

CANADIAN CONTRACT RECORD

*A Weekly Journal of Engineering, 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, Leading Civil Engineers and Contractors throughout Canada, and Purchasers of Municipal Debentures.

VOL. 18.

TORONTO, MONTREAL — MAY 29, 1907 — WINNIPEG, VANCOUVER

No. 13

THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY WEDNESDAY

As an intermediate Edition of the Canadian Architect and Builder.

THE C. B. MORTIMER PUBLISHING COMPANY

of Toronto, Limited,

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

CONFEDERATION LIFE BUILDING, TORONTO
Telephone Main 2362.

Branch Offices.

Room B34, Board of Trade Building, Montreal.
Telephone Main 2299.

780-781 Union Bank Building, Winnipeg.
Telephone 1274

Davis Chambers, 613 Hastings St., Vancouver,
B. C. Telephone 2248

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PUBLISHERS' ANNOUNCEMENT.

To ensure publication of the **CONTRACT RECORD** on time, advertisers are requested to strictly observe the following regulations:

Copy and cuts for change of advertisements must reach the publication office in Toronto not later than Saturday preceding the date of publication. The copy should show the size of the cuts, if any, as sometimes there is delay in transmitting them through the mails.

Transient advertisements for Tenders must reach the publication office by TEN O'CLOCK A. M. ON TUESDAY, but our patrons will confer a favor by forwarding advertisements earlier whenever possible.

FOR SALE

The Board of Water, Light & Telephone Commissioners of Fort William have the following machinery for sale, owing to the purchasing of Electric Power from the Water Power Company:

3 Boilers, 72" in diameter by 16 feet long, 100 pound steam.

1 Deans Condenser, vertical, 1,000 H. P. capacity.

1 Tandem Compound Engine with cylinders, 21x40 40x45, ran 2 years.

1 Engine 20x45, ran 7 years, together with counter shafting, pulleys and belting complete.

1 Westinghouse revolving field 500 k.w., 2 phase, 60 cycle, 2,400 volt generator, with exciter, switchboard and appliances complete.

1 Royal electric 180 k.w., 133 cycle, 2,400 volt generator, with exciter, switchboard and appliances complete.

The above machinery is now in the City Power House and in first-class condition. Will sell in bulk or in part.

Apply to

BOARD OF WATER, LIGHT & TELEPHONE COMMISSIONERS,

or to

JOHN McRAE,

General Superintendent,
Fort William, Ont.

City of Stratford TENDERS FOR CONCRETE WALKS

Sealed tenders addressed to Ald. H. Pauli, Chairman Board of Works, and endorsed for concrete walks, will be received up till 12 o'clock noon, SATURDAY, JUNE 1ST, for the construction of approximately 31,600 square ft. of concrete walks.

Specifications may be seen at the City Engineer's office and forms of tender obtained upon application. Each tender must be accompanied by a marked cheque, payable to the City Treasurer, for amount called for in form of tender.

Lowest or any tender not necessarily accepted.
L. MALCOLM, City Engineer.

Tenders for Bridge

Tenders will be received by the undersigned till 4 o'clock p. m. JUNE 14TH, A. D. 1907, for the erection of a Steel Bridge over the Saugeen River, Southampton, the bridge to consist of two spans of 160 feet, and one span of 70 feet. Roadway 16 feet with concrete floor.

Also for the erection of two Concrete Abutments and Two Piers for said Bridge.

Plans and specifications may be seen with F. A. McDougall, Warden, Allenford, and at the Clerk's office, Walkerton.

Lowest or any tender not necessarily accepted.
P. A. MALCOMSON, County Clerk,
Walkerton, Ont.
Walkerton, May 10th, 1907.

TENDER FOR Grain Elevator Conveyor System

The Harbor Commissioners of Montreal invite tenders for the following equipment for the Belt Conveyor System in the Harbor of Montreal:

I.—Mechanical Equipment.

II.—Electrical Equipment.

III.—Telephone Equipment.

IV.—Signal Lights and Belt
Equipment.

V.—Rubber Belting.

Plans, specifications and form of tender may be seen at the office of Mr. F. W. Cowie, Chief Engineer.

Sealed tenders, endorsed "Tender Conveyor System," and addressed to the undersigned, will be received up to noon on June 5th, 1907.

The lowest or any tender not necessarily accepted.
DAVID SEATH,
Secretary.

Harbor Commissioners' Offices,
57 Common Street, Montreal, 4th May, 1907.

Tenders Wanted

Tenders will be received by the undersigned until SATURDAY, JUNE THE 8TH, for furnishing all material, tools and labor for the building of cement abutments for two bridges in the Township of Burford, County of Brant.

Tenders will also be received until June 8th next for furnishing and erecting a 70 foot span steel bridge. Plans and specifications may be inspected at my office at New Durham.

The lowest or any other tender will not be accepted unless otherwise satisfactory.

PHILIP KELLY,
Clerk of the Township of Burford,
New Durham, May 14, 1907.

TENDERS FOR Macadam Roadways.

Sealed tenders will be received by the Town of Bracebridge until noon on MONDAY, JUNE 3RD, for the construction of about eight thousand five hundred square yards of Macadam Roadways; also some Concrete Curbing and the necessary excavation in connection with the works.

Plans and specifications can be seen on and after the 21st day of May at the offices of the Town Clerk and Engineer, Bracebridge.

W. GALBRAITH, Town Engineer,
Bracebridge, Ont., May 13, 1907.



Temiskaming and North- ern Ontario Railway Commission.

TENDERS FOR STORES BUILDING

Sealed tenders, addressed to the undersigned and endorsed "Tender for Stores Building," will be received up to 3 p. m. on the 6TH DAY OF JUNE, 1907, for the erection of a Store Building at North Bay, Ontario.

Plans and specifications may be seen at the office of the Commission, 25 Toronto Street, Toronto, and at the office of the Chief Engineer, North Bay.

A certified cheque for \$2,000.00 must accompany each tender.

The successful tenderer must enter promptly into a contract and furnish security for the amount of \$5,000.00 for due completion of same.

Cheques of unsuccessful tenderers will be returned to them.

The lowest or any tender not necessarily accepted.

A. J. McGEE,
Secretary-Treasurer.

Toronto, May 6th, 1907.

Papers inserting this advertisement without authority will not be paid for same.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE]

TOWN NORTH TORONTO COUNTY YORK

Sealed tenders (marked) will be received by the undersigned up till 7 p.m. on 31st JUNE NEXT, for building 6 concrete sidewalks. Plans and specifications can be examined at the Town Hall, Eight a. and at office of P. S. Gibson, C.E., Town Engineer, at Willowdale. Any tender not necessarily accepted.

W. J. DOUGLAS,
Clerk, Town North Toronto.
Eglinton, County York, 18th May, 1907.

CITY OF REGINA NEW CITY HALL FURNITURE AND FITTINGS

The undersigned will receive tenders up till 4 o'clock p.m. on TUESDAY, JUNE 11, 1907, for (1) Furniture and Fittings for Council Chamber, Police Court and Public Offices; (2) Steel Fittings for Vaults, all for the new City Hall, Regina, according to plans and specifications to be supplied by the City Clerk on application. Tenderers must submit cuts of furniture and fittings along with their tenders and refer to them by number. The lowest or any tender not necessarily accepted.

J. KELSO HUNTER,
City Clerk.
Regina, Sask., May 8, 1907.

CITY OF BRANTFORD Sewer Extension

Sealed tenders, addressed to Samuel Suddaby, Esq., Chairman of the Board of Works, in care of the City Clerk, Brantford, Ont., will be received till 12 o'clock noon on THURSDAY, JUNE 20th, 1907, for the construction of a

PUMPING STATION

and the following sewers:

- About 7,800 feet of extra strength 15 inch sewer pipe.
- About 7,000 feet of extra strength 12 inch sewer pipe.
- About 1,800 feet of 12 inch cast-iron pipe.

Plans and specifications may be seen, and instructions to bidders and forms of tender obtained, at the City Engineer's office on and after the 1st June.

Each tender must be accompanied by a marked cheque for 5 per cent. of the amount of the tender.

The lowest or any tender not necessarily accepted.

T. HARRY JONES,
City Engineer.
Brantford, Ont., May 20th, 1907.

TENDERS FOR CEMENT ARCH BRIDGE

Sealed tenders, addressed to the undersigned and endorsed "Tenders for Bridge," will be received up to and including JUNE 18th, 1907, for the building of a Cement Concrete Reinforced Steel Arch Bridge on branch of Severn River near Washago. Plans and specifications of the work may be seen at the office of Mr. J. C. Rose, Clerk Township of Orillia, Orillia; Messrs. Connor, Clarke & Monds, Consulting Engineers, 30 Toronto Street, Toronto, or at the residence of the undersigned, Lot 7, Concession 7, North Orillia, Hampshire Mills, P. O.

Tenders must include the taking down of the present bridge and making a temporary bridge of sufficient strength to meet the ordinary travel until such time as the new bridge is completed. Contractor must be ready to begin work within 20 days after receiving notice of acceptance of tender. Tenderers are to deposit a certified cheque for \$100.00 payable to W. A. Trimble, which will be forfeited if the successful tenderer refuses or neglects to sign his contract within one week of his notification of the acceptance of his tender. Cheques of unsuccessful tenderers will be returned.

The lowest or any tender not necessarily accepted.

W. A. TRIMBLE,
Deputy-Reeve, Orillia Township,
Hampshire Mills P. O., Ont.

CITY OF WOODSTOCK

Preliminary competitive plans for a new City Hall for the City of Woodstock are invited, cost of building \$80,000.

For information apply to

JOHN MORRISON, City Clerk,
Woodstock, Ont.

Debentures For Sale

Sealed tenders will be received up to noon of WEDNESDAY, JUNE 27th, 1907, for the purchase of \$75,000.00 Local Improvement Debentures of the Town of Oshawa, dated May 20th, 1907, bearing interest at 4½ per cent. per annum, and repayable at the office of the Treasurer, Oshawa, in 30 equal annual installments of Principal and Interest.

The highest or any tender not necessarily accepted.

THOS. MORRIS,
Town Clerk.

DALHOUSIE, N. B.

Notice to Contractors

Sealed tenders will be received by the Town Clerk of Dalhousie until 8 p.m. on

Wednesday, June 19th, 1907,

for the following works:

- Contract "G"—Pumping Engine.
- Contract "H"—Two Boilers.
- Contract "I"—Dam and G. te. House.
- Contract "J"—Electric Light Engine.
- Contract "K"—Electric Lighting System.

Plans and specifications may be seen on and after May 14th at the office of the Chief Engineer, 103 Bay Street, Toronto, or at Dalhousie, N. B.

No tender necessarily accepted.

W. S. MONTGOMERY, Esq., Mayor,
Dalhousie, N. B.
ALEX. J. LE BLANC, Esq., Town Clerk,
Dalhousie, N. B.
WILLIS CHIPMAN, C. E., Chief Engineer,
103 Bay Street, Toronto, Ont.



Temiskaming and North- ern Ontario Railway Commission.

TENDERS FOR Blacksmith Shop

Sealed tenders, addressed to the undersigned and endorsed, "Tender for Blacksmith Shop," will be received up to 4 p.m. on the 26th DAY OF JUNE, 1907, for the erection of a Blacksmith shop at North Bay, Ontario.

Plans and specifications may be seen at the office of the Commission, 24 Toronto Street, Toronto, and at the office of the Chief Engineer, North Bay.

A certified cheque for \$500.00 must accompany each tender.

The successful tenderer must enter promptly into a contract and furnish security for the amount of \$1,500.00 for the due completion of same.

Cheques of unsuccessful tenderers will be returned to them.

The lowest or any tender not necessarily accepted.

A. J. MCGEE,
Secretary-Treasurer.
Toronto, May 23rd, 1907.

Papers inserting this advertisement without authority will not be paid for same.

TENDERS WANTED

for the following trades for five houses on Aberdeen avenue, Toronto: Roofing, slating, lathing, plastering, plumbing, painting, furnaces, &c.

Plans to be seen at building or at 42 Rose avenue.

FOR SALE

2" plank, dry cull Maple 30,000 feet.
4 x 6 to 10 x 10 timber, cull Cedar 30,000 feet.
2" plank, dry cull Elm 30,000 feet.

M. CRAWFORD,
Campbellville, Ont.

CITY OF CALGARY

To Concrete Walk Contractors

Sealed tenders, addressed to J. S. Clarke, Esq., Calgary, Alta., Chairman of the Public Works Committee, will be received until 12 o'clock noon on WEDNESDAY, THE 31st DAY OF JUNE NEXT, for the construction of about 250,000 square feet of Concrete Sidewalks.

Specifications and forms of tender can be obtained at the City Engineer's office.

The lowest or any tender not necessarily accepted.

R. E. SPEAKMAN, C. E.,
City Engineer.
City Engineer's Office, Calgary, Alta., May 22nd, 1907.

CONTRACTS OPEN.

TREHERNE, MAN.—The C.P.R. have decided to erect a new station.

SASKATOON, SASK.—The Public School Board have acquired a site for a new school building.

OWEN SOUND, ONT.—The Town Council have decided to make extensions to the waterworks system.

MORRIS, MAN.—J. Wilton is interested in a company who intend operating a brick yard in this village.

MEDICINE HAT, ALTA.—A gunpowder factory is to be established in this city by the J. C. Mitchell Co.

MORDEN, MAN.—The ratepayers have carried a by-law to establish a municipal electric lighting system.

STRATFORD, ONT.—J. S. Russell, architect, has just taken tenders for heating and plumbing in new school building.

QUEBEC, QUE.—The City Council have instructed G. E. Tanguay, architect, this city, to prepare plans for new fire hall.

FORT WILLIAM, ONT.—The Alsip Brick & Tile Co. have purchased twelve acres of land on which they will establish a large brick plant.

KINGSTON, ONT.—J. G. Sing, Government Engineer, has estimated cost of dredging and improving Kingston Harbor at \$228,750.

VICTORIA, B.C.—W. J. Dowler, City Clerk's office, wants tenders up to June 10th for purpose of \$36,500 4 per cent. city debentures.

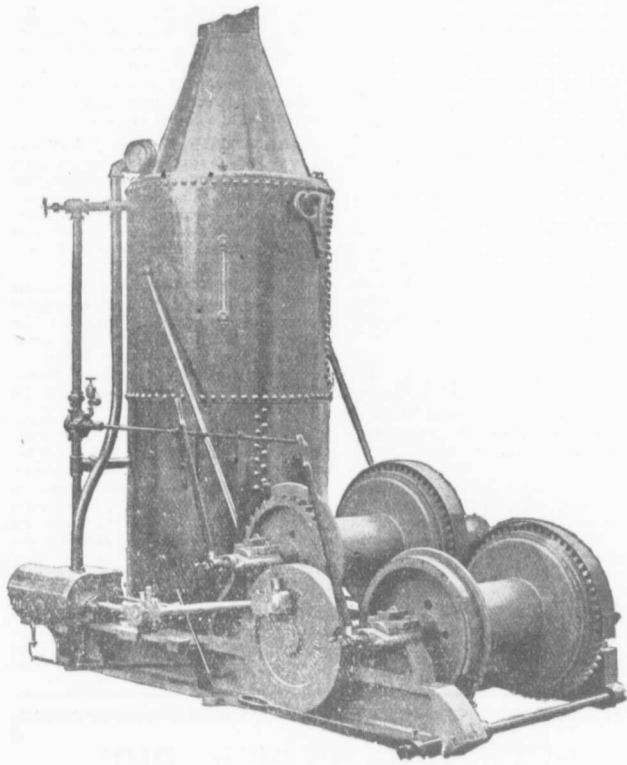
ST. CATHARINES, ONT.—The Grantham Township Council will submit a by-law to the ratepayers to raise \$20,000 for road improvements.

HAMILTON, ONT.—The Board of Works have recommended construction of asphalt pavements on Hughson and John streets, to cost \$4,500.

RICHMOND, QUE.—The by-law providing for improvements to the waterworks system, at a cost of \$25,000, has been carried by the ratepayers.

ST. JOHN, N.B.—Tenders will shortly be invited by Department of Public Works for construction of steel bridge over St. John river at this point.

GRAND BAY, N. B.—The Methodist Camp Meeting and Summer Resort Association have decided to purchase 30 acres of land situated about one mile



HOISTING ENGINES

DERRICKS

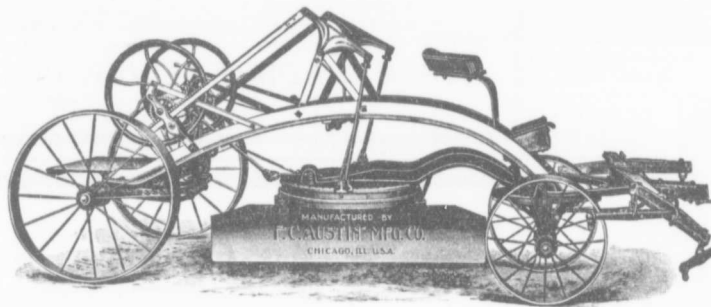
WIRE ROPE

BLOCKS

WIRE ROPE

FITTINGS

ETC., ETC.



Road Machines, Street Sprinklers, Street Sweepers, Portable
Rock Crushers, Etc.

MUSSENS LIMITED

Head Office: MONTREAL

Branches: QUEBEC, TORONTO, WINNIPEG, VANCOUVER.

from the village, with intention of establishing a summer resort.

GUELPH, ONT.—A new building is to be erected by the Page Hersey Iron, Lead & Tool Co.—W. H. Cutten has acquired a site for a three-storey brick block.

LETHBRIDGE, ALTA.—It is understood that the C.P.R. will shortly call for tenders for construction of piers and abutments for bridge to be constructed here.

CARMAN, MAN.—A by-law will be submitted to the ratepayers on June 11th providing for the establishment of waterworks and sewerage systems at a cost of \$16,000.

NORWOOD, ONT.—The ratepayers have approved of a by law for construction of a number of cement sidewalks and erection of an addition to the Town Hall, to cost \$10,000.

BINSCARTH, MAN.—R. B. Johnston, Secretary - Treasurer Binscarth School District No. 506, wants tenders up to June 8th for purchase of \$2,600 6 per cent. debentures.

PRESTON, ONT.—A by-law is to be submitted to the ratepayers on June 10th to grant a loan of \$10,000 to E. Hurlburt, of Toronto, who purposes establishing a shoe factory in this town.

NEEPAWA, MAN.—G. H. Archibald, C.E., Winnipeg, has reported to the Town Council on question of establishing a system of waterworks at an estimated cost of \$27,300.

ST. THOMAS, ONT.—Michigan Central Railway have offered to erect and maintain a new station, to cost \$66,000, on condition that the city contribute \$18,000 to the cost of the building.

FERNIE, B. C.—The original tenders for construction of sewerage system were rejected by the City Council owing to errors in the specifications and new tenders were taken up to May 23rd.

DOVER SOUTH, ONT.—W. J. Foy, Township Commissioner, wants tenders up to June 1st for construction of seven steel bridges for Township of Dover. Plans at Commissioner's office.

TRURO, N.S.—F. Gelinis, Department of Public Works, Ottawa, wants tenders up to June 6th for erection of an armoury here. Plans with caretaker of

public building, this town, and at office of above named Department.

AMHERST, N. S.—D. Pottinger, General Manager Intercolonial Railway, wants tenders up to June 5th for erection of brick and stone station in this city. Plans at office of Station Master and with Chief Engineer, Moncton.

OTTAWA, ONT.—Building permits have been issued as follows: J. B. Duford, five brick dwellings, Marlboro street, cost \$15,000; G. B. Greene, brick dwelling, Cambridge street, cost \$4,500; G. Wilson, brick veneered dwelling, McLeod street, cost \$3,000.

SHELBURNE, N. S.—F. Gelinis, Department of Public Works, Ottawa, wants tenders up to June 7th for construction of a public building in this town. Plans at offices of above named department, R. L. Lessel, architect, Halifax, and Customs Office, this town.

INDIAN HEAD, SASK.—The ratepayers have carried by-laws providing for issuance on debentures to cover cost of following works: Extension of waterworks system, cost \$30,000; extension of electric lighting system, cost \$10,000; erection of firehall, cost \$10,000.

SMITH FALLS, ONT.—J. A. Lewis, Town Clerk, wants tenders up to June 3rd for purchase of following town debentures: \$5,568 4 per cent., 35 year; \$4,250 4 per cent., 35 year; \$5,000 4½ per cent., 20 year school; \$14,153 4 per cent., 20 year local improvement.

VICTORIA, B. C.—The City Engineer and Water Commissioner have reported to the City Council on a scheme to obtain a supply of water from the

Highland district by gravity and construction of several reservoirs. They estimate the cost at \$1,200,000.

SASKATOON, SASK.—The Saskatoon Foundry & Machine Works are looking a site for their new building.—The City Council have under consideration the extension of the sewerage and water mains and electric lighting system on 20th street at a cost of \$15,000.

DALHOUSIE, N. B.—J. J. LeBlanc, Town Clerk, wants tenders up to June 19th for following: Pumping engine, two boilers, dam and gate house, electric light engine, electric lighting system. Plans at Clerk's office and at office of Chief Engineer, Willis Chipman, C. E., Toronto.

WINNIPEG, MAN.—A movement is on foot for erection of a home for Jewish immigrants at a cost of \$25,000.—The Chairman Board of Control wants tenders up to June 5th for supply of from 12 to 15 dump carts for the city. Information may be obtained at office of the Medical Health Officer.

HALIFAX, N. S.—L. C. Monaghan, City Clerk, wants tenders up to June 3rd for repairs to four fire hall buildings. Plans with W. B. Fidler, West street fire hall.—W. L. Brown, City Treasurer, invites tenders up to June 25th for purchase of \$768,500 4½ per cent. debentures.

SYDNEY, C. B.—D. M. Curry, Secretary Construction Commission, will receive sketches of plans from architects up to June 3rd for a jail building.—The Sydney Foundry Company have acquired property and will shortly call for tenders

GET GOOD SEWER PIPE

Those requiring sewer pipe should see that they get the best. It is the cheapest in the end.

We manufacture the best and cheapest. It is steam pressed, salt glazed, vitrified, absolutely non absorbant and once laid will last forever.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT. ST. JOHNS, QUE.



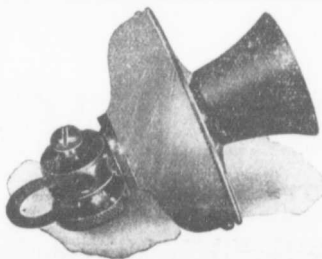
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THE CANADIAN STANDARD

THE CANADIAN PORTLAND CEMENT CO., LIMITED

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TORONTO

203 BOARD OF TRADE BUILDING
MONTREAL



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Telephones Switchboards Supplies

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r everything for a telephone system.

The Northern Electric and Manufacturing
Co., Limited

WINNIPEG

MONTREAL

PLUMBERS' AND STEAMFITTERS' SUPPLIES

Iron Pipe 1-8 in. to 12 in. carried in stock'

Malleable Fittings Cast Iron Fittings

Lead Traps and Bends

Valves Tools Lead Pipe Pig Lead

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TORONTO 59 Richmond St. East

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THE

MILES CONCRETE BUILDING BLOCK MACHINE

Makes 40 Different Sizes of Stone in Any Design, as well as the Specials, viz: Water Table, Gable, Circle, Angle, Chimney, Cornice, Pier Blocks, etc.

THIS Machine makes all blocks face down—"the only practical way"—allowing of a richer and finer facing, producing blocks that are perfect in appearance and impervious to moisture.

Let us tell you how the "Miles" will pay for itself over any other machine in three months' operation.

Catalogues and Information Cheerfully Furnished.

Manufactured and Sold By

VINING BROS., Mfg. Co., - Niagara Falls, Can.

Sales Agent for Quebec: T. A. CHADBURN, 242 St. James St., MONTREAL.

for erection of a number of buildings thereon.

REGINA, SASK.—The Canadian Northern Railway will shortly commence operations for complete overhauling and improvement of road bed of Regina-Prince Albert division.—The ratepayers have defeated a by-law to grant a franchise to Springer and Eaton for the operation of a gas plant.

ST. ROSALIE JUNCTION, QUE.—D. Pottinger, General Manager Intercolonial Railway, Moncton, N.B., wants tenders up to June 6th for construction of a wooden engine house and 50,000 gallon water tank in this village. Plans at office of Stationmaster, this village, and Levis, and with Chief Engineer, Moncton.

POINTE AUX TREMBLES, QUE. F. Gelinas, Department of Public Works, Ottawa, wants tenders up to June 14th for completion of landing pier at this place. Plans at office of above named department and with P. Beland, Post Office, Quebec; C. Desjardins, Post Office, Montreal, and Postmaster, this town.

PORT ARTHUR, ONT.—The City Council have made application to the Government for a lease of Dog Lake Falls on the Kaministiquia river with a view to constructing a development plant which will eventually generate 30,000 horse power.—The Canadian Northern Railway have decided to practically rebuild the Booth dock.

HILLSDALE, N. B.—The Department of Public Works, Fredericton, want tenders up to June 10th for rebuilding Hillsdale Bridge, according to plans which may be seen at the Public Works Department, Fredericton, or offices of Hon. Wm. Pugsley, St. John, O. P. King, M. P. P., this village, and G. G. Scovil, M. P. P., Belleisle Creek, N. B.

SUSSEX, N. B.—The Department of Public Works, Fredericton, invite tenders up to June 10th for rebuilding of Salmon River bridge in this town, according to plans which may be seen at the Public Works Department, Fredericton, or offices of Hon. Wm. Pugsley, St. John, O. P. King, M. P. P., this village, and G. G. Scovil, M. P. P., Belleisle Creek, N. B.

CHESTERTVILLE, ONT.—Tenders will be received up to June 1st by Rev. A. E. Runnells, this village, and B. Dillon, architect, Brockville, for concrete and cement block work in erection of Methodist church here. Tenders will also be received by the same parties up to June 15th for carpenter work, painting and glazing, lathing and plastering, etc., in connection with the above building. Plans with the above named gentlemen.

MONCTON, N.B.—D. Pottinger, General Manager Intercolonial Railway, wants tenders up to June 4th for extension to waterworks at following points: Pirate Harbor, N.S., Antigonish, N.S., Springhill Junction, N.S., Charlo, N.B., Durham Bridge, N.B., Doaktown, N.B., Trios Pistoles, P.Q., St. Charles Junction, P.Q., and Charlottetown, P.E.I. Plans at agent's office at each of the above mentioned places and at the Chief Engineer's office, this city.

MOOSE JAW, SASK.—The C.P.R. are considering the construction of an overhead bridge on Sixth avenue.—The City Electrician will recommend that \$30,000 be expended on the electrical plant this season. Included in this amount will be sufficient for erection of new boiler house, installation of new boilers and other apparatus.—The Building Committee of the Y.M.C.A. have decided to call for tenders at once for construction of their building.

MONTREAL, QUE.—The Montreal Amateur Athletic Association are con-

sidering erection of a rink building.—W. R. Cuthbert & Co. have decided to erect an extensive addition to their brass foundry on Duke street.—The Montreal Brewing Company have purchased property adjoining their present premises at a cost of \$16,500.—The Ancient Order of United Workmen have purchased a large stone residence on Sherbrooke street west and will make extensive alterations to same.

CALGARY, ALTA.—It is reported that the Provincial Government will erect a large cold storage warehouse in this city.—It is understood that the Dominion Government are taking steps in regard to irrigation in the provinces of Alberta and Saskatchewan.—E. H. Riley, M. P. P., and T. Riley are interested in the formation of a company for the manufacture of drain pipes.—Revelstoke Saw Mills Co. are endeavoring to procure a site in this city for a large sash and door factory.

VANCOUVER, B. C.—The Vancouver Milling & Grain Co. are considering the erection of a large flour mill.—The City Council will ask the ratepayers to endorse a by-law for construction of new sewers to cost \$150,000.—The Phoenix Iron Works, of Seattle, Wash., have acquired a site for a foundry and machine shop. Estimated cost of buildings and plant \$200,000.—The British American Oil Refinery have decided to erect a refinery in this city at a cost of \$225,000.—The proprietors of the Leland Hotel have decided to erect a six-storey fire-proof brick and stone hotel building.

TORONTO JUNCTION, ONT.—The following building permits have been issued: J. Mooney, pair semi-detached brick dwellings, 111-113 Cooper avenue, cost \$3,000; E. Walden, 2½-storey detached brick residence, stone foundation, 74 Keele street, cost \$2,900; J. J. Foy, 2½-storey brick detached residence, stone foundation, 345 High Park avenue, cost \$3,500; Mrs. McMahon, 2½-storey brick detached house, stone foundation, 317 High Park avenue, cost \$3,000; Ira Doane, 2-storey and attic detached brick house, stone foundation, 96 Clara street, cost \$3,000; A. M. Wilson, 2-storey and attic brick dwelling, 84 Lakeview avenue, cost \$4,000.—A. Bradshaw & Son have acquired property on which to erect a factory building.

TORONTO, ONT.—A local syndicate have purchased through F. B. Robins a block of land in Eglinton having a total frontage of 3,200 feet, with the intention of erecting on part of the land a number of dwellings.—The two buildings at 756 and 758 Yonge street are being torn down and two three-storey brick stores are to be erected on the property for Mr. J. Burgess.—It is reported that J. J. Walsh has purchased property on northwest corner of Wilton avenue and Victoria street and that he will erect a building thereon.—J. J. Hueston, of Belleville, has purchased a site for a large residence on Palmerston Boulevard.—The Island Committee of the City Council have decided to recommend that the Argonaut Rowing Club be given a lease on property at Mugg's Landing on which to erect a club house.—John Leckie, Limited have purchased property on Wellington street west on which to erect a factory building. Pitt & Robinson, Manning Chambers, want tenders for excavation work on Christie avenue.—Tenders are wanted at 678 Dufferin street for erection of brick dwelling.—The following building permits have been issued by the City Architect: A. D. Howard, 2-storey brick dwelling, 34 Dale avenue, cost \$6,500; J. Fox, pair roughcast dwellings, brick fronts, 403-5 Leslie street, cost \$2,800; J. Percy, 2-storey and attic brick dwelling, 63 Woodlawn avenue, cost \$3,500; S. B.

Coon, 2½ storey brick dwelling, Avenue road, cost \$7,000; Mrs. Reesor, pair semi-detached 2 storey and attic brick dwellings, MacPherson avenue, cost \$7,000; Hobberlin Bros., 4 storey brick store, 7-9 Richmond street east, cost \$35,000; W. C. McTaggart, 3 pair semi-detached 2 storey roughcast dwellings, brick fronts, 47-57 Hamburg avenue, cost \$9,600; J. H. Murray, 2 storey brick dwelling, Lynwood avenue, cost \$3,500; A. A. Kennedy, 2½ storey brick dwelling, corner Bloor street and Euclid avenue cost \$8,000; J. A. Carlaw, 2 storey and attic brick dwelling, Avenue Road Hill, cost \$7,700; Wilkins & Co., 3 pair semi-detached 2 storey brick dwellings, corner Spadina road and Dupont street, cost \$15,000; T. Blackburn, pair semi-detached 2 storey and attic brick dwellings, 206-8 Broadview avenue, cost \$6,500; B. Pears, 3 attached 2 storey brick dwellings, Birch avenue, cost \$7,000; G. N. Totten, pair semi-detached 2-storey roughcast dwellings, corner Wardell and Cumming streets, cost \$3,000; H. J. Carter, 2½ storey brick dwelling, 396 St. Clarens avenue, cost \$3,000; D. S. Chamberlain, 2 storey brick warehouse, Dovercourt road and Armour street, cost \$5,800; W. H. Avison, pair semi-detached 2 storey brick dwellings, 180-2 Margueretta street, cost \$5,000; G. Loughheed, 2½ storey brick dwelling, Simpson avenue, cost \$3,000; J. Gaylord, 2 storey brick dwelling, Pearson avenue, cost \$3,000; W. H. Fennick, 2 storey and attic brick veneer dwelling, 500 Logan avenue, cost \$3,000; G. T. Jackson, 2½ storey brick dwelling, 82 River street, cost \$2,800; Toronto Theatre Co., 3 storey brick and steel theatre, Richmond street, cost \$70,000; H. E. Bond & Co., 5 storey brick warehouse, corner Simcoe and Wellington streets, cost \$80,000; Industrial Exhibition Association, 1 storey brick and steel exhibit building, Canadian National Exhibition, cost \$38,000; W. G. Brown, pair semi-detached 2 storey and attic brick dwellings, Broadview avenue, cost \$6,000; Canada Pride Range Company, 2 storey frame warehouse, Dundas street, cost \$8,500.

CONTRACTS AWARDED.

PORT ARTHUR, ONT.—Erection of Clavet block: A. Hamer, contractor.

VICTORIA, B.C.—Erection of ereosoting plant for the city: A. Gray, successful tenderer.

CHATHAM, ONT.—Erection of hotel building for Hogan & Hoy: Piggott & Sons, contractors.

SINTALUTA, MAN.—Erection of public school building: Hunter, Cantelon & Co., contractors.

SARNIA, ONT.—Alterations to Post Office for Dominion Government: Corrick & Sons, this city, contractors.

HALIFAX, N.S.—Erection of three-storey brick building for C. F. Doyle: E. J. Horn, this city, contractor.

INDIAN HEAD, SASK.—Erection of brick church for St. Andrew's congregation: Hunter, Cantelon & Co., contractors.

