

# CANADIAN Contract Record

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

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

VOL. 15.

TORONTO, MONTREAL AND WINNIPEG, OCTOBER 12, 1904

No. 35

## THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the Canadian Architect and Builder.

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

## THE C. H. MORTIMER PUBLISHING COMPANY

of Toronto, Limited.

CONFEDERATION LIFE BUILDING, TORONTO.  
Telephone Main 2369.

Branch Offices:

38 Alliance Building, Montreal,  
Telephone Main 2999.

310 McIntyre Block, Winnipeg,  
21 Great St. Helen's, London, England.

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

## BRICK CLAY FOR SALE

Twelve miles west of Toronto, on C.P.R.  
Tested and proven A1; 50 acres. Apply  
HAINES ESTATE,  
Dixie, Ont.

## To Contractors

Lump or separate tenders will be received until SATURDAY, THE 15TH INST., for the  
Concrete, Brick, Cut Stone,  
Steel, Carpentering

and other necessary trades, etc., work required in connection with the erection of an Office Building on premises No. 8 and 10 King Street West.

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

R. J. LENNOX, Architect,  
Toronto, Ont.

## TENDERS

### Collegiate Institute Building

GALT, ONTARIO

Separate or lump tenders for the various trades, addressed to Thomas Carscadden, Secretary Collegiate Institute Board, Galt, Ont., will be received until 6 o'clock p. m. of MONDAY, OCTOBER 17TH, 1904, for the erection and completion of a proposed Collegiate Institute Building at Galt, Ontario, to be erected on the site of the present Collegiate Institute Building, formerly the Dr. Tassie School.

Drawings and specifications can be seen, and all other information obtained at Galt, also at Hamilton, Ontario, at the offices of the Architects, Stewart & Witton.

The lowest or any tender not necessarily accepted.

## SEALED TENDERS

will be received by me up to 10 p. m. OCTOBER 12TH, 1904, for \$7,000 New Hamburg Debentures, payable in twenty equal payments of \$350.13, including interest at 4½ per cent.

WM. MILLAR,  
Town Clerk.

## FOR SALE

\$50 Gurley Transit (5" Needle), bevel and clamp to telescope; no vertical circle, no stadia hairs; in good condition. Address Box No. 22 CONTRACT RECORD, Toronto, Ont.

## TO CONTRACTORS

Tenders will be received at the office of the undersigned until SATURDAY, OCTOBER 15TH, for the various works required in the erection and completion of

### Two Pair of Semi-Detached Houses

in Lamb Avenue, for the Lamb Estate.  
The lowest or any tender not necessarily accepted.

SYMONS & RAE, Architects,  
15 Toronto Street, Toronto.

## \$35,000 County of Oxford Debentures for Sale

By-Law No. 519 of the County of Oxford provides for raising \$35,000 by the issue of debentures payable in 20 equal sums, including interest at four per cent, per annum of \$2,375.36 on the 1st day of December in each of the years from and including the year 1905 to and including the year 1924. Sealed tenders (marked tender for debentures) will be received for the above issue of debentures or any number thereof, addressed to the undersigned until noon of the 15th DAY OF NOVEMBER, 1904.

Copies of the By-Law and the conditions upon which tenders are to be submitted, with all necessary information may be had on application by letter to the undersigned.

JAMES WHITE,  
County Clerk.

Woodstock, Oct. 10th, 1904.

## CONTRACTS OPEN.

CALEDONIA, ONT.—W. T. Walker intends building a residence.

PRINCE ALBERT, N.W.T.—It is proposed to install a waterworks system here.

HALIFAX, N. S.—The city council have decided to purchase 2,000 feet of fire hose.

HESELER, ONT.—The Baptist church here is to be remodelled, at a cost of \$4,000.

PORT HOPE, ONT.—The Presbyterians are considering the erection of a new church.

HUNTSVILLE, ONT.—Mr. Lewis intends building a new boat, to cost about \$40,000.

GAINSBORO, N.W.T.—J. A. Cameron, of Glencoe, Ont., will establish a grist mill here.

ANTRIM, ONT.—It is proposed to build a new hall for Fitzroy Township, at a cost of \$2,000.

WALKERVILLE, ONT.—Gardiner Bros. purpose removing their basket factory to New Ontario.

CLAY BANK, ONT.—Peter Duff will receive tenders up to 25th inst. for erection of school house.

NORTH TORONTO, ONT.—A. J. Hulme, of Gormley avenue, purposes building another residence.

PICTOU, N. S.—St Andrew's Presbyterian congregation purpose installing a \$3,000 organ in their church.

GUELPH, ONT.—Work is to be started at once on the new conservatory at the Ontario Agricultural College.

ATWOOD, ONT.—Thomas Fullarton desires tenders by October 17th for the improvement of the Wilson drain.

NEW HAMBURG, ONT.—William Millar is asking for bids by 25th inst. for purchase of \$7,000 debentures.

EAST TORONTO, ONT.—Plans have been completed for a new High school and tenders will be taken at once.

NIAGARA FALLS, ONT.—E. D. Pitt, architect, is asking for tenders for a brick veneer dwelling for F. Le Blond.

WOODSTOCK, ONT.—Steps have been taken looking to the erection of a curling and skating rink to cost \$4,000.

BRANTFORD, ONT.—The Mickle-Dyment Company have purchased the adjoining lot and purpose extending their factory.

NORTH BAY, ONT.—Mr. Angus, architect, has been instructed to prepare plans for alterations and improvements to the hospital.

PEMBROKE, ONT.—The second lot of tenders for \$15,000 county debentures were opened last week but no tender was accepted.

LISTOWEL, ONT.—The council intend building a new bridge at Bismarck street next spring, with steel girders and concrete covering.

TRURO, N. S.—Dugald Henderson, architect, is preparing plans for the proposed building for the poor to be built by Colchester County.

BAYFIELD, ONT.—A by-law to grant a loan of \$1,500 to Alex. Mustard to assist him in rebuilding his saw mill was defeated by the ratepayers last week.

BRADFORD, ONT.—It is understood that the Dominion Government are having plans prepared for the wharf to be built at the Holland River bridge.

**ST. FIDELE, QUE.**—The Dominion Government is asking for tenders up to 18th inst. for the construction of a wharf here. Plans on application to the post-master.

**PRESTON, ONT.**—C. Dolph, of the Metal Siding and Shingle Co., has asked the Council for a loan of \$15,000 for the purpose of rebuilding the factory of the company.

**BRANDON, MAN.**—Clement Bros. have purchased the north-west corner of Ninth street and Rosser avenue and will probably erect a fine brick block thereon next year.

**ST. THOMAS, ONT.**—The Aylmer Iron Works are about to build an addition.—John Heard & Co. are erecting a building 72 x 36 feet for the manufacture of waggons.

**MADOC, ONT.**—R. O'Hara, Village Clerk, desires bids by 20th inst. for purchase of \$9,000 4 per cent. debentures.—The citizens have voted in favor of an electric light plant.

**DALKEITH, ONT.**—Tenders will be received by A. N. McLeod up to 29th inst. for building new school house in section No. 4, Lochiel, to be completed by July 31st, 1905.

**GLACE BAY, N. S.**—The ratepayers will vote on a by-law October 15th to provide \$15,000 for additional electric light machinery and \$10,000 for building brick power house.

**SUMMERSIDE, P. E. I.**—Contractors are reminded that tenders for construction of waterworks and sewerage systems here are to be sent in by November 1st. H. J. Massey is Town Clerk.

**CAMPBELLFORD, ONT.**—The ratepayers will vote on a by-law to raise \$30,000 to install a new electric light plant and \$6,500 for steam heating in the Public and High schools.

**WESTMOUNT, QUE.**—It is proposed to submit a by-law to the ratepayers to provide the sum of \$225,000 for the installation of a garbage disposal plant and an electric light system.

**CHARLOTTETOWN, P. E. I.**—The DeLano Osborn Engineering Co., consulting engineers, Montreal and Toronto, are preparing plans and estimates for an electric lighting plant for this city.

**ST. SIMEON, QUE.**—The Department of Public Works, Ottawa, are asking for tenders up to Saturday, 15th inst., for construction of an approach to pier at this place. Plans at post office.

**FORT FRANCIS, ONT.**—Backus & Co. will this winter take out a million feet of pine timber for the construction of coffer dams, the construction of which will be commenced as soon as possible.

**MOOSE JAW, N. W. T.**—Tenders are invited by the Department of Public Works, Ottawa, up to October 26th for the construction of a public building here. Plans on application to the post-master.

**GALT, ONT.**—While tenders have been invited for the new Collegiate Institute building, it is not expected that work will be commenced until next spring. Stewart & Witton, of Hamilton, are the architects.

**ST. HENRI, QUE.**—The Grand Trunk Railway Co. propose to expend about \$200,000 in extending their shops at this place.—J. E. Vanier, City Engineer, has just taken tenders for certain sewerage works.

**RAT PORTAGE, ONT.**—A by-law will be submitted to the ratepayers to raise \$5,000 for the construction of an iron foot bridge across the C.P.R. tracks at Julius creek and approaches to a steel bridge across the east branch of the Winnipeg river.

**VIRDEN, MAN.**—The Department of Public Works, Ottawa, are asking for tenders up to Monday, November 7, for erection of an armory building at that place. Plans at the office of Duncan Macdonald, Mayor.

**HAMILTON, ONT.**—Building permits have been granted as follows: Imperial Cotton Co., addition to factory, cost \$2,000; H. Malcolmson, residence on Queen street, between Hunter and Bold streets, cost \$1,900.

**CHATHAM, ONT.**—The Defiance Iron Works Co., of Syracuse, N.Y., have submitted a proposition to the Council to establish a factory here.—The City Council have decided to have plans prepared for a new market building.

**WATERLOO, ONT.**—By-laws were carried here last week granting a loan of \$15,000 to the Canada Furniture Manufacturers to assist in rebuilding their factory and to raise \$20,000 for the purchase and extension of the gas plant.

**STURGEON FALLS, ONT.**—The report that the Imperial Paper Mills Co. intend extending their plant is confirmed.—Plans have been prepared for a new hotel to be built on the site of the Commercial, work to be commenced next spring.

**THOROLD, ONT.**—L. K. Jones, Secretary Department of Railways and Canals, Ottawa, is taking tenders up to 4 o'clock to-day (Wednesday) for construction of substructure of new bridge across the Well and Canal near this town. Plans at office of the Superintending Engineer at St. Catharines.

