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. 12.

SEPTEMBER 18, 1901

No. 33

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

han Intermediate Edition of the "Canadian Architec and Builder."

Subscription price of " Canadian Architect and Builder" (including "Canadian Contract Record") \$2 per annu. : bayable in advance.

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

TADERATION LIFE BUILDING, TORONTO

Telephone 2362.

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

Advertising Rates on application.

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

BRIDGE NOTICE

Scaled Tenders, marked "Tender for Super-structure of Andover Bridge," will be received at the Department of Public Works, Fredericton, until

Monday 30th day of September, 1901, at noon,

For building the Steel Superstructure of "Andover Highway is adge, across the St. John River,
connecting the Villages of Andover and Perth,
Victoria County, N.B., according to Plans and
Specifications to be seen at the Public Works
Department, Fredericton, N.B. The structure
consists of five through pin connected triss
spr. as each 183 ft. to in, in length from centre to
centre of end pins. For detail information relating to plans and specifications apply to A. R.,
Wetmore, provincial engineer, Fredericton, N.B.
Each ender must be accompanied by a certified
bank cheque or cash, for an amount equal to five
per cent, of the tender (would prefer not receiving F.O. orders), which will be forfeited if the
party tendering declines to enter into contract
when called upon. Should the tender be not
accepted the deposit will be returned. Two goel
sureties must be maned in each tender. Not
obliged to accept lowest or any tender. For building the Steel Superstructure of "And-

C. II. LABILLOIS, Chief Commissioner.

Department of Public Works, Fredericton, August 13th, 1901.

TENDERS

will be received by the undersigned up to noon on

September 28th, 1901

fer an usus of \$10,000 of County of Waterloo Debentures, 20 years at three and out-half per cent, interest. For further information, address

HERBERT J. BOWMAN, C.E. County Clerk and Treas.

Berlin, Sept. 16, 1901.



Tenders for Pavements and Sidewalks, Roadways.

Tenders will be received by registered posonly, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on TUESDAY, SEPTEMBER 24th, 1901, for the following works:—

ASPHALT PAVEMENTS.

College Street, Bererley to Spadina Ave.
College Street, Spadina to Bathurst.
Parliament Street, Gerrard to Carlton.
Pearson Avenue, Macdonell to Sorauren,
Hayden Street, Church to east end.
Dullerin Street, 277 feet south of Queen to King.

BRICK PAVEMENTS. May Street from South Drive to 456 feet north.

CEDAR BLOCK PAVEMENTS.

Lorne Street, w. s., from a point 27 feet south Front to 108 feet further south. Devercourt Road, College to Bloor. Wright Avenue, Soraureen to Roncesvalles Avenue.

MACADAM ROADS.

Hayden Street, from Yonge to Church. Balmuto Street, from Bloor to Czar.

CONCRETE SIDEWALKS.

Balmulo Street, from Bloor to Carr.

CONCRETE SIDEWALKS.

Lorne Street, west side, from 135 feet south Front to 259 feet south.

Bedford Road, west side, from 135 feet south Briver, south side, from Lowther to Bernard.

South Drive, south side, from N. South Drive ro Dunbar Road.

Spadina Crescent, west side, from Spadina S, to Spadina N.

Dowling Avenue, east side, King to Queen.

Murray Street, east side, Caer-Howell to Orde Ontario Street, east side, Caer-Howell to Orde Ontario Street, south side, Sherbourne to Huntley, Sluter Street, south side, George to Sherbourne. Bernard Avenue, south side, George to Sherbourne. Bernard Avenue, south side, Refeord Road to a point 141 feet west.

Queen Street, north side, 82 feet cast Lansdowne Avenue to West Lodge Ave.

Contents of envelopes containing tenders must be plainly marked on the outside.

Plans and specifications may be seen on and fee: Friday, Septemoer 44th, 1907 and forms of tender obtained at the office of the City Engineer. The usual conditions relating to tendering, as prescribed by by-law, must be streetly complied with, or the tenders will not be entertained.

The lowest or any tender not necessarily accepted.

O. A. HOWLAND (Mayor).

Chairman of Board of Courrol.

City Hall, Toronto, Sept. 12th, 1901.

O. A. HOWLAND (Mayor), Chairman of Board of Con rol.

DATE OF PUBLICATION.

