett,



TALK DOESN'T GO
 IT MUST BE DEMONSTRATED & TESTED TO YOUR SATISFACTION
RANSOME
Concrete Mixers

REQUIRE NO SPECIAL PLAT-
 FORM FOR LOADING
 DO NOT CLOG WHEN DIS-
 CHARGING
 ADAPTED FOR ANY DESIRED
 STYLE OR COMBINATION
 OF POWER

are sold under a guarantee

THAT THEY WILL MIX BETTER--CHEAPER--QUICKER
 THAN ANY OTHER MIXER
 GIVE US A CHANCE TO FIGURE WITH YOU

F. H. HOPKINS & CO., Montreal
 Successors Late James Cooper

L. H. GAUDRY & CO.

DIRECT IMPORTERS AND AGENTS



Superior Quality
 OFFICES: HOHELAGA BANK BUILDINGS



ALL WEIGHTS AND TESTS TO SUIT REQUIREMENTS.

Large Stock
 Prompt Shipments
 QUEBEC, CANADA

DERRICKS

We manufacture every class of Hoisting Derricks both for Hand or Power. Write for our price list of Standard Builders' and Contractors' Derricks, 1500 pounds to 7 tons capacity.

MILLER BROS. & TOMS MONTREAL

residence on Hannah street, between Bay and Caroline street; Mrs. Mills, residence on Robinson street, between Macnab and Park streets; M. Kouber, residence, corner George and Locke streets; F. J. Lyne, brick residence on Wentworth street, between Barton and Cannon streets, cost \$2,000; W. A. Noble & Co., two residences, Hess street, cost \$3,200; David Brown, two residences, corner Homewood avenue and Queen street, cost \$3,600.

MONTREAL, QUE.—W. A. Price, architect, is preparing plans for an apartment house to be built by the Dorchester Apartment House Company on Dorchester street, opposite St. Matthews. Building will be 125 x 78 feet, brick, stone and steel, 8 stories and basement, with elevators, electric light, steam heating, mail chutes, fire apparatus, etc.; estimated cost, \$200,000. John A. Jacobs is the promoter.—L. O. David, City Clerk, is this week taking tenders on erection of two private lodgings in Bonsecours market.—The parks and ferries committee have appointed a committee to interview the harbor commissioners in regard to the building of an overhead bridge to reach St. Hel'n's Island ferry boats.—McKim, Mead & White, of New York, and Hutchinson & Wood, of this city, are joint architects of new building to be built by the Mount Royal Club at corner of Sherbrooke and Stanley streets; 110 x 114 feet, two stories and basement, cost \$120,000.—The Protestant Board of School Commissioners have not yet decided upon

a site for the new Senior school.—The following building permits have been granted: D. Champagne, St. Hubert street, three-storey wood and brick dwelling, cost \$2,500; Mount Royal Club, Sherbrooke & Stanley streets, two-storey stone club house, cost \$120,000; Martin Eagan, Cadieux street, three two-storey brick and stone dwellings, cost \$13,000; W. A. Handfield, St. James street, three-storey wood and brick dwelling, cost \$3,000; Emery Chaumont, Dorion street, pair three-storey wood and brick dwellings, cost \$6,000; Nap. Boyer, Hubert street, two-storey wood and brick dwelling, cost \$2,000; Darling Estate, Drummond street, two-storey wood and brick dwelling and factory, cost \$1,000; Emery

Choquette, Hotel de Ville, pair two-storey wood and brick dwellings, cost \$10,000; Felix Dansereau, Ontario street, pair three-storey wood and brick dwellings, cost \$4,000; P. Germain, St. Catherine street, two-storey wood and brick dwelling, cost \$1,000; Euclide Gauthier, Dominique street, four-storey brick and stone dwelling, cost \$3,000; John Barry,

DREDGING

Filling water lots a specialty.
Submarine work and wrecking.
SAND & DREDGING LIMITED,
Tel. M. 4507. John St. Dock, Toronto.

NOW IS THE TIME

To commence if you anticipate paving your streets this summer. TRY BITULITHIC
The Warren Bituminous Paving Co., Limited
164 Bay Street, TORONTO.

JOSSON CEMENT .. Manufactured at NIEL ON RUPELL

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works.
TO BE HAD FROM ALL CANADIAN DEALERS
C. I. de Sola, Manager in Canada :: 180 St. James Street, MONTREAL

JOHN GALT, C.E. & M.E.

MEM. CAN. SOC. C.E. AND C.E.A., ETC.
CONSULTING ENGINEER and EXPERT
National Trust Building Toronto
20 King Street East
Specialties—Water Supply and Sewerage.

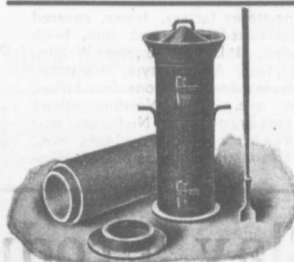
JOHN S. FIELDING

Mem. Soc. C. E. R. Penn. '87.
CONSULTING ENGINEER
Dams, Mills, Bridges, Machinery
Room 2, 15 Toronto Street, TORONTO, ONT

J. A. L. WADDELL, Mem. Can. Soc. C. E. R. Mem. Inst. C. E. Mem. Am. Soc. C. E.
IRA G. HEDRICK, Mem. Can. Soc. C. E. R. Mem. Inst. C. E. Mem. Am. Soc. E. C.

Waddell & Hedrick Consulting Bridge Engineers

KANSAS CITY, MO.
Canadian Head Office:
Manning Chambers, TORONTO, ONT.
Montreal Office: 185 St. James Street.



GET THE BEST
Combination Moulds
FOR MAKING

Concrete Tile
with plain or Telescopic joints
Prices and Sizes on Application

Sawyer & Massey Co.
Road Machine Dept.
HAMILTON CANADA

PORTLAND CEMENT

CANADIAN AND AMERICAN

When in the market for Portland Cement write for our prices. Every barrel of our cement guaranteed to meet the specifications under which it is furnished. We deliver anywhere in Canada and in any quantity.

Our latest pamphlet "THE TEST OF TIME" mailed on application.

KENNEDY STINSON & COMPANY

Temple Building, Montreal, Que.

Coleraine street, two-storey wood and brick dwelling, cost \$1,600.; Geo. Bellrose, Aylwin street, improvements to house, cost \$1,000.; A. Paquette, St. Andre street, improvements to house and store, cost \$2,000.; Catholic Sailors Club, Common street, improvements to house, cost \$4,000.; Hogan Estate, St. Lawrence Hall, St. James street, improvements to hotel, cost \$19,000.; John Watson & Son, Dalhousie street, improvements to house and factory, cost \$4,300.; Mrs. Wid. F. X. Dupuy, St. Andre street, improvements to house, cost \$2,800.

WINNIPEG, MAN. — Charles S. Bridgeman, architect, has just taken tenders on a red brick residence at Armstrong's Point for Dr. S. C. Corbett.—George Browne, architect, is this week taking tenders on a frame residence for Prof. F. Allen.—It is understood that the Winnipeg Citizens' Realty Co. will build a block on Portage ave., adjoining the Manitoba Hall.—Mr. Grundy, of the firm of Campbell, Pitblado, Grundy & Hoskin, has purchased fifty feet of land on River ave. west, near Norquay street, and will build a brick residence this spring.—The Council are considering a proposal to add another storey to the market building.—J. E. Schwitzer, Division Engineer for the C. P. R., is asking for tenders for the construction of five bridges on the Fort William section of the road, three bridges on St. Ignace section, three bridges on the Rat Portage section, one bridge on the Portage section, and eight bridges on the Lariviere section, also for the construction of new stations at Chaplain, Crystal City, McLean, Balmoral, Headingly and several other points, as well as for the construction of a number of freight sheds, pump houses and tool houses. Plans of bridges and buildings may be seen at the Division Engineer's office in this city and at the Superintendent's offices at Fort William, Brandon and Moose Jaw.—John McDonald has decided to build a four-storey hotel on Notre Dame ave., near Portage ave.—Herbert B. Rugh, architect, 927 Union Bank Building, has taken tenders on a veneer brick and rough-cast plaster residence to be built by C. D. Shepard in Crescentwood. Same architect is preparing plans for a brick and stone warehouse and office building for Tees & Perse, Ltd., Calgary, Alberta, cost \$18,000.; and for a brick residence for W. Carswell, Smith street, this city.—Tenders are about to be invited for the church of the Sacred Heart which the French Catholics are to erect at corner of Lydia and Bannatyne streets.—The announcement has been made that the Canadian Northern Railway contemplate building a hotel in connection with station to be begun this year.—The specifications for the supply of cement for the city have been changed so as to call for the delivery by May 10th of only two thousand to three thousand barrels.—The

following works are about to be undertaken:—Asphalt pavement on Burrows ave., from Main to Salter streets, cost \$26,000, and on Maryland street, from Portage to Preston avenues, cost \$11,440; sewer on Kingsway place, from Wellington crescent to Harrow street, cost \$3,580, and on McFarlane street, cost \$2,034.—C. J. Brown, City Clerk, desires tenders by Tuesday, March 28th, for supply of six street sprinklers.—The Dominion Government are asking for tenders up to Saturday, April 1st, for erection of a military store building in this city.

TORONTO, ONT. — E. J. Lennox, architect, is asking for tenders up to 21st inst. for erection of large additions to foundry building.—J. F. Brown, architect, is taking tenders on a residence on Huntley street.—Plans of macadam roadways to be constructed at Acton, Ont., may be seen at the office of A. W. Campbell, Ontario Road Commissioner, this city. Tenders close April 1st.—The Board of Control desire tenders by Tuesday, March 21st, for dredging slips.—C. H. Bishop, Superintendent of School Buildings, has recommended that a new 18-room school costing \$150,000 be erected to take the place of the present Louisa, Victoria and York street schools; a 32-room school costing \$150,000 for Brant, John and Phoebe street schools, and a 20-room building costing \$80,000 to replace Manning ave. and Niagara street schools, also that Sackville street school be enlarged by the addition of another storey costing \$15,000.—Tenders close to-day, at the office of G. M. Miller & Co., architects, 59 Yonge street, for erection of Methodist church, corner Dufferin and Dundas street.—Tenders are wanted at 198 Duchess street for house on First ave.—F. H. Herbert, architect, will receive tenders up to 5 p.m. Friday, 17th inst., for all trades except plumbing for erection of residence on Maple ave., Rosedale.—The City Engineer has submitted an estimate of \$68,000 as the cost of installing an electric plant for street lighting.—Building permits have been granted as follows: Fred J. Goodman, four two-storey roughcast dwellings, brick foundations, Salem ave., near Shanley street, cost \$3,200; Joseph Simpson & Son, one-storey brick and concrete power house and reservoir, Esplanade street, near Berkeley, cost \$7,500; Dominion Banking Co., alterations to building for banking purposes, southeast corner Bloor street and Dovercourt road, cost \$2,000; Monteith, Nixon & Co., one-storey factory, frame, covered with galvanized corrugated iron, brick foundation, McDonnell ave., near Wright, cost \$1,500; A. McIntyre, one-storey brick veneer dwelling, stone foundation, Preston ave., near Northumberland street, cost \$1,000; Geo. Nicholson, pair two-storey brick dwellings, Jones ave., near Gerrard street, cost \$4,000; J. Win-

ters, two-storey brick and roughcast dwelling, Brooklyn ave., near King street, cost \$2,000; John Kilgour, pair two-storey roughcast dwellings, brick fronts, north side Hallam street, near Salem, cost \$2,500; C. Cathcart, pair two-storey brick cased dwellings, stone foundations, west side Delaware ave., near Shanley street, cost \$3,000; I. D. Bradshaw & Co., two-storey brick factory, south-east corner Atlantic and Pacific avenues, cost \$10,000; John Waghorne, pair two-storey and attic brick and stone dwellings, Dundas street, near High Park ave., cost \$4,000; Walter Armour, seven two-storey and attic dwellings, frame, covered with cement plaster, west side St. Clarens ave., near Bloor street, cost \$11,000; Hutchins & Burns, three two-storey and attic brick and stone dwellings, east side Close ave., near King street, cost \$8,000.

CONTRACTS AWARDED.

BERLIN, ONT.—\$89,000 town debentures: Canadian Securities, Limited, Toronto, purchasers.

SEAFORTH, ONT.—\$2,400 15-year 4½ per cent debentures: Wood & Grundy, Toronto, successful tenderers, \$2,426.

COLLINGWOOD, ONT.—Wilson Bros. have secured contracts for residences for Miss Connell, Percy Robinson, and William Galbraith.

MONTREAL, QUE.—Six tenement houses on City Hall ave., near Prince Arthur street, for Martin Egan: Joseph Jacob, contractor.

TUCKERSMITH, ONT. — Two-roomed brick school: Cement and brick work, G. T. McKay and R. Cudmore; carpentry, Reynolds & Ingram.

BELLEVILLE, ONT. — Rebuilding of St. Michael's church: Architect, H. P. Smith, Kingston; contractors, Quinlan & Robertson, this city, \$29,742.

WINNIPEG, MAN.—Supply of 1,500 tons of asphalt: S. B. Ritchie, representing the United States and Venezuela Paving Co., successful tenderer, \$26.15 per ton.

SARNIA, ONT.—Pavilion at Lake Huron Park for Sarnia Street Railway

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.

Fire Clay Products

THE GLENYARDS FIRE CLAY CO.

BONNYBRIDGE, SCOTLAND.

Cablegrams: Glenyards, Bonnybridge.

Codes used, A.B.C. and Glenyards.

Manufacturers of all kinds of Fire Clay Goods, Ganister and Silica Goods, for Iron and Steel Works and Gas Works, including Boiler Seating Blocks and Covers of all sizes. Ground Fire Clay, Ganister and Silica. in all kinds of Packages

CONSULTING ENGINEERS The Canadian Casualty and Boiler Insurance Co.

22-24 Adelaide St. E. TORONTO
Phone M. 4091
A. M. WICKENS Chief Engineer. A. G. C. DINNICK, Managing Director.

Paving Granite

Granite Sets for Street Paving — CURBING cut to any shape ordered. — Fine Rich Colors for Building and Monumental Purposes. Quarries, St. Philippe d'Argenteuil, P.Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

RAILS For Contractors, Switches, Gir- ders, &c. LOCOMOTIVES AND CARS New and Second Hand.

John J. Gartshore

83 Front St. West,

Opposite Queen's Hotel.) TORONTO

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

WILL DO WELL TO CONSIDER OUR WORK AND PRICES BEFORE LETTING CONTRACTS
The Silica Barutic Stone Company of Ontario, Limited.

WALTER MILLS Head Office: Ingersoll, Ont.
General Manager.

T. A. Moppison & Co.

PURVEYORS TO

Municipal Corporations
Architects
Engineers
Mines
Railway and Building

ROAD MACHINERY
STONE CRUSHERS
STEAM ROAD ROLLERS
STEAM AND GASOLINE
FIRE ENGINES
BRICK AND STONE
CONCRETE STONE
ROOFING GRAVEL
ROCK DRILLS
BOILERS AND ENGINES
CONTRACTOR'S PLANT

204 St. James Street
MONTREAL

Giant Brand Portland Cement

MADE BY

THE ONTARIO PORTLAND CEMENT Co. LIMITED.
HEAD OFFICE: BRANTFORD, ONT. LONG DISTANCE PHONE 194

THE CANADIAN PORTLAND CEMENT COMPANY, LIMITED

Manufacture "RATHBUN'S STAR" Brand

The Leading Canadian Portland Cement.

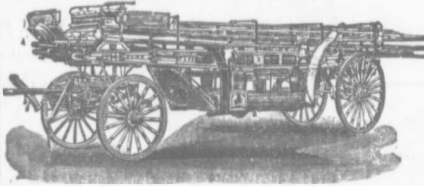
SALES OFFICES:

310-312 Front Street, West,
Toronto.

202-203 Board Trade Building,
Montreal.

LIGHTNESS, STRENGTH AND ECONOMY

Seagrave Patent Trussed Ladders, Trussed Aerial, City Service and Village Hook and Ladder Trucks, Combination Hook and Ladder Trucks and Chemical Engines, Trussed Trucks and Hand Pumps, Combination Hose Wagons, Hose Wagons, Combination Hook and Ladder Trucks and Hose Wagons, Chemical Engines, Fire Extinguishers, Hose Reels, Patrol Wagons, Ambulances, Specialty Wagons, Patent Sleigh Runners, and other Modern Fire Fighting Tools.

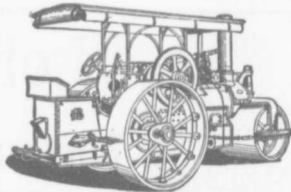


Prompt attention given all inquiries. All goods built to order.

Long Distance Phone 686 and 684 W. E. SEAGRAVE, WALKERVILLE ONT.

"WATEROUS"

ROAD MACHINERY AND FIRE APPARATUS



FIRE ENGINES in five sizes, with a full line of fire-fighting goods

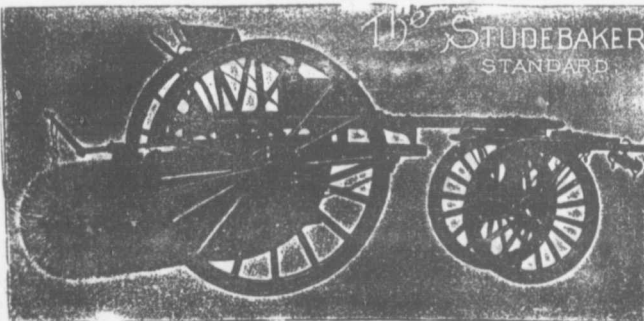
We Rebuild other makes of Fire Engines with our patent Boiler.

BRANTFORD PITTS DOUBLE ENGINE STEAM ROAD ROLLER

IN THREE SIZES—10, 12 and 16 ton.

CORRESPONDENCE SOLICITED.

HUGH CAMERON & CO., Selling Agents, 72 Queen St. West, Manning Chambers, TORONTO



Studebaker Sprinkler (PATENT IMPROVED.)

Does not clog or get out of order. Greatest width of spray can be graded from driver's seat to any volume. We also make an . . .

IMPROVED VERTICAL SPRAY

for Pavements.

Geo. Heaman, Mnfr., London, Ont.

Stackpole Patent Improved Street Sweeping Machine

Is the Standard of Perfection

Because no sweeper so effectually does the work for which it is designed as "The Studebaker." It Sweeps Clean. No sweeper is constructed with the same degree of care and mechanical precision. It Wears Well. "The Studebaker" has the smallest number of working parts, and has less gearing than any other sweeper made. It is free from all unnecessary complications. With reasonable care it does not get out of order. Send for complete descriptive catalogue.

DEBENTURES

Municipalities contemplating the issue of Debentures will find it to their advantage to communicate with

G. A. STIMSON & CO.

Investment Dealers
24 and 26 King St. W. TORONTO

THE GREY AND BRUCE PORTLAND CEMENT COMPANY
of Shallow Lake, Limited.

Manufacturers of

"HERCULES" BRAND OF PORTLAND CEMENT

Very finely ground Unsurpassed for Sidewalks, Floors and all work requiring the Highest Grade of Portland Cement. For prices address,

A. D. CREASOR, Sec'y-Treas.
Head Office, Owen Sound, Ont.

Please mention this paper when corresponding with advertisers.

Notice to Contractors.

The Niagara Falls Machine & Foundry Co., Limited,
Niagara Falls, Ont.,

are making a specialty of improved

HOISTING AND BUILDING ENGINES.
Write for Prices.

THE CANADIAN INSPECTION COMPANY, LIMITED

Main Office and Laboratories:

146 St. James Street, MONTREAL

SPECIALTIES: Inspection of RAILS and all material for BRIDGES, BUILDINGS, and other structures, cast iron pipe, wood and steel railroad cars.

MANUFACTURE AND DIRECTION.

Expert examination and reports, chemical analyses and physical tests of all kinds. Cement Testing.

**FIREMEN'S LADDERS
—AND—
LADDER TRUCKS**

We make the lightest, quickest, strongest and cheapest. Every Town and Village needs them and can afford them. They will save 50 times their price in insurance premiums. Write for circulars and quotations.

THE WAGGONER LADDER CO., Limited
LONDON - - - ONT

**THE PHOENIX BRIDGE & IRON WORKS, LIMITED
—MONTREAL
GENERAL STEEL CONTRACTORS**

Large Stock I BEAMS, CHANNELS, ANGLES, TEES, ZEES and PLATES always on hand.

**Dominion
Bridge
Co., Ltd.**

P. O. Address, MONTREAL, P.Q.
Works at LACHINE LOCKS, P.Q.

STEEL BRIDGES

For Railways and Highways
Piers, Trestles, Water Towers
Tanks, Buildings, Roofs, Girders,
Beams and Columns

Toronto Agent: GBO. E. EVANS,
38 Canada Life Bldg., TORONTO, ONT



The Highest Grade of American
Portland Cement is "Iron Clad"

It is the most finely ground (97 per cent. passing No. 100 sieve) and most uniform, having a Ten Years' Record. Used on some of the most important work in Canada and U. S. A.

Prices on application to all dealers, or to

The Glens Falls Portland Cement Co.,

224 Board of Trade, MONTREAL, P. Q.

W. A. COOK, Agent

PORTLAND CEMENT

T. M. Morgan

Manufactures the



CRESCENT AND DIAMOND BRANDS

AS GOOD AS THE BEST FOR ANY PURPOSE

Office and Works: Longue Point, MONTREAL, QUE.

Long Distance Phone R. 435 Ring 2.

**"Lehigh"
Portland Cement**

Capacity 11,000 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—

THORN CEMENT CO. - Buffalo, N. Y.

**The Locomotive and Machine Company
OF MONTREAL, LIMITED**

NEW YORK OFFICE:
25 BROAD STREET
N.Y.

Structural Steel

FOR ALL PURPOSES

WORKS:
LONG POINT
MONTREAL

BRIDGES

NEW AND SECOND HAND CONTRACTOR'S LOCOMOTIVES

STEAM SHOVELS

Principal Office: Imperial Bank Building, MONTREAL

Co.; carpentry, Armstrong & Johnston; plumbing, A. Joss; concrete work, William Ellis; painting, A. Lambert.

DESERONTO, ONT.—Pressed brick presbytery for Parish of St. Vincent de Paul: George C. Clement, this town, contractor for all trades except heating and plumbing, cost about \$5,000. H. P. Smith, Kingston, architect.

BARRIE, ONT.—Thomas Kennedy, architect, has let contracts as follows for livery and sales stable for Millson & Fowler: Masonry, Wesley Cline; carpenter and other trades, George A. Bateson, of Bracebridge; estimated cost \$7,000.

ST. JOHN, N.B.—Residence on Douglas ave. for J. K. Scammell: Architect, F. Neil Brodie; masonry, R. A. Corbett; carpentry, A. L. Dodge. Building will be 2½ stories, 42 x 36 feet, of wood, walls clapboarded, roof and tower of steel shingles.

LONDON, ONT.—Municipal supplies: Lead pipe, Cowan Hardware Co.; pipe laying, F. Harding; brass work, London Brass Works Co.; hydrants, valves, stop-cock boxes and iron castings, Stevens Manufacturing Co.; hardware, G. McLean; miscellaneous supplies, Cowan Hardware Co.

TORONTO, ONT.—The Board of Control have accepted the following tenders for construction of art gallery on the Exhibition grounds: Structural steel, Hamilton Bridge Company, \$2,570; excavation, brick work, certain concrete and drain work, Seif Brothers, \$14,850; sheet metal work, Douglas Brothers, \$7,298; Hanna & Nelson, plastering, \$2,428; painting, Faircloth & Company, \$430; reinforced concrete floor and roof, Seif Brothers, \$4,100; felt and sand roofing, W. D. Hutson & Sons, \$330; electric wiring, Keith & Fitzsimmons, \$160.—The contract for 15,000 cubic yards of dredging in the harbor has been let to Frank Simpson.

NEW COMPANIES.

Blind River Light, Heat & Power Company, Limited, Blind River, Ont., incorporated, capital \$40,000. Directors, David Irvine, F. R. Price, George J. McArthur, E. F. Bradley and D. S. Pindell.

John Hillock & Company, Limited, Toronto, incorporated, capital \$40,000, to acquire the business of John Hillock & Co., planing mill operators and dealers in lumber, refrigerators, etc. Directors, Frank Hillock, John F. Hillock, C. W. Hillock and others.

Close Brick Company, Limited, Stratford, Ont., incorporated, capital \$25,000, to manufacture brick and tile. Directors, George Close, brick manufacturer, J. L. Youngs, contractor, and others.

Keystone Engineering Company, Limited, Toronto, incorporated, capital \$40,000, to manufacture and deal in building materials and to carry on the business of general contractor for construction and engineering works. Directors, A. W. Kirvan, Frank B. Johnston, and Strachan Johnston.

Wolthausen Hat Corporation, Limited, Brockville, Ont., incorporated, capital \$50,000, to manufacture all kinds of hats, caps, etc. Directors, Frederick Wolthausen, L. R. Bolton, and S. C. Horton.

The Lumen Bearing Company, incorporated under the laws of the State of New York, has been granted a license to do business in Ontario. N. K. B. Patch, of Toronto, is their attorney.

Vroom Bros., Limited, St. Stephen, N.B., incorporated, capital \$24,000, to manufacture furniture and upholstered goods, window shades, etc. Directors, E. G. Vroom, J. D. Chipman, F. M. Murchie, of St. Stephen, and others.

Richibucto-Rexton Telephone Company, Limited, Richibucto, N.B., incorporated, capital \$20,000. Directors, William J. Brait and F. W. Tozer, of Rexton; Wil-

liam J. O'Leary, electrical engineer, of Montreal, and others.

Crushed Stone, Limited, Toronto, incorporated, capital \$40,000, to manufacture and sell building and crushed stone, lime, etc. Directors, W. H. Essery, George W. Essery, W. H. Adamson, and F. H. Adamson.

Canadian Northern Coal & Ore Dock Company, Limited, Toronto, incorporated, capital \$500,000, to construct docks, wharves, warehouses, etc. Directors,

J. S. Lovell, William Bain, Robert Gowans, and others.

Mowry Safety Nut Company, St. John, N.B., incorporated, capital \$250,000. Directors, D. C. Clinch, R. W. W. Frink, C. W. Brannen, Thomas A. Linton, and H. A. McKeown.

North Bay Light, Heat & Power Company, Limited, North Bay, Ont., incorporated, capital \$50,000. Directors, Thomas Wallace, J. T. Lovell, William Martin, of North Bay, and others.

BLAST . . . SLAG A MOLTEN FURNACE ROCK . . .

Cement Sidewalks, Road Foundation and Concrete Work

STRONG AS STONE CHEAP AS GRAVEL

Doolittle & Wilcox, Hamilton, Ont.

Toronto Agents: Sand & Dredging Limited, John Street Dock.

PORTLAND CEMENT

Drain Pipes, Culvert Pipes

Sewer Bricks, Inverts

Building Bricks

Fire Clay Ganister

Road Paving Bricks and Blocks.

F. HYDE & CO.,

King, Queen and Wellington Sts. - MONTREAL



VULCANITE PORTLAND CEMENT

The Recognized Standard for Sidewalks

A strictly High-Grade Portland Cement. Pronounced by prominent contractors to be the most Uniform Portland Cement on the market.

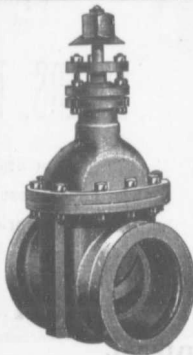
One Quality Only. Capacity 5,000 bbls. per day.

The Toronto Pottery Co., Limited, Toronto, Ont.

Office, 75 Cottingham Street DISTRIBUTORS

Yards 75-81 " "

Long Distance Phone North 1787 and North 1552.



KERR'S WATERWORKS VALVES

Are tested to 300 pounds hydraulic pressure before being stocked. They are of good substantial weight and design, and can be relied upon.

Write for catalogue, and we will tell you more about them.

THE KERR ENGINE CO., LIMITED

Walkerville - - Ont.

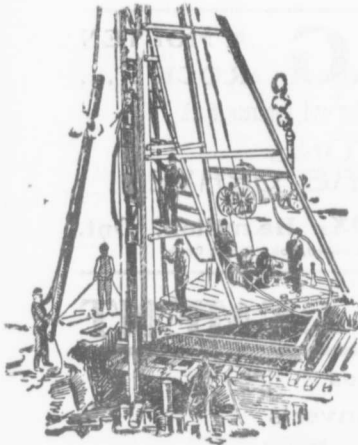
The Canadian Bridge Co., Limited

WALKERVILLE, ONT.

MANUFACTURERS OF

RAILWAY AND HIGHWAY BRIDGES

Locomotive Turn Tables,
Roofs, Steel Buildings and
Structural Iron Work of all descriptions



PILE DRIVING

on land or water by Steam Pile Drivers or Drop Hammers.

**Portable Boilers
Hoisting Engines
Pumping Machinery
TO LET**

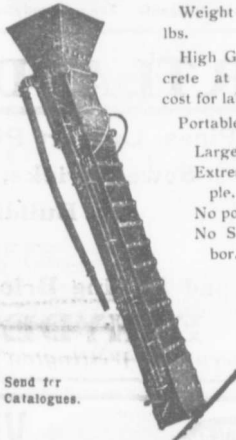
Bridge Building, Trestle Work, Wharves
Dams, Diving Submarine Work and
General Contracting.

WM. HOOD & SON
10 Richmond Sq. - MONTREAL

Speight & Van Nostrand
LAND SURVEYORS, ETC.

Room 405 Temple Building, TORONTO, CAN.
Field Notes of the late P. F. Passmore.

THE PORTABLE GRAVITY CONCRETE MIXER



Weight about 500 lbs.

High Grade Concrete at very low cost for labor.

Portable.

Large capacity. Extremely Simple.

No power used. No Skilled Labor.

Continuous in action.

Send for Catalogues.

Other Mixers and Concrete Mixing Machinery

E. F. Dartnell,
Montreal



PILE DRIVING

and Foundation Work.

By 5-ton Automatic Steam Pile Hammer, Water Jet or Drop Hammers, Dock Building, Submarine Work and Dredging.

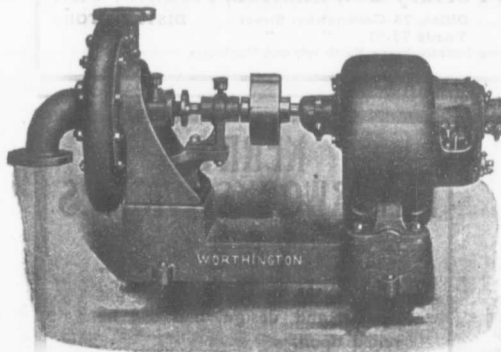
BUILDING MOVER AND WRECKER

General Contracting.

JNO. E. RUSSELL, - Toronto
908 Queen St. E. - Phone M. 207.

WORTHINGTON PUMPS

FOR WATER WORKS SERVICES



Worthington Volute Pump and Direct Current Motor.

"WORTHINGTON" TURBINE PUMPS

for heads up to 2,000 feet, are
Reliable, Durable, Efficient
and exceedingly simple 3 3

BOILERS, TANKS, FILTERS, ETC., ETC.

If you are interested in Pumps and Receivers for Low Pressure Heating Systems, write for particulars and prices.

The John McDougall Caledonian Iron Works Co.,
Montreal. Limited.

MUNICIPAL-ENGINEERS, CONTRACTORS AND MATERIALS

WILLIS CHIPMAN

Hon. Grad. McGill University.
M. Can. Soc. C.E. M. Am. Soc. C.E.
Mem. Am. W.W. Ass'n.
**WATERWORKS, SEWERAGE WORKS, GAS
WORKS, ELECTRIC LIGHT AND
POWER PLANTS**
Reports, Surveys, Construction, Valuations
103 BAY STREET - TORONTO

R. E. SPEAKMAN, C.E.

A. M. Inst. C. E., 1878.
CONSULTING ENGINEER
Waterworks, Sewerage and Sewage Disposal.
Municipal Improvements.
Granolithic Pavements.
Electric Light Plants.
Drainage and Irrigation of Land.
Coal Handling Plant and Machinery.
Plans, Specifications and Estimates.
Construction and Valuations.

Canada Life Building - TORONTO

E. VON DER OSTEN & CO.,

Consulting Engineers
Industrial Plants. Waterworks.
Lighting and Power Plants
Sewerage and Sewage Disposal
Garbage Reduction Plants
Municipal Improvements
Roncesvalles Ave. & High Park Road,
TORONTO, ONT.

Cable: Ackcoll
J. J. COLLINS

B.A.S., C.E., M.E., E.E.
Consulting Engineer
Ottawa, Ont., Canada

RODERICK J. PARKE

A.M. Can. Soc. C.E. A.M. Amer. Inst. E.E.
CONSULTING ELECTRICAL ENGINEER.
Electrical Light and Power.
Steam Plants, Gas Power Plants, Water
Power Plants.
Estimates. Tests. Reports. Valuations.
82-83 James Building - TORONTO, CAN.
Long Distance Telephones-Office and Residence
Cable Address "Rodparke" (W. U. Code.)

John H. Jackson

CIVIL ENGINEER
WATER POWER, ELECTRIC RAIL-
WAYS, STRUCTURAL STEEL.
Niagara Falls, Canada
Associated with Charles H. Mitchell,
C. E., Hydraulic Engineer.

CECIL B. SMITH, M.A.E.

M. Can. Soc. C.E.
Constructing and Consulting Engineer
Hydraulic Power Plants, Municipal, Railway,
and general Civil Engineering Work.
Plans, Estimates, Specifications, Reports.
Cement, Concrete, and Steel Concrete
CEMENT TESTING LABORATORY.
Rates for testing on application.
36 Toronto Street, Toronto.

Established 1898
The Hanover Portland Cement Co., L'td.
Hanover, Ontario
Manufacturers of the Celebrated

"SNUGEEN" Brand of PORTLAND CEMENT
Prices on application

Please mention this paper when cor-
responding with advertisers.

A TRIUMPH OF THE METALLURGIST'S ART
MANGANESE
Anti-Friction
Babbitt Metal.

Syracuse Smelting Works, Montreal.

THE ONTARIO ASPHALT BLOCK CO., L'TD.

MANUFACTURERS OF
ASPHALT BLOCK PAVING
Information and samples furnished municipalities on application.
Main Office: WINDSOR, ONT. Works: WALKERVILLE, ONT.

THE CANADIAN SEWER PIPE CO.



MANUFACTURERS OF
FOR
Sewers, Culverts and Water Pipes
Inverts for Brick Sewers

WRITE FOR DISCOUNTS
ST JOHNS, P.Q. HAMILTON, ONT. TORONTO, ONT.

ALSEN'S, 45 Broadway, NEW YORK

GRANITE BLOCKS

THE OFFICIAL PRACTICAL TEST OF CONCRETE VAULT LIGHT CONSTRUCTION

UNDER THE PERSONAL DIRECTION OF
OF
WM. BARCLAY PARSONS, C.E., M. AM. SOC. C.E.
CHIEF ENGINEER R. T. COMMISSION

AND
S. F. DEYO, C. E., M. AM. SOC. C. E.
CHIEF ENG. R. T. SUBWAY CONSTRUCTION CO.

ALSEN'S HAS BEEN SELECTED IN PREFERENCE TO ALL OTHER BRANDS, FOR THE SUBWAY RAPID TRANSIT STATIONS OF THE ENTIRE SYSTEM, REACHING FROM THE BATTERY TO THE BRONX.

MERELY SUSPENDED BETWEEN I-BEAMS A SLAB OF
ALSEN CONCRETE
2 INCHES THICK
5 FEET WIDE
12 1-2 FEET LONG
90 DAYS OLD
SUSTAINED 11,862 POUNDS OF CONCENTRATED WEIGHT
ON AN IRON DISC 8 1-2 IN. IN DIAMETER

ALTHOUGH HIGHEST IN PRICE, ALSSEN'S IS BEING USED IN THIS VERY IMPORTANT CONSTRUCTION, NOT ONLY BECAUSE OF ITS GREATER STRENGTH, BUT CHIEFLY BECAUSE OF ITS ABSOLUTE SAFETY IN ACTUAL WORK.

MADE BY TUCKER & VINTON, INC., NEW YORK CITY
PATENTS

Prices of Building Materials.

LUMBER
CAR OR CARGO LOTS, F.O.B. TORONTO.
Per M. Ft.

1 inch No. 1 Pine cuts and better	\$48.00	\$50.00
1 1/2 to 2 inch No. 1 cuts and better	51.00	53.00
1 inch No. 3 Pine cuts and better	37.00	38.00
1 1/2 to 2 inch No. 3 cuts and better	38.00	39.00
1 inch Pine Dressing and better shorts	25.00	27.00
1 x 4, 6 and 8 Common	18.00	19.00
1 x 10 and 12 Common	19.00	21.00
1 inch mill run sidings	21.00	22.00
1 inch mill run	20.00	21.00
2 x 10 and 12 mill culls	15.00	16.00
1 inch dead cull sidings	12.00	13.00
1 1/2 inch Flooring	25.00	27.00
Hemlock, 1 x 4 to 8 inch	14.50	15.50
2 x 4 to 10 inch, 12 to 16 feet	15.00	16.00
2 x 4 to 10 inch, 18 feet	16.00	17.00
1 1/2 inch No. 1 4 ft. Lath	3.00	3.50
1 1/2 inch No. 2 4 ft. Lath	2.80	2.90
Lath		2.80
XXXX Pine Shingles	2.90	3.00
XXX Cedar Shingles	2.80	2.90
B. C. Shingles:		
XXXX 6 butts to 2 inch	2.60	2.80
XXXXX 6 to 2 1/2 inch	2.80	3.00
XXXXX 5 to 2 inch	3.15	

HARDWOODS—PER M. FEET CAR LOTS.

Ash, white, 1sts and 2nds, 1 to 2 inch	\$33.00	\$35.00
Ash, black, 1sts and 2nds, 1 to 1 1/2 inch	27.00	29.00
Birch, M. N. 1 inch	22.00	24.00
" 1 1/2 inch to 2	23.00	25.00
Basswood, Common and better, 1 to 1 1/2 inch	24.00	25.00
Basswood, 1 1/2 to 2 inch	25.00	26.00
Elm, soft, mill run, 1 to 1 1/2 in.	24.00	25.00
Elm, rock, mill run, 1 to 1 1/2 in.	24.00	26.00
Maple, common and better, 1 to 1 1/2 inch	21.00	22.00
Oak, red plate, 1sts and 2nds, 2 to 4 inch	44.00	46.00
Oak, white, 1sts and 2nds, 1 to 1 1/2 inch	42.00	44.00
Oak, quartered, 1sts and 2nds	70.00	80.00

PRESSED BRICK, Per M.
MILTON PRESSED BRICK AND SEWER PIPE CO.
Milton, Ont. Montreal
F.O.B. F.O.B.

Red No. 1	18 00
" 2	16 00
" 3	14 00
Buff No. 1	20 00
" 2	18 50
Brown	25 50
Roman Red	30 50
" Buff	23 50
" Brown	40 50
Hard Building	13 00
" Sewers	13 00
" Backing	11 50

Write to head office, 34 Toronto St., Toronto, for catalogue and prices.

(Continued on page 14.)

PORTLAND CEMENT
SAMSON BRAND MAGNET BRAND

MANUFACTURED BY
THE OWEN SOUND PORTLAND CEMENT COMPANY, LIMITED
Owen Sound, Ont.
Works at SHALLOW LAKE, ONT. Write us for prices

McGREGOR & McINTYRE, LIMITED
67 to 91 Pearl Street, Toronto, Ont.
STRUCTURAL IRON WORKS

Fire Escapes, Library Racks, Sidewalk Door, Jail Cells, Iron Stairs, Railings, Etc., Etc.
SOLE AGENTS FOR DUPLEX HANGERS WRITE FOR ESTIMATES.

Portland Cement...

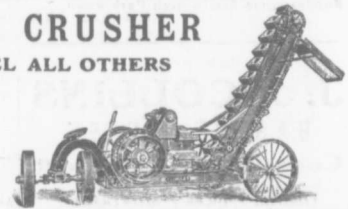
HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.
Sewer Pipes, Best English Cements. Best Belgian Cements
Culvert Pipes, &c. W. McNALLY & CO., Montreal

CLIMAX STEEL CRUSHER
PORTABLE - EXCEL ALL OTHERS

SIZES, 8 x 10 9 x 15 10 x 20
STATIONARY, 10 1/2 x 22 12 x 28

Send for Prices

CLIMAX ROAD MACHINE CO.
Hamilton, Ont.



A HUMILIATING POSITION
To have a friend decline to go on your Bond, but why should any man go on a Bond.
The United States Fidelity & Guaranty Co.
issues all kinds of Bonds.
A. E. KIRKPATRICK, Manager for Canada.
6 COLBORNE STREET, - TORONTO, ONT.

Fire Protection Apparatus



Wood and Steel Tanks, Steel Substructures, etc.

Motive Power } - Win'mills
(Prompt Shipments) Gasoline Engines
Hydraulic Engines
ONTARIO WIND ENGINE AND PUMP CO. LTD.,
TORONTO, CAN.

PORTLAND CEMENT



SEWER PIPES
FIRE BRICKS
FIRE CLAY
ALEX. BREMNER



50 Bleury Street, MONTREAL

W. & F. P. CURRIE & CO.
345 St. James St., Montreal

SEWER PIPES,
CULVERT PIPES, ETC.
VENT LININGS,
FLUE COVERS,
FIRE BRICKS,
FIRE CLAY,
WHITING.

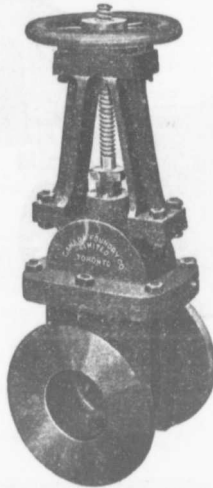


Importers of
PORTLAND CEMENTS,
HIGH GRADE ENGLISH
" " GERMAN
" " BELGIAN
PLASTER OF PARIS
BORAX,
CHINA CLAY.

WATERWORKS SUPPLIES

OF EVERY DESCRIPTION

Cast Iron, Gas and Water Pipe
Valves, Hydrants, Valve Boxes
Special Castings



Railway Supplies, Structural Steel, Ornamental Ironwork

CANADA FOUNDRY COMPANY LIMITED

Head Office and Works: TORONTO, ONT.

District Offices: MONTREAL HALIFAX OTTAWA WINNIPEG CALGARY VANCOUVER ROSSLAND

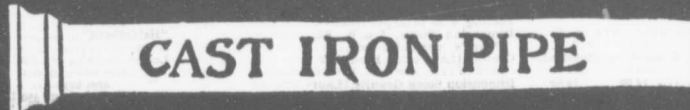
THOS. J. DRUMMOND
President

JAMES T. McCALL
Secretary-Treasurer

C. ED. GUDWILL
Vice-President

Montreal Pipe Foundry Co., Limited

Special Castings
Flange Pipe
Branches
Hydrants
Valves



CAST IRON PIPE

Valve Boxes
and
general
Water
Works
Supplies

Works at: LACHINE, QUE.
THREE RIVERS, QUE.
LONDONDERRY, N. S.

Combined daily capacity:
175 Tons Pipes and Castings.

HEAD OFFICE CANADA LIFE BUILDING, MONTREAL

JAMES THOMSON, President. J. G. ALLAN, Vice-President. JAMES. A. THOMSON, Secretary. ALEX. L. GARTSHORE, Treasurer.

THE GARTSHORE-THOMSON PIPE & FOUNDRY CO. LIMITED.

Manufacturers of

Flexible and Flange Pipe,
Special Castings and all kinds of
Waterworks Supplies



CAST IRON PIPE

3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

HAMILTON, ONT.

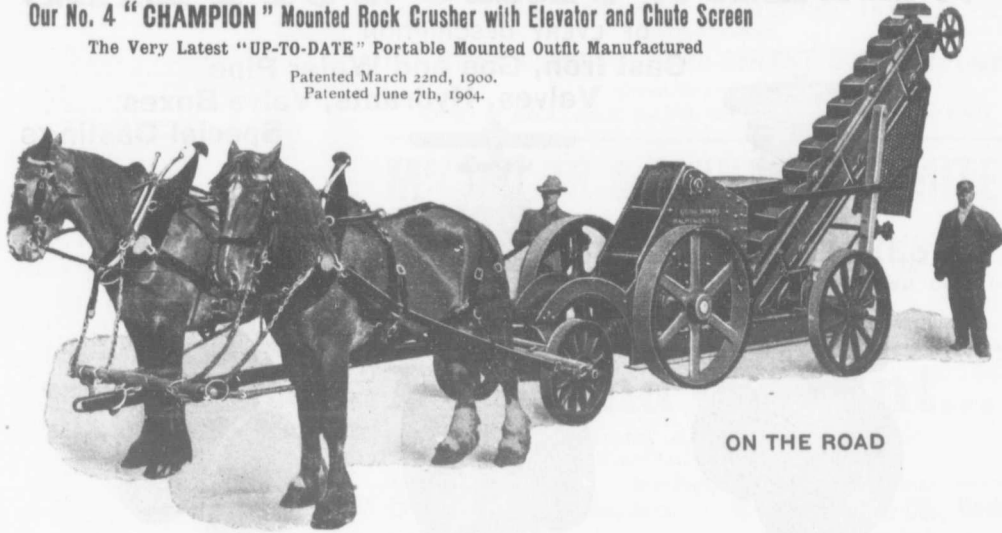
THE GOOD ROADS MACHINERY COMPANY, LIMITED, Hamilton, Canada

Our No. 4 "CHAMPION" Mounted Rock Crusher with Elevator and Chute Screen

The Very Latest "UP-TO-DATE" Portable Mounted Outfit Manufactured

Patented March 22nd, 1900.

Patented June 7th, 1904.



ON THE ROAD

The Steel "CHAMPION" Rock Crusher is the result of years of practical experience in crushing Rock from the limestone Ridges to the very hardest Syenite Rock. For crushing hard Boulders they have been proved to be superior to all competitors.

All mechanics agree that the simpler the machine the more valuable it is. In complicated machines look out for trouble and expense.

Send for latest printed matter and our 1905 Calendar to

Good Roads Machinery Company, Limited, JOHN CHALLEN, President and General Manager.

Address—Late Kitley Beckett Works, 144 York Street, HAMILTON, ONT.

Prices of Building Material

(Continued from page 12.)