**LONDON, ONT.**—No contract has as yet been awarded for construction of a pavement on Dundas street, although the ratepayers are in favor of bitulithic.—At a meeting of the Board of Trade last week the question of increasing the water supply of the city was considered.

**VICTORIA, B. C.**—The undertaking of the Victoria Power Co. has been approved by the British Columbia Government. The company will take water from the Shawinigan lake and the Koksilah river and will carry it by means of pipes to Mill Bay, where it is proposed to build a power house for the generation of electric energy.

**SARNIA, ONT.**—A. English, Indian Agent at this place, will receive tenders up to Tuesday, 18th inst., for the construction of a steel highway bridge, 35 feet long, over Talfourd Creek, on the towline between the Township of Moore and the Sarnia Indian Reserve. Tenders may be for both superstructure and abutment or for each separately.

**ST. JOHN, N. B.**—The City Council have decided to engage F. A. Barbour, C. E., of Boston, as supervising engineer for the extension of the waterworks system to Loch Lomond. The Council have also resolved to purchase the Carleton electric light plant, to which improvements will be made.—Rev. T. W. Johnson, pastor of St. Philip's A. M. E. church, has issued an appeal for funds to build a new parsonage.

**COPPER CLIFF, ONT.**—It is announced that the Huronian Company will develop a water power at Turbine for the purpose of transmitting electricity to the Canadian Copper Co.'s mines at this place, a distance of 30 miles. It is said that the contract for electrical machinery has been awarded, but that the turbines are not yet contracted for. Ross & Holgate, Montreal, will act as consulting engineers.

**PETERBORO, ONT.**—J. E. Belcher, architect, has completed plans for the new Collegiate Institute building to be built in this city and the building committee has recommended that tenders

for erection be invited. The building is estimated to cost about \$50,000.—Willis Chipman, C. E., of Toronto, has prepared plans for a brick outfall sewer which will be built in Ashburnham; estimated cost, \$10,000.

**LINDSAY, ONT.**—A by-law was passed by the County Council on September 27th to issue \$40,000 of debentures for the purchase of a site and the erection of a House of Refuge.—A special meeting of the County Council was held recently to consider road improvements. A. W. Campbell, Provincial Road Commissioner, recommended the purchase of the necessary machinery and the inauguration of a system of improvements which would cost about \$30,000, one-third of which would be paid by the Government.

**FORT WILLIAM, ONT.**—McCranor Bros. have purchased property adjoining their hotel and intend building a large addition next year.—The Mount McKay and Kakabeka Falls Railway Co. have asked the Council for a franchise for the operation of an electric street railway.—The J. I. Case Manufacturing Co., of Racine, Wis., have purchased a considerable tract of land in the Township of Nebing, where they propose to build a factory. Colonel Ray, of this town, negotiated the deal.

**STRATFORD, ONT.**—The Board of Works will ask for tenders to construct a concrete arch culvert on Erie street.—The following building permits have recently been granted: H. J. Emm, dwelling, north side Caledonia street, cost \$2,300; James Nimick, two dwellings, Front street, cost \$1,200 each; William Proctor, dwelling, Ontario street, cost \$2,800; R. Burritt, four dwellings, Mill street, cost \$1,300 each; James Walkom, dwelling, Huron street, cost \$2,000.—Work has been commenced on a new church for the Home Memorial congregation.

**VANCOUVER, B. C.**—Julius A. Brown, of Los Angeles, Cal., has purchased the Lefevre block, corner Hastings and Seymour streets, and will next spring remodel it for the purposes of an up-to-date office building.—Dalton & Eveleigh, architects, are preparing plans for a two-storey brick building to be built on Hastings street, between Abbott and Cambie streets. Work will be started as soon as possible.—The ratepayers will likely be asked to vote a considerable sum of money for increased school accommodation.—Eighty-two building permits were issued during the month of September, representing a valuation of \$95,000.

**FREDERICTON, N. B.**—W. P. Flewelling, Deputy Surveyor General, has purchased a lot on St. John street on which he will likely build a fine residence.—The Baker Brook Manufacturing Co., organized by Donald Fraser & Sons, have leased the water power of Baker Brook and will establish a large saw mill.—Surveys are being made by the Provincial Public Works Department for a new bridge to be built across the St. John river at Pokiok.—C. H. LaBillois, Commissioner of Public Works, will receive tenders up to November 7th for rebuilding Lucy bridge in York county. Tenders for the New River Mills bridge in Charlotte county close same date.

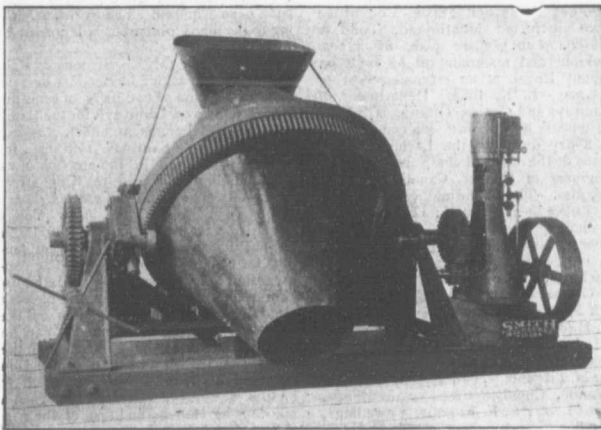
**MONCTON, N. B.**—D. Pottinger, manager Intercolonial Railway, desires tenders by Friday, 21st inst., for the grading, track-laying, ballasting, etc., for the construction of a branch line of railway to Vernon River bridge, Prince Edward Island, about 4½ miles. Plans at the office of the chief engineer here and the engineer's office, Charlottetown, P. E. I. Mr. Pottinger is also taking tenders this week for the construction of brick and stone passenger stations at Pictou and Antigonish. N. S.—Tenders



are invited b up to Octobe branch line Montague B man of the L that improv plant are ne installation of boiler, and \$10,000.

**OTTAWA,** this city hav cluding Sir Grant, J. G. upon the qu central site tractors wll erection of in this city with their of \$75,000, amount of t —The Pub ing the pur street, Dal build a new commodat gin street s ings perm Nelson, br side Seco Jones, bree side Quee Blackburn side Cricht Beaucham dwelling, \$1,900; F dwelling, \$2,500.—I been adv from Can proment Bermuda.

**WINN** of the Am enlarged following taken by ments—C ave to H street, fro ave., cost streets, f Portage l line stree avenue, c Nena str Evergree avenue, f crossing, from Yo



**THE  
SMITH  
CONCRETE  
MIXER**

The cut shows our No. 5 Smith Mixer on skids with engine connected—dumping position—This is the popular outfit with contractors mixing concrete in large quantities—Capacity 300 yards per day. . . .

We furnish mixers in sizes and styles to suit all classes of concrete work.

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

**Portland Cements**

**Highest Grade**

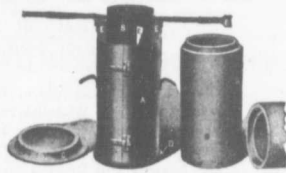
**Canadian, German, English and Belgian**

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

**F. HYDE & CO.,**

31 Wellington Street

MONTREAL



Moulds and the Tile they make.

**STEEL MOULDS**

Latest Improved  
Making 4' to 36'

**CONCRETE TILE**

All kinds of  
ROAD MAKING MACHINERY and  
CONTRACTORS' SUPPLIES.

**SAWYER & MASSEY CO., Limited**  
Hamilton, Canada.

**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**

**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

are invited by the Intercolonial Railway up to October 24th for construction of a branch line about 6½ miles long to Montague Bridge, P. E. I.—The Chairman of the Light Department has reported that improvements to the electric light plant are necessary. He advises the installation of a new generator, engine, boiler, and feed pump, at a cost of \$10,000.

OTTAWA, ONT.—The Scotchmen of this city have appointed a committee, including Sir Sanford Fleming, Sir James Grant, J. G. Turriff, and others, to report upon the question of building a hall on a central site to cost about \$10,000.—Contractors who intend tendering for the erection of the Royal Victoria Museum in this city have been requested to send with their tenders a cheque for the sum of \$75,000, instead of 10 per cent. of the amount of their tender, as at first stated.—The Public School Board are considering the purchase of a site on Concession street, Dalhousie Ward, on which to build a new school. Increased school accommodation is also required at the Elgin street school.—The following building permits have been granted: J. W. Nelson, brick veneered dwelling, south side Second ave., cost \$1,800; William Jones, brick veneered dwelling, north side Queen street, cost \$1,400; R. L. Blackburn, brick veneered dwelling, north side Crichton street, cost \$1,500; Mrs. C. Beauchamp, brick veneered and ironclad dwelling, east side Broad street, cost \$1,900; Robert Bennett, brick veneered dwelling, south side Gilmour street, cost \$2,500.—The Dominion Government has been advised that tenders are desired from Canadian contractors for the improvement of St. George's harbor, in Bermuda.

WINNIPEG, MAN.—The warehouse of the Ames, Holden Company is to be enlarged by a two-storey addition.—The following works are about to be undertaken by the city council: Asphalt pavements—Chambers street, from Logan ave. to Henry ave., cost \$3,115; Maryland street, from Helen street to Notre Dame ave., cost \$24,435; Princess and Donald streets, from Notre Dame avenue to Portage avenue, cost \$14,360; Gwendoline street, from Logan avenue to Henry avenue, cost \$3,007; Henry avenue, from Nena street to Chambers, cost \$2,650; Evergreen place, cost \$3,152; Logan avenue, from Nena street to C. P. R. crossing, cost \$32,030; Sargent avenue, from Young to Maryland street, cost

\$8,281. Macadam pavement on lane between Garry and Smith streets, cost \$1,150. Sewers—Polson avenue, from Main street to Red river, cost \$32,010; Cathedral avenue, from Main to Scotia street, cost \$3,326; Scotia street, from Athol to Cathedral ave., cost \$4,119; College avenue and Power street, cost \$3,640; Anderson ave., cost \$2,300; Broadway, from Broadway place to Rendrom street, cost \$3,618; also a number of granolithic walks.—The Manitoba Gypsum Co. purpose enlarging their mill at Gypsumville, Lake Manitoba, to a capacity of 20,000 tons annually.—M. Fortune & Co., real estate brokers, will erect a block on west side of Smith street, just north of Portage avenue, to be 73x80 feet and three stories above the basement walls.—Tenders close 17th inst. for the excavation, etc., for the new post office in this city. Plans at office of Darling, Pearson & Over, architects.—Plans of armory to be built at Virden, Man., may be seen at the office of James Chisholm, architect, in this city. Tenders close at the Department of Public Works, Ottawa, November 7.—H. B. Rugh, architect, is calling for tenders for E. H. Heath's residence in Fort Rouge, foundation to be of cement building blocks, first storey of red sand-mould veneer brick, remainder plaster and large timber, cost \$6,000.

