#### 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. 15.

TORONTO AND MONTREAL, MARCH 9, 1904

No. 2.

#### THE CANADIAN CONTRACT RECORD

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

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

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

Confederation Life Building, Toronto-Telephone Main 2362.

Branch Offices Imperial Building, Montreal, Telephone Main 2299.

22 Great St. Helen's. London, England Advertising Rates on application.

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

#### BURKS' FALLS, ONT.

### GRAVITATION WATER WORKS

Sealed tenders will be received by the underslame up to WEDNHSDAY. THE FOTH DAY OF
MARC II. too, for furnishing all the materials
and labor complete in bulk as follows:

3,300 Inneal feet to? piping 5 to 8 deep
2,000 8 4 14 ft. average
10,600 6 6 16 depth of trench

Total 15,450 ft. Gravitation Supply Main = 273 tons.

#### Distribution Piping in Streets.

200 ft. 8" crossing Maganetawan River. 562 " 8" i 9,104 " 6" 4,573 " 6" 5 ft. average depth of trench

Total 14,439 ft, of distribution, 200 tons

#### Special Castings.

10" Stop Valve with Cast Iron Boxing Fire Automatic Air Valves in wooden chambers.
Fire Hydrants, double nozzle.
Solid rock to be paid extra at \$3.00 per cubic rd.

#### Notice.

Work must be completed ready for use to the satisfaction of the engineer by ist July, 1904. Plans and specifications can be seen and tender forms obtained at Burks' Falls and at the head office of the Consulting Chief Ringineer, Bids must be accompanied by certified bank cheque payable to the Corporation for \$1,500, which will be retained as security for the proper execution and fulfilment of contract.

The lowest or any tender not necessarily accepted.

R. BAZETT, Clerk, Burks' Falls, Ont.

JOHN GALT, C.E. and M.E., Consulting Chief Engineer, Toronto.

#### **TENDERS**

Sealed tenders marked "Tenders for Fire Hail," will be received up to WFDNESDAY, MARCH 16711, 1904, at 12 o'clock noon, for the following works:

The erection of a new Police Court, Council Chamber, Lock-up and Stables, and for alterations and improvements to the Fire Hall Build-interactions and improvements to the Fire Hall Build-interactions will be received for the whole or for the various trades. Plans and specifications may be seen at the office of the Architect, Thos. Kennedy, Esq., Barrie.

The lowest or any tender not necessarily accepted.

E. T. TYRER.

K. T. TYRER, Chairman of Fire and Police Committee.

### LETHBRIDGE WATER

#### ALBERTA, CANADA

Sealed tenders will be received by the Secre-tary-Treasurer of the Town of Lethbridge until 6 p.m. on THURSDAY, MARCH 3187, 1904, for

#### Pumping Machinery and Boilers.

'G''—Two Compound Duplex Pumps, each with a capacity of 850 U.S. gallons per minute, domestic pressure 170 pounds, fire pressure 220 pounds; offer to include erection.

"-Two Boilers of 125 H.P. each, in-cluding erection and brickwork.

Specifications and further information may be obtained from the Chief Engineer.

obtained from the Chief Engineer.
WILLIS CHIPMAN, C.E.,
Chief Engineer,
103 Bay Street, Toronto, Ont.
C. B. BOWMAN, Esq.
Secretary-Treasurer, Lethbridge, Alta.

#### CITY OF BRANTFORD .

#### Cement, Sewer Pipe, Paving Brick and Lumber

Sealed tenders, addressed to S. F. Whitham, Esq., Chairman of the Board of Works, in care of the City Clerk, Brantford, Ont., will be re-ceived to 12 o'clock, noon, care

#### Thursday, March 24th, 1904,

for the supply of Cement, Sewer Pipe, Faving Brick and Lumber required for the City of Brautford for 1994.

Specifications and for 1994 for 1994 for 1994 for 1994 on a splication to the City Rugineer. The lowest or any tender not necessarily accepted.

T. HARRY JONES.

City Engineer.

Brantford, March 7th, 1904.

The assets of P. Sicard, plumber, Montreal, have been sold.

#### CONTRACTS OPEN.

SUSSEX, N. B.—Dr. White will build an hotel here.—Walter Brewing and L. Claim each intend building new

And L. Claim residences.

HUNTSVILLE, ONT.—The rate-payers will be asked to vote on a by-law to raise \$15,000 by debentures for build-

ing a new school.

PORTAGE LA PRAIRIE, MAN.—
The Manitoba Government has been memoralized to build a wing for the

Home for Incurables.

SYDNEY, N. S.—The Intercolonial Railway Company are asking for tenders up to 15th inst. for erection of a car re-

por 13th lists for effection of a car re-pair shop here.

FORT QU'APPELLE, N.W.T.—C.
P.R. engineers have surveyed a proposed line of railway from near Indian Head to the west of McLean Station.

REVELSTOKE, B.C.-The C. P. R.

REVELSTOKE, B.C.—The C. P. R. yard here is to be reconstructed, at an estimated cost of \$40,000. A new station may also be built.

GREENWOOD, B. C.—W. F. Van-Buskirk, C. E., late of Rossland, has been engaged to prepare plans for a water supply for this place.

BALMORAL, MAN.—M. Shipley will receive tenders up to 15th inst. for carpenter and mason work for basement under Methodist church.

under Methodist church.

SALMON RIVER, N.B.—James A. Patterson, of this place, has leased the saw-mill at Robinson's Point, in which he will install new machinery.

SHADY NOOK, ONT.—Tenders will be received by Gustave Pufal, of this place, up to March 15th for erection of a brick building in Churchville.
MORRISBURG, ONT.—Wm. Eager

and others purpose organizing a company to furnish electric power to Morrisburg, Winchester and Chesterville.

WILLIAMSVILLE, ONT. — The congregation of St. Luke's church will hold a meeting this week to consider the question of enlarging the church.

question of enlarging the cnurch.

ST. CATHARINES, ONT. — The
Board of Works last week discussed the
relative merits of the two plans submitted
for a sewerage system for the city,
GAINSBORO, N. W. T. — W. D.
Keenan will receive plans for a two-storey
brick veneer school house, strne basement, furnace hearing, cost \$4,000.

AMQUI, QUE .- Tenders wanted by D. Pottinger, manager Intercolonial Railway, up to 17th inst. for erection of a passenger station and dwelling here.

BRANDON, MAN. - Tenders for street numbering will be received by C. E. Kelly up to 18th inst. Particulars from W. H. Shillinglaw, City Engineer.

PETERBURO, ONT.—The Ontario government has consented to a transfer of dams on the head waters of the Trent Valley Canal to the Dominion govern-

ment. The dams will be repaired, at a cost of \$20,000.

EAST TORONTO, ONT. — John Galt, C.E., Toronto, has submitted to the Village Council his report on a water supply, which will be considered at next meeting.

MIDDLETON, N.S.—F. R. Butcher intends building a brick block here this spring. Through an oversight this item appeared in last week's issue under Annapolis.

CHARLOTTETOWN, P.E.I.—L. B. McMillan, Secretary Department Public Works, will receive renders up to 14th inst. for building a bridge across the Morrell river.

ST. ANSELME, QUE. — The Ste. Claire Electric Co. is considering the construction of an electric railroad through the counties of Dorchester, Bellechase and Levi.

PORT HOPE, ONT.—Tenders are invited up to 15th inst. for erection of brick school house for trustees of S. S. No. 9, Clarke. Plans at residence of Andrew Sharpe, Lot 28, Concession 4.

STANLEY, N.B.—Dr. D. R. Moore, of this place, intends to apply to the Provincial Government for a subsidy for the extension of the York & Carleton Railway five miles up the Nashwaak river.

NORTH VANCOUVER, B.C.—Alex. Philip will receive tenders, on behalf of the municipality of North Vancouver, up to Wednesday, April 6th, for construction of bridge over the Capilano river and a bridge over the Seymour river.

MOOSE JAW, N. W. T.—By-laws were carried here last week to raise \$150,000 for waterworks, sewerage and electric light systems and \$10,000 to assist in erecting a new municipal building. The works will be commenced as soon as possible.

PARRY SOUND, ONT. — Mayor Johnston, of this place, and others have made application to the Department of Crown Lands for a lease of water power at Canal Rapids on Maganetawan River, where it is proposed to build a large pulp roill.

BIG HARBOR, N.S.—The Dominion Government is asking for tenders up to March 31st for construction of wharf and approach here. Plans at office of C. E. W. Dodwell, Halifax; E. G. Millidge, Antigonish, and at Department of Public Works, Ottawa.

CHATHAM, ONT.—J. L. Wilson & Sons, architects, have completed plans for a new hotel for Barney Ballard and Joseph Peltier, of Tilbury.—John R. Morrison has purchased the Lawrence Howard residence on corner of Harvey street and Inches avenue and intends making extensive improvements.

STE. CUNEGONDE, QUE. —
The new town hall, for which plans were prepared by Messrs. Piche and Dufort, will be 80x100 feet and 80 feet in height. The base will be of Stanstead granite, the remainder of pressed brick with trimmings of Indiana sandstone, the dome covered with copper.

LOTBINIERE, QUE.—The Domnion government wants tenders by 26th inst. for construction of a roadway to connect Isolated Block with the shore here. Plans at the Department of Public Works, Ottawa, and at office of P. Beland, Post Office Building, Quebec.

ST. JOHN, N. B.—Subscriptions for the new building of the Y. M. C. A. are coming in rapilly and it is expected that the work of erection will be commenced this year.—McKean & Dunn, architects, are taking tenders up to 10th inst. for building vaults and other work in the court house at Hampton.

DESJARDINS, QUE.—The Dominion government is asking for tenders up to 16th inst. for construction of a wharf at this place. Plans on application to P. Desjardins, Grand View Hotel, and Postmaster at Pembroke, Ont. Check for \$1,000 to accompany each tender.

for \$1,000 to accompany each tender. KINGSTON, ONT.—J.M. Campbell, of the Kingston Milling Co., has asked the City Council for a franchise to distribute electric power.—A.K. Kirk-patrick, City Engineer, will receive bids up to noon, 10th inst, for supply of 1,500 barrels of Portland cement and 6, 9, 12, 15 and 18-in. sewer pipes, with junctions, bends and reducers.

BURK'S FALLS, ONT.— Tenders are invited by E. Bazett, Vilage Clerk, up to Wednesday, 16th inst, for furnishing materials and labor complete for construction of a gravitation system of water supply, details of which will be found in this issue of the CONTRACT RECORD. The consulting engineer is John Galt, C.E. & M.E., Toronto.

NEW WESTMINSTER, B. C.—
The British Coumbia Electric Railway
Co, have bought a site on cerner of
Columbia and Elliott streets on which to
build a sub-station.—The City Council
are considering the advisability of erecting skeel bridges to replace the structure
over the Brunette, river on the Pitt
Meadows road and the one on Carnaron
street near Holy Trinity Cathedral.

OSHAWA, ONT. — The by-law to provide for the construction of waterworks and sewerage systems for the town, at a cost of \$166,000, was carried by the ratepayers on Friday last. The engineer for the work is Willis Chipman, of Toronto. — The Councils of Oshawa and Whitby have resolved to ask the Grand Trunk Railway to construct a subway under the level crossing at foot of Simcoe street.

, STURGEON FALLS, ONT.—H. M. Legault is considering plans for a business block on King street.—W. P. Roche will build a residence and store opposite the Clifton House.—A new Separate School will be erected here this summer.—Joseph Labbe will build a residence and business premises.—J. D. Cockburn has purchased property on Holditch street south and will build a new residence.

TORONTO JUNCTION, ONT.— Hall & Taylor are about to build thurty new houses, at an average cost of \$2,000. The Construction Company, Limited, will build a number of dwellings this season.—A. Campbell, M.P., proprietor of the Queen City Mills, has made a proposition to the Town Council to build a new mill if granted exemption from taxation.

LONDON, ONT.—H. C. McBride, architect, is taking tenders up to 9th inst. for erection of a brick residence.—A. O. Graydon, City Engineer, wants tenders by 17th inst. for reflooring Wellington street and Dundas street bridges and for supplying the necessary rock elm, white oak or tamarac.—The City Engineer will receive tenders up to March 17th for cement sidewalks, cement cute and gutters, lumber, broken stone, hardware, etc.—The proposed edifice to be built by Chalmers' church congregation will crest upwards of \$8,000.

VICTORIA, B. C.—Lemon, Gonasson & Co. are about to make extensive additions to their plant, including a saw and planing mill.—It is proposed to erect a four-roomed school building on the Central grounds.—The work on the extensive sewer extensions will be continued this year. Of the total appropriation of \$200,000 only \$85,000 has been expended. It is probable that septic tanks will be used for the lower portion of the city.—Plans are being drawn for

three cottages to be built on the corner of Superior and Menzies streets.—Plans for a new school building in Victoria West will be prepared by Ridgeway Wilson, architect. J. C. M. Keith will design the Central school extension.

QUEBEC, QUE.—A. Girard is asking for the incorporation of the Quebec Electric Co., to install an hydraulic electric plant on the St. Fereol Seven Falls, on River St. Anne, and to build an electric railway from Seven Falls to the city of Quebec. A. R. McDonald, broker, and Thomas Migner, manufacturer, of this city, are interested.—The extensive works commenced some time ago at Seven Islands by the North Shore Power, Railway & Navigation Company will be resumed as soon as navigation opens.—Tenders will be received at the City Engineer's office up to 23rd inst. for annual supply of sand, deals, nails, broken stone, macadam, gulley wells, and for construction of stone and brick pavements and sidewalks.

OTTAWA, ONT.—J. W. H. Watts, architect, has prepared plans for a building at the Wellington Ward market to accommodate several butchers; estimated cost, \$7,000.—The Board of Health have engaged J. A. Ewart, architect, to prepare plans for alterations to the interior of Isolation Hospital.—Robert Hastey, Chairman Fire & Light Committee, will receive tenders up to 14th inst. for twenty salvage covers, six lifesaving nets and 2-inch birch flooring.—The Waterworks Committee last week discussed the question of purchasing property on Wellington street as a site for an auxiliary steam plant.—Tenders are invited up to March 15th for waterworks supplies for the city, including castings, brass work, hydrants and valves, lead pipe, pig lead, cast iron pipe, etc.; also up to March 16th for supplies for the Board of Works, including cement, tile pipe, brick, stone, bardware, etc. Particulars from the City Engineer.

VANCOUVER, B. C.—The Consolidated Cariboo Hydraulic Mining Co. (J. B. Hobson, manager) are about to install a system of water supply. In carrying out the work a dam will be erected at the outlet of Spanish Lake, which will be about 25 feet high and form a reservoir three miles square. A canal fifteen miles in length will be constructed. The work will, of course, be expensive.—D. McRae purposes erecting a new hotel on Westminster avenue.—J. L. Stack, of Tacoma, states that arrangements are being made for the construction of a narrow guage railway from the west arm of Quatsino Sound to the copper-gold mines known as the June group, some five miles from salt water.—Grant. & Henderson, architects, have taken tenders on a frame warehouse at Mount Pleasant for G. W. Hutchings.—A plan is now under consideration to erect a larger hospital building than originally proposed, the cost to be \$200,000 for a three-storey building. G. W. Grant is architect.—The Orangemen of the city have secured a site at corner of Gore avenue and Hastings street east on which to build a hall.—A project is on foot for the establishment of a university in this province.

MONTREAL, QUE.—The congregation of Notre Dame have purchased property at 355 and 357 St. Antoine street on which they intend building a new school.—Saxe & Archibald, architects, will make extensive alterations to 59 Beaver Hall Hill to make the premises suitable for offices for themselves. They will build a one-storey addition to the rear, 40x25 feet.—J. E. Vanier, architect, will establish himself at 5 Beaver Hall Square and will make considerable alterations to the building.—

St. abou prep Buil follo

The

yet

Marc

Jolie Sylv street two-\$1,5 St. Gira street stor Jos. force three

cos

pe an of Pe tal

Stall on ch moto th M te

bi bi C pa w P

bbHi

Plans eway

askiebec elec-Falls. d an nald, -The time Shore pany ation it the

roken d for pave-

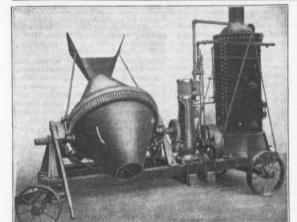
Vatts, cet to estiof itions tal. Light 14th ng.— week asing

te for re inworks lead also or the Par-Co.

ut to In Lake and A con erectenue that ailway Sound is the a salt tects, house

hings. ion to 0 be G emen corner et east t is on

hased ntoine ing archions to preon to at 5 con ing.-



The Smith Concrete Mixer on Truck, Boiler and Bigiae Attached. Du up ng Position.

The Harbor Commissioners have not

taking tenders on a brick residence on Stradbrooke Place for F. W. Whyte.—

Stradbrooke Place for F. W. Whyte.— Joseph Greenfield, architect, has just taken tenders on alterations to a cottage on St. Mary's avenue for W. D. Bayley.— While in the city last week Mr. Ewart, chief architect of the Dominion Govern-ment, secured the necessary particulars to permit of the preparation of plans for the new Immigration Hall.— C. W. Murray, Secretary School Board, desires tenders by 11th inst. for supply of slate blackboards.—It has been decided to have plans prepared at once for the new building to be erected by the Liberal Club.—Alexander, Grant & Simmers re-port the sale of 120 feet of land on Ellice

port the sale of 120 feet of land on Ellice avenue, opposite Manitoba College, on

which an apartment block will be built.— Plans have been prepared and tenders will be invited immediately for a six-storey

will be invited immediately for a six-storey brick and stone building, 50x120 feet, to be built on Main street for the Scott Furniture Co.—H. S. Griffith, architect, is taking tenders up to 12th inst, for stone foundation undert: B Bank Hotel on McDermott avenue for J. MacDorald.

TORONTO, ONT.—Geo. W. Gouin-lock, architect, Temple Building, is preparing plans for a residence to be erected on Dovercourt Road for James Phillips, Esq., also for a residence on Bedford Road and for banking premises

## SIMPLICITY OF DESIGN

#### THE SMITH CONCRETE MIXER

Leads easily in simplicity of design. Couple this feature with the Large Capacity per day of Thoroughly Mixed Concrete and you have an argument that is hard to beat. Made in 42 sizes and styles.

Special types for special work, with capacities up to 350 cu. yds. per day.

W. H. G. Mussen & Go.

## Portland Cements

Highest Grade

Ganadian, German, English and Belgian

DRAIN PIPES and Connections of all kinds. PAVING BRICKS, ENAMELLED BRICKS, FIRE BRICKS, FIRE CLAY, Etc., Etc. 34 34

F. HYDE & CO..

31 Wellington Street

MONTREAL



### LPHA Portland Cement

Quality Unexcelled. The Recognized Standard American Brand.
Always Uniform. Best in the World for Sidewalks. ALPHA PORTLAND CEMENT CO.
anufacturers of but one grade—Strictly Straight Portlan
General Office: ALPHA, N. J. Sole Canadian Sales Agents

HENDERSON & TAYLOR 203 Commissioners Street, MONTREAL

The Steel 'Western Reversible' in addition to being
THE BEST GRADER MADE
is also an
EXCELLENT SNOW PLOW Write for particulars of this and other lines of

HIGH-GRADE ROAD-MAKING

Sawyer & Massey Co., Limited Hamilton, Canada

Please mention the CANADIAN CONTRACT RECORD when corresponding

### ontractors

We have a most complete stock of

For Derricks, Guys, Elevators and Transmission. We cut to any Length.

Full line of Blocks, Clips, Thimbles, Etc. Send for Circular R.

The DOMINION WIRE ROPE CO., Limited, Montreal

Ma

Cons

Co.

supp balla ST

coun

crust Mon

H

Brid

Cana

\$1.5 & W

tract

Garı

V wate

cast

bras

ings

Hov

Vall

pore

Am city

wer

Per For

Bal Ion

wiri

P/ of ad

on Queen Street West for the Home Bank.

—Charles F. Wagner, architect, 28 Toronto street, has just taken tenders on erection of a cottage on Queen street east.

—Pearson & Denion, of this city, have applied for the incorporation of the Nip-Ottawa & Montreal R y, to construct a railway Montreal Railway the eastend of Lake Nipissing to Montreal.

—At a meeting of the Alumni Association of Toronic University, it was stated that the new Convocation Hall, for the erection the new Convocation Hall, for the erection of which \$70,000 is now available, would be proceeded with this spring. Plans have also been drawn for a new laboratory, a three-storey structure with two lecture rooms.—The Separare School Board have abandoned for the present the idea of building a new school in St. Josephs' parish.—W. H. Williams, 18 Adelaide street eart, recently sold four lots on the west side of Dundas street on which a large building will be erected, a factory site of 2½ acres just north of the Dundas street bridges and two lots on south side of B smarck avenue, east of Park road, for immediate building purposes.—The Vokes of B smarck avenue, east of Park road, for immediate building purposes.—The Vokes Hardware Co. have purchased the old Rennie wharf property at foot of Jarvis street. Part of the site will be used as a storage and shipping warehouse and on another portion a foundry will be erected.—The City Engineer has recommended the construction of the following warks: —The City Engineer has recommended the construction of the following works:—Brick pavement, Dundas street, from Bloor street to City limits, cost \$24,745; tar macadam roadway, Follis avenue, from Bathurst street to Palmerston avenue, cost \$3,928; macadam roadway, Earnsbridge Street, from Brock avenue goo feet east, cost \$1,208; Sheridan avenue, from Dudnas street to College street, cost \$3,628. Asphalt pavements: Cottingham street, from Rathnally avenue to Poplar Plains Road, cost \$4,036; Shannon street, from Ossington avenue to Dovercourt from Ossington avenue to Dovercourt Road, cost \$5,873; Palmerston avenue, from CollegeStreet to Bloor, cost \$26,039; Rathnally avenue, from Macpherson from Collegestreet to Biotic, Cost 323,0397, Rathnally avenue, from Macpherson avenue, 760 feet north, cost \$5,241; Sea-forth avenue, from Brock avenue, 298 feet west, \$1,588; Macpherson and Rathnally avenues, from the north side of Macpheravenues, from the north side of Macpherson avenue, running east to Poplar Plains Road, cost \$4,649. Cement concrete sidewalks: Rathnally avenue, from Macpherson avenue 826 feet north, five feet, cost \$823; Rusholm Road, from Hepbourne 452 feet south of Dewson, five feet, cost, \$1,539; Palmerston avenue, from College to Bloor, six feet, cost, \$3,737; King street, from Simcoe 654 feet east of John, (except 60 feet opposite feet east of John, (except 60 feet opposite Pure Gold Manufacturing Co.,) eight feet

cost \$1,537; Essex, from Christie 643 feet west, four feet, cost \$882; Muiual, from Gerrard to Gould, five feet, cost \$941; Gerrard to Goold, five teet, cost \$941; Verral avenue, Natalie 190 feet south, tour feet, \$280; St. Fatrick, from Denison to to Casmir, six feet, cost \$463; Niagara, King to Queen, five feet, cost \$1,240; Dupont, Davenport to Huron, five feet, cost \$669; Kendail avenue, Caste to Bernard, five feet, cost \$5,005; Shuter, from Jarvis to George, five feet, cost \$251; Curvicy five feet, cost \$650; Last feet Cunningham, from Brock 297 11-12 feet west, four feet, cost \$438; Triller avenue, west, four feet, cost \$438; Triller avenue, from Queen to Harvard, five feet, cost \$536; Triller avenue, from Queen to Harvard, five feet, cost \$98; Sherbourne, from a point \$1-7-12 feet south of Queen to Duchess, cost \$386; Wilton avenue, from Sumach to River street, cost \$749; Foxely street, from Dundas to Dovercourt, cost, \$1.472.—E. J. Lennox, architect, has detailed plans for the power house of the Electrical development. Company nearly Electrical development Company nearly completed, and tenders for the work may be invited this month.—James McDoug-all, C. E, has made surveys for the power dam and tunnel to be constructed at Erindale, Peel County, by Joseph Barrett for the purpose of developing electric power. The estimated cost is Barrett for the purpose of developing electric power. The estimated cost is \$150,000.—The Board of Governors of the Western Hospital are completing arrangements for the purchase of the necessary property on Bathurst street for the erection of a large addition to their building. It is hoped to commence the work this summer. —Dr. Barrick has work this summer. - Dr. Barrick has requested the City Council to apply for legislation permitting an expenditure of

\$50,000 for establishing a local sanitarium for tuberculosis patients. - Tenders for pumping machinery and boilers for the waterworks system at Lethbridge, N.W.T., will be received up to March 31st. Specifications may be obtained from Willis Chipman, Chief Engineer, from Willis Chipman, Chief Engineer, 103 Bay street, this city.—The following building permits have been granted:—Frank Hillock, two-storey and attic brick dwelling. S mpson svenue, near Broadview, cost \$2,200; Thomas McIlwain, two-storey brick and stone dwelling, 75 Sorauren avenue, cost \$2,500; Mrs. Barrett, four 'hree-storey brick stores and dwellings, Queen street east, near Saulter, cost \$9,000; Fred George, three-storey dwellings, Queen street east, near Sauter, cost \$9,000; Fred George, three storey brick dwelling, MacKerzie Crescent, near Dovercourt Road, cost \$1,900; A. Davidge and B. Pear, pair two-storey brick dwellings, Pears ave, near Avenue Road, cost \$2,200.

#### CONTRACTS AWARDED.

WINNIPEG. MAN, — Six-storey building for Royal Furniture Co.: Archi-tect, D. Smith; contractors, Manitoba

#### 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 ERECTION.
Expert examination and reports, chemical analyses and physical tests of all kinds.

Cement Testing.

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

Large Stock I BEAMS, CHANNELS, ANGLES, TEES, ZEES and

### THE LAKEFIELD PORTLAND CEMENT CO., LIMITED

MONARCH BRAND PORTLAND CEMENT

The Recognized Standard Canadian Brand Used by the Dominion Government, large Corporations, and leading Contractors throughout Canada

THE LAKEFIELD PORTLAND CEMENT CO. Limited,

#### THE CREY AND BRUCE PORTLAND CEMENT COMPANY

Snallow Lake, Limited

## HERCULES" PORTLAND GEMENT

Very finely ground. Unsurpassed for Side liks, Floors and all work requiring the ghest Grade of Portland Cement. For prices

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



#### .. SUBSTANTIAL CONTRACTORS ... FURNISH BOXDS OF

The United States Fidelity & Guaranty Co.

KIRKPATRICK & KENNARD, Mgrs. for Canada. 6 COLBORNE STREET, TORONTO, ONT.

### PORTLAND CEMENT, HYDRAULIC LIME, CHINA C E. FREEMAN, 20 Bucklersbury, LONDON, ENG.



Sole Agent for U.K. and Colonies for Oldest Continental Works



Supplying to Contracts on the Principal Railways, Large Sewage and Sea Defence Works, etc., England. Will be Pleased to Quote to the Wholesale Trade Only.

CORRESPONDENCE INVITED FOR CONTROL OF BRANDS

itarium ers for for the bridge. March btained gineer, llowing ned :-

Hwain, s. Bu es and Saulter, -storey escent 00 ; A. -storey Avenue

- storey Arch anitoba TION

TREAL and all S, and

chemical

IMITED

Canada

1, Ont

y de

ONT



Construction Company.--J. L. Neilson & Co. were the successful tenderers for supplying the city with 25 Rodger ballast cars; approximate price, \$30,000

ST. JOHN'S, QUE. — The town council have purchased a Champion stone crusher from T. A. Morrison & Co., of

HAMILTON, ONT.—The Hamilton Bridge Works Co. have secured the contract for structural iron work for the Canadian Westinghouse buildings.

PARRY SOUND, ONT .- The following tenders were received for erection of addition to public school: J. Riddell, \$1,550; George White, \$1,195; Simeon & Wood, \$1,160 (accepted).

CHATHAM, ONT. - A. M. Piper, architect, has just let the contract for a \$7,000 residence for Thomas Smith.—
The Blonde Co. have secured the contract for a \$3,000 residence for Hugh Garrett to be built on Duluth street, and for a thir? storey to the McClary block, King street. King street.

VANCOUVER, B. C .- Tenders for waterworks castings received by the city as follows: N. Thompson & Co., iron castings, 3c; brass castings, 25c per pound. Vancouver Engineering Works, pound. Vancouver Engineering Works, tron castings, \$2.9. per 100 pounds; brass, castings, 25c. per pound; sidewalk plates, 38c. Ross & Howard, 100 cast-ings, \$2.90 per 100 pounds; sidewalk plates, 30. The tender of Ross & plates, 30. The ter Howard was accepted.

MONTREAL, QUE. - The Don Valley Brick Works, of Toronto, have secured the contract for supply of the secured the contract for supply of the porous terra cotta freproofing, also brick, for the new building of the Montreal Amateur Atheletic Association in this city. The other successful contractors were: Masonry, cut stone and brickwork, Percy A. Brown; carpenter work, Thomas Forde; heating and plumbing, James Ballantyne; steel work, Dominion Bridge Co.; painting, glazeng and decorating, Jones & Henry; plastering, J. Lefebvre, roofing, Campbell & Gilday; electric wiring, Colyer & Brock; ornamental iron work, John Wat on & Son. The architect is David R. Brown. Building will be five storeys, 98x127 feet.

#### BIDS

BIDS.

CHATHAM, ONT. — The following tenders were submitted for construction of pavements: — M. Conn, Detroit, asphalt block for Victoria avenue, \$2.47 per square yard; St. Clair street, \$2.48, and Park street, \$2.23. Combined curb and gutter, \$8 cents per foot. If the city of Chatham furnish the blocks, his prices were: Victoria avenue, \$1.03 per square yard, St. Clair street, \$1.04, and Park street \$1.09, D. Brooks & Son, Windsor — Asphalt block, \$2.60 per square yard, and 42 cents per foot, for curb and gutter. Ontario Asphalt Block Co.—Blocks\$1.47 per square yard in measured pavement laid under their supervision. The Dominion Paving Co.—Brick pavements with a seven year guarantee, \$2.20 per square yard, and year guarantee, \$2,20 per square yard, and 50 cents per foot, curb and gutter. Asphalt block, \$2,20 per square yard, 50

ents curb and gutter. Bitulithic Pavement ents curb and gutter. Bitulithic Pavement o., with a seven year guarantee, \$2.19 per square yard and 55 cents curb and gutter. Blight & Fielder—For concrete, toc. per square yard, curb and gutter 58 cents per foot. St. Clair street and Victoria avenue, brick \$2.12 per square yard, 58 cents curb and gutter. Park street, brick, \$2.19 per square yard, 58 cents curb and gutter. Asphalt block. Victoria avenue and St. Clair street, \$2.48 per square yard, curb and gutter 58 cents per foot. These tenders have been submitted to the engineer for a report. neer for a report.

#### Water Washed Sand

SAND & DREDGING, Limited

#### WARREN'S PATENT "BITULITHIC" PAVEMENT

IS THE 20TH CENTURY PAVEMENT FOR CITIES

Has been laid in Montreal, Chatham, London and Glace Bay. It is clean, sanitary, and gives an excellent foothold for horses. Write for particulars and estimates to

THE WARREN BITUMINOUS PAVING CO., LIMITED
Head Office: 164 Bay Street, TORONTO, ONT

#### . . MANUFACTURED AT . . GLENS FALLS, N.Y., U.S.A.

Highest Grade Artificial Portland Cement. Most Finely Ground and Strongest. HAS TEN YEARS RECORD Sold by Canadian Dealers, Montreal, Ottawa

MONTREAL W. A COOK, Representative for Canada, Street Railway Chambers

#### RTLAND CEMENT



SEWER PIPES FIBE BRICKS FIRE CLAY ALEX. BREMNER

50 Bleury Street, MONTREAL

### Surveying

Drawing Instruments

Best English Quality

Manufactured by

A. G. Thornton Manchester, Eng.

Surveyors' and Engineers' Supplies

Write Us For Catalogue and Prices & & &

C. H. MORTIMER PUBLISHING CO.

of Toronto, Limited AGENTS FOR CANADA

Confederation Life Bidg., TORONTO Imperial Building, MONTREAL

### PORTLAND CEMENT



T. M. Morgan

CRESCENT® DIAMOND BRANDS AS GOOD AS THE BEST FOR ANY PURPOSE

Office and Works: Longue Point, MONTREAL, QUE. Long Distance Phone E. 436 Ring 2.

Concrete Mixers and Concrete Mixing Machinery

E. F. Dartnell, Agent, Montreal

The !

"SA

1

308

Roof

COR

The

Ste

9 M

Dr

of '

Hor

Plan

#### NEW COMPANIES.

Suburban Tramway & Power Co., seeking incorporation, to develop water powers and build electric railways. Applicants, Paul Galibert, manufacturer, Montreal, Erin Weil, merchant, New York, and others.

Okotoks & High River Lumbering & Okolosk & Figh River Lumbering Developing Co., Limited, seeking incorporation, to carry on a lumbering and mining business at Okotoks and High River, in district of Alberta, N.W.T.

Ludlam-Ainslie Lumber Co., Limited,

Leamington, Ont., incorporated, capital \$50,000. Arthur Ludlam, James Ainslie, \$50,000. Arth Robert Bennie.

Stayner Light & Power Co., Limited, Stayner, Ont., incorporated, capital \$40,000. Joseph S. Knox, Michael Gartlan, S. L. Devlin, D. G. Bell, W. A. Doner.

Columbia Shoe Dressing Co. of Canada, Montreal, incorporated. Wm. Starke, C. E. Slater, C. H. Martin, S. H. Duncan, I. L. Hopkins.

J. A. Hurteau & Cie, Limited, Montreal, incorporated, capital \$50,000, to manufacture and deal in pianos, organs and all kinds of musical instruments.

kinds of musical instruments.

Union Manufacturing & Trading Co., Limited, Rockland, Ont., incorporated, capital \$100,000, to manufacture and deal in lime, cement, mycenian marble and other building materials and to operate mills, furnaces, kilns, etc. Incorporators, R. C. Wilson, engineer, John G. Wilson, N. F. Wilson, all of township of Cumberland; J. A. Cameron, lumberman, of Rockland, and G.C. Edwards, lumberman, of Ottawa. of Ottawa.

of Ottawa.

The Canadian Engineering Company,
Limited, Montreal, incorporated, capital
\$10,000, to manufacture engines, boilers,
electrical apparatus, etc. Incorporators,
W. J. Henderson, accountant; George E.
Clarke, clerk; W. G. Mitchell and A. W.
G. McAllister, advocates, and G. H
Boivin, law student, all of Montreal.

Bovin, law student, all of Montreal.
Quebec Electric Co., seeking incorporation, to install an hydraulic electric plant on the St. Fereol Seven Falls, in county of Montmorency, and to build an electric railway from Seven Falls to Quebec. Applicants, A. R. McDonald, broker; Thomas Miner, manufacturer; chas. Bergevin, gentleman, of Quebec, and others.

#### Speight & Van Nostrand LAND SURVEYORS, ETC.

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

#### **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. TOR

### THE ONTARIO ASPHALT BLOCK CO., L'T'D.

#### ASPHALT BLOCK PAVING

Main Office : WINDSOR, ONT.

Works : WALKERVILLE ONT

### 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.

WRITE FOR ESTIMATES.

### Dominion **Bridge** Co., Ltd.

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

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

Toronto Agent: GEO. B. EVANS, 38 Canada Life Bldg., TORONTO, ONT

### Yanadian Casualty and Boiler Insurance Co.

Head Office: N.E.Cor. Adelaide and Victoria Streets, TORONTO.

The Steam Boilers of Civic and Municipal Steam Plants, and Corporation and Public Works, Power and Electric Light Plants regularly inspected.

A STEAM BOILER POLICY
in the Canadian Casualty and Boiler Insurance Company, includes the
services of Consulting Engineers free of cost. Write for book to Steam Users.

ALEXANDER SUTHERLAND, D.D., President. H. N. BATE W. S. DINNICK, Vice-Presidents

A. G. C. DINNICK, Managing Director A M. WICKENS, Chief Engineer

### F. WENTZ ENGINEERING

Consulting Engineers and Cement Work Specialists

Designing Cement Plants, Specifications and Esumates.

Superintendence of Construction.

Inspection and Reports of Cement Material and Properties.

Analysis and Tests of Raw Material and Cement.

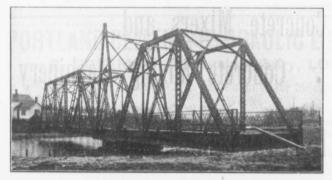
Designed and constructed 24 CEMENT PLANTS in United States and Canada. 20 YEARS PRACTICAL EXPERIENCE designing, constructing and operating cement works

CEMENT PROPERTIES FOR SALE.

For further information address— ROBERT F. WENTZ, M.W.S.E. PRES'T

OFFICES: 12-15 Babp's Blook, - - NAZARETH. PA. 1U.S.A. TORONTO, ONT. CAN.

#### The Hamilton Bridge Works Company, Limited HAMILTON, CANADA



### **CENERAL STEEL** CONTRACTORS

#### HIGHWAY BRIDGES A SPECIALTY

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

Established 1808 The Hanover Portland Cement Co., L'td

Hanover, Ontario. Manufacturers of the Celebrated

'SAUGEEN" Brand PORTLAND GEMENT

Prices on application

#### **Paving Granite**

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

Address all communications to

JOS. BRUNET - GOTE DES NEIGES, MONTREAL

TUNNEL CITY BRIDGE & IRON WORKS

Steel Bridges and Structural Work.
Works: Port Huron, Mich., and Sarnia, Ont.