Architects, engineers, municipal authorities and others are reminded that the CONTRACT RECORD is printed every Fuesday afternoon, and that advertise ments should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

CONTRACTS OPEN.

MILTON, ONT. - A new Anglican church will be built near the brickworks.

STELLARTON, N.S.- M. Dogherty is this week taking tenders for erection of hotel.

PARRY SOUND, ONT. - Ernest Collett has commenced the erection of a new residence.

VERMILLION, ONT. -- The Hudson's Bay Co. contemplate building a rolling mill here.

LACHINE, QUE. — The by-law to borrow \$27,000 for improvements was voted down last week.

ADOLPHE, ONT .- A. McGugan invites tenders up to the 19th inst. for erection of brick schoolhouse.

WATERVILLE, QUE.—F. G. Gale is about to build an addition to his factory, brick, two storeys, 85x52 feet.

BRADFORD, ONT. — A new heating system will likely be installed in the House of Refuge, at a cost of \$1,500.

PALMERSTON, ONT. - Tenders are asked by S. J. Kearns up to 24th inst. for erection of skating rink, 168x78 ft.

RIDGETOWN, ONT. - The Michigan Central Railway will lay a double track between this place and Bismarck.

ESSEX, ONT .- The trustees of Grace Methodist church are having plans prepared for reseating, painting and heating

NORTH SYDNEY, N.S — Tenders are asked by Joseph Salie: up to 20th inst. for enlargement of Methodist church.

PEMBROKE, ONT. - Bids are invited by J. P. Sarsfield up to Saturday, 21st inst, for supply of 1,000 feet of fire

DRAYTOM, ONT. Tenders for a coal furnace for the Presbyterian church will be received by James Duncan up to October 1st.

DUBLIN, ONT. James Jordan, clerk, township of Hibbert, is asking for tenders up to 23rd inst. for construction of the Hooper diam.

SYDNEY, N.S. The council have decided to engage T. C. Keefer, C.E., of Ottawa, to report on the question of a water supply for this town.

HARRISTON, ONT .- It is expected that a by-law will be submitted to the ratepayers shortly to raise \$8,000 for rebuilding the public school.

OAKWOOD, ONT .- The township of Mariposa intends constructing a system of drainage in this village. Particulars from J. B. Weldon, township cierk.

MIDLAND, ONT. — Bids for the purchase of \$60,000 waterworks debentures are invited by D. L. White, jr., on behalf of the town, up to 30th inst.

GALT, ONT .- The council will likely submit a by-law to the ratepayers to raise \$7,000 for the erection of a factory for the Royal Carpet Company, of Guelph. BLIND RIVER, ONT. A planing and shingle rill will be erected here this fall.

NANAIMO, B. C.— Surveyors are making good progress in locating a route for the Nanaimo Alberni railway. D. R. Harris is in charge.

ALEXANDRIA, ONT. — Tenders close at noon, to-day (Wednesday) for excavating, pipe-laying, and refilling of a sewer, about 1,600 feet.

GODERICH, ONT.—H. N. Green, consulting engineer of Montreal, will make surveys for the proposed electric railway through Huron county.

HAVELOCK, N.B. — W. H. Freeze has purchased a lot on which to build a carriage factory.—Fred Corey, of Boston, will build a residence here next spring.

GUELPH. ONT.—From government authorities who were here last week it is learned that steps are to be taken at once to select a site for the proposed armoury in this city.

BERLIN, ONT. — A by-law to grant the Berlin, Preston & Hamilton Electric Railway a bonus of \$25,000 for the completion of their road was defeated here on Monday last.

MORRIS, MAN. - Tenders for excavating about 5,200 yards of earth and building a dump across the Horse Shoe Lake are invited by R. N. Whitworth up

to 21st inst.

NEW WESTMINSTER, B.C --It is reported that the Pacific Coast Lumber Company is considering the construction of large saw and shingle mills on Burrard Inlet, Vancouver.

HUNTSVILLE, ONT.—The town is offering for sale \$22,000 30 year four per cent. debentures. Tenders will be opened October 1st Particulars from T M. Cullon, town clerk.