MONTREAL, QUE.—Lewis Bros., wholesale dealers in hardware etc., have decided to erect a six-storey warehouse on Bleury street, near Craig, which will embody the latest improvements.—Plans of wharf to be built at St. Fidele, Charlevoix County, and approach to pier at St. Simeon, same county, can be seen at the office of C. Desjardins, Clerk of Works, Post-office Building, this city. Tenders

close 15th inst. and 18th inst. respectively.—The Parks and Ferries Committee have instructed Montbriand, Todd & Marchand to prepare plans for a new look-out and restaurant to be built on Mount Royal, at an estimated cost of \$15,000.—L. K. Jones, Department of Railways and Canals, Ottawa, is asking for tenders by 13th inst. for construction of a dry dock at the Lachine Canal. Plans at the office of the Superintending Engineer of Quebec Canals, 2 Place d'Armes.—The following building permits have been granted: E. Vaudelac, 3 dwellings, Lasalle ave., cost \$1,300; Robert Neville, 18 dwellings, Bishop street, cost \$50,000; Alph. Dausereau, 2 dwellings, Breboeuf street, cost \$1,200; R. Grothe, 3 dwellings, Esplanade ave., cost \$7,000; W. Ladoucerer, 9 dwellings, St. Hubert street, cost \$10,098; Jas. and Ed. Latreille, 6 dwellings, Esplanade, cost \$20,000; Terland, Mentana and Bayer, 4 dwellings, cost \$3,200; Alphonse Gagnon, Cuoulier street, 2 dwellings, cost \$2,100; C. E. Frignon, 3 dwellings, Cuoulier street, cost \$3,000; Alcide Massi, 2 dwellings, cost \$1,500; L. A. Gauthier, 3 dwellings, Frontenac street, cost \$1,000; Edward Leduc, jr., one dwelling, Sauvehir and Pacific streets, cost \$3,000; Nap. Leveille, 3 dwellings, Dorian street, cost \$2,500; Noe. Leclaire, 12 dwellings, Hotel De Ville, cost \$9,000; Geo. Reid, one residence and factory, Latour street, cost \$10,000; Damase Laclaire, 2 dwellings, Chambard street, cost \$1,500; G. A. D. Grier and Yule, one residence, Guy street, cost \$1,000.—Wilson Butler, vice-president of the Simplex Railway Appliance Co., arrived in the city on Monday last and announced that the company was ready to proceed with the extensive works to be

erected at Lachine, where 43 acres of land have been acquired. The works, according to the plans prepared, will consist of 15 buildings.

TORONTO, ONT.—Symons & Rae, architects, are asking for tenders by 15th inst. for erection of two pairs of semi-detached houses on Lamb ave. for the Lamb Estate.—E. J. Lennox, architect, is asking for tenders up to Saturday, 15th inst., for all trades required in the erection of an office building at 8 and 10 King street west.—Mr. Townsend will erect a livery stable on Yorkville ave., near Yonge street, at a cost of \$15,000.—H. Hanks & Son, 295 Lansdowne ave., want tenders for brick work of house.—The congregation of Simpson ave. Methodist church have purchased a lot and purpose building a new church as soon as the necessary financial arrangements can be made.—John McLennan has asked the Council for the lease of a site on the Don river, near Cherry street, on which to build a factory.—Tenders were opened a few days ago for the building of the new Convocation hall in connection with Toronto University, but it is understood that the tenders are so much in excess of the estimate that the plans may have to be modified.—The Board of Control have appropriated \$7,500 for new freight sheds on Harbor square.—The Board of Education have decided to ask the City Council for an additional appropriation of \$45,000 for school accommodation, as it has been found that the new school on Broadview ave. and the additions to the Cottenham and Huron street schools, on which tenders were recently taken, will cost considerably more than was estimated.—Plans for the pneumatic tube system to be installed in Toronto and Montreal may be seen at the office of

John Gal,  
There will be  
of 10 inch c  
close Nover  
buid'ng perm  
Mitchell, pai  
crete dwelli  
ence street,  
two-storey a  
dwellings, 12  
cost \$4,000  
two-storey b  
North Brils  
cost \$8,000;  
two-storey c  
dwelling, 1  
Ulster stree  
2½ storey  
Lansdowne;  
Purvis, pair  
cast dwellit  
street, cost  
pair 2½ stor  
street, near  
pair 2½ stor  
ave., near C  
St. George  
\$8,000; Da  
and stone  
Roncesvalle  
son, two 0  
and 1,361 C  
Trustees  
church, one  
corner Bat  
\$28,000;  
storey con  
dwellings,  
cost \$2,800  
storey and  
lings, Mar  
cost \$10,0  
storey bric  
Broadview  
two-storey  
ave., oppo  
Wm. Spi  
veneered c  
Dupont st  
don, pair t  
brick dwell  
cost \$6,500  
storey bri  
Wright, c  
storey an  
Major stre  
two pair t  
stone dw  
Wells, cos  
storey and  
ham stree  
T. Eaton,  
dwelling,  
dina road  
nick, six 1  
dwellings,  
cost \$7,2  
and stone  
pair 2½  
ings, cos

We Stock

# EVERYTHING

THAT A CONTRACTOR REQUIRES  
AT RIGHT PRICES

Wheel and Drag Scrapers, Wells Lights,  
Concrete Mixers, Wheelbarrows, Shovels,  
Picks, Mattocks, Lorries, Trucks, Push  
Cars, Crowbars, Light and Heavy Rails,  
Jack Screws and Derrick Fittings.

ALSO

Wire Ropes for All Purposes.  
Blocks, Thimbles, Etc., Etc.

## F. H. HOPKINS & CO.

Successors Late James Cooper  
NEW IMPERIAL BANK BLDG., MONTREAL




**PORTLAND CEMENT, HYDRAULIC LIME, CHINA CLAY**  
E. FREEMAN, 20 Bucklersbury, LONDON, ENG.



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



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

CORRESPONDENCE INVITED FOR CONTROL OF BRANDS

JOH  
Me

CONI

Da.ms.

Roof

20 Kit

J. A. L. W.

Mem. C

Mem. I

Mem. A

W

Consul

Canadian

Montreal

John Gal, C.E. & M.E. this city. There will be required 22,000 lineal feet of 10 inch cast iron piping. Tenders close November 11.—The following building permits have been granted: A. Mitchell, pair 2½ storey brick and concrete dwellings, Brock ave., near Florence street, cost \$3,200; F. Terry, pair two-storey and attic brick and stone dwellings, 128 and 130 Beatrice street, cost \$4,000; James Pengally, two pair two-storey brick and stone dwellings, North Birtle ave., near Dundas street, cost \$8,000; Messrs. Colwell & Stanton, two-storey and attic brick and stone dwelling, Palmerston boulevard, near Ulster street, cost \$4,000; Chas. Coutts, 2½ storey stone and brick dwelling, 20 Lansdowne ave., cost \$2,500; James M. Purvis, pair two-storey and attic roughcast dwellings, 79 and 81 Hamilton street, cost \$3,000; L. C. Sheppard, pair 2½ storey brick dwellings, Dupont street, near St. George, cost \$3,600; four pair 2½ storey brick dwellings, Montrose ave., near College street, cost \$13,600; and two pair 2½ storey brick dwellings, St. George street, near Dupont, cost \$8,000; David Gould, two-storey brick and stone dwelling, Wright ave., near Roncesvalles, cost \$1,800; J. A. Harrison, two one-storey brick offices, 1,359 and 1,361 Queen street west, cost \$1,000; Trustees of St. Paul's Presbyterian church, one-storey brick and stone church corner Bathurst and Barton ave., cost \$28,000; W. H. Freeman, pair two-storey concrete, brick and roughcast dwellings, Albany ave., near Wells street, cost \$2,800; John Walker, two pair two-storey and attic brick and stone dwellings, Markham street, near Herrick, cost \$10,000; W. W. Hiltz, pair 2½ storey brick dwellings, Bain ave., near Broadview, cost \$4,000; Mrs. Anderson, two-storey roughcast dwellings, Logan ave., opposite Simpson, cost \$1,400; Wm. Spradbrow, 2½ storey brick veneered dwelling, Albany ave., near Dupont street, cost \$1,200; S. J. Graydon, pair two-storey and attic stone and brick dwellings, 96 and 98 Walker road, cost \$6,500; Wm. Davies Co., Ltd., one-storey brick store, Soraraen ave., near Wright, cost \$4,100; J. Ausman, two-storey and attic brick dwelling, 268 Major street, cost \$2,000; T. McCollum, two pair two-storey and attic brick and stone dwellings, Bathurst street, near Wells, cost \$7,600; A. Brock, pair two-storey and attic brick dwellings, Markham street, near Herrick, cost \$5,000; T. Eaton, alterations to brick and stone dwelling, corner Lowther ave. and Spadina road, cost \$5,000; C. R. S. Dinick, six pair 2½ storey brick and stone dwellings, Bernard ave., near Dupont st., cost \$7,200; also four 2½ storey brick and stone dwellings, cost \$7,200; eight pair 2½ storey brick and stone dwellings, cost \$20,800; two 2½ storey brick

and stone dwellings, cost \$3,600; Frank Wootten, 2½ storey brick residence, corner Ulster and Palmerston ave., cost \$4,000; Mrs. M. Pringle, one pair 2½ storey brick dwellings, stone foundation, 17 and 19 Rose ave., cost \$5,000; Mrs. Chalcraft, 2½ storey brick residence, Bedford road, near Prince Arthur ave., cost \$6,000; G. F. W. Price, two pair two-storey roughcast and concrete dwellings, 383 and 389 Dupont street, cost \$4,000; D. and M. D. Dadson, pair 2½ storey brick and stone dwellings, Markham street, near Herrick, cost \$5,000.