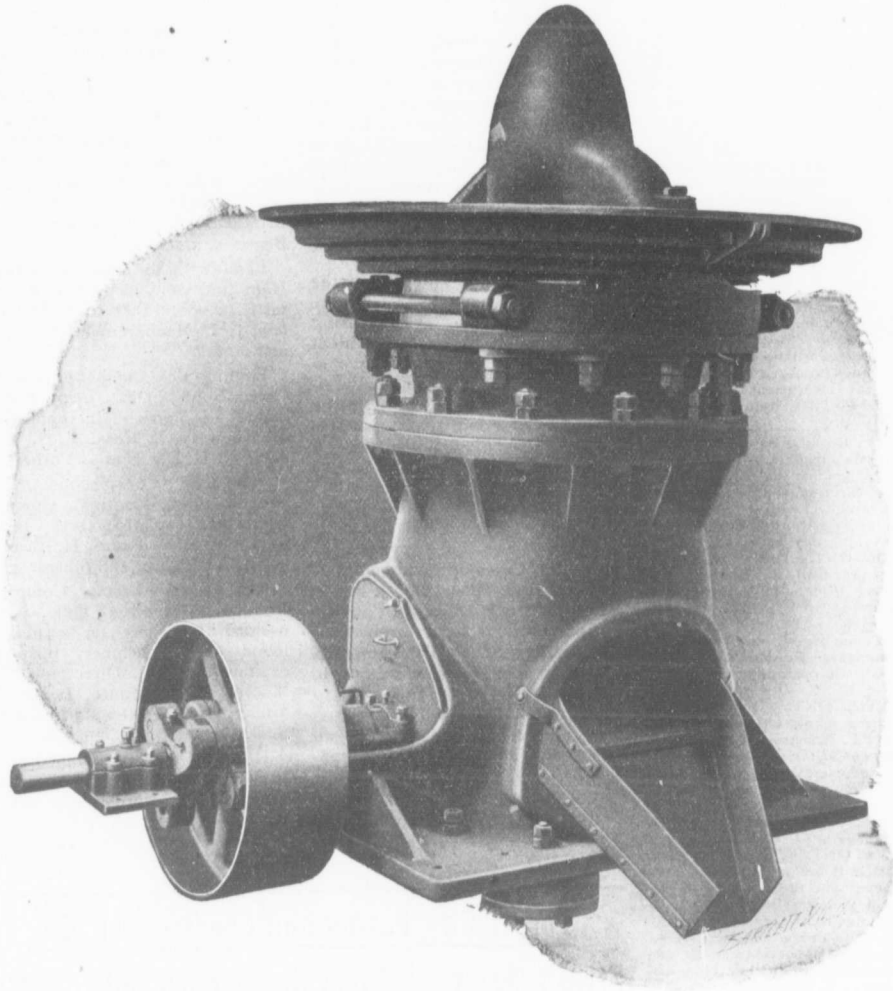
STRATFORD, ONT.—Construction of structural steel workshops of G.T.R.: Canadian Bridge Co., Montreal, contractors.

WALKERVILLE, ONT.—Erection of warehouse for Hiram Walker & Sons: Bollinger-Andrews Construction Co., Pittsburg, Pa., contractor.

VANCOUVER, B.C.—Erection of west end firehall for city: P. Tardiff, successful tenderer, at \$17,500. Other bidders, C. P. Shindler, \$18,970, and E. Cook, \$18,700.

COLLINGWOOD, ONT.—Erection of two-storey addition to the Toronto House: Masonry, R. Patterson; carpenter work, D. Peterm an & Son; plumbing, Caslake &

Rock Crushing Plants



The demand for crushed rock is increasing rapidly for railroad ballast, Portland cement, fluxing purposes in smelting plants, "Good Roads," etc. Bulletin 1411 describes the machinery and appliances, including the Gates "K" gyrotory breaker shown above, used in MODERN ROCK CRUSHING Plants. Included also are sectional plans of a large number of plants in active operation, from which intending purchasers may get valuable hints in preparing data for plans and specifications.

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Lockerbie; painting, J. Gooden; plastering, J. Lockton.

SYDNEY, C.B.—Erection of brick and stone church for St. Andrew's congregation: W. K. McDonald, contractor. W. C. Douglas, architect. Estimated cost \$40,000.

WELLAND, ONT.—Erection of residence for M. C. Goodsir: J. Brown, contractor.—H. J. Griffith has contracts for plumbing in O'Neill's block and residence for S. Grabel.

MONTREAL, QUE.—Erection of new church building on Snerbrooke street for First Baptist congregation: J. Quinlan & Co., this city, contractors. Mitchell & Creighton, architects.

MASSEY, ONT.—Construction of steel superstructure of bridge over Spanish river for Provincial Government: Dickson Bros., Campbellford, Ont., successful tenderers. Estimated cost \$20,000.

SUDBURY, ONT.—Construction of line from this town to Bolton for C. P. R. and erection of a number of buildings for the same company: Woolrich, Leslie & McClarty, Owen Sound, contractors.

WINNIPEG, MAN.—The Board of Control have recommended that tender of W. F. Lee be accepted for supply of Sampson brand Portland cement.—Erection of addition to Agricultural College for Provincial Government: May-Sharp Construction Co., this city, contractors.

GUELPH, ONT.—Supply of iron gas pipe for city: Reading Pipe O., Reading, Pa., successful tenderers.—Erection of addition to building of Guelph Axle Works: W. Stratton, contractor. L. C. Wideman, architect.—Erection of addition to Ontario Agricultural College: The Clemens Co., this city, contractors.

LONDON, ONT.—The Board of Education have practically decided to accept the following tenders for St. George's School addition: Brick work, J. Garratt; carpenter work, J. Purdom; plastering, G. Gould; steam heating and ventilating, Pease Company, Toronto; plumbing, Smith Bros. & Co.; painting, Baldwin & Lewis.

TORONTO, ONT.—Installation of electric wiring in St. Lawrence Market for the city: F. Armstrong Co., successful tenderers at \$1,125.—Erection of addition to Confederation Life building: Masonry, Brown & Love; carpenter work, A. Clarke & Sons.—Building of dredge for the city: Polson Iron Works, successful tenderers.

OTTAWA, ONT.—The Building Committee of the Board of Education have recommended that the contract for installation of plumbing system in three school buildings be awarded to J. R. McLennan at following figures: First avenue, \$4,280; Osgoode street, \$3,788; Percy street, \$3,350. Other bidders—Butterworth & Co., First avenue, \$7,708; Osgoode, \$6,334; Percy, \$5,104; Blyth & Halloway, Percy, \$4,070; McKinley & Northwood, First avenue, \$5,245; Osgoode, \$4,498; Percy, \$4,763; Thompson & Livock, First avenue, \$7,668; Osgoode, \$6,354; Percy, \$7,351; Knox Bros., First avenue, \$4,063; Percy \$3,993.

THE OUTLOOK.

During the past week the price of iron has advanced and a rise in cast iron pipe is looked for shortly. Water pipe is quoted at \$36 per net ton at the foundry and \$37 to \$38 at Montreal, gas pipe being \$1 higher. Demand for structural steel continues active with prices firm.

In Toronto the demand for structural iron and steel is very active and the scarcity of iron pipe has caused an advance during the past week. Wrought steam and water pipe is now quoted as follows: Black, $\frac{1}{4}$ and $\frac{3}{8}$ in., \$2.31; $\frac{1}{2}$ in.,

\$2.81; $\frac{3}{4}$ in., \$3.80; 1 in., \$5.45; $1\frac{1}{4}$ in., \$7.43; $1\frac{1}{2}$ in., \$8.81; 2 in., \$11.88; $2\frac{1}{2}$ in., \$10.50; 3 in., \$25.50. Galvanized, $\frac{1}{4}$ and $\frac{3}{8}$ in., \$3.14; $\frac{1}{2}$ in., \$3.66; $\frac{3}{4}$ in., \$4.95; 1 in., \$7.10; $1\frac{1}{4}$ in., \$9.68; $1\frac{1}{2}$ in., \$11.61; 2 in., \$15.48; $3\frac{1}{2}$ in., blk., \$32; 4 in., \$36.25.

Portland cement is still greatly in demand and consequently prices remain firm. American cement is steady at \$1.10 per barrel, while English is unchanged at \$1.80 to \$1.90 per barrel in jute sacks (including cost of sacks) and \$2.10 to \$2.20 in wood. Belgian is quoted at \$1.75 to \$1.90 in wood.

CEMENT SHORTAGE IN AUSTRALIA.

The Sidney correspondent of the London Commercial Intelligence writes that there is an increasing shortage in the Australian cement imports which is occasioning considerable inconvenience, notwithstanding the fact that large quantities of good quality are produced in the Commonwealth. A few years ago there were extensive stocks on hand, almost unsalable, despite the low prices then ruling, but at the present time there is practically none, and every consignment for Commonwealth ports is sold at full rates before being landed. This is affording a powerful stimulus to local production, which in New South Wales amounts to 70,000 tons per annum, and in Victoria and South Australia to about 10,000 tons each. The Australian article is protected by an import duty of 18 cents per hundredweight, but this is insignificant just now, for prices have advanced \$1.50 per ton, notwithstanding which manufacturers are rushed with orders.

NEW COMPANIES.

Quebec Manufacturing Company, Windsor Mills, Que., incorporated to carry on a general lumber business, capital \$16,000. Incorporators, J. A. Begin, E. H. Begin, F. Millett, all of Winsor Mills, and others.

Norton Telephone Manufacturing Company, Limited, Toronto, incorporated, capital \$40,000. Directors, J. E. Day, J. M. Ferguson, E. V. O'Sullivan and others.

St. Mary's - Medina Telephone Company, Limited, St. Mary's, Ont., incorporated, capital \$40,000. Directors, W. J. Atkinson, E. McKim, J. W. Stewart, W. F. Brown and others.

Laidlaw Litho Company, Limited, Hamilton, Ont., incorporated, capital \$100,000. Directors, R. Laidlaw, J. I. MacLaren, R. T. Steele and others.

Folding Box Company, Limited, Owen Sound, Ont., incorporated, capital \$49,000. Incorporators, M. Kennedy, N. Ross, A. G. MacKay, H. B. Harrison and others.

Provincial Construction Company, Limited, Montreal, Que., incorporated, capital \$20,000. Incorporators, J. B. Pauze, H. Beauregard, F. Trudeau and others.

The Garry Brook Company, Limited, Alexandria, Ont., incorporated to carry on a general foundry and machinery business, capital \$100,000. Directors, A. A. MacIntosh, H. Munro, J. A. McMillan, D. R. McDonald and A. L. Smith.

Hawken Milling Company of Wallaceburg, Limited, Wallaceburg, Ont., incorporated, capital \$40,000. Directors, A. J. Hawkin, S. Somers, T. F. Hirmegan, J. W. Husband and H. A. Stonehouse.

Forest City Paving and Construction Co.

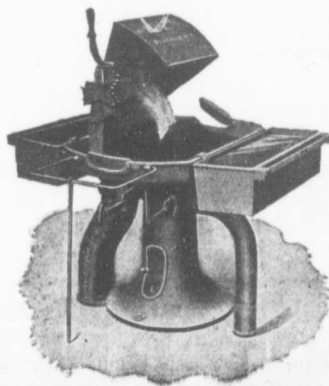
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CANADIAN BUFFALO FORGE CO.
Limited MONTREAL.

CEMENT SIDEWALK SPECIFICATIONS.

The following specifications formed a part of the paper read by Albert Moyer, New York City, at the convention of the National Association of Cement Users in Chicago.

Sidewalks in cold climates where frost occurs should consist of a foundation of coarse cinder, broken stone, brickbats or other porous material, extending below the frost line, the concrete to be laid on this foundation. Do not lay concrete in freezing weather.

Drainage Foundation.—Excavate to a sufficient depth so as to get below the frost line, ram and tamp the ground thoroughly and evenly, fill in with clean cinders, broken stone or brickbats to within — in. of top of the established grade of the pavement (a sufficient number of inches to provide for the thickness of slab necessary to give sufficient strength for the character of the work it is to perform); tamp this drainage foundation well and evenly, thoroughly wet the cinders, stone or broken brick, place in position wooden forms in a manner necessary to accurately outline the top and external edges of the walk, the top of the form being located so as to coincide with the established grade of the walk. As an additional precaution, and where necessary to accomplish the purposes of drainage,

side drains should be placed every 10 or 12 feet, having a fall of not less than 1/4 inch to the foot, leading to some point forming an outlet for water which may accumulate. This outlet should be below the frost line and may be accomplished by a hole filled with cinders, stone or brickbats.

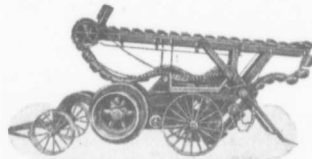
Concrete Base.—For a concrete base spread — inches, number necessary to provide for the thickness of slab which will come to within 1 inch of the top of the established grade; this concrete to be composed of one part Portland cement and two and a half parts sand or quarry screenings, all pass-

ing 1/4-inch mesh, and five parts broken stone or gravel, all passing 1-inch mesh.

These specifications may be regulated if proportions can be obtained which will allow of a larger proportion of broken stone, at the same time giving maximum density. Tamp the concrete to an even thickness, cut same into uniform squares of not over 6 feet square, using a steel cleaver of not less than 1/2 inch and not over 1/4 inch in diameter. Fill the joints thus formed with dry sand, so that there is no possibility of the square blocks ad-

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is used throughout the world. Will do more work with less labor, at a less first cost than any Excavator at present in use in Canada. For particulars write G. P. WALLINGTON, Canadian Representative, 11 Front Street East, Toronto



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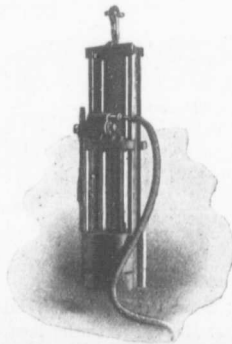
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hering together. Mark on the wooden forms the exact locations of these cuts. After each batch of concrete is laid as required, it shall be immediately covered with a top coat, or wearing surface, no dirt or dust having been allowed to accumulate on the base and the surface of the base to be wet or moist. Any portion of the foundation which has been left long enough to have the appearance of setting or hardening shall be taken up and relaid before the top coat is put on.

Place a 2 x 3 inch strip parallel with sides of waik, in such position as will form square blocks, of equal dimensions, not over 6 feet wide; brace frame with stakes, but do not nail to frame; then cut a strip 2x3 inch, the length of which is to be the width of the blocks. Place this strip so as to form a square block. On inside of strips place thick tar or felt paper, $\frac{1}{4}$ inch thick and 3 inches wide; fill in the space thus formed with concrete composed of one part Portland cement, two and one-half parts sand and five parts crushed stone or gravel, mixed thoroughly. Tamp concrete thoroughly to an even thickness of 3 inches, then remove strip; the tar paper will adhere to the concrete. Move the strip to the next position, place the thick tar or felt paper as before, and proceed the same with each block, laying alternately. Put on top coat before first block made starts to set or harden, and in regular order as blocks were made.

Top Surface.—For wearing surface, mix one part Portland cement with two parts crushed granite or other hard stone, all of which will pass through a $\frac{1}{4}$ inch mess screen, or good coarse sand; mix by turning with shovels, raking with a garden rake as each shovelful is turned, turn twice dry and twice wet; add sufficient water to make a plastic consistency, so that when floated or troweled very little water rises to the surface. Spread this mortar over concrete base to a thickness of 1 inch. Work to a flat surface with a straight edge, smooth down with float and trowel after surface water has been absorbed. Be careful to get an even surface, bringing no neat cement to the surface and avoiding float and trowel marks.

Cut top surface directly over cuts made in base; cut entirely through top and base all around each block. Finish joint thus made with a jointer and round or bevel all edges.

Monolithic Slab.—As an alternative, and instead of using a top coat, make one slab of selected aggregates for base and wearing surface, filling in between frames concrete flush with established grade. Concrete to be of selected aggregates, all of which will pass through a $\frac{3}{4}$ inch mesh sieve; hard, tough stones or pebbles graded in size, proportioned to be 1 part cement, 2½ parts crushed hard

stone screenings or coarse sand, all passing a $\frac{1}{4}$ inch mesh, and 5 parts crushed hard stone or pebbles, all passing through a $\frac{3}{4}$ inch mesh. Tamped to an even surface, prove surface with straight edge, smooth down with float or trowel, and in addition a natural finish can be obtained by scrubbing with a wire brush while concrete is "green," but after final set.

Expansion.—Do not allow any block to bear directly against any solid body, such as stone curb, building, post, manhole rim, etc. Leave the same space (about $\frac{1}{4}$ inch) between pavement and such fixtures as is between the blocks themselves. This applies to the base and top as designed to avoid cracks and chipping due to expansion and contraction from temperature changes. This space can be conveniently provided for by the use of thick tar paper or felt, waterproofed with any of the reliable waterproof paints.

Protection and Seasoning.—Immediately as finished cover pavement so as to protect against rays of sun and drying, raising covering a few inches so as not to come in contact with the surfaces after pavement has reached hard set, sprinkle frequently, two or three times a day, with a garden hose or sprinkler for a week or more.

The Saskatchewan Construction Company, Limited, have changed their name to the Municipal Construction Company, Limited.

NOTES.

The Composite Brick Company, Limited, Regina, Sask., are said to be making arrangements for the sale of their business.