TORONTO PRESSED BRICK AND TERRA COTTA WORKS

	F.O.B. Milton, Ont.	F.O.B. Beamsville, Montreal.
Red No. 1.....	13 00	15 00
" 2.....	9 00	11 00
Buff No. 1.....	15 00	17 00
" 2.....	13 00	15 00
Brown.....	15 00	17 00
Roman Red.....	30 00	35 00
" Buff.....	35 00	40 00
" Brown.....	43 00	48 00
Hard Building.....	8 10	9 00
" Sewer.....	7 50	8 00
" Backing.....	6 00	6 50
Moc.....	Ornamental from \$2.00 to \$5.00 per 100.	
Terra Cotta string Courses and Frieze, from 50c. to \$2.00 per ft. run.		
Roofing Tiles, \$20.00 per 1,000.		

BEAMSVILLE BRICK AND TERRA COTTA CO.

	F.O.B. Milton, Ont.	F.O.B. Beamsville, Montreal.
Red Peerless Facing.....	\$16 00	\$21 50
" No. 1.....	11 00	13 50
" No. 2.....	11 00	13 50
" No. 3.....	10 50	13 00
Brown Peerless Facing.....	20 00	25 50
" No. 1.....	18 00	23 50
Buff Peerless.....	20 00	25 50
" No. 1.....	18 00	23 50
" No. 2.....	15 00	20 50
Moulded and Ornamental Brick from \$3 to \$10 per C.		
Roman Red (Size 12 x 4 x 1 1/4 in.).	30 00	35 50
" Buff.....	30 00	35 50
" Brown.....	34 00	39 50
Vitrified Paving Brick No. 1.....	18 00	23 50
" No. 2.....	16 00	21 50
Sewer.....	8 00	13 50
Roofing Tile.....	22 00	26 00

FIRE BRICK

	F. O. B. Toronto	Less
Boyd.....	20 00 M.	25 00 M.
W. W. Co.....	22 50 M.	27 50 M.
Savage Crown.....	26 50 M.	31 00 M.
Ramsay.....	30 00 M.	35 00 M.

	Toronto.	Montreal.
Common Rubble per ft. in, delivered at building.....	13 50	13 00
Large flat Rubble, per toise, delivered.....	14 00	18 00
Foundation Blocks, per c. ft. Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 2 in., per ft. Amherst Red Sandstone Amherst, N.S., per cub. ft. on cars at quarry 40c. at quarry.....	40	40
Sackville, N.B., brown or red also f.o.b. Quarries Astillon.....	45	45
Myers-Northport Red or River.....	30	41

	Toronto.	Montreal.
Philly Gray Sandstones f.o.b. per cubic foot.....	75	65
Stanstead granite paving blocks, 8 in. x 12 in. x 6 in. 2 1/4 in. per sq. ft. Granite curbing stone, 8 x 10 in. per lineal foot.....	85	70
Buctouche Olive Freestone Olive Sandstone (Indian-town, N. B.).....	80	70
Brown Sandstone (Sackville, N. B.).....	80	70
Most red sandstone, per cu. ft.....	60	50
Black Pasture buff stone per cu. ft.....	8 10	7 50
Hagersville Crushed Stone per ton.....	1 25	65
Nova Scotia blue grey, per cu. ft. Coursers, 6 to 8 in. f. o. b. St. Mary's, per cord.....	7 00	15
Footing, 6 to 10 in. per cubic ft. Dimension Stone, f. o. b. St. Mary's, per cubic foot.....	35	35
Granite (Laurentian Pink) Ashlar, 6 to 12 in., rise 2 in., per c. ft. Dimension Stock Granite (Laurentian Pink) for building purposes, per c. ft., f.o.b. quarries Do., for polishing purposes, up to 2 tons weight, per cubic foot.....	40	70
Dimension stock granite for building purposes, per cu. ft. Do., for polishing purposes, up to 2 tons weight, per cubic ft. Paving sets, per thousand block.....	1 00	60 00

CREDIT VALLEY STONE.

	F.O.E. Quarries.
Rubble, per ton.....	60
Brown Coursing, up to 10 per sup. yard.....	1 75
Brown dimension, per cub. Grey coursing, per sup. yard.....	1 25
Grey dimension, per cub. ft.	40

ROMAN STONE, F. O. B. Factory.

6" x 3" Sills, tooled seated and throated 35c per lineal foot.	
Window Heads and Ashlar, 40c per square foot.	
Window and Door Quoins tooled 40c per superficial foot.	
String Courses, Moulded or Ornamental, 6" to 12" rise 50c to \$1.50 per lineal foot.	
Hollow wall tooled finish 14" thick 40c. per square foot.....	

	Toronto.	Montreal.
Roofing (W squares) red.....	20 00	20 00
" purple.....	9 00	10 00
" unglazing green.....	10 00	11 00
" black.....	9 00	9 00

Ferra Cotta Tiles, per sq.	23 00	25 00
Ornamental Black Slate Roofing.....	23 00	27 00

PORTLAND CEMENT (CARLOADS.)

	Toronto.	Montreal.
Canadian (Packages, 350 lbs. net.):		
Rathbun's Star.....	1 70	2 00
Trowel.....	1 85	2 15
Samson.....	1 75	1 85
Magnet.....	1 55	1 65
Monarch.....	1 80	1 90
Hercules.....	1 75	1 75
Imperial.....	1 80	1 80
Crescent 375 lbs. gross.....	2 30	2 40
Diamond 350.....	2 20	2 30
" Giant" Brantford.....	1 75	2 00
American (in Bags):		
"Helderberg".....	1 90	2 00
Alsen.....	2 20	2 25
Lehigh, in bbls., 375 lbs. cotton sacks, 350 net.....	2 35	2 10
" open bags.....	2 00	1 85
"Iron Clad" in bags 350 lbs. "Invicta".....	1 80	1 90
"Adirondack".....	1 65	1 70
Vulcanite (The Toronto Pottery Co., Limited. Toronto) 350 lbs. per bbl. in paper bags.....	1 80	1 80
" wooden bbls.....	2 00	2 00
" cotton bags.....	2 10	2 10
English (in Barrels):		
Brook's Shoobridge Anchor.....	2 35	2 40
Belgian (in Barrels):		
" Fosson".....	2 60	2 70
"North's Condor.....	2 05	2 10
"White Cross".....	1 90	2 00
Hammer.....	1 80	1 90
White Star.....	2 15	2 25
Samson.....	1 80	1 90
German (in Barrels):		
Offenbacher.....	2 65	2 95
Alsen.....	2 65	2 75
Dyckerhoff.....	2 05	2 35
Hercules.....	2 05	2 35
Keene's Superfine "Whites".....	10 00	12 00
Keene's Coarse "Whites".....	6 50	7 00
Fire Bricks, Newmarket, per M.....	27 00	32 00
Scottish.....	26 00	33 00
laster Calcined N.B.....	1 70	1 60

CORRECTED UP TO MARCH 14TH