**CONTRACTS AWARDED.**

**FORT ERIE, ONT.**—Ten stables at the race track: E. H. Moeller, of Buffalo, contractor.

**GLACE BAY, N.S.**—The contract has been let for a new Marconi wireless telegraph station.

**HARROW, ONT.**—Seating Baptist church: Globe Furniture Co., Walkerville, contractors.

**AMHERSTBURG, ONT.**—Brick block on Richmond street for John Burns: J. D. Wilderspin, contractor.

**VICTORIA, B.C.**—S. Maclure, architect, has let the contract to T. Catterall for making interior improvements to the Pacific Club building.

**VANCOUVER, B.C.**—Three concrete piers for the V.W. and Y. railway bridge across False creek: Armstrong & Morrison, contractors.

**FERNIE, B.C.**—Sheppard & Elliott have secured the contract for hot water heating of the New Waldorf hotel and the steam heating of the post-office block.

**SYDNEY MINES, N. S.**—Matheson & Thompson, of North Sydney, have secured the contract for supplying galvanized pipe.—Excavation of Beech street and Cambridge ave. for waterworks purposes: I. Livingstone, contractor.

**EAST TORONTO, ONT.**—Contracts in connection with waterworks system have been awarded as follows: Engines, Goldie & McCulloch Co., Galt; generator, Alfis-Chalmers Bullock, Limited, Toronto; induction motors; turbine

pumps, transformers, and two steel tanks of 100,000 gallons capacity each, Canadian General Electric Co. and Canada Foundry Co., Toronto.

**CHATHAM, ONT.**—Two residences for Calixte Bechard: Blonde Lumber Co., contractors.—New block for Samuel Glenn, William street: Blonde Lumber Co., contractors.—Wardle & Prudhomme have received the contract for mason work of new building for James Souter on Fifth street, also the mason work of new store for James Paul on Baldoon street.

**WINNIPEG, MAN.**—The Council have decided to purchase two No. 2 Silsby steam heaters, at a cost of \$303.95 each, f.o.b. Winnipeg.—A supply of valves for the city will be purchased from the Kerr Engine Co., Walkerville, Ont.—A. & W. Melville, architects, have let the contract for enlargement of the Central fire hall to E. E. Jardine, price about \$3,000.—J. H. G. Russell, architect, has let the contract for Hon. W. Hespeler's stores on Portage ave. to Mr. Martinson, cost about \$5,000.—Sproatt, Rolph & Crysler have let contracts for a residence for C. H. Campbell to cost about \$18,500.—The contract for residence for F. H. Jakewy, corner St. Mary and Colony streets, has been let to D. H. James, price \$4,000. James Christholm is the architect.—Improvements to Young street Methodist church: T. Ames, contractor.—Enlargement of Bethel church on Alexander street: Fred Maurier, contractor.—Block on Smith street for M. Fortune and Co.: James Cadham, architect; Alsp Bros., contractors; price \$30,000.—Sewer on Bannerman ave.: Dobson & Jackson, contractors, \$2,798.

**TORONTO, ONT.**—The Board of Control last week awarded the following contracts for pavements and sidewalks: Asphalt pavements—Baldwin street from

**SAND**

Why use sand containing earth and loam when you can get clear Water Washed Sand and Gravel at the same price? Why add poor sand to good cement lime and stone? It costs as much as the best and is 50 per cent. poorer.

**SAND & DREGGING, Limited**

Tel. M. 4577 John Street Dock, TORONTO

**PALMERSTON BOULEVARDE, AVENUE ROAD AND WALKER AVENUE, TORONTO,** are now being paved with the Bitulithic pavement.

Petitions have been presented from Woodlawn Avenue, Blecker, Gerrard and other streets for this pavement. Investigate it before deciding on other kinds. Estimates furnished by

**The Warren Bituminous Paving Co., Limited**  
Head Office: 164 Bay Street, TORONTO.

**JOSSON CEMENT** .. Manufactured at NIEL ON RUPELL

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works. TO BE HAD FROM ALL CANADIAN DEALERS

**C. I. de Sola, Manager in Canada** .. 180 St. James Street, MONTREAL

**The Rotary Man Power Concrete Mixer**

Capacity five cubic yards per hour.

Continuous in Action.

Specially adapted for Sidewalk and Street Work, and all classes of concrete work where a thorough mixture with but small capacity is required.

Other Mixers and Concrete Mixing Machinery.

Send for Catalogues.

**E. F. DARTNELL,**  
Montreal.



**JOHN S. FIELDING**

Mem. Soc. C. E. West Penn. '87.

**CONSULTING ENGINEER**

Dams, Mills, Bridges, Machinery.  
Room 41, National Trust Building,  
20 King Street East, TORONTO, ONT.  
Telephone Main 3488.

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

**Waddell & Hedrick**  
Consulting Bridge Engineers  
KANSAS CITY, MO.

Canadian Head Office:  
Shawing Chambers, TORONTO, ONT.  
Montreal Office: 185 St. James Street.

McCaul to Spadina, Warren Bituminous Paving Co., \$7,925; Crawford street, from King to Queen streets, Barber Asphalt Paving Co., \$6,399. Cedar block pavements—Vermont avenue, from Bathurst street to Palmerston avenue, Constructing & Paving Co., \$1,475; Crawford street, from Bloor to 1,755 feet south, Godson Constructing Co., \$4,433. Macadam—Gloucester street, Church to Jarvis streets, City Engineer, \$950; Eastern avenue, from w. s. of Pape avenue to e. s. of Caroline avenue, City Engineer, \$2,109; Parkview avenue, from Wellesley street to 175 feet north, City Engineer, \$664. Tar macadam—Saunders avenue, from Sor-auren avenue to 315 feet east, Warren Bituminous Co., \$1,130. Concrete sidewalks—Ann st., n. s., Church to Mutual, Queen City, \$1 per lineal foot; Arthur st., s. s., Bathurst st. to Bellwoods, Godson Contracting Co., \$3c.; Baldwin st., n. s., Beverley to Spadina, City Engineer, \$1.07; Berkeley st., w. s., from 120 feet n. of Queen to Sydenham, City Engineer, \$1.07; Barton ave., n. s., Palmerston to Euclid, City Engineer, 63c.; Barton ave., n. s., Euclid to Manning, City Engineer, 63c.; College st., s. s., McCaul to 305 1/2 feet east, Crescent Concrete Co., \$1.08; Cottingham st., s. s., Avenue road to Rath-nally, City Engineer, 63c.; Duke st., n. s., Sherbourne to Ontario, City Engineer, \$1.05; Elm ave., n. s., Sherbourne to 93 1/2 feet west, City Engineer; Eastern ave., n. s., Trinity to Sackville, Crescent Concrete Co., 65c.; Farley ave., s. s., Bathurst to Tecumseh, R. A. Rogers & Co., 64 1/2c.; Gloucester st., n. s., Church to Jarvis, Constructing & Paving Co., \$1.07; Grace st., w. s., College to 233 feet south, Toronto Constructing & Paving Co., \$1.12; Gerrard st., s. s., Broadview to Logan, Toronto Constructing & Paving Co., 61c.; Hepburne st., n. s., Ossington to Dover-court, Crescent Concrete Paving Co., \$1.10; Markham st., w. s., Herrick to Bloor, City Engineer, \$1.07; O'Hara ave., w. s., Marion to 650 feet north, City Engineer, \$1.07; Palmerston ave., w. s., College to Bloor, A. Gardner & Co., 83c.; Palmerston ave., e. s., College to Bloor, City Engineer, 84c.; Palmerston ave., w. s., Bloor to London, City Engineer, \$1.07; South Drive, s. s., Sherbourne to South Drive east, City Engineer, 62c.; Sumach st., w. s., Carlton to Winchester, W. R. Payne, 63c.; Shuter st., s. s., Yonge to 144 feet east, Queen City, \$1.74; South Drive, s. s.; Huntley to Park road, City Engineer, 63c.; St. Patrick st., s. s., Beverley to Larch, City Engineer, 65c.; St. Patrick st., n. s., Casimer to Bathurst, City Engineer, \$1.05; Triller ave., e. s., Queen to Harvard, City Engineer, 67c.; Triller ave., w. s., Queen to Harvard, City Engineer, 67c.; Wellesley street, s. s., Yonge to Church, W. R. Payne, 78c. Concrete kerbing—Defoe street, both sides, from Macdonell square to Tecumseh, Toronto Contracting & Paving Co., 38c.; Baldwin street, s. s., from Huron to Spadina, Warren Bituminous Co., 28 1/2c.; Baldwin street, s. s., from Beverley to McCaul, Warren Bituminous Co., 28 1/2c.—A. B. Ormsby & Co. have received the contract for 60,000 feet of wired glass sky-lights for the C. P. R. locomotive shops at Winnipeg.—Piling for foundation of freight sheds on Harbor Square: Medler & Arnott, successful tenderers, \$1,635.

FIRES.

Dwelling and sash and door factory of Robert McLean at Nash's Creek station, Restigouche County, N. B.—Bakery establishment of W. J. Boyd on Spence street, Winnipeg, totally destroyed; loss \$25,000.—Grocery stock of Charles Cook, Belleville, Ont., damaged to extent of \$2,000.—Westlake Gold Mining Co's mill at Mount Uioacks, N. S., totally destroyed; loss \$70,000.—Store and residence of John Davis, Oxford Mills, Ont.—Shops of the Toronto, Hamilton and Buffalo Railway Co., Garth street, Hamilton, damaged to extent of \$30,000.

NEW COMPANIES.

Canadian Lead Company, Limited, Toronto, incorporated, capital \$1,000,000. Directors, W. H. Eccles, engineer; Harry A. Bonte, furrier, and others.  
Cast Stone & Supply Company, Limited, Hamilton, Ont., incorporated, capital \$100,000, to manufacture and deal in paving blocks, building material, etc. Directors, M. A. Piggott, J. H. Tilden, Adam Zimmerman, and others.  
Brantford Felt & Rubber Company, Limited, Brantford, Ont., incorporated, capital \$100,000, to manufacture and deal in rubber, gutta-percha, leather and felt goods. Directors, John F. Martin, J. P. Bell, F. W. Frank, J. H. Ham, Robert E. Ryerson, all of Brantford.  
Niagara Quarry Company, Limited, Orillia, Ont., incorporated, capital \$40,

000, to quarry all kinds of stone, manufacture cement, etc. Directors, J. B. Tudhope, W. H. Tudhope, Hugh Tudhope, William Thomson, George Thomson, Andrew Craig, of Orillia.

National Cultivator Company, Limited, Windsor, Ont., incorporated, capital \$100,000, to manufacture and sell implements. Directors, Alfred H. Clarke, K. C., Dr. P. A. Dewar, of Windsor, and others.

D. W. Thompson Company, Limited, Toronto, incorporated, capital \$100,000, to manufacture caskets, coffins, hearses, carriages, etc. Directors, Patrick J. Smyth, John Dechart, manufacturers, and Peter Endress, all of Toronto.

Fraternal Homes, Limited, incorporated at Victoria, B. C., capital \$250,000, to build houses.

McGREGOR & McINTYRE, LIMITED

67 to 91 Pearl Street, Toronto, Ont.

STRUCTURAL IRON WORKS

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

SOLE AGENTS FOR DUPLEX HANGERS

WRITE FOR ESTIMATES.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

<b>Architects.</b> Ontario Directory... III Quebec Directory... III	<b>Contractors' Plant and Machinery</b> Rice Lewis & Son... IV	<b>Mantels, Grates, and Tiles.</b> Holbrook & Mollington I O'Keefe Mantel & Tile Co... ix Rice Lewis & Son... IV	<b>Sash Cord.</b> Samson Cordage Works... v
<b>Architectural Sculptors.</b> Holbrook & Mollington... I	<b>Cements.</b> Owen Sound Portland Cement Co... III The Rathburn Co... III Hanover Cement Co... VII	<b>Mouldings.</b> Decorators' Supply Co... III	<b>Stained and Deco-ated Glass</b> Crown Art Stained Glass Co... v Horwood & Sons, H. v Mackay Stained Glass Co... v McKenzie's Stained Glass Works... v St. George, H. E. v Robert McCausland v Stained Glass Co... v
<b>Architectural Iron Work.</b> Canada Foundry Co. xi Dominion Bridge Co. I Locomotive & Machine Co... II	<b>Crescote Stairs</b> Cabot, Samuel... I	<b>Mortar Colors and Shingle Stains.</b> Cabot, Samuel... I	<b>Sanitary Supplies</b> James Morrison Brass Mfg. Co... xliii
<b>Blue Print Paper.</b> Hughes Owens Co. IV	<b>Drawing Instruments</b> Thornton, A. G. vx	<b>Marble.</b> Canada Cast Marble Co... IV	<b>Shingles and Siding</b> Metallic Roofing Co. 152 Ormsby & Co., A. B. I Pedlar People... xliii Roofers Supply Co... II
<b>Burlaps</b> Richter Mfg. Co... IV	<b>Drawing Inks</b> Wagner, Gunther... xiv	<b>Ornamental Iron Work.</b> Canada Foundry Co. xi Dennis Wire Iron Co... VII	<b>Sheeting and Deafening Material.</b> Cabot, Samuel... I
<b>Bridges</b> Canadian Bridge Co. ix Dominion Bridge Co. I	<b>Elevators</b> Fensom, John... I Otis Elevator Co... I Parkin Elevator Co. I Turban & Russell Cvil	<b>Paints and Varnishes</b> Hynes, W. J... IV Fredk Walton... I	<b>Soil Pipe.</b> Toronto Foundry Co. II
<b>Builders' Supplies.</b> Laxer Prism Co... xlii Montreal Directory... xvi Myer, J. A... xvi Ontario Lime Association... xvi Ryden, Curry & Co. xvi Roburton & Co. D. vi Rice Lewis & Son... IV Smith-Warren Co... I Toronto Directory... xvi	<b>Engravers.</b> Alexander Engraving Co... VII	<b>Painters.</b> Montreal Directory... xv Toronto Directory... xv I	<b>Staining and Fittings</b> Richmond Conduit Co... 150
<b>Building Stone Dealers.</b> Amherst Red Stone Quarry Co... vi Credit Forks Stone Co. vi Brodie, Jas... vi Hood & Son... vi Horse Shoe Quarry... vi Hagersville Contracting Co... vi Kline, John... vi Myer, Oakley... vi Rooser, n & Co. D. vi Roman Stone Co. vi	<b>Folding Partitions.</b> Springer, O. T... II	<b>Plaster.</b> Toronto Plate Glass Co... VIII	<b>Tiles.</b> American Enameled Brick & Tile Co... v Craven, Danhill & Co... I Holbrook & Mollington Permanent Decorative Glass Co... xiv Toronto Plate Glass Covvii Woolcroft & Son... xiv
<b>Builders' Hardware.</b> Rice Lewis & Son... IV Vokes Hardware Co. ix	<b>Grilles and Railings.</b> Dennis Wire & Iron Co... VIII	<b>Parquetry Floors</b> Elliott & Son Co... VI	<b>Wholesale and Church Furniture.</b> Globe Furniture Company... v Can. Office & School Furniture Co... vi
<b>Bricks</b> American Framed Brick & Tile Co... v Beamsville Brick & Terra Cotta Co... II Don Valley Brick Works... 151 Toronto Press Brick & Terra Cotta Co... III Milton Brick Co... xliii	<b>Granite</b> Brunet, Jos... VI	<b>Plate Glass</b> Toronto Plate Glass Importing Co... VII	<b>Wall Plaster</b> Albert Mfg. Co. II
<b>Contractors.</b> Toronto Contracting & Paving Co. III	<b>Hardwood Flooring.</b> Seaman, Kent & Co... I	<b>Plumbers</b> Montreal Directory... xvi Toronto Directory... xvi	<b>Wire Lathing</b> The B. Greening Wire Company... xvi
	<b>Heating.</b> Clare Bros... VII James Smart Co... IV Sheldon & Sheldon II Warden King & Son... II	<b>Roofers</b> Duthie & Sons, G... xvi Douglas Bros... xvi Forbes Roofing Co... xvi Nicholson & C., D. xvi Kennie & Son, Robt xvi Ormsby & Co., A. B. I Ringsham, George... xvi Stewart & Co., W. T. xvi Williams & Co., H. xvi	<b>Window Cord.</b> Samson Cordage Works... v
	<b>Interior Decoration</b> Elliott & Son Co... VIII	<b>Rubber Tiling.</b> Gutta Percha Rubber Co... III	<b>Waterproofing for Brickwork</b> Cabot, Samuel... I
	<b>Lime.</b> Ontario Lime Association... xvi Robertson & Co... VI	<b>Rubber Mats.</b> Dunlop Tire Co... IX	
	<b>Legal.</b> Quinn & Morrison... II	<b>Refractories</b> Frink, I. P... xvi	
	<b>Laundry Machinery</b> Troy Laundry Machinery Co... VII	<b>Roofing Material</b> Metallic Roofing Co. 152 Ormsby Limited, A. B. I Pedlar People... xliii Roofers Supply Co... II	
	<b>Matt Chutes.</b> T & Cutler Mfg. Co. I		

October  
The Han  
M  
"SAUC  
P  
Granite s  
to any  
Buil  
Quar  
JOS. E  
TUNNI  
Sto  
Works  
H  
Roofs, Ir  
ARTIFI  
SI  
CORPOR  
The SI  
WALTER  
General B  
T. F  
PURVI  
Munic  
Corpo  
Arch  
Engin  
Mines  
Railw  
Build  
GONT  
Stackpo  
Patent  
Recu  
J. H. Sw  
clon.  
less ge  
reason

Established 1898.  
**The Hanover Portland Cement Co., Ltd**  
 Hanover, Ontario.  
 Manufacturers of the Celebrated  
**"SAUGEEN" Brand of PORTLAND CEMENT**  
 Prices on application.

**Paving Granite**

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

Address all communications to

**JOS. BRUNET - COTE DES NEIGES, MONTREAL**

**TUNNEL CITY BRIDGE & IRON WORKS**

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

**HIGHWAY BRIDGES**

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

**ARTIFICIAL STONE PAVEMENTS**

**SIDEWALKS A SPECIALTY**

Will do well to consider our work and prices before letting contracts  
**The Silica Barytic Stone Company of Ontario, Limited.**

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

**T. A. Moppison & Co.**

**PURVEYORS TO**  
 Municipal Corporations  
 Architects  
 Engineers  
 Mines  
 Railway and Building  
**CONTRACTORS**

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

204 St. James Street  
**MONTREAL**

**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.

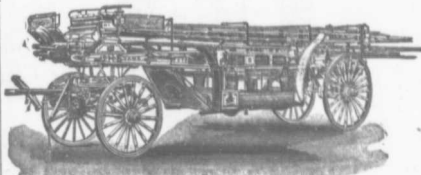
Capacity of Works: **500,000 Barrels Per Year.**

SALES AGENTS

**The RATHBUN CO.** St. Lawrence Portland Cement Co.  
 310-312 Front Street West, TORONTO, ONT. 202-203 Board of Trade Building, MONTREAL.

**LIGHTNESS, STRENGTH AND ECONOMY**

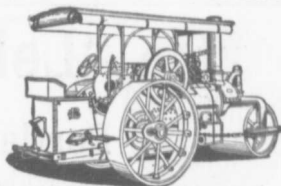
Seagrave Patent Trussed Ladders, Trussed Aerial, City Service and Village Hook and Ladder Trucks, Combination Hook and Ladder Trucks and Chemical Engines, Trussed Trucks and Hand Pumps, Combination Hose Wagons and Chemical Hose Wagons, Combination Hook and Ladder Trucks and Hose Wagons, Chemical Engines,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



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

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

**"WATEROUS" ROAD MACHINERY AND FIRE APPARATUS**



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

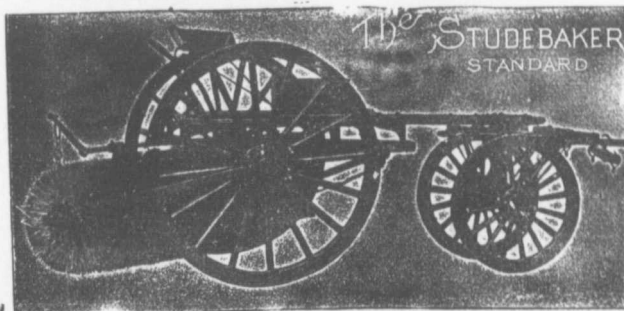
We Rebuild other makes of Fire Engines with our patent Boiler.

**BRANTFORD PITTS DOUBLE ENGINE STEAM ROAD ROLLER**

IN THREE SIZES—10, 12 and 16 ton.

CORRESPONDENCE SOLICITED.

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



The **STUDEBAKER STANDARD**



**Studebaker Sprinkler**

(PATENT IMPROVED.)