FORT WILLIAM, ONT. — W. J. Copp, of Copp Bros., Hamilton, has made arrangements to establish an iron foundry at this place, to be managed by his son, Harold Copp

PENETANGUISHENE, ONT. — Mr. Holmes, architect, of Toronto, has prepared plans for the completion of the R. C. Memorial church at this place. The estimated cost is \$8,000.

OWEN SOUND, ONT.—The trustees of the Baptist church are considering the erection of a new edifice.—Engineers will shortly survey the route of the proposed Manitoulin & North Shore Railroad.

WALLACEBURG, ONT. — Local capitalists are considering the formation of a joint stock company to absorb the present electric light company and establish a system of waterworks throughout the town.

KINGSTON, ONT.— It is reported that the CPR, having recently purchased the Kingston and Penibroke railway which connects with the main line at Sharbot Lake, may build a fine hotel in this city.

STRATFORD, ONT.— A by-law to borrow \$20,000 to pay off civic indebtedness and complete the sewage disposal plant was carried by the ratepayers on the 11th inst. — Tenders close 26th inst., for the purchase of \$20,000 debentures.

AMHERST, N.S.—A company has just been formed here, with Mayor James A. Dickey as president, to operate a coal mining property at river Herbert. It will be known as the Minudie Mining Company, and will put in a new plant at once.

LINDSAY, ONT.—The town council has given notice of its intention to construct the following works: Granolthic walk on William street, from Russell street to Durham street, cost \$1,350, and from Kent street to Russell street, cost \$7,88; sewer on Kent street, cost \$7,517.

ST. CATHARINES, ONT. — Mr. Holmes, architect, of Toronto, has prepared plans and will shortly invite tenders for the remodelling of the R. C. Deanery. —The Security Loan & Savings Company have decided to build a number of residences for employees of the Mc-Kinnon Dash & Metal Works.

ST. JOHN, N. B—Tenders are about to be invited by the city for putting down 12,000 yards of asphalt pavement.—Tenders will close in two weeks for new desks and seats for one of the public schools.—It is rumored that alterations are to be made to the pulp mill of the Cushing Sulphite Fibre Company.

PETERBOROUGH, ONT.—A deputation from this vicinity last week interviewed the Minister of Railways and Canals and asked for the erection of a bridge across the Trent river at Heeley Falls. It was promised that the matter would be considered at the next session of parliament.

TORONTO JUNCTION, ONT. -- Building operations promise to be brisk this fall. Mr. Manson contemplates building a residence for himself on the corner of Clendennan avenue and Annette street, also four houses on Annette street and three on Clendenan avenue. Several houses are also to be built on Humberside avenue.

PORT ARTHUR, ONT. — Charles Wright is negotiating for the erection of a pulp mill at Dryden.—The proposed annex to the King elevator will not be built this year.—By laws to raise \$30,000 to complete the Current River water power development and \$6,000 to purchase land for the Pigeon River Lumbe: Co. were carried here last week by large majorities.

NIAGARA FALLS, ONT. — The Canadian Niagara Power Co. invites tenders up to noon of 21st inst. for the following: Framing, placing and filling of cofferdams in the Niagara river to the extent of 700,000 feet B. M.; laying of underground conduit to the extent of 36 ducts for one mile. Particulars from Cecil B. Smith, resident engineer.

HALIFAX, NS - On behalf of the city W. L. Brown, treasurer, invites bids up to October 8th for loans of \$120,000 and \$11,800, both of which will bear interest at 4 per cent.—R. J. Wilson, secretary school commissioners, invites offers up to October 2nd for purchase of \$21,000 of debentures, required for improvements to Alexandria school and for the manual school building.

COLLINGWOOD, ONT. — J. A. Currie, of the Cramp Steel Company, states that contracts will be let next week for the erection of the company's buildings. There will be a train mill 210x50 feet, bar and rod mill 200x70 feet, boiler house 200x60 feet, and pit furnace house 105x60 feet. It has been decided to advertise for tenders for a sewage system, to be done in accordance with plans and specifications prepared by C. E. Speakman of Toronto.

OTTAWA, ONT..—Tenders are asked by the Department of Public Works up

to September 27th for the construction of an extension to the south pier at Bayfield, Huron county, also for the erection of an immigrant building at Saskatoon N. W. T.—A petition is being circuited asking for the construction of the proposed dyke designed to prevent the annual freshes from the Rideau river; the estimated cost is \$21,000.