The business of Faircloth & Company, dealers in art and stained glass, Toronto, has been formed into a joint stock company under the style of the Faircloth Art Glass & Decorating Company, Limited.

The Alsip Brick & Tile Company have recently acquired 12 acres of rich clay land on the Kaministiquia River on which a brick making plant of 40,000 brick per day capacity is to be established.

The Department of Public Works, Ottawa, have appointed Mr. H. J. Lamb, C.E., London, Ont., supervising engineer for the Dominion Government in connection with the construction of the Detroit River tunnel in so far as the work affects navigation in Canadian waters.

The British Columbia General Contract Company, of Vancouver, have purchased the business of the Glenboro Quarry Company. The property taken over is one of the largest stone quarries in Alberta and it is the intention of the new proprietors to install new machinery and to generally improve the plant.

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OF PARTICULAR INTEREST TO MUNICIPALITIES

HOW TO MAKE A RUST JOINT.

Mix ten parts iron filings and three parts chloride of lime to a paste by means of water. Apply to the joint and clamp up. It will be solid in twelve hours.

NOTES.

A recent issue of the Canada Gazette contains notice of the incorporation of the J. W. Harris Manufacturing Company, Limited, who are authorized to carry on business as engineers, machinists, contractors, etc., as well as to take over from J. W. Harris all patents issued on the J. W. Harris Excavator. Among those interested are: T. Craig, W. B. Powell, W. H. C. Mussen, F. D. Monk, and J. W. Harris. The authorized capital is fixed at \$1,000,000 and the head office is at Montreal.

The report of the Light and Heat Commission of Guelph, which owns and operates its own plant, is as follows: "The net gain on operating account for the past month is \$9,659.82, and shows a gain for the same fund over 1906 of \$2,135.33. A net gain for the nine months past was made amounting to \$25,888.10, and after deducting a fixed liability for interest and county fund on

debentures, leaves \$15,148 to the good. The gain for the nine months over 1906 is \$4,976.85. An increase of 1,377,150 cubic feet of gas was sold during the quarter. There was an increase in electric lighting current of 8,470 k.w. hours."

A new Canadian cement plant will be erected at Ben Allen, Ont., by the Ben Allen Cement Company, of Owen Sound, Ont. The company is capitalized at \$500,000, with shares of the par value of \$50 each, and the officers are as follows: John McMillan, president; Charles Pay-

ton, vice-president; D. McCracken, secretary-treasurer; William J. McLeod, assistant-secretary; John T. Henley, managing director; James Morrison and John Gibson, with the officers, are directors of the corporation. The company owns 140 acres of marl lands at Ben Allen, with an average depth of twelve feet; the marl is underlaid with clay of suitable quality for cement manufacture. Transportation facilities are furnished by the Grand Trunk, which crosses the property, and the C. P. R. fleet of steamers at Owen Sound, four miles distant.

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Driller of Oil, Gas, Salt or Artesian Wells. Deep Wells a Specialty.

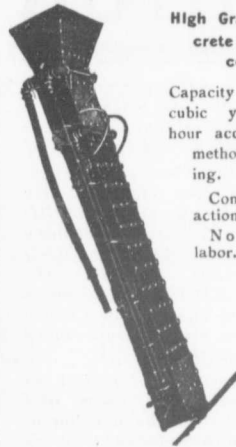
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Contracts taken in any part of Canada. Several years experience in Artesian Wells for Municipal Water Works. Estimates or geological information cheerfully furnished.

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A FIREPROOF CELLULOID.

A process has been recently devised by some European scientists by which celluloid is rendered fire-proof. This is done by the addition of some chemical salts to the celluloid during the process of manufacture when the material is in a fluid state. Under the action of heat these salts give off gases in such quantities as to interfere with combustion, which makes the celluloid perfectly safe. The addition of this material does not interfere with the fabrication of the celluloid for any purpose whatever.

NOTES.

Mr. J. Rattray Willson, architect, Niagara Falls, N.Y., has opened an office at Welland, Ont.

The contracting firm of Hamelin & Lapointe, Montreal, has been registered.

A concrete building in Milwaukee recently went through an accidental test that well shows the stability of such construction, when properly executed with good materials. The building has a concrete frame and walls, all the concrete being made with Dragon Portland cement, and there are numerous large windows and doors. An explosion of acety-

lene occurred in it on April 2, killing or injuring everybody within, and blowing the windows, doors and woodwork into pieces. An examination of the structure by a correspondent revealed no crack or blemish anywhere on the concrete. The effect of such explosions on brick and timber buildings is proved by the records of the National Fire Protection Association to be very destructive, which makes the showing by this concrete structure all the more creditable. It is not surprising, however, that the building withstood the test, for its monolithic nature specially fitted it to do so.

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Only a small percentage of those who use brick understand the nature of the material used or the process of manufacture.

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The government report on the analysis of clays and shales used in the making of brick in Ontario tells the story as to material—and it is all the way in favor of MIMICO RED PRESSED BRICK.

As you may not have seen this report we'll give you its exact import next week.

Then as to the mode of manufacture:—The last thing done with the pulverized SHALE (not mud), BEFORE the brick is set for burning, is to put it through presses capable of exerting a pressure of 12 (TWELVE) Tons to the square inch—a pressure many times more than ordinary brick can stand after burning.

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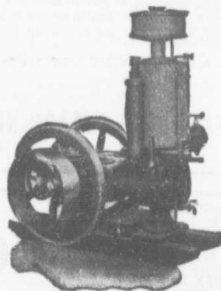
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PERSONAL.

Mr. C. H. Mitchell, C.E., for some time a resident of Niagara Falls, Ont., has decided to move to Toronto.

Mr. W. R. W. Parsons, late City Engineer of Stratford, Ont., has left for Regina, where he will form a partnership with his brother, Mr. J. L. R. Parsons, C.E.

Mr. J. B. McColl, C.E., of the city engineering staff of Winnipeg, has resigned his position to enter business for himself. Before leaving the employ of the corporation he was presented with a silver mounted umbrella by his fellow employees.

Mr. O. W. Smith, C.E., of Galt & Smith, consulting engineers, Toronto, recently visited Indian Head, Alta, for the purpose of inspecting the waterworks and sewerage systems lately constructed in that city. Mr. Smith also visited Fort Frances and other points in connection with works of a similar nature.

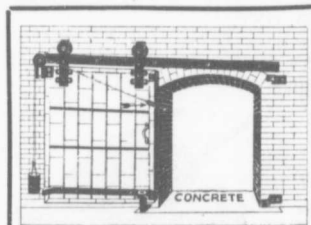
NOTES.

Hennault & Hefferman, who are installing a system of waterworks for the city of Portage La Prairie, have assigned to the Canadian Bank of Commerce.

The Canadian Fairbanks Company, Limited, of Montreal, have opened a branch office at Quebec under the management of Mr. R. Miquelon.

The Phoenix Bridge Company, Phoenixville, Pa., recently gave a banquet to its staff of engineers and draftsmen in commemoration of the completion of the general and working drawings for the Quebec bridge. This task was started about ten

Continued on Page 16.

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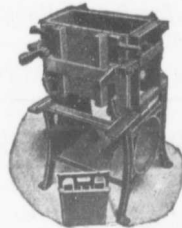
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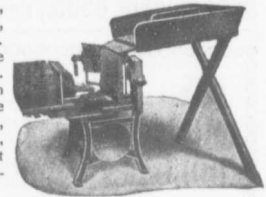
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years ago and several years were spent in preliminary work before the preparation of the final working drawings was begun about three years ago.

The plant of the International Portland Cement Company, at Hull, Que., was visited last week by His Excellency Earl Grey and party. Mr. J. S. Irvin, managing director of the company, acted as guide, and explained the several processes through which the limestone and clay are subjected before they became Portland cement. Before leaving, the Governor - General thanked the officers for their kindness, and intimated that he would again visit the works at some future time, when he would have leisure to study the industry more closely.

The first annual meeting of the Nova Scotia Society of Engineers was held at Halifax, N.S., on May the 7th. The Secretary submitted his report showing the membership of the Society to be 146. At a subsequent meeting the constitution was adopted and a number of important papers were read. On May 8th the members went by special train to Liverpool, where the Mersey Bridge, pulp mill and hydro-electric plant were visited. The following officers were elected for the ensuing year: President, R. McColl, Provincial Engineer; 1st Vice-President, J. A. Winfield; 2nd Vice-President, P. A. Freeman; Secretary, Professor E. Brydone-Jack; Treasurer, S. Fenn.

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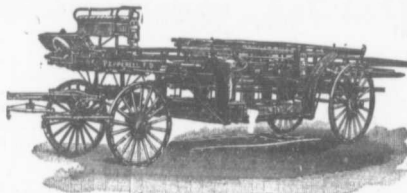
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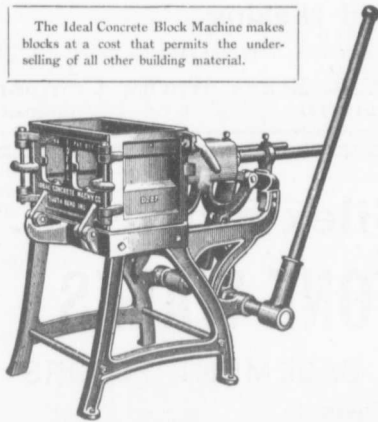
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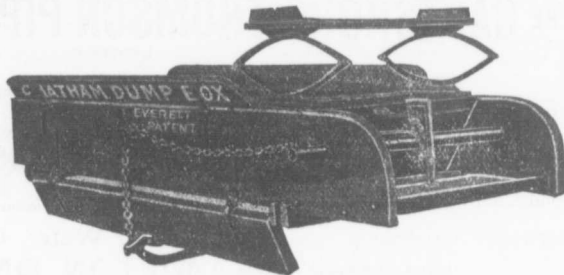
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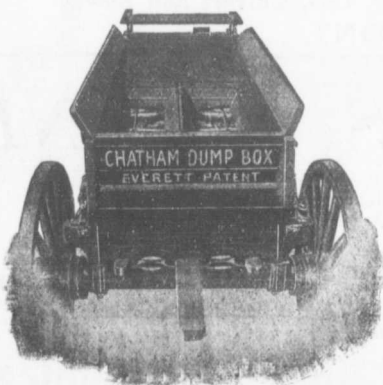


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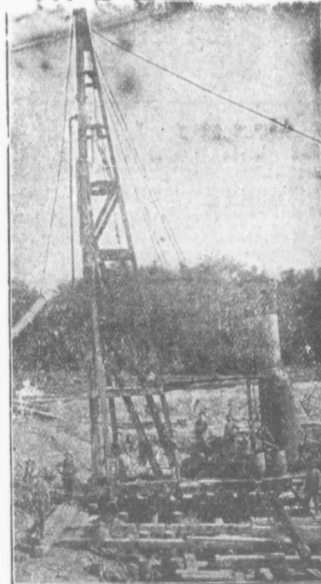
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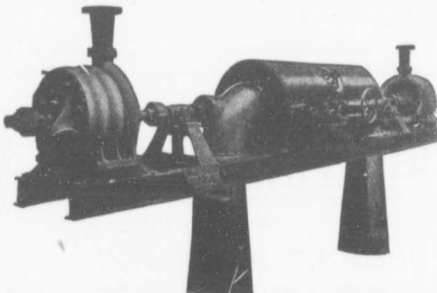
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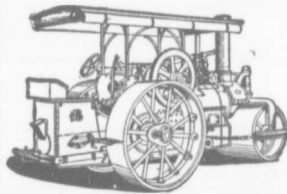
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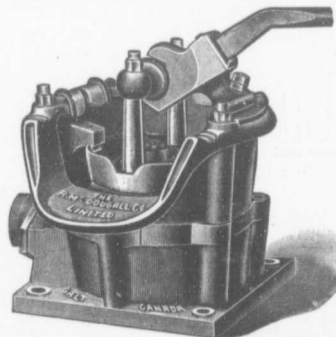
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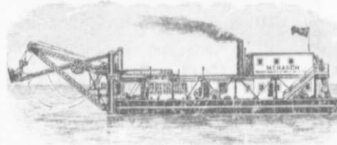
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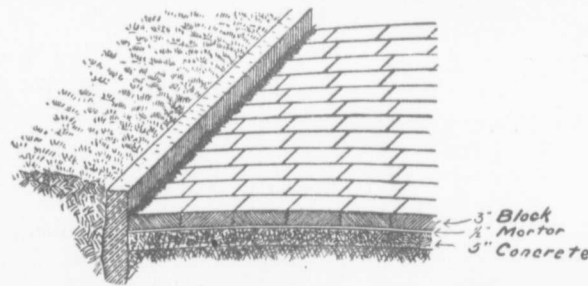
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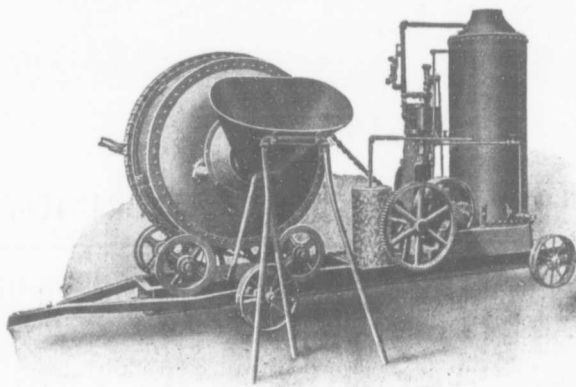
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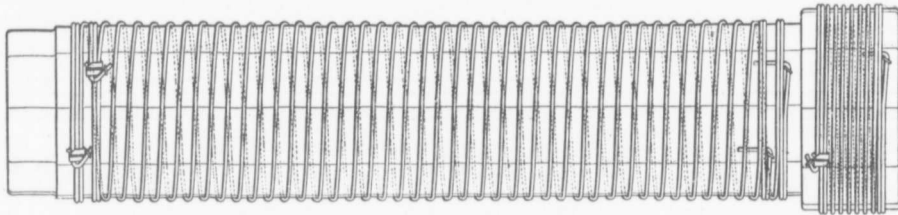
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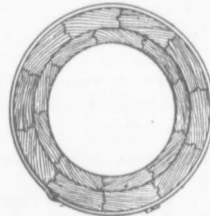
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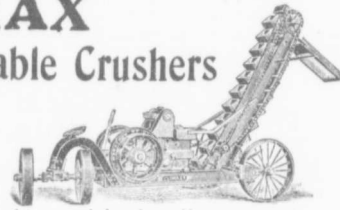
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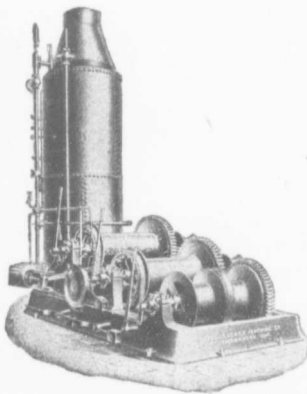
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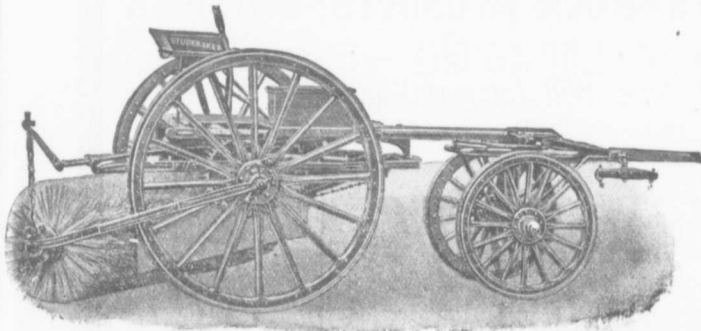
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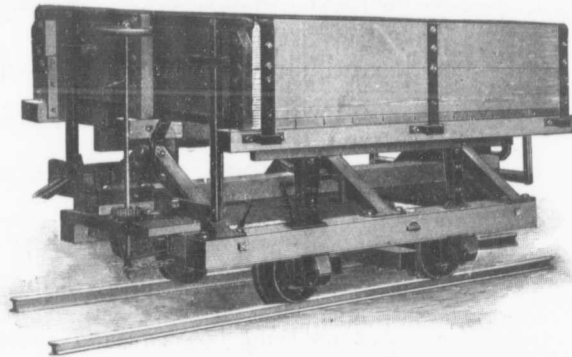
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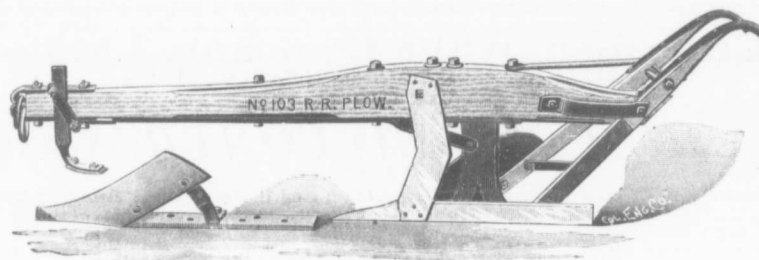
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