HICHWAY BRIDGES

Roofs, Steel Buildings and Structural Iron Work of all Descriptions.

### ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work and prices before letting contracts The Silica Barutic Stone Gompany of Ontario, Limited.

WALTER MILLS General Manager

Head Office : INGERSOLL, ONT

Road Machinery Fire Applian Fire Appliances Contractor's Plant Stone Grushers, all sizes . Steam Road Rollers Road Graders Steam and Gasoline Fire Engines,

T. A. MORRISON & CO.

9 Mechanics' Bldg.

MONTREAL

#### M. BEATTY & SONS WELLAND, ONT.

Dredges, Ditchers, Derricks and Steam Shovels

of various styles and sizes to sult any work.

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

#### 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.

Manufacture "RATHBUN'S STAR"

The Leading Canadian Portland Cement.

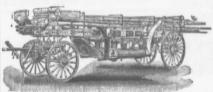
Gapacity of Works: 500,000 Barrels Per Year.

SALES AGENTS The RATHBUN CO.
310-312 Front Street West, TORONTO, ONT.

St. Lawrence Portland Cement Co. 202-203 Board of Trade Building, MONTREAL.

### LIGHTNESS, STRENGTH AND ECONOMY

Patent Trussed Ladders, Trussed Aerial, City Service and Village dder Trucks, Combination Hook and Ladder Trucks and Chemical Engines, Trussed Trucks and Hand Pumps, Com-



and Hand Pumps, Combination Hose Wagons and Chemical Engines, 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.

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

Long Distance Phones 686 and 584 W. E. SEAGRAVE, WALKERVILLE

### Fire Apparatus

Road Machinery

FIRE ENGINES in five sizes, with a full line of firefighting goods

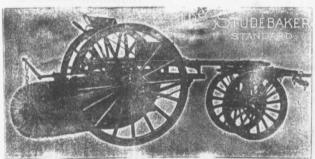
We Rebuild other makes of Fire Engines with our patent Boiler.

#### BRANTFORD PITTS DOUBLE ENGINE STEAM ROAD ROLLER

IN THREE 81ZES-10, 12 and 15 ton. CORRESPONDENCE SOLICITED.

WATEROUS, Brantford, Canada

Hugh Cameron & Co., Selling Agents, 16 East Queen Street, Toronto





#### Studebaker Sprinkler

Does not clog or get out of order. Greatest width of spra v Can be graded from driver's seat to any volume.

Iron

T'D.

1ers Brs,

nd

0.

O, ONT

Director

ts

nada. erating

RES'T S.A. ited

ORS

NNELS.

Mar

CO

Ro C

CONS

JA1

Exan

Cor

80 ST

RA

LO

FI

THE

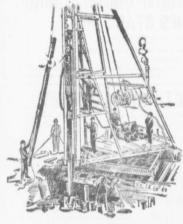
## The Canadian Bridge Co., Limited

WALKERVILLE, ONT.

MANUFACTURERS OF

### RAILWAY AND HIGHWAY BRIDGES

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



Portable Boilers **Hoisting Engines** Pumping Machinery

TOLET

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

WM. HOOD & SON

10 Richmond Sq. MONTREAL THE DELANO-OSBORN ENGINEERING CO., LIMITED

MANNING CHAMBERS TORONTO

CONSULTING, CIVIL, MECHANICAL AND ELECTRICAL ENGINEERS.

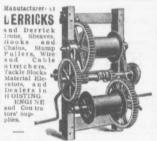
ALWAYS IN STOCK

Syracuse Smelting Works, montreal, P.Q.

Notice to Contractors.

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

HOISTING AND BUILDING ENGINES.



National Hoist & Machine Co.

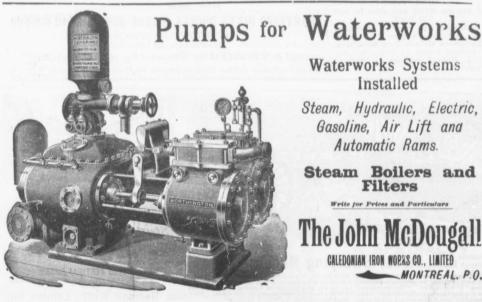


and Foundation Work

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

BUILDING MOVER AND WRECKER General Contracting.

JNO. E. RUSSELL, - Toronto 908 Queen St. E - Phone M. 2007.



Waterworks Systems Installed

Steam, Hydraulic, Electric, Gasoline, Air Lift and Automatic Rams.

Steam Boilers and **Filters** 

The John McDougall

CALEDONIAN IRON WORKS CO., LIMITED MONTREAL, P.O. , 1904

ed

lging.

VRECKER

Toronto

ns

ctric.

and

AL. P.O.

ind

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.

#### CONSULTING ENGINEER

Waterworks, Sewerage and Sewage Dispo Municipal Improvements, Granolithic Pavements.

Canada Life Building

TORONTO

#### Roderick J. Parke CONSULTING ENGINEER

Hydraulic Power Development. Long Distanc Power Transmission. Steam Plants, Electric Lighting and Power Systems. Tests Valuations. Reports.

51-53 Janes Building, Cor. TORONTO, CANADA King and Yonge Streets

Telephones { Office-Long Distance Main 3047 Residence-Long Distance North 2204 Telegraphic address: "Rodparke." W. U. Code, Univ. Edition.

## WILLIAM H. BREITHAUPT, GE.

CONSULTING STRUCTURAL ENGINEER

Foundations, Bridges, Buildings.

BERLIN, ONT.

#### JAMES C. KENNEDY,

MEM. CAN. SOC. C. E

### Civil and Hydraulic Engineer

Examinations, Reports, Plans, Estimates, Supervision of Construction of Water Powers, Waterworks, Sewerage, etc.

P. O. Box 131, HAWKESBURY, ONT., and 877 Dorchester Street, MONTREAL, QUE.

#### ROSS & HOLGATE

#### Consulting and Supervising Engineers

aterworks, Electric Light and Power lants. Structural Work, Reports, stimates, Arbitrations.

80 ST. FRANCOIS XAVIER ST. - MONTREAL

RAILS For Contractors, Switches, Girders, &c.
New and Second Hand

### LOCOMOTIVES & CARS

John J. Gartshore

(Opposite Queen's Hotel.) TOR ONTO

#### FIREMEN'S LADDERS

-AND-

#### LADDER TRUCKS

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

THE WAGGONER LADDER CO. Limited

#### John H. Jackson CIVIL ENCINEER

WATER POWER, ELECTRIC RAIL-

WAYS, STRUCTURAL STEEL.

Niagara Falls, Canada

Associated with Charles H. Mitchell, C. E., Hydraulic Engineer.

#### CHARLES BRANDEIS

#### CONSULTING ENGINEER

### BRAND" PORTLAND GEMENT

You will surely admit that the best is none too good, and if you are requiring Cement give "IMPERIAL BRAND" a trial. We guarantee our product and can ship a quantity at once. Write for prices, etc., to

The Imperial Cement Company, Limited OWEN SOUND, ONT.



### Sewers, Culverts and Water Pipes

Inverts for Brick Severs

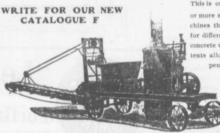
WRITE FOR DISCOUNTS

St. JOHNS, P.Q.

HAMILTON, ONT.

TORONTO, ONT.

#### The Yet Greatest Concrete Mixer Made



or more styles of ma chines that we make for different kinds of concrete work. 10 patents allowed, others pending

### DRAKE STANDARD MACHINE WORKS

Faciory, Office and Salestoem, 298-300-302 W. Jackson Boul.
Chicago, Ill., U. S. A.
Eastern Agent. Walter S, King, 27 St. John's Place, Brooklyn, N. Y.

Please mention THE CONTRACT RECORD when corresponding with advertisers

### McKELVEY CONCRETE MIXERS

MANUFACTURED W. A. MCKELVEY, McKinnon Building.



either continuously or in batches, and can be operated either by Hand, Steam or Gasoline Power.

#### INAUGURAL ADDRESS

The following inaugural address was given by Captain Gamble, president of the the Engineers' Club of Toronto, on Thursday evening, February 25th:

Gentlemen,-I feel much diffidence in occupying the position I do this evening, and, as I consider our membership, I feel how high an honour you have conterred upon me, one in no wise eminent professionally, and wanting too, I fear, in that galvanic force of attraction that often places comparatively unworthy persons in prominent positions.

All that I can say for myself is that I have had the interests of the Club at heart since its opening, and I hope that while I occupy the chair those interests will be furthered so that our rooms may become a more pleasant rendezvous for our members, and may offer scientific attractions to lead others of our profession to desire to be identified with us.

Chiefly owing to the assiduity of our untiring Secretary our Club is prosperous and shows a slightly increased membership; financially we are, if not affluent, at least in easy circumstances.

Many works of great scientific importance are occupying the attention of the profession throughout the world. Here it is proposed to construct a new line of railway from the Atlantic to the Pacific to open up the more northern portion of the country, and to encourage the settlement of vast portions of fertile land hitherto lying unoccupied, and also to facilitate the development of the many natural resources of the Dominion.

The completion of the British Pacific Cable from Vancouver to Australia has made it possible for the first time to girdle the world astronomically; and the various cable stations, which can now be located with great accuracy, will be of immense service to the Admiralty in their hydrographic surveys. This work, which forms another link binding the various portions of the Empire together, has, I am happy to say, been undertaken by the Canadian Government, and foremost amongst the names of those employed on the work are to be found those of Sir Sanford Fleming and Mr. Otto J. Klotz, men well known and highly esteemed amongst us.

The construction of a transisthmian canal will probably soon be "un fait accompli" owing to the indomitable energy and unabashed perseverance of our neighbors to the south.

In latter days so many questions have arisen regarding international boundaries and such great difficulties have occurred in defining them, owing to culpable indifference in the past, that I feel the definition of our northern limits should not be lost sight of. A bountiful Creator has bestowed many blessings on the Dominion, and remembering this with gratitude, we should seek by every means in our power to hold fast those territories that have been committed to us in trust.

I thank you sincerely, gentlemen, for the honour you have done me in electing me President of this Club.

O. Deguise and Octave Lemay have registered the business of Deguise & Lemay, contractors, Montreal.

The city quarry of Winnipeg was operated at a loss during 1903, and as a result the price of crushed stone was recently advanced from \$1.10 to \$1.25 per vard. The total expenditure was \$59,655.67, while the earnings were \$56,313.22. The loss was \$3,492.34. This was caused by the lateness of the season, which prevented the quarry's opening until a month later than usual, while the shortage of cars also caused the new machinery to run at a loss. During the season 2,488 cars were shipped

at a cost of \$56,313.22, while in 1902 the cost aggregated \$77,259.10. The cost of stone was set at \$1.10 per yard in 1898 and since that time the laborer's wages have increased five cents per hour, while other expenditure has also increased.

### 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.

## .. Manufactured at.

the Highest Grade Artificial Portland Cement and the Best-for High ass 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

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

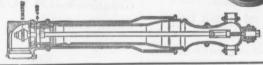
### ERR ENGINE COMPAN

HYDRANTS and VALVES

Are our Specialty

Don't fail to write us for Catalogue and prices

WALKERVILLE, ONTARIO





## "Lehigh Portland Ceme

Capacity 11,000 Barrels every Day in the Year.

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.

### Portland Cement..

Write or Telegraph to BELLHOUSE, DILLON & CO.

201-203 Coristine Building, St. Nicholas Str et Montreal

for prices...Large stock constantly

igest M abers in the World.

on hand.

Flange

TH

Mar

Speci

Wate

1904 oz the cost of n 1898 wages while

M.E. PERT

ronto

ed at.

PELL

TREAL

ients

ontreal

11160

and

CO. Montreal

tantly

The Successor to the Pick and Shovel



# Beaver Post Hole Digger

The pick and shovel combined in one, and results equally good with loose soil, clay or gravel.

Will pay for itself in one day and last a life-time.

## DA FOUNDRY COMPANY, LIMITED

Head Office and Works: TORONTO, ONT.

District Offices: MONTREAL

HALIFAX

OTTAWA

WINNIPEG

VANCOUVER

VICTORIA

ROSSLAND

JAMES T. McCALL. Montreal Pipe Foundry Co., Limited Valve Boxes CAST IRON PIPE general Hydrants Works & Combined daily capacity Works at: { LACHINE, QUE. THREE RIVERS, QUE LONDONDERRY, N. S. 175 Tons Pipes and Castings. HEAD OFFICE CANADA LIFE BUILDING, MONTREAL

ALEX. GARTSHORE, President. J. G. ALLAN, Secretary and Treasurer.

THE CARTSHORE-THOMSON PIPE & FOUNDRY CO.

Manufacturers of:::

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

CAST IRON PIP

inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

MAMILTON, ONT.

#### THE GOOD ROADS MACHINERY COMPANY, LIMITED 144 York St., HAMILTON, CANADA

THE REVERSIBLE STEEL

### "Champion

Is the KING OF GRADERS.

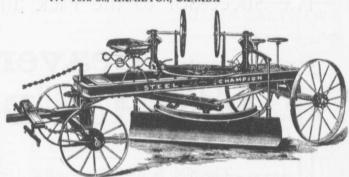
SIMPLE, STRONG AND DURABLE

-READ-

— READ—
One Record of a Thousand:
Magog, Que., Aug. 21, 1903.
Good Roads Machinery Co.,
Hamilton, Ont.
GENTLEMEN — Our Steel CHAMPION
is giving very good satisfaction; requires
very little repairs though often used with
six heavy horses on our rough and
stoney roads.

L. A. AUDET, Secty-Treas,

AGENCIES — The Waterous Engine Works Co., Vancouver, B.C., and Winnipeg, Men; T.A. Morrisson, Montreal, og St. james St.; J. Clark & Son, Fredenton, N. B.; G. A. Lounsburg Co., Newcastle, N.B.; Bligh & Prince, Trur., N.S.



#### Prices of Building Materials.

PRESSED BRICK, Per M.

MILTON P	RESSED	BRICK	AND SEWER	PIPE CO.
			F.O.B. Milton, Ont	F.O.B Montreal
Red No. 1				\$18 00
	******			16 00
				14 00
Buff No. 1				20 00
	******			18 50
Brown				25 50
Reman Red.			TS a	30 50
D.,#			8.55 9	22.50

Buff 1	No.	1					. ,								_	OFF	20 00
**		2													-	200	18 50
Brown	n															900	25 50
Rema	an R	ed.														TSe	30 50
	В	uff.												٠.		*E 5	33 50
11	В	rowi	n.										ŀ			N 60	40 50
Hard	Bui	ldin	g.													8 4 D	13 00
	Sev	vers.										į.				ta Cica	12 00
	Bac	king	ζ.,		٠.				. ,							E 68	11 50
	D	ON 1	r A	LI	æ	v	p)	p	E	S	SI	ĸ	D	В	R	ICK WORKS.	
Man				1		4	r						1	b.	1	ks	0 3
TAOR	1, 2	and	3		n c	u D.	-	*			5	N.	ľ		-1	M3	500

Nos 1, 2 and 3, Red Pressed Bricks Nos. 1 and 2 Buff Press Brick No. 2 Brown Pressed Brick Pompeian Red, Buff and Brown Pressed Bricks Ornamental Bricks of all kinds for Mantel pur-	Toronto,
Ornamental Dricks of all kinds for Mantel purposes. Porous Terra Cotta Fireproofing of all Descriptions. Vitrified Street-Paving Bricks. Semi-Vitrified Foundation Bricks.	nto St.,
Semi-Virined Foundation Bricks Common Stock Red and Grey Bricks Sewer Bricks Stone for Macadamized Roadways	Please v

TORONTO PRIMORD MINEL	F.O.B. Milton, Ont.	F.O.B.
Red No. 1		18 00
11 2		16 00
" 3		14 00
Buff No. 1	15 00	20 00
11 2	13 00	18 50
Brown	20 00	25 50
Roman Red	30 00	30 50
" Buff	30 00	33 50
Brown	35 00	40 50
Hard Building	6 50	13 00
" Sewers	6 50	12 00
" Backing	6 00	11 50
Moulded and Ornamental f	rom \$2.00 to \$5.	oo per 1co.
Terra Cotta String Courses \$2.00 per ft. run.		
Roofing Tiles, \$20.00 per 1,	000, \$23.00 Mon	trea.

	Tiles,			1,000	, \$23.0	o Mont	rea.
ВВ	AMSVI	LLE	BRICK	AND	TERRA	COTTA	co.

Bea	.O.B. msville.	F.O.B. Montreal.
Red Peerless Facing	\$15 00	\$20 50
" No.1	13 00	18 50
" No. 2	11 00	16 50
" No. 3	8 50	14 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		20 50
Moulded and Ornamental B ich	from \$2 to	Sio per C
Roman Red (Size 12 x 4 x 1 % in.).	28 : 0	33 50
" Buff " "	28 00	33 50
" Brown " "	34 00	39 50
Vitrified Paving Brick No. 1	18 00	23 50
11 11 No. 9	15 00	20 50
Sewer		13 00
Rocfing Tile		26 00
FIRE BRI	n wer	

FIRE B.	REA C	/AL				
TORONTO POTTERY CO.	F	, 0	. B. Te	огот	ito	
Boyd W. W. Co. Savage Crown	24	00 50 50	M. M.	26 28	10 50 00	M
STON		To	ronto.	Mo	ntr	ea
Common Rub) le. per toise,						

### W. & F. P. CURRIE & CO.

345 St. James St., Montreal

Importers of

SEWER PIPES.

CULVERT PIPES, ETC. VENT LININGS, FLUE COVERS,

> FIRE BRICKS, FIRE CLAY,

WHITING.



#### PORTLAND CEMENTS.

HIGH GRADE ENGLISH

" GERMAN BELGIAN

PLASTER OF PAR BORAX,

CHINA CLAY.

	Toronto, Montreal.
Amherst Red Sandstone	
Amherst, N C , per cub. ft Sackvill N B brown or	85 70
red sto e f. o. b. Quarries	45 45
anstead granite paving	30 00
blocks. 8 in, 10 12 in. x6 in.	
% in. per M	50 00
te curbing stone, 6x	
in. per lineal foot	90
ouche Olive Freestone	85 65
e Sandstone (Indian- wn, N. B)	80 70
vn Sandstone (Sack-	, , , , , , , , , , , , , , , , , , ,
le, N. B	80 70
red sandstone, per	
ft	60
Pasture buff stone	***
cu. ft Scotia blue grey, per cu	65
ers, 6 to 8 in. bed, f.	
St. Mary's, per cord	7 00
ig, 6 to 10 in. wide,	per
ic foot	15
nsion Stone, f. o. b.	St.
ary's, per cubic foot tite (Laurentian Pink) A	ab 35
,6 to 2 in., rise 9 in., per	oft. 25
ension Stock Granite, (I.	aur-
tian Pink) for building	pur-
ses,per c. ft., f.o.b. quari	
, for polishing purposes,	up
2 tons weight, per cubic f	oot 70
	F.O.B. Halitax
nension stock granite	for
ding purposes, per cu	. ft. 50
or polishing purposes,	up
tons weight, per cubic	
ng sets, per thousand ble	ock 60 00
CREDIT VALLEY	STONE.
	F.O.B. Quarries.
	Quartion.

39 50	Paving sets, per thousand block	60 0
23 50	The second second second	
20 50	CREDIT VALLEY STONE.	
13 00	PAR	Quarries
26 00		Quarries
	Rubble, per ton	6
	Brown Coursing, up to 10 per	18
ito	sup. yard Brown dimension, per cub.	
ess	Grey coursi g, per sup. yard	1 2
no M su M	Grey dimension, per cub. ft	5
00 M.	ROMAN STONE. F. O. B. Fa	ctory.
	Sills, per lineal foot	
ntreal	Hollow Block, 12-inch wall, per	
	superficial foot	
11 00	Window Heads and Ashlar, per	
	superficial foot, 4-inch bed	4
18 00	String Courses, Molded and	
50	Ornamental, per lineal foot,	
	50c. to	2 0
+5	Chimney Caps, \$2 to	5 9

SLATE.		cronto.		
Rorang (W square).	1	cronto.	mon	rear
red		20 00		
ourple		9 00		10 00
unfading green		10 (0		II oc
plack		000		9 00
Tena Cotta Tile, per sq Orramental Black Slate Roofi	ng	88,00		25 oc
PORTLAND	OER	ENT.		
English-		ronto.	Mont	real.
Brook's Shoobridge Ancho Excelsior Brand			2 00	
Belgian				
"Castle" Brand			2 10	2 15
" Iosson" Brand	2 60	2 70	2 30	2 40
		2 50	3 10	
"White Cross"	2 35		2 00	3110
Atlas	2 25	2 20	1 85	2/1/0
Atlas	- 43	- 33	1 80	2 35
			. 00	1 95
Waterloo " Raevel's 396 lb. bbl Levie s., " White Star.				2 25
Raevel's 396 lb. bbl				2 55
Levie 8., "				2 50
	2 25	2 55	1 90	2 00
German—				
Offencacher Brand	2 80		2 30	2 45
Dyckerhoff	2 60	2 70	2 40	2 50
Karlstadt		2 90	2 40	2 50
Cannon	2 40	2 90	240	2 50
Heidelberg	2 30			
Canadiar -	- 30	-		
Rathbun's Star	1 00	2 10	2 40	
Ensign "	1 70	I 90	2 40	. 50
Ensign "		2 00	200	2 00
Trowel '			1 75	
Samson Brand		2 05	1117	
Magnet '	1	1 80		-
Monarch " Hercules "		2 00		2 30
Lion Brand		1 75		
Imperial		1 8o		
Cresent 375 lbs. gross	2 30		1 95	2 05
Diamond350 ,, ,,	2 20	2 30	1 85	1 95
American—				-
Alpha Brand	180			2 50
Alsen's	2 40	2 00		2 35
Alsen's Lenigh, in bbls., 375 lbs.		2 00		2 50
cotton sacks, 250 net		2 20		250
	10.00	2 10		2 35
Keene's Superfine "Whites' Keene's Coarse "Whites"		7 00	9 00	5 00
Fire Bricks, Newcastle, per M	27 00	32 00	18 00	22 00
" Scotch "	28 00	33 00	10 00	23 00
Plaster, Calcined, N. B	200	2 00	7	2 00
II II N C		2 00	1 85	