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

**IMPROVED VERTICAL SPRAY** for Pavements.

**Geo. Heaman, Mnfr., London, Ont.**

Stackpole Patent Improved

**Street Sweeping Machine**

Is the Standard of Perfection

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

**DEBENTURES**

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

**G. A. STIMSON & CO.**

Investment Dealers  
24 and 26 King St. W. TORONTO

**THE GREY AND BRUCE PORTLAND CEMENT COMPANY**

of Shallow Lake, Limited.

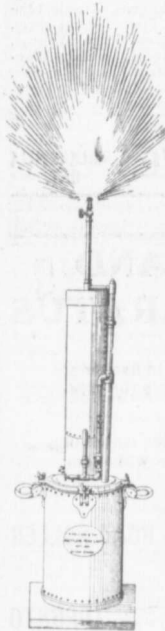
Manufacturers of BRAND OF

**"HERCULES" PORTLAND CEMENT**

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

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

Please mention this paper when corresponding with advertisers.



**THE BEST LIGHT**  
For Contractors,  
Railways, Mines,  
Steamboat Lines,  
Etc.

is the  
**HOLLAND PORTABLE LIGHT**

Cheaper to operate and cheaper to buy than any other gives 300 candle-power of light and costs less than 3 cents an hour to operate. Suitable for any cut-of-door work in any weather. Delivered at any railroad station in Canada for \$42.00.

—10—  
CANADIAN MANUFACTURERS AND SALES AGENTS, THE CONTINENTAL HEAT & LIGHT COMPANY, 17-19 BUSBY LANE.

Phone Main 2399.  
P. O. Box No. 2291.  
**MONTREAL**

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

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

**Dominion Bridge Co., Ltd.**

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

**STEEL BRIDGES**

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

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



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

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

Prices on application to all dealers, or to  
**The Glens Falls Portland Cement Co.,**  
224 Board of Trade, MONTREAL, P. Q.  
**W. A. COOK, Agent**

**PORTLAND CEMENT**

**T. M. Morgan**

Manufactures the



**CRESCENT AND DIAMOND BRANDS**



AS GOOD AS THE BEST FOR ANY PURPOSE

Office and Works: Longue Point, MONTREAL, QUE.  
Long Distance Phone R. 436 King 2.



**"Lehigh"**  
**Portland Cement**

Capacity 11,000 Barrels every Day in the Year.

For Sidewalks and all other work requiring the highest quality Portland Cement Used by the U.S. Government and the largest contractors and users of Portland Cements in the United States.

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

**THORN CEMENT CO. - Buffalo, N. Y.**

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

NEW YORK OFFICE:  
25 BROAD STREET  
N.Y.

**Structural Steel**  
FOR ALL PURPOSES

WORKS:  
LONG POINT  
MONTREAL

BRIDGES NEW AND SECOND HAND CONTRACTOR'S LOCOMOTIVES STEAM SHOVELS

Principal Office: Imperial Bank Building, MONTREAL

October  
Th  
Locomotive  
Roofs, Stee  
structural  
With remo  
rock and f



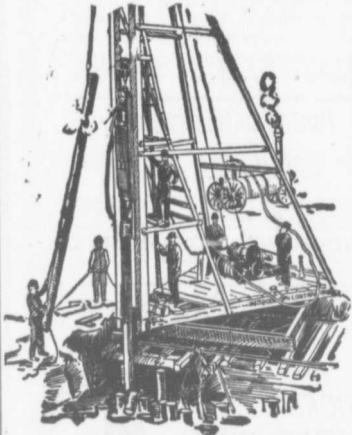
# The Canadian Bridge Co., Limited

WALKERVILLE, ONT.

MANUFACTURERS OF

## RAILWAY AND HIGHWAY BRIDGES

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



### PILE DRIVING

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

**Portable Boilers  
Hoisting Engines  
Pumping Machinery**

**TO LET**

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

**WM. HOOD & SON**

10 Richmond Sq. - MONTREAL

### Surveying and Drawing Instruments

*Best English Quality*

Manufactured by

**A. G. Thornton**  
Manchester, Eng.

Surveyors' and  
Engineers' Supplies

Write Us For Catalogue  
and Prices <<<<<

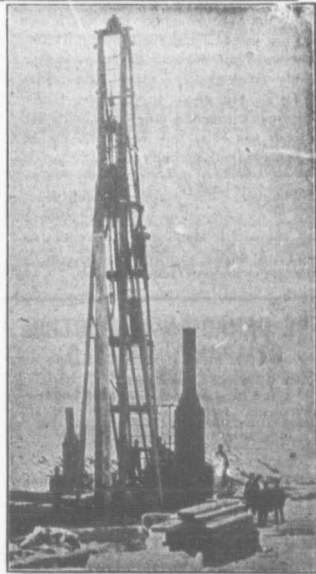
The

**C. H. MORTIMER  
PUBLISHING CO.**

of Toronto, Limited  
AGENTS FOR CANADA

Confederation Life Bldg., TORONTO  
Alliance Building, MONTREAL

If you want to reach Municipalities advertise in the  
CONTRACT RECORD.



### PILE DRIVING

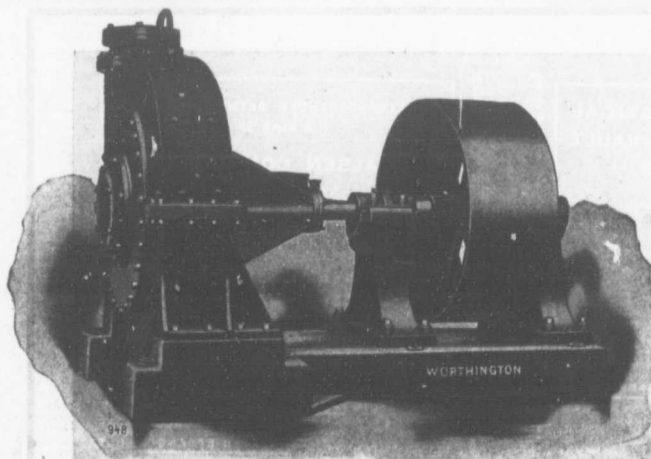
and Foundation Work.

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.



TEN INCH TURBINE DREDGING-PUMP.

With removable chrome-steel lining and manganese-steel impeller. Used for handling phosphate rock and for dredging purposes. Capacity 2,500 gallons per minute against 50 feet head.

**Pumps for  
Water Works**

**Water Works  
Systems Installed**

**Steam Boilers  
and Filters**

*Builders in Canada for  
Worthington Turbine  
Pumps.*

**THE JOHN McDOUGALL  
CALEDONIAN IRON WORKS**

CO., LIMITED

Montreal, Que.

# MUNICIPAL DEPARTMENT

## THE ROAD ROLLER.\*

A number of townships in Ontario report the use of horse road rollers in constructing their roads. Counties having county road systems either have steam rollers or are about to purchase them. Numerous towns and cities of which a list is given use this, the most valuable of modern roadmaking implements.

For economical, durable and serviceable roadmaking, a heavy roller is indispensable. A road should be sufficiently smooth and compact to shed the water readily to

\*From the Fifth Annual Report of the Commissioner of Highways for Ontario.

the side gutters. If the gravel or other road metal is dropped from the wagon loosely on a soft earth foundation, water passes into the subsoil as through a sieve. Wheels passing over the road when in such a condition at once sink into and rut not only the gravel, but the earth beneath. Water is held in the ruts, and each succeeding vehicle renders their condition worse. The road is less durable, since the gravel, being mixed with the earth from beneath it, contains, when finely consolidated, a dusty, easily-worn surface.

The consolidation of loosely spread stone or gravel by traffic is a slow process, causing much inconvenience to travel, during which the earth of the subsoil becomes mixed with the stone. Earth intermixed with stone prevents the strong mechanical bond which clean metal will assume when the stones are wedged one against the other by a roller. The particles of earth, when wet, have a lubricating influence on the stone, and, under the

action of wheels the surface is more readily broken up. By the use of a roller the earth subsoil should be first thoroughly consolidated. The stone should be placed on this foundation in layers, and each layer well compacted. In this way a smooth, durable, waterproof coating of stone, free from earthy material, can be laid over a firm foundation. A road should be made for traffic, not by it. To leave loose gravel and stone in the roadway is neither an agreeable method of constructing a road, nor will it produce the most durable road.

Among the benefits to be derived from

### Notice to Contractors.

The Niagara Falls Machine & Foundry Co., Limited,

Niagara Falls, Ont.,

are making a specialty of improved

HOISTING AND BUILDING ENGINES.  
Write for Prices.

## THE CANADIAN INSPECTION COMPANY, LIMITED

Main Office and Laboratories:  
146 St. James Street, MONTREAL  
SPECIALTIES: Inspection of RAILS and all material for BRIDGES, BUILDINGS, and other structures, cast iron pipe, wood and steel railroad cars.  
MANUFACTURE AND ERECTION.  
Expert examination and reports, chemical analyses and physical tests of all kinds.  
Cement Testing.

## FIREMEN'S LADDERS AND LADDER TRUCKS

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

THE WAGGONER LADDER CO., Limited  
LONDON - ONT

# PORTLAND CEMENT

SEWER PIPES

FIRE BRICKS

FIRE CLAY

ALEX. BREMNER

50 Bleury Street, MONTREAL



## An Unreasonable Request

To Ask a Man to Sign his Name to a Personal Bond. Insist on

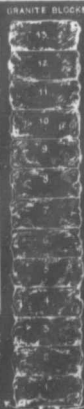
THE UNITED STATES FIDELITY & GUARANTY CO.

A. E. KIRKPATRICK, Manager for Canada.  
6 COLBORNE STREET, TORONTO, ONT.

## THE OFFICIAL PRACTICAL TEST OF CONCRETE VAULT LIGHT CONSTRUCTION

UNDER THE PERSONAL DIRECTION OF  
WM. BARCLAY PARSONS, C.E., M.A.M. Soc. C.E.  
CHIEF ENGINEER R. T. COMMISSION  
AND  
S. L. F. DEYO, C.E., M.A.M. Soc. C.E.  
CHIEF ENG. R. T. SUBWAY CONSTRUCTION CO.

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



MERELY SUSPENDED BETWEEN I-BEAMS A SLAB OF

ALSEN CONCRETE

2 INCHES THICK  
5 FEET WIDE  
12 1-2 FEET LONG

SUSTAINED 11,882 POUNDS OF CONCENTRATED WEIGHT

ON AN IRON DISC 8 1-2 IN. IN DIAMETER

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

MADE BY HUCKER & SONS, INC., NEW YORK CITY  
REGISTERED PATENTS

## WILLIS

Hon. G. M. Can. Soc. C. Men  
WATERWORKS, WORKS, PL.  
Reports, Surv.  
103 BAY

## R. E. SH

## CONSUL

Waterworks, S. Municipal Imp. Granolithic Pl. Electric Light Drainage and Coal Handling Plans, Specific Construction s.

Canada Life I

## E. VON DE

Consi  
Industrial F. Lighting an Sewerage an Garbage Re Municipal I

9 Toronto St

## J. J. C

B.A.S.,

Consult

Ottawa

## EDWA

ELECTRIC

16 KING ST.

## HODER

A.M. Can. Soc.  
CONSULTING  
Electrical Lig Steam Plants Power Plan Estimates 7

62-53 James B  
Long Distance T. Cable Address

We.

## MAN

Ar

## Syracuse Sme

Manufacturers of  
DERRICKS  
Iron, Sheaves, Hooks and Chains, Stump Pullers, Wire and Cable Stretchers, Tackle Blocks, Material Elevators, and Dealers in HOISTING ENGINES and Contractors' Supplies.

## National Ho

405 West

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

**WILLIS CHIPMAN**

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

**R. E. SPEAKMAN, C.E.**

A. M. Inst. C. E., 1878.  
**CONSULTING ENGINEER**

Waterworks, Sewerage and Sewage Disposal.  
Municipal Improvements.  
Granolithic Pavements.  
Electric Light Plants.  
Drainage and Irrigation of Land.  
Coal Handling Plant and Machinery.  
Plans, Specifications and Estimates.  
Construction and Valuations.

Canada Life Building TORONTO

**E. VON DER OSTEN & CO.,**

Consulting Engineers

Industrial Plants, Waterworks,  
Lighting and Power Plants  
Sewerage and Sewage Disposal  
Garbage Reduction Plants  
Municipal Improvements

9 Toronto Street TORONTO, ONT.

Cable: Ackcoll

**J. J. COLLINS**

B.A.S., C.E., M.E., E.E.

Consulting Engineer  
Ottawa, Ont., Canada

**EDWARD B. MERRILL**

ELECTRICAL & MECHANICAL  
ENGINEER

16 KING ST. W. TORONTO

**RODERICK J. PARKE**

A.M. Can. Soc. C.E. A.M. Amer. Inst. E.E.

**CONSULTING ELECTRICAL ENGINEER.**

Electrical Light and Power.  
Steam Plants, Gas Power Plants, Water  
Power Plants  
Estimates, Tests, Reports, Valuations.

52-53 James Building - TORONTO, CAN.

Long Distance Telephones-Office and Residence  
Cable Address "Rodparke" (W. U. Code.)

Wears Like Iron

**MANGANESE**

Anti-Friction

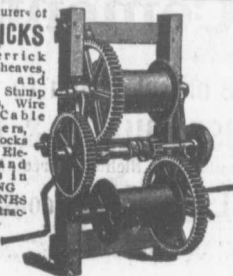
Babbitt Metal

Syracuse Smelting Works, Montreal.

Manufacturer of

**DERRICKS**

and Derrick  
Irons, Sheaves,  
Hooks and  
Chains, Stump  
Pullers, Wire  
and Cable  
Stretchers,  
Tackle Blocks  
Material Ele-  
vators, and  
Dealers in  
HOISTING  
ENGINES  
and Con-  
tractors' Sup-  
plies.



National Hoist & Machine Co.  
49 West 22nd Street, Chicago

**John H. Jackson**

CIVIL ENGINEER

WATER POWER, ELECTRIC RAIL-  
WAYS, STRUCTURAL STEEL.

Niagara Falls, Canada

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

**CEMENT TESTING**

**Dr. J. T. Donald**

Official Analyst to the Dominion Government.  
Established 1880.

Physical and Chemical Tests on all kinds of  
CEMENTS and RAW MATERIALS. Prompt  
returns and lowest rates consistent with ac-  
curate work.

112 St. Francois Xavier Street, Montreal, Canada

**CHARLES BRANDEIS**

A. M. Can. Soc. C. E., A. M. Amer. Inst. E. E.  
Mem. Amer. Electro-Chemical Soc., Etc.

**CONSULTING ENGINEER**

Estimates, Plans and Supervision of Hydraulic  
and Steam Electric Light, Power and Railroad  
Plants, Specifications, Reports, Switchboard  
Designs, Complete Factory Installations, Elec-  
tric Equipment of Mines and Electro-Chemical  
Plants.

Long Distance Telephone Main 3266.

Cable Address: Brandeis-Montreal.

W. U. Code, Univ-Edition.  
62-63 Guardian Building MONTREAL

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

**LOCOMOTIVES AND CARS**

John J. Gartshore

83 Front St. West

Opposite Queen's Hotel.) TORONTO

**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.

**'IMPERIAL BRAND' PORTLAND CEMENT**

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

The Imperial Cement Company, Limited

OWEN SOUND, ONT.

**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.

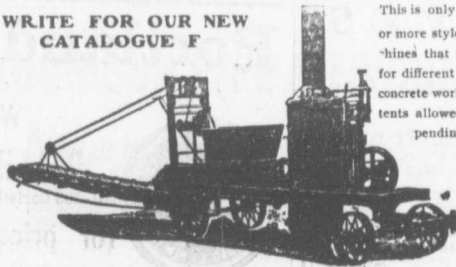
**The Greatest Concrete Mixer Yet Made**

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

55,664
672,934
675,035
675,036
675,037
698,182
698,910
699,667
699,668
701,312



Also  
Mortar and  
Asphalt Mixers

**DRAKE STANDARD MACHINE WORKS**

Factory,

7-9-11-13 Garden Street, Chicago.

Office and Salesroom, 298-300-302 W. Jackson Bldg.,

Chicago, Ill., U. S. A.

Eastern Agent, Walter S. King, 27 St. John's Place, Brooklyn, N. Y.

the use of a roller on country roads are:

(1) A good road is at once made for vehicles.

(2) A dirt track is not made near the ditch, to avoid a pile of loose stone or gravel, so that the side of the road is not cut up in such a way as to interfere with surface drainage.

(3) Traffic is not inconvenienced in the fall by being forced to drive through loose gravel or crushed stone.

(4) The gravel or stone is not forced down into the subsoil by the wheels and feet of the horses, is not churned and mixed with the earth, and there is in this way a great saving in the amount of metal needed on the road.

(5) There is a great saving in manual labor, and repairs are more readily and effectively made.

An impediment to the use of heavy rollers in a good many townships is the insufficient strength of bridges and culverts; and while valid in some instances, the objection is liable to exaggeration in others. Weak wooden bridges and culverts could in many cases be temporarily strengthened sufficiently; while in others, they could be entirely avoided by first completing the rolling on one side and then passing around a block or so to commence work on the other side.

There are different classes of rollers. The horse rollers weighing six or eight tons will do fairly well if a steam roller cannot be afforded, but the horse roller is not sufficiently heavy for the best results. It has to be used much longer than the steam roller. The feet of the horses, in exerting sufficient strength to move the

roller, sink into and disturb the road metal, and injure the shape and quality of the roadway, while on hills it is at a disadvantage.

The steam rollers are of various weights, ranging from eight to twenty tons. Rollers of fifteen tons weight are those generally used by the towns and cities of Ontario. The cost of horse rollers is usually about \$90 per ton, or from \$400 to \$600 each. Horse rollers are, however, generally so constructed that the weight may be increased by iron castings; so that a roller of five tons may be made to weigh about eight. Steam rollers cost about \$3,000. For operation, a horse roller, with two teams, will cost \$6 per day. A steam roller will cost \$10 a day, including interest and depreciation, but will do several times the amount of work done by a horse roller, so that the saving in operation is considerable.

The amount of rolling which can be done in a day varies according to the quality of metal used, the kind and amount of binder, the thickness of the layer of stone rolled, and the weight and type of roller. With broken limestone, rolled by a twelve-ton steam roller, the amount of stone compacted will average between forty and fifty cubic yards in a day of ten hours.

The objection to the purchase of steam rollers by townships is their cost. It is, however, but a matter of time when this will be overcome. The price may or may not be reduced, but in the meantime an appreciation of good roads will grow, the value of good roads will be more realized, rural population, wealth, and traffic must

increase, so that all influences will tend towards the gradual use of steam rollers by townships. Counties, towns and cities are finding that they must use them.

STEAM ROAD ROLLERS IN ONTARIO.

Municipality.	Year purchased.	Weight (tons.)	Cost.
Belleville.....	1898	15	\$3,000
Berlin.....	1898	15	3,100
Brantford.....	1901	15	3,200
Brockville.....	1894	17	4,000
Carleton Place...	1901	10	3,000
Chatham.....	1898	12	3,135
Cornwall.....	1898	16	3,000
Galt.....	1896	15	2,700
Guelph.....	1902	15	3,250
Hamilton.....	{ 1898	15	3,300
	{ 1900	16	3,250
Ingersoll.....	1898	12	2,900
Kingston.....	1884	18	
Lindsay.....	1903	15	3,250
London.....	1895	15	3,000
Niagara Falls....	1897	12	3,650
Niagara Falls....			
Park Com'sion.	1903	7	2,300
Ottawa.....	1885	15	3,000
Owen Sound.....	1898	15	3,000
Pembroke.....	1902	15	3,250
Peterborough....	1899	15	2,800
Renfrew.....	1899	15	875
St. Catharines....	1897	12	3,600
St. Thomas.....	{ 1900?	12	
	{ 1900	17	3,100
Smith's Falls....	1897	15	3,800
Stratford.....	{ 1895	15	3,050
	{ 1900	10	2,375
Welland.....	1903		3,000
Windsor.....	1898	12	2,000
Woodstock.....	1897	10	3,300

Thomas A. Walker, of Clinton, Ont., has invented a cement block making machine for well building. The blocks are made in such lengths that six complete a circle.

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

*If Its*  
**WATERWORKS  
PUMPING  
ENGINES**

**FIRE  
HYDRANTS**  
OR  
**V A L V E S**  
for  
Steam, Water, Gas  
and  
Radiation

Get Catalog and Prices of  
**THE KERR ENGINE CO'Y**  
limited  
Walkerville - - - Ontario.