VICTORIA, B.C. — The Provincial Government is about to build a government house in this city, tenders for which close on the 25th inst. A cheque for \$1,.000 is to accompany each tender.—The question of raising \$100,000 for sewage purposes is now before the city council.—Tenders are asked by the Provincial Public Works Department up to September 30th for erection of a bridge across Kettle river, in the West Kootenay district.

ST. THOMAS, ONT.—Tenders are invited up to noon of the 20th inst. for building two concrete abutments for a bridge over Dingman's creek, in the township of Westminster. Plans at office of James A. Bell, C.E., this place.

—E. H. and W. E. Thomas have made a proposition to the city council to establish a factory here for the manufacture of brooms, brushes, and woodenware. In lieu of a bonus of \$20,000 they agree to erect two brick buildings, two storys, 200x 40 feet.

HAMILTON, ONT.—J. A. Zimmerman has purchased Garland & Ruther ford's drug store and purposes making improvements thereto – Building permits have been granted as follows: Donaldson & Patterson, brick dwelling on Herkimer street, cost \$1,600; Coppley, Noyes & Randall, alterations to building corner Metrick and McNab streets, cost \$1,600 – Tenders closed this week at the office of Stuart McPhie, architect, for addition to boiler and heating apparatus to public library.

VANCOUVER, B.C.—It is announced that Stone & Webster, electrical engineers, of Boston, have signed an agree ment with the Stave Lake Power Company to install the necessary plant at Stave Lake, and that work will be commenced immediately. The electric power will be transmitted to this city and New Wessimister.—The report is confirmed that the British Columbia Railway Company have applied for rights at Coquitlam Lake for the purpose of developing power The manager states that the cost of the proposed plant will be about \$500,000.

WINNIPEG, MAN.—The council is about to undertake the following works. Granolithic walk on noith side of Rupert avenue, cost \$1,900; sewer on Flora avenue, cost \$1,855, and on King street, from Sutherland avenue to Flora avenue, cost \$5,900; macadam pavement on Market stree., cost \$3,740; on Jarvis avenue, cost \$5,925; on Balmoral street, \$4,360; cedar block pavement on Logan avenue, cost \$5,966; asphalt pavement on Balmoral street, from Notre Dame avenue to Qu'Appelle avenue, cost \$19,000. — James McDiarmid and Mr. Sandison are understood to have purchased property? on the west side

FOREIGN and DOMESTIC PORTLAND CEMENTS

Pure refined Coal Tar for Tar Macadam Roadways and Pavements.

Sanitary Building Papers and Patent Wire Edged Ready Roofing for Municipal and other Buildings.

ECONOMICAL DURABLE FIREPROOF

THE PATERSON MANF'C CO., LIMITED TORONTO MONTREAL ST. JOHN HALIFAX

of Main street, just north of Logan street, on which to build a block of store. — MacKenzie & Mann have bought four blocks of land in St. Bonface on which to lay out yards for the Candian Northern Railway. A freight shed and warehouses will likely be built also.

and warehouses will likely be built also.

MONTREAL, QUE.—Plans of the new building for the Pointe Ste. Charles Railway Y. M. C. A. have been approved of and work will be commenced immediately. Building will contain 60 single bedrooms, gymnasium, baths, bowling alley, reading rooms, etc.—William an Walter Stewart, brick stable on Hannah street for P. W. Watkins, cost \$1,000.—William R. Mead, of the architectural firm of McKim, Mead & White, New York, has consented to act as expert to judge the plans submitted by local architects for the new Board of Trade building. The building will be six storeys in height, and is to be placed as for as possible upon the old foundations. Stone brick and stone trimmings will comprise the mateeriais used. It is the intention to employ fire-proof construction throughout. There will be four passenger elevators and one goods elevator.—David Seath, secretary Harbor Commissioner, invites tenders up to noon of the 20th inst., for supply of 940,000 scoria paving blocks.—The Jesuit Fathers contemplate the erection of a country house at Lake Nominingue.

TORONTO, ONT.—The city has given notice of its intention to construct an asphalt pavement on Elm avenue, from Sherbourne street to Glen road, at a cost of \$8,600.—The ratepayers of Wards 4 and 5 will petition the city ouