

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF THE INTERESTS OF THE
PUBLIC WORKS • TENDERS •
ADVANCE • INFORMATION •
AND MUNICIPAL • PROGRESS

EVERY WEDNESDAY

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. 14

NOVEMBER 11, 1903

No. 39.

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 BUILDINGS, TORONTO.
Telephone Main 2352.

Branch Offices:
Imperial Building, Montreal,
Telephone Main 2299.
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.

FOR SALE.

One Tubular Boiler complete with fittings, etc., 4 feet 6 inches in diameter, by 12 feet long; also two tubular boilers complete, with fittings, etc., 4 feet in diameter by 10 feet long. These boilers are in practically good working condition, and can be seen on application at the Consumers' Gas Company's Works, 269 Front St. East, Toronto.



SAULT STE. MARIE CANAL.

SEALED TENDERS addressed to the undersigned and endorsed "Tenders for Dredging on Sault Ste Marie Canal," will be received at this office until 10 o'clock on the 17TH DAY OF NOVEMBER, 1903, for taking out the shoals in front of the upper channel of the Canal.

Plans and specifications of the work can be seen on and after the 2nd day of November, 1903, at the Office of the Chief Engineer of the Department of Railways and Canals, Ottawa, and also at the Canal Office, Sault Ste Marie, Ontario. Forms of tender can also be obtained at the places named.

In the case of firms there must be attached to the tender the actual signatures of the full name, the nature of the occupation and residence of each member of the same.

The Department does not bind itself to accept the lowest or any tender.

L. K. JONES,
Secretary.

Department of Railways and Canals, Ottawa,
27th October, 1903.

St. Armand & Sigouin, plumbers, Montreal, recently suffered a slight loss by fire.

Building paper is reported to be firmer, the best Anchor and Jubilee brands showing a 2½ cent advance.

E. Cotte and A. Marsan have registered proprietors of the business of Cotte & Marsan, builders, Montreal.

The R. H. Ives Company, of Montreal, have opened a branch office and warehouse at 42 Front street: east, Toronto.

CITY OF REGINA WATER WORKS SYSTEM

Sealed tenders will be received by the undersigned up to MONDAY, THE 30TH DAY OF NOVEMBER 1903, at 8 p. m., for the following sections of work jointly or separately:

1. DAM AND RESERVOIR

Earth Dam 350 feet long on top by 18 feet clear depth at centre, with concrete core wall, waste weir and wing walls.
Clearing and cleaning out bottom and sides of reservoir.

2. WATER SUPPLY CONDUIT

Excavation and laying during the present winter the following 15" vitrified clay pipe which will be furnished by the Corporation: 15,500 lineal feet in cutting varying from 10 to 20 feet deep, including Gate House and Manholes.

3. GRVITATION SUPPLY MAIN

Excavation and laying the cast iron supply main during the present winter or next fall through partly cultivated farmlands to a depth averaging 6½ feet, also brick and concrete receiving basin as follows:—

1500 lineal feet 12" C. I. piping 70 lb. per ft.	
19000	55
14½" Gate Valve with C. I. Boxng.	10
2-10"	30
1 Brick or Concrete Receiving Basin 25 ft. diameter x 15 ft. deep.	

The above cast iron pipes and valves are to be furnished by the corporation to the contractors on the cars at railway depot, but if preferred by any contractors this may be included in the tender.

Contractors will state what difference in price, if any, provided this work was done during the fall 1904 instead of the present winter.

4. DISTRIBUTION STREET MAINS

Excavation and laying the following cast iron piping and valves, hydrants, etc., in trenches averaging 7½ feet deep:

3,000 lineal ft. 10" cast iron pipe 65 lb. per ft.	
12,000 "	45 "
8,000 "	67 "
10 tons of special castings	30 "
36 fire hydrants	
1 10" automatic swinging check valve with chamber	
4 10" gate valves with C.I. boxing	
13 8" "	" "
13 6" "	" "

The above cast iron pipes, special valves and hydrants only to be furnished by the Corporation, but if preferred by any contractor they may be included in the tender.

Important Notice:

All work must be fully completed for use to the satisfaction of the engineer by the end of October, 1904.

Plans and specifications can be seen and tender forms obtained at Regina and at the head office of the Consulting Chief Engineer, JOHN GALT, C.E., M.E., Toronto, Ont.

Bids must be accompanied by certified bank cheque payable to the Corporation of the City of Regina for five per cent. of Tender, which will be retained as security for the proper execution and fulfilment of contract.

The lowest or any tender not necessarily accepted.

JAMES BALFOUR,
Secretary Treasurer, Regina, Assa., N.W.T.

CONTRACTS OPEN.

HUNTINGDON, QUE.—The Presbyterians intend building a new church.

DUNDEE, MAN. — Stewart Cook has invited tenders for erection of school house.

FOREST, ONT. — T. Forbes will receive tenders up to 14th inst. for repair of Shawana drain.

MILDMAY, ONT. — Peter Thomson, of this place, is about to build a saw-mill on the Peninsula.

TRURO, N.S.—The Midland Railway is to be extended from this place to Brule, 30 miles distant.

WALKERVILLE, ONT.—A petition has been presented to council asking that the sewerage system be extended.

NELSON, B.C.—Lammers & Goldrick, who have recently purchased timber lands, purpose building a saw mill here.

WALKERTON, RNT.—The by-law to raise \$5,000 for waterworks improvements was carried by the ratepayers.

OWEN SOUND, ONT.—The Canadian Pacific coal docks north of elevator A will be rebuilt during the coming winter.

VICTORIA, B. C. — The Britannia Power Co., capital \$250,000, has been incorporated by the British Columbia Government.

SMITH'S FALLS, ONT.—Plans are being prepared for a general hospital to be built in this town, to cost about \$20,000.

PRESTON, ONT.—Bids received by C. R. Hanning up to the 12th inst. for purchase of \$3,000 4 per cent. town debentures.

STRATFORD, ONT.—The city will engage an engineer to prepare plans and report upon the cost of a system of storm sewers.

COLLINGWOOD, ONT. — John Wilson, architect, has in hand plans for extensive alterations for the Collingwood Meat Co.

HINTONBURG, ONT.—The Trustee Board of the Methodist Church have completed all details for the building of a new edifice.

CHICOUTIMI, QUE. — The Chicoutimi Pulp Co. have had plans prepared for an addition to their mill and for several houses.

HAILEYBURY, ONT.—Bids will be received by H. McQuarrie up to the 12th inst., for purchase of \$2,500 6 per cent. township debentures.

BURNS, ONT.—John Watson, clerk of Mornington, will receive offers up to December 24th for \$1,680.65 4 per cent. drainage debentures.

BRANDON, MAN.—A project is now on foot to harness the waters of the As-

sinhoine river and utilize the power for manufacturing purposes.

RENFREW, ONT.—The by-laws to purchase the plants of the Renfrew Power Co. and the Renfrew Electric Light Co. were defeated on the 2nd inst.

FORT FRANCES, ONT.—Plans are being prepared for a new Roman Catholic church to be built next spring. Particulars from Rev. Father Allard.

KAMLOOPS, B.C.—A company is being formed to build and operate a telephone system connecting Kamloops, Grand Prairie, Armstrong and Burnham.

NIAGARA FALLS, ONT.—The Niagara Falls Gas Co. have this week taken tenders for furnishing and laying about ten miles of 3 and 4-inch wrought iron gas mains.

NEW WESTMINSTER, B.C.—The Board of Trade have sent a memorial to the Dominion Government requesting that improvements to the Fraser river channel be carried out.

CLINTON, ONT.—H. C. McBride, architect, has completed the plans for the proposed House of Refuge, and they will be submitted to the county council on December 1st.

CALGARY, N.W.T.—A special engineer appointed to investigate the feasibility of bringing electric power from Kananaskis Falls, 55 miles distant, has presented a favorable report.

GLACE BAY, N.S.—The Dominion Coal Co. will shortly commence to take down the old wharves along the harbor front so as to be in readiness for an early start on rebuilding in the spring.

ARNPRIOR, ONT.—J. P. McLaren, architect, of Ottawa, is understood to be preparing plans for additional storey to building on corner of John and Elgin streets for A. T. Budd.

KINGSTON, ONT.—Engineers of the Public Works Department, Ottawa, have been making surveys for an extension of the Rideau Canal so as to tap Desert Lake, a distance of ten miles.—The local capitalists having in hand the proposition to harness the Mississippi Falls are engaged in securing the right of way.

STURGEON FALLS, ONT.—It is proposed to submit a by-law to the rate-payers to raise \$1,000 for the purchase of a site in the township of Springer on which to build a Roman Catholic church.

BROCKVILLE, ONT.—B. Dillon, architect, is asking for tenders up to 6 p.m. of 12th inst. for carpenter and brick work, roofing, metal work, painting and glazing, for erection of foundry building for Cossitt Bros.

KINGSVILLE, ONT.—It is understood that a Montreal engineer has been engaged to prepare plans for extension of waterworks system.—The Brown & Wigle Co. are excavating for proposed addition to their mill.

BRAMPTON, ONT.—T. Blain, town clerk, will receive tenders up to the 16th inst. for construction of a stone wall, 155 feet long and 12 feet high, on Main street, North Brampton. Particulars on application to M. Treadgold.

GRAVENHURST, ONT.—A Toronto architect has prepared plans for the chair factory to be built here by D. Grimston. Factory will consist of two buildings, one 200x40 feet, the other 60x40 feet, both solid brick.

FREDERICTON, N. B.—Mr. Wetmore, provincial engineer, is making surveys for new bridges at Ryan Brook, Sussex district, and at Thorne Brook, Havelock district. Eaniskillen Station bridge in Queen's county is to be rebuilt.

SHAWINIGAN FALLS, QUE.—The Belgo-Canadian Pulp Co. are about to build a paper mill.—Messrs. J. T. Lord,

of Nashua, N. H., and W. E. Clouthier and D. Rop. of Lewiston, Me., representing the Self Closing Bag & Paper Co. recently made an inspection of several sites here with a view to the erection of a large pulp and paper manufacturing plant.

PORTAGE LA PRAIRIE, MAN.—The report of J. T. Fanning, of Minneapolis, on a waterworks system for this town, has just been received.—The Canadian Northern Railway intend to extend their road from Portage la Prairie to Brandon via Carberry.—Knox Church congregation have decided to install a pipe organ, at a cost of \$3,000.

MALLORYTOWN, ONT.—Tenders will be received by John F. Kelly up to 14th inst. for construction of an arch bridge of stone and cement, 20 feet wide with a 20 foot span, either in cut stone laid in cement or a concrete arch, also for building stone and concrete abutments with steel girders and span of 22 feet.

ST. JOHN, N.B.—W. C. McVey is asking for tenders for construction of bottling plant building at Salina, Kings county.—F. Brodie, architect, is preparing plans for heating, lighting and plumbing for the Immigration Department of No. 4 warehouse, Carleton.—Ald. McRae has moved in council that tenders be invited for a one-storey warehouse to be built on the McLeod wharf.

HAMILTON, ONT.—The Bank of Montreal has purchased the building at corner of Barton street and Sherman avenue and will convert it into a branch bank.—The Grand Trunk Railway has agreed to build a \$15,000 bridge across Ferry and Wellington streets.—A. C. Havill is building a brick dwelling on Fullerton avenue, between Barton and Princess streets, to cost \$1,300.—The congregation of St. Paul's Presbyterian church contemplate making extensive improvements to the church and Sunday school building.

VANCOUVER, B.C.—Crowe & Wilson have commenced work on a three-storey brick addition to the James McWhinney Block on Hastings street.—A two-storey and basement block is to be built at corner of Dupont street and Columbia avenue for Lee Shoo Wong and Sam Kee, at an estimated cost of \$26,000.—Robert G. McPherson, M.P., who has just returned from Ottawa, states that the construction of a large dry dock here is assured, and that the cost will be \$500,000. The enterprise is in the hands of a local company, whose bonds will be guaranteed by the Dominion Government.

BRANTFORD, ONT.—The following building permits were recently

issued: William Patterson, Son & Co., extension to bake shop, cost \$3,000; Waterous Engine Works Co., brick boiler room, cost \$1,900; William Buckingham, brick residence, Erie avenue, cost \$1,400; John and Joseph Ham, brick residence, Chatham street, cost \$1,600; William Lake, brick residence, William street, cost \$1,400; Henry Lake, brick residence, William street, cost \$2,200.—The question of building a new school on Oak street is under consideration.

QUEBEC, QUE.—L. E. Taschereau, secretary-treasurer of the corporation, wants tenders by the 20th inst. for construction of waterworks and drains. Plans at office of Lefavre & Taschereau, 48 Peter street.—The proprietor of the Victoria Hotel has commenced work on a brick building on Palace street, to cost \$5,000.—It is reported that negotiations are under way for the erection of a new hospital in this city.—F. D. Wilsey, of New York, and C. E. Taschereau, L. A. Taschereau and Ferdinand Roy, of this city, have been incorporated as the Mill Stream Lumber Co., to construct and operate saw and pulp mills. The head office is to be in this city.

OTTAWA, ONT.—L. K. Jones, secretary Department Railways and Canals, desires bids by 12th inst. for substructure of a swing bridge to be built over the Lachine Canal at Cote St. Paul.—The directors of the Y. M. C. A. have reported that additional accommodation is required.—Building permits have been granted as below: W. D. Morris, brick warehouse, Sparks street, cost \$6,000; Robert McGregor, two brick veneer dwellings, Maria street, cost \$2,000; George Kingsbury, four dwellings, Victoria avenue, cost \$2,500; E. Palen, double brick veneer dwelling, O'Connor street, cost \$3,500; Miss Josephine Olivier, 3 brick veneer dwellings, Sussex street, cost \$3,700.

LONDON, ONT.—A. M. McEvoy, county treasurer, wants offers by Monday, December 7th, for purchase of \$38,000 4 per cent. debentures.—Subscriptions are being taken by All Saints Church, Hamilton Road, with which to build a new rectory.—A new children's aid shelter, 25 x 60 feet, will be erected here.—Matthews & Murray, architects, are calling for tenders for a new office building to be erected on York street for Wortman & Ward, also for alterations and additions to Methodist church at Thorndale.—Moore & Henry, architects, are preparing plans for a cottage for Wm. Davis and a Catholic church to be built at Adelaide, Ont.—H. C. McBride,

THE HANOVER PORTLAND CEMENT CO. LIMITED

HANOVER, ONTARIO.

Manufacturers of the Celebrated

“SAUCEEN BRAND” of Portland Cement

Prices on Application.

THE Canadian 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.

architect, is preparing plans for interior furnishings and furniture for the Scottish Rite Chamber, Masonic Temple building.

MONTREAL, QUE.—The Eugene F. Philips Electrical Works are reported to have purchased property on St. Charles and Sanguine streets, St. Louis, on which to build a factory to cost about \$40,000. — Plans of substructure for swing bridge to be built over the Lachine Canal at Cote St. Paul may be seen at the office of the Superintending Engineer of Quebec Canals, 2 Place d'Armes.—The Canadian Pacific Railway will be asked to build a freight station in St. Henri.—It is reported that Hamilton, Valiquette & Wilder contemplate the erection of a large departmental store on St. Catherine street, between Drummond and Mountain streets. It is also rumored that a palatial hotel will be erected on the property now occupied by the above mentioned firm.—The Harbor Improvement Committee have recommended that granite blocks on concrete foundation be used for paving the wharves where traffic is heavy and scoria blocks where there is only truck traffic.—Building permits have been granted as follows: A. Lafontaine, 3 storey building, Frontenac street, cost \$1,750; N. Leclaire, 3 storey building, Laval avenue, cost \$3,000; N. Gagnon, 3 storey building, St. Denis street, cost \$4,000.

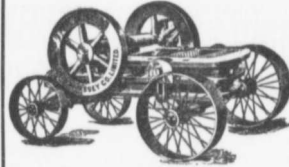
WINNIPEG, MAN.—A. H. Pulford is asking for tenders up to the 13th inst. for erection of brick and stone building on Portage avenue.—Plans have been prepared for a factory to be built on Banatyne avenue by the Lee Electric Insole Co., to be four storeys, 120x35.—Montgomery Bros. are having plans prepared for a large extension to the Winnipeg Hotel on Main street.—Mrs. R. W. Jamieson purposes building another apartment block on McDermott street, west of Adelaide street.—The Winnipeg Street Railway Company have submitted to the city council plans for proposed subway to be built at Portage avenue.—The following works are about to be undertaken by the city: Asphalt pavement on Alexander avenue, from Main to Lily street, cost \$5,900; cedar block pavement on lane west of Victoria street, cost \$456; sewers on Ellice avenue, cost \$678; Magnus avenue, cost \$994; Ross avenue, cost \$1,680; Balmoral Place, cost \$1,924; Derby street, cost \$499; McGee street, cost \$773; Elgin avenue, cost \$1,172; Flora avenue, cost \$1,166; macadam pavement on Nassau street, from McMillan avenue to Pembina road, cost \$3,544; also a number of granolithic sidewalks.—The Watson Mfg. Co. have decided to build a new warehouse at the corner of Logan and Nena streets.—Daniel Smith, architect, has completed plans for two large apartment blocks, one at the corner of Main and Dufferin streets and the other at the corner of Yonge and Notre Dame streets.