**"Giant Brand" Portland Cement**  
Manufactured at BLUE LAKE  
Gives universal Satisfaction. Used exclusively on all work by the City of Brantford and other places  
**THE ONTARIO PORTLAND CEMENT CO., LIMITED**  
Head Office: Brantford, Ont. Long Distance Phone 194.

**BLAST . . . SLAG A MOLTEN  
FURNACE ROCK . . .**  
Cement Sidewalks, Road Foundation and Concrete Work  
**STRONG AS STONE  
CHEAP AS GRAVEL**  
**Doolittle & Wilcox, Hamilton, Ont.**

**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.

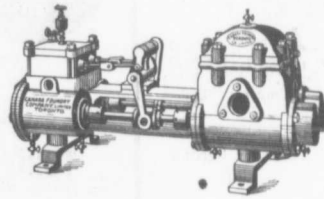


**ATLAS  
PORTLAND  
CEMENT**  
Largest Makers in the World.

Oct  
W  
Distri  
THOS  
Special  
Cas  
Flange  
Branch  
Hydra  
Valv  
HEAD C  
JAMEI  
TH  
Man  
Speci  
Water

# WATERWORKS SUPPLIES

OF EVERY DESCRIPTION



**Pumps for All Duties**  
**Boiler Feed, Fire Protection**  
**Hydraulic Elevators**  
**Pumps Actuated by Electricity, etc.**

**Valves, Hydrants, Valve Boxes,**  
**Cast Iron Water and Gas Pipe,**  
**Steam Boilers and Rivetted Steel Plate Work of Every Description.**

## CANADA FOUNDRY COMPANY, LIMITED

Head Office and Works: TORONTO, ONT.

District Offices: MONTREAL HALIFAX OTTAWA WINNIPEG VANCOUVER ROSSLAND CALGARY

THOS. J. DRUMMOND,  
President.

JAMES T. McCALL,  
Secretary-Treasurer.

C. ED. GIDEWILL,  
Vice-President.

## Montreal Pipe Foundry Co., Limited

Special  
Castings  
Flange Pipe  
Branches  
Hydrants  
Valves



### CAST IRON PIPE

Valve Boxes  
and  
general  
Water  
Works  
Supplies

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

Combined daily capacity:  
175 Tons Pipes and Castings.

HEAD OFFICE CANADA LIFE BUILDING, MONTREAL

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

## THE GARTSHORE-THOMSON PIPE & FOUNDRY CO. LIMITED.

Manufacturers of



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

3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

HAMILTON, ONT

# 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.

Please mention the CONTRACT RECORD when corresponding with advertisers



# VULCANITE PORTLAND CEMENT

The Recognized Standard for Sidewalks

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

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

TORONTO POTTERY CO., Toronto, Ont.

Long Distance Phone North 1787.

DISTRIBUTORS

## Prices of Building Materials.

PRESSED BRICK, Per M.

MILTON PRESSED BRICK AND SEWER PIPE CO.	
	F.O.B. Milton, Ont. Montreal
Red No. 1	\$15 00
" 2	14 00
" 3	20 00
Buff No. 1	15 00
" 2	15 00
wn	25 50
man Red	30 50
Buff	33 50
Brown	40 50
Hard Building	18 00
Sewers	13 00
Backing	11 50

CRREDIT VALLEY PRESSED BRICK WORKS.  
Nos. 1, 2 and 3, Red Pressed Bricks.....  
Nos. 1 and 2 Buff Pressed Brick.....  
No. 1 Brown Pressed Brick.....  
Pompeian Red, Buff and Brown Pressed Bricks  
Ornamental Bricks of all kinds for Mantel purposes.....  
Porous Terra Cotta Fireproofing of all Descriptions.....  
Vitrified Street Paving Bricks.....  
Semi-Vitrified Foundation Bricks.....  
Common Stock Red and Grey Bricks.....  
Sewer Bricks.....  
Slabs or Macadamized Roadways.....

TORONTO PRESSED BRICK AND TERRA COTTA WORKS	
	F.O.B. Milton, Ont. Montreal
Red No. 1	18 50
" 2	15 00
" 3	16 00
Buff No. 1	8 50
" 2	15 00
" 3	13 00
Brown	30 00
Roman Red	30 00
" Buff	30 00
" Brown	35 00
Hard Building	40 50
" Sewers	6 50
Backing	6 00
Moulded and Ornamental from \$2.00 to \$5.00 per 100.	
Terra Cotta String Courses and Friezes, from 50c. to \$2.00 per ft. run.	

SEASIDEVILLE BRICK AND TERRA COTTA CO.	
	F.O.B. Beausville, Montreal
Red Peerless Facing	\$15 00
" No. 1	13 00
" No. 2	11 00
" No. 3	8 50
Brown Peerless Facing	30 00
" No. 1	18 00
Buff Peerless	18 00
" No. 1	18 00
" No. 2	15 00
Moulded and Ornamental from \$2.00 to \$5.00 per C.	
Roman Red (Size 12 1/2 x 1 1/2 in.)	28 10
" Buff	28 00
" Brown	34 00
Vitrified Paving Brick No. 1	18 00
" No. 2	15 00
Sewer	6 10
Roofing Tile	23 00

TORONTO POTTERY CO.	
	F.O.B. Toronto
Boyd	20 00 M.
W. W. Co.	27 50 M.
Savage Crown	28 50 M.
Ramsay	30 00 M.
Common Rubble, per ton, delivered at building	13 50
Large flat Rubble, per ton, delivered	14 00
Foundation Blocks, per c. ft.	4 1
Granite (Stanstead) Ashlar, 6 in. to 12 in. rise 9 in., per ft.	50
Amherst Red Sandstone	
Amherst N.S., per cub. ft. at quarry	40
Sack's N.B., brown or red stone f.o.b. Quarries	45
Wesall	30
Myers-Northport Red or River	41
Philip Gray Sandstones f.o.b. per cubic foot	75

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

345 St. James St., Montreal

Importers of

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



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

TORONTO, MONTREAL.	
Standard granite paving blocks, 8 in. 10 in. x 6 in. x 1 1/2 in. per M.	50 00
Granite curbing stone, 6x 12 in. per lineal foot	78
Buckton Olive Freestone	85
Olive Sandstone (Indian-town, N. B.)	80
Brown Sandstone (Sackville, N. B.)	70
Moat red sandstone, per cu. ft.	60
Black Pasteur buff stone per cu. ft.	50
Nova Scotia blue grey, per cu. ft.	65
Coursers, 6 to 8 in. f. o. b. St. Mary's, per cord	7 00
Footings, 6 to 10 in. per cubic ft.	15
Dimension Stone, f. o. b. St. Mary's, per cubic foot	35
Granite (Laurentian Pink) Ashlar, 6 to 2 in., rise 9 in., per c. ft.	25
Dimension Stock Granite, (Laurentian Pink) for building purposes, per c. ft., f.o.b. quarries	40
Do., for polishing purposes, up to 2 tons weight, per cubic foot	70

F.O.B. Halifax	
Dimension stock granite for building purposes, per cu. ft.	50
Do., for polishing purposes, up to 2 tons weight, per cubic ft.	1 00
Paving sets, per thousand block	60 00

CREDIT VALLEY STONE.	
F.O.B. Quarries.	
Rubble, per ton	65
Brown Coursing, up to 10 per sup. yard	85
Brown dimension, per cub.	70
Grey coarse g., per sup. yard	1 25
Grey dimension, per cub. ft.	50

ROMAN STONE. F. O. B. Factory.	
Sills, tooled scanted and throated 3/4 in. per lineal foot	2 50
Hollow Block, 12-inch wall, per superficial foot	40
Window Heads and Ashlar, per superficial foot, 4-inch bed	40
String Courses, Moulded and Ornamental, per lineal foot, 3 in. to 12 in. rise 9 in., per ft.	3 00
Chimney Caps, \$2 to	5 00

SLATE. Toronto, Montreal.	
Roofing (W square)	26 00
" "	20 00
" "	9 00
" "	10 00
" "	11 00
" "	10 00
" "	9 00
Terra Cotta Tile, per sq. ft.	23 00
Ornamental Black Slate Roofing	77 50

PORTLAND CEMENT	
	Toronto, Montreal
English—	
Brook's Shoobridge Anchor	2 35 2 40 2 00 2 10
Excelsior Brand	2 10
Belgian—	
" Jonson" Brand	2 60 2 70 2 20 2 40
" North's Conder	1 90 2 00 2 25 2 30
Cathedral	2 35 2 50 2 00 2 50
" White Cross "	2 75 1 85 2 15 2 90
Atlas	2 00 2 10 1 80 2 10
Hammer "	1 80 1 00
Ped Cross Brand	1 95
Waterloo "	2 25
Levis "	2 25
White Star	2 15 2 25 1 90 2 20
German—	
Dyckerhoff	2 05 2 15 2 30 2 40
Karlstadt	2 80 2 90 2 20 2 40
Hecmmoor	2 30 2 50 2 00 2 40
Hercules	2 10 2 20
Canadian—	
Rathburn's Star	1 90 2 25 2 40 2 50
Ensign "	1 70 2 05
Cladell "	2 00 2 00 2 00
Trowel "	1 75 1 80
Samson Brand	1 85 1 00
Magnet "	1 60 1 80
Monarch "	1 80 1 90 1 80 1 90
Hercules "	2 00
Lion Brand	1 75
Imperial "	1 75
Crescent 375 lbs. gross	2 30 2 40 1 95 2 05
Diamond 350 "	2 20 2 30 1 85 1 95
" Giant" Branford	1 75 2 00 2 00 2 50
Sun Brand	1 85 1 90
American—	
"Helderberg"	1 80 1 80 1 95
Alpha Brand	1 75 1 80 1 85 1 95
Alsen's	2 50 2 00 2 25 2 35
Lenigh, in bbls., 375 lbs.	2 00 2 50
" cotton sacks, 250 net	2 20 2 55
" paper bags	2 10 2 35
"Iron Clad" in bags 350 lbs.	1 90 1 95
"Invicta "	1 75 1 80
"Adirondack "	1 75 1 80
Keene's Superior "Whites"	10 00 12 00 8 50 9 00
Keene's Course "Whites"	6 50 7 00 4 50 5 00
Fire Bricks, Newcastle, per M	27 00 32 00 13 00 22 00
" " "	25 00 33 00 19 00 23 00
" " "	2 00 2 00
" " "	1 75
" " "	1 95
" " "	2 05

CORRECTED UP TO OCTOBER 11TH.