TORONTO, ONT.—Dr. Wilson, of College street, has had plans prepared by Chadwick & Beckett, architects, for a residence to be built on Bedford Road.—The Toronto and Niagara Power Co. will receive tenders up to Monday, December 14th, for fencing and gates required along the route of the company's transmission line between Niagara Falls and Toronto. Plans at head office, Home Life Bldg.—The Holmes Electric Protection Co. have purchased the property at No. 5 Jordan street and purpose fitting up the building as their head office.—Ryrie Bros. have purchased the property at 6 to 14 Adelaide street west for the purpose of extending their store premises.—The congregation of the Church of Redeemer intend proceeding at once with the erection of a new church on McCaul street.—W. P. Fraser, secretary of the Ontario Jockey Club, has just taken ten-

ders on earthwork filling in to be done at Woodbine Park this year.—Controller Richardson has announced that he will submit to the Board of Control a scheme to divert the Don straight through Ashbridge Bay and build a channel north of Simcoe Park from the Bay to the Lake. He estimates the cost at \$125,000.—The question of the construction of a trunk sewer will likely be taken up again at a meeting of the Board of Works this week.—The council has given notice of its intention to construct the following works: Tar macadam roadway on Van Horne street, from Dufferin street to Bartlett avenue, cost \$3,430; sewers on Birtle avenue, from Dundas street to the west city limit, cost \$1,360, and on High Park avenue, from Roncesvalles avenue to a point 218 feet east, cost \$475; also cement concrete sidewalks.—Building permits have been granted as follows: G. A. Kelly, brick dwelling, 6 Crescent road, cost \$4,000; W. Read, brick residence, north side of Boustead avenue, near Indian road, cost \$3,000; York County Loan & Savings Co., brick piano factory, Sorauren avenue, cost \$5,500; Toronto Hedding Co., two-storey brick factory, Jefferson avenue, near Liberty street, cost \$20,000; J. G. Ramsay, pair

two-storey stone and brick dwellings, 70 and 72 Rathnally avenue, cost \$4,000; M. Ridler, two storey brick and stone residence, 160 Walmer road, cost \$3,000. Batty Stove and Hardware Company, pair brick and stone dwellings, 510 and 512 Euclid avenue, cost \$4,000; Dr. E.

ROCK CRUSHERS



for Municipalities or Contractors

ELEVATORS AND SCREENS

of all dimensions and capacities built to order.

A full stock of Road Making and Contractors' Supplies.

FREE CATALOGUE.

SAWYER & MASSY CO., LIMITED

Road Machinery Department.
HAMILTON CANADA

Portland Cements

Highest Grade

Canadian, German, English and Belgian

DRAIN PIPES and Connections of all kinds.

PAVING BRICKS, ENAMELLED BRICKS,

FIRE BRICKS, FIRE CLAY, Etc., Etc. * *

F. HYDE & CO.,

31 Wellington Street

MONTREAL



ALPHA Portland Cement

Quality Unexcelled. The Recognized Standard American Brand Always Uniform. Best in the World for Sidewalks.

ALPHA PORTLAND CEMENT CO.

Manufacturers of but one grade—Strictly Straight Portland.

General Office: ALPHA, N. J.

Sole Canadian Sales Agents—

HENDERSON & TAYLOR

203 Commissioners Street, MONTREAL

McGREGOR & McINTYRE, LIMITED,

65 to 73 Pearl Street, Toronto, Ont.

STRUCTURAL IRON WORKS

Fire Escapes, Library Racks, Sidewalk Door, Jail Cells, Iron Stairs, Railings, Etc., Etc.

WRITE FOR ESTIMATES.

Derrick Rope

AND

ROPES FOR EVERY USE

Carried in Stock

SPECIAL DOMINION DURABLE
COMBINATION HEMP & WIRE

The DOMINION WIRE ROPE CO., Montreal

Ralph Hooper, two-storey brick dwelling 405 Bloor street west, cost \$5,000; Mrs. Gordon, brick and stone dwelling, 7 Concord avenue, cost \$1,500.—The City Engineer has recommended the construction of the following works: Asphalt pavements, Macpherson avenue, Avenue road to Rathnally avenue, cost \$3,995; Abbs street, from Brock avenue 296 feet west, cost \$1,398; Lansdowne avenue, from Dundas street to 849 feet south of corner of Dundas street and Lansdowne avenue, cost \$4,680; Rusholme road, from Colledge to Hepbourne, cost \$13,120; asphalt block pavement, Victoria street, south of King street, cost \$2,849; tar macadam, Lewis street, from Queen to Eastern avenue, cost \$5,195; cement concrete sidewalks, Davenport road, north side, from Yonge street 496 feet east of Avenue road, cost \$3,403; La Plante avenue, from Gerrard to Hayter street, cost \$377; Abbs, Brock to a point 299½ feet west, cost \$411; Lansdowne, from 120

feet north of Queen to Graham, cost \$3,345; Front, Jarvis to George, cost \$858; La Plante, Hayter to a point 162½ feet south of Colledge, cost \$315; Macpherson, Avenue road to Rathnally, cost \$673; King, Widmer to a point 39.4 feet east, cost \$35; Marion, Lansdowne to Macdonnell, cost \$44; Lansdowne, Dundas to Shirley, cost \$1,235; Lansdowne, a point 330½ feet south of Dun-

das to a point 539 feet further south, cost \$771; Lansdowne, Dundas to a point 330½ feet south, cost \$618.

CONTRACTS AWARDED.

DUTTON, ONT.—Stave and hoop mill for J. B. Coates: P. McCollum, contractor.

SARNIA, ONT.—Block for Joseph

THE PHOENIX BRIDGE & IRON WORKS, MONTREAL GENERAL STEEL CONTRACTORS

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

R. F. WENTZ ENGINEERING CO. Consulting Engineers and Cement Work Specialists

Designing Cement Plants. Specifications and Estimates. 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 Babb's Block, NAZARETH, PA. U. S. A.
509-510 Manning Chambers, TORONTO, ONT., CAN.

THE CANADIAN SEWER PIPE CO.

MANUFACTURERS OF



FOR

Sewers, Culverts and Water Pipes
Inverts for Brick Sewers

WRITE FOR DISCOUNTS

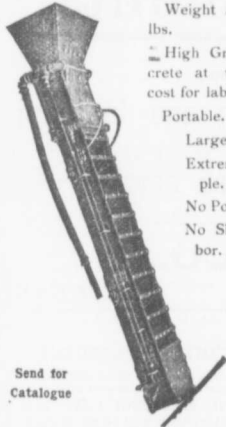
ST. JOHNS, P. Q.

HAMILTON, ONT.

TORONTO, ONT.

The Best Is the Cheapest.

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 Catalogue

E. F. Dartnell
Montreal.

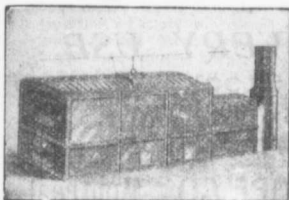
The Canadian Bridge Co., Limited WALKERVILLE, ONT.

MANUFACTURERS OF

RAILWAY AND HIGHWAY BRIDGES

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

PERFECTION STEEL-GLAD AND BRICK SET INCINERATORS



MANUFACTURED BY

Toronto Furnance & Crematory Co., LIMITED

14 and 16 Queen St. East, TORONTO, CANADA

Experts in sanitary disposal of dangerous wastes,

Garbage, Refuse, Night Soil, Dead Animals,

For Cities, Towns, Hospitals, Hotels, Abattoirs, etc.

The plants embody the newest features of modern practice and are constructed to meet the requirements of the smallest towns and the largest cities, capacities ranging from 4 to 100 tons daily. Correspondence invited.

Peterson and Robert Wanless : Stone and brick work, John Forkin.

GUELPH, ONT.—Spring factory for the Guelph Axle Works : Michael Kerpinski, contractor. Building will be brick, one-storey, 100 x 42 feet.

FREDERICTON, N.B. — The Provincial Government have let the contract for roof on large span of the north-west Miramichi bridge to William Brewer, of St. Mary's, and that for substructure of stone and steel bridge at Frenchport Cove, Northumberland county, to C. E. Fish, of Newcastle. The latter has also secured the contract for changing 4000 ft. of highway between Newcastle and Frenchport Cove. The contract for rebuilding the Porten bridge on boundary of York and Carleton counties has been let to L. Fawcett, of Temperance Vale.

TUNNEL CITY BRIDGE & IRON WORKS

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

HIGHWAY BRIDGES

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

ALFRED J. STEVENS

Civil and Mechl. Engineer

Plans and Specifications Construction Supervised

Temple Building, TORONIO, ONT.

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work and prices before letting contracts

The Silica Baritic Stone Company of Ontario, Limited.

WALTER MILLS General Manager. Head Office : INGERSOLL, ONT.

MUNICIPAL SUPPLIES

Complete Stone Crushing Plants, 75, 100 and 300 tons per day, Road Graders, Mud Scrapers, Rock Drills, Steam Road Rollers, Gasoline Fire Engines, etc.

T. A. MORRISON & CO.

204 St. James St. MONTREAL

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.

THE CANADIAN PORTLAND CEMENT COMPANY, LIMITED

Manufacture "RATHBUN'S STAR" Brand

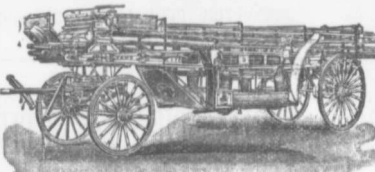
The Leading Canadian Portland Cement.

Capacity of Works : 500,000 Barrels Per Year.

The RATHBUN CO. St. Lawrence Portland Cement Co. 310-32 Front Street West, TORONTO, ONT. 101-102 Board of 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 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.

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

Long Distance Phones 605 and 684 **W. E. SEAGRAVE,** WALKERVILLE ONT.

Fire Apparatus AND Road Machinery

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

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

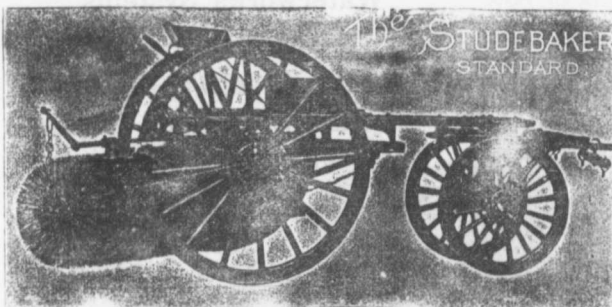
BRANTFORD PITTS DOUBLE ENGINE STEAM ROAD ROLLER

IN THREE SIZES—10, 12 and 16 ton.

CORRESPONDENCE SOLICITED.

WATEROUS, Brantford, Canada

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

BUSINESS NOTES.

Bourbonniere & Lapierre, plumbers, etc., Montreal have dissolved partnership.

A demand of assignment is reported to have been made upon J. S. Cuthbertson & Company, contractors, Montreal.

Edward Terry, who carried on a cement and lime business in Toronto for many years, died on October 19th, in his 65th year.

Oscar Masson and Albert Dubois have registered proprietors of the business of

Masson & Dubois, plumbers and roofers, Lachine, Que.

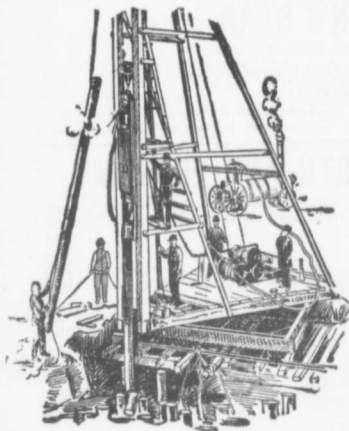
During the month of October building permits to the value of \$128,000 were issued in Vancouver, B. C.

The Manitoba Construction Company, of Winnipeg, have purchased a large quantity of bricks at Grand Forks, N.D., for shipment to Winnipeg.

The Dominion Contractors' Company, Limited, recently incorporated in Montreal, has a capital stock of \$120,000.

The promoters are E. D. Porcheron, J. D. Porcheron, A. Beauchemin, Victor Mongeau and Ernest David.

The Ontario Portland Cement Company, Limited, have their new plant at Brantford, Ont., almost ready for operations. At the annual meeting of the shareholders, held recently, the following officers were elected: President, E. L. Gould; vice-president, W. S. Wisner; managing director, W. G. Elliott; secretary, E. D. Taylor.

**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

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 DELANO-OSBORN
ENGINEERING CO., LIMITED**

MANNING CHAMBERS, TORONTO

**CONSULTING CIVIL, MECHANICAL AND
ELECTRICAL ENGINEERS.**

ALWAYS IN STOCK

PIG LEAD, PIG TIN AND SOLDER

Syracuse Smelting Works, Montreal, P. Q.

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.

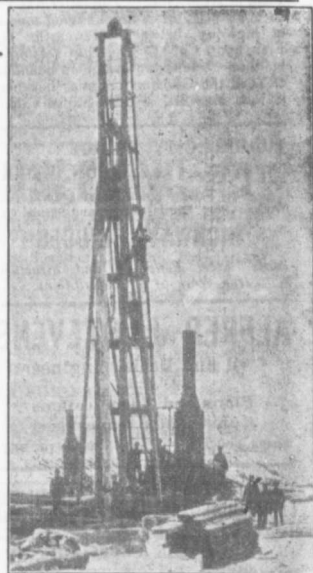
**Pittsburgh Testing Laboratory,
LIMITED**

*Inspecting and Metallurgical
Engineers and Chemists*

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.

146 St. James Street, - Montreal, P. Q.

**PILE DRIVING**

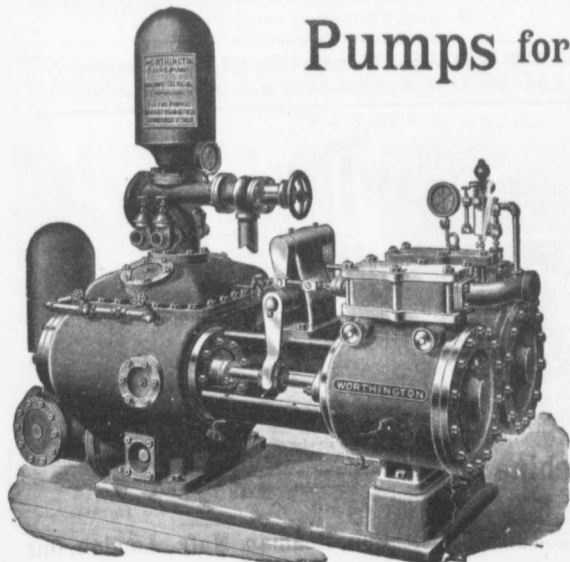
and Foundation Work.

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. 2007.

**Pumps for Waterworks**

**Waterworks Systems
Installed**

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

**Steam Boilers and
Filters**

Write for Prices and Particulars.

The John McDougall

CALEDONIAN IRON WORKS CO., LIMITED

MONTREAL, P. Q.

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

Roderick J. Parke

Am. Can. Soc. C.E., A. M. Amer. Inst. E.E.
CONSULTING ENGINEER
Hydraulic Power Development. Long Distance
Power Transmission. Steam Plants, Electric
Lighting and Power Systems. Tests
Valuations. Reports.
51-53 James Building, Cor-
King and Yonge Streets **TORONTO, CANADA**
Telephones: Office—Long Distance Main 3047
Residence—Long Distance North 2204
Telegraphic address: "Rodparke."
W. U. Code, Univ. Edition.

WILLIAM H. BREITHAUP, C.E.

M. A. M. Soc. C.E., M. CAN. SOC. C.E.
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**
Waterworks, Electric Light and Power
Plants, Structural Work, Reports,
Estimates, Arbitrations.
80 ST. FRANCOIS XAVIER ST. - MONTREAL

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

LOCOMOTIVES CARS
John J. Gartshore
83 Front St. West,
(Opposite Queen's Hotel.) **TORONTO.**

**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.

John H. Jackson

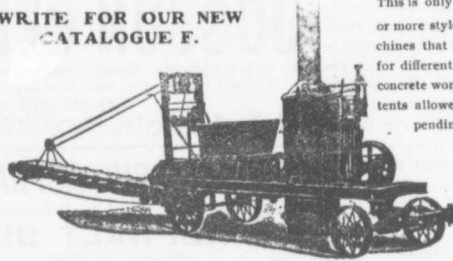
CIVIL ENGINEER
WATER POWER, ELECTRIC RAIL-
WAYS, STRUCTURAL STEEL.
Niagara Falls, Canada
Associated with Charles H. Mitchell,
C. E., Hydraulic Engineer.

CHARLES BRANDEIS

A. M. Can. Soc. C. E., A. M. Amer. Inst. E.E.
CONSULTING ENGINEER
Estimates, Plans and Supervision of Hydraulic
and Steam-Electric Light, Power and Railroad
Plants. Specifications, Reports Switchboard
Designs, complete Factory Installations, Etc.
Long Distance Telephone Main 315.
Cable Address: Brandeis-Montreal.
W. U. Code, Univ. Edition.
Liverpool & London & Globe Building.
MONTREAL

The Greatest Concrete Mixer Yet Made

WRITE FOR OUR NEW
CATALOGUE F.



This is only one of 30
or more styles of ma-
chines that we make
for different kinds of
concrete work. 10 pa-
tents allowed, others
pending

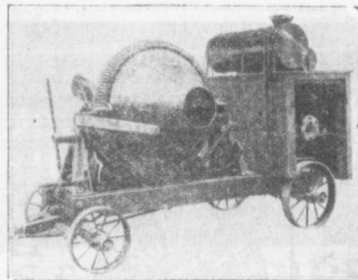
NUMBER OF PATENTS
35,604
672,934
675,033
673,036
675,037
698,182
698,910
699,667
699,668
701,312

Also
Mortar and
Asphalt Mixers

DRAKE STANDARD MACHINE WORKS

Factory, Office and Salesroom, 208-300-302 W. JACKSON BOUL.
79-11-13 Garden Street, Chicago. **CHICAGO, ILL., U. S. A.**
Eastern Agent, Walter S. King, 27 St. John's Place, Brooklyn, N. Y.

**CONTRACTORS LIKE IT
BECAUSE**



It saves
them
Money
and
pleases
the
Engineer

**CANADIAN
CONTRACTOR'S
HAND-BOOK**
and
Estimator

Third Edition
Price \$1.50; to
subscribers of
the Canadian
Architect and
Builder, \$1.00.

THE SMITH CONCRETE MIXER

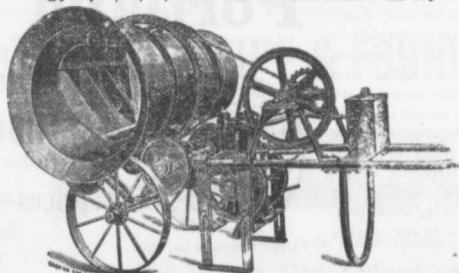
26 sizes and styles Capacity up to 350 cu. yds.

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

Please mention THE CONTRACT RECORD when corresponding with advertisers.

THE McKELVEY CONCRETE MIXERS

MANUFACTURED BY **W. A. McKELVEY,** McKinnon Building, TORONTO.



These machines
are made to mix
either continu-
ously or in
batches, and can
be operated
either by Hand,
Steam or Gas-
oline Power.

MUNICIPAL DEPARTMENT

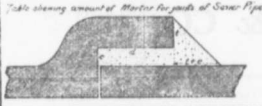
QUANTITY OF MORTAR REQUIRED FOR PIPE SEWER JOINTS.

By HORACE ANDREWS, Albany, N. Y.

The accompanying table showing the amount of cement and sand required for filling the joints of vitrified sewer pipes is based on the width of cement space, depth of hubs and thickness of pipes as given in the trade lists and is computed with the supposition that the cement outside of the annular space is formed with a bevel of 45 degrees. This table will enable the engineer or contractor to arrive at a close idea of the amount of cement that will be

Table showing amount of Mortar for joints of Sewer Pipes.

Diameter of Pipe (Outside)	Diameter of Hub (Outside)	Thickness of Pipe (Outside)	Thickness of Hub (Outside)	Mortar (Cubic Feet)		Cement (Cubic Feet)		Sand (Cubic Feet)	
				Per Joint	Per 100 Feet	Per Joint	Per 100 Feet	Per Joint	Per 100 Feet
12	12	4	4	0.142	1.40	0.039	0.39	0.26	2.60
14	14	4	4	0.178	1.78	0.047	0.47	0.31	3.10
16	16	4	4	0.232	2.32	0.061	0.61	0.41	4.10
18	18	4	4	0.290	2.90	0.078	0.78	0.51	5.10
20	20	4	4	0.357	3.57	0.098	0.98	0.61	6.10
22	22	4	4	0.434	4.34	0.124	1.24	0.71	7.10
24	24	4	4	0.521	5.21	0.156	1.56	0.81	8.10
26	26	4	4	0.618	6.18	0.194	1.94	0.91	9.10
28	28	4	4	0.726	7.26	0.238	2.38	1.01	10.10
30	30	4	4	0.845	8.45	0.288	2.88	1.11	11.10
32	32	4	4	0.976	9.76	0.344	3.44	1.21	12.10
34	34	4	4	1.119	11.19	0.406	4.06	1.31	13.10
36	36	4	4	1.274	12.74	0.474	4.74	1.41	14.10
38	38	4	4	1.441	14.41	0.548	5.48	1.51	15.10
40	40	4	4	1.620	16.20	0.628	6.28	1.61	16.10
42	42	4	4	1.811	18.11	0.714	7.14	1.71	17.10
44	44	4	4	2.014	20.14	0.806	8.06	1.81	18.10
46	46	4	4	2.229	22.29	0.904	9.04	1.91	19.10
48	48	4	4	2.456	24.56	1.008	10.08	2.01	20.10
50	50	4	4	2.695	26.95	1.118	11.18	2.11	21.10
52	52	4	4	2.946	29.46	1.234	12.34	2.21	22.10
54	54	4	4	3.209	32.09	1.356	13.56	2.31	23.10
56	56	4	4	3.484	34.84	1.484	14.84	2.41	24.10
58	58	4	4	3.771	37.71	1.618	16.18	2.51	25.10
60	60	4	4	4.070	40.70	1.758	17.58	2.61	26.10
62	62	4	4	4.381	43.81	1.904	19.04	2.71	27.10
64	64	4	4	4.704	47.04	2.056	20.56	2.81	28.10
66	66	4	4	5.039	50.39	2.214	22.14	2.91	29.10
68	68	4	4	5.386	53.86	2.378	23.78	3.01	30.10
70	70	4	4	5.745	57.45	2.548	25.48	3.11	31.10
72	72	4	4	6.116	61.16	2.724	27.24	3.21	32.10
74	74	4	4	6.500	65.00	2.906	29.06	3.31	33.10
76	76	4	4	6.896	68.96	3.094	30.94	3.41	34.10
78	78	4	4	7.304	73.04	3.288	32.88	3.51	35.10
80	80	4	4	7.724	77.24	3.488	34.88	3.61	36.10
82	82	4	4	8.156	81.56	3.694	36.94	3.71	37.10
84	84	4	4	8.600	86.00	3.906	39.06	3.81	38.10
86	86	4	4	9.056	90.56	4.124	41.24	3.91	39.10
88	88	4	4	9.524	95.24	4.348	43.48	4.01	40.10
90	90	4	4	10.004	100.04	4.578	45.78	4.11	41.10
92	92	4	4	10.496	104.96	4.814	48.14	4.21	42.10
94	94	4	4	10.999	109.99	5.056	50.56	4.31	43.10
96	96	4	4	11.514	115.14	5.304	53.04	4.41	44.10
98	98	4	4	12.040	120.40	5.558	55.58	4.51	45.10
100	100	4	4	12.578	125.78	5.818	58.18	4.61	46.10



required to form the joints of any kind of sewer pipe. In practice the writer has found that the smaller sizes of pipes, owing to imperfectly filled joints, will not require as much cement as the table would indicate, but that the larger sizes will require very nearly the theoretical amount. With careful jointing the smaller sizes should require the amounts shown in the table. The quantities of cement and sand deduced from the amount of mortar have been computed on the basis of the proportions given by Prof. I. O. Baker. Mortar formed of one part sand and one part cement is in the opinion of the writer preferable to neat cement or to any weaker mixture.

MUNICIPAL STATISTICS.

The Provincial Secretary has prepared, and is sending out to the municipal corporations of the cities, towns and villages throughout the province of Ontario, a number of blank forms for the purpose of making returns to the department in respect to reproductive undertakings, such as water works, gas, etc. These returns will include a statement showing the position of the undertakings on December 31, 1902, in regard to capital, together with the average annual income for the four

years preceding that date, and the rates charged to consumers. This information is being obtained for the assistance of the Select Committee appointed at the last session of the Ontario Legislature to consider the question of municipal ownership. The committee will probably meet in October.

JOHN GALT, C.E.&M.E.
 MEM CAN SOC. C.E. AND C.E.A., ETC.
CONSULTING ENGINEER and EXPERT
 National Trust Building
 20 King Street East Toronto
 Supt. Cities—Water Supply and Sewerage.

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

THE ONTARIO ASPHALT BLOCK CO., L'T'D.
 MANUFACTURERS OF
ASPHALT BLOCK PAVING
 Information and samples furnished municipalities on application.
 Main Office: WINDSOR, ONT. Works: WALKERVILLE, ONT.

The KERR ENGINE COMPANY, Limited
PUMPING MACHINERY
HYDRANTS and VALVES
 Are our Specialty
 Don't fail to write us for Catalogue and prices.

WALKERVILLE, - ONTARIO

“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 best 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..
 ALL GRADES.
 Write or Telegraph to
BELLHOUSE, DILLON & CO.
 201-203 Coristine Building, St. Nicholas Street, Montreal
 for prices---Large stock constantly on hand.

Largest Makers in the World.



FROST PROOF HYDRANTS

OUR

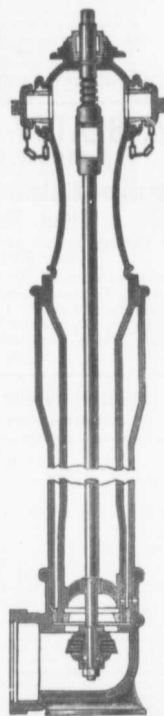
Toronto Hydrants are fitted with frost cases separated from the hydrant, thereby preventing injury due to upheavals of the ground by frost.

SEE OUR BULLETIN No. 7.

Canada Foundry Co., Limited

Head Office - Toronto, Ont.

District Offices : MONTREAL HALIFAX OTTAWA WINNIPEG
VANCOUVER VICTORIA ROSSLAND



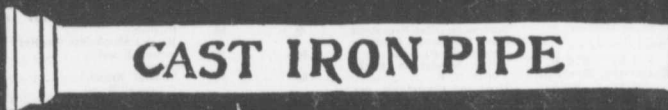
THOS. J. DRUMMOND, President

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

ALEX. GARTSHORE, President. J. G. ALLAN, Secretary and Treasurer. JAS. THOMSON, Vice-President and General Manager.

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

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

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.

Prices of Building Materials.

PRESSED BRICK, Per M.

Table with columns for brick types (Red, Buff, Brown, Hard Building, Sewers, Backing) and prices per M. Includes 'MILTON PRESSED BRICK AND SEWER PIPE CO.' and 'TORONTO PRESSED BRICK AND TERRA COTTA WORKS'.

FOR VALLEY PRESSED BRICK WORKS. Nos. 1, 2 and 3, Red Pressed Bricks; Nos. 1 and 2 Buff Pressed Bricks; No. 1 Brown Pressed Bricks; Pompeian Red, Buff and Brown Pressed Bricks; Ornamental Bricks of all kinds for Mantel purposes.

Table with columns for brick types (Red, Buff, Brown, Hard Building, Backing) and prices per M. Includes 'TORONTO PRESSED BRICK AND TERRA COTTA WORKS'.

Moulded and Ornamental from \$2.00 to \$5.00 per 100. Terra Cotta String Courses and Friezes, from 50c. to \$2.00 per ft. running.

BEAMSVILLE BRICK AND TERRA COTTA CO. F.O.B. Beamsville, Montreal.

Table with columns for brick types (Red Peerless Facing, Vitrified Paving Bricks, Roman Red, Buff Peerless, Sewer, Roofing Tile) and prices per M.

TORONTO POTTERY CO. Car lots Less. Boyd 21 00 M. 26 00 M. W. W. Co. 24 50 M. 28 50 M. Savage Crown 28 50 M. 32 00 M.

Table with columns for stone types (Common Rubble, Large flat Rubble, Foundation Blocks, Granite, Amherst, Sarkville, Maillon, Stanstead, Granite curbing stone) and prices per ton.

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

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: GEO. E. EVANS, 38 Canada Life Bldg., TORONTO, ONT

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.

PORTLAND CEMENTS,

HIGH GRADE ENGLISH

GERMAN

BELGIAN

PLASTER OF PARIS

BORAX,

CHINA CLAY.



Table with columns for stone types (Buctouche Olive Freestone, Brown Sandstone, Moat red sandstone, Black Pasture buff stone, Nova Scotia blue grey, Coursers, St. Mary's, Footing, Bridge Stone, Granite, Ashlar) and prices per ton.

F.O.B. Halifax

Dimension stock granite for building purposes, per cu. ft. Do. for polishing purposes, up to 2 tons weight, per cubic foot.

Table with columns for stone types (Rubble, Brown Coursing, Brown dimension, Grey coursl, Grey dimension) and prices per ton.

Table with columns for slate types (Roofing, purple, unfading green, black, Terra Cotta Tiles, Ornamental Black Slate Roofing) and prices per square.

PORTLAND CEMENT

Table with columns for cement types (English, Brak's, Belgian, Castle, Josson, Cathedral, White Cross, Atlas, Hammer, Samsun, R. d. Cross, Waterloo, Rasvel's, Leis Bros., White Star, German, Dyckerhoff, Karlstadt, Hercules, Heemmoor, Cannon, Heidelberg, Canadian, Star Brand, Invincible, Ensign, Citadel, Trowel, Samson Brand, Magnet, Monarch, Hercules, Lion Brand, American, Aloha Brand, Alben's, Lenigh, cotton sacks, paper bags, Keene's, Keene's Coarse, Fire Bricks, Plaster, Calcedine, N. S.) and prices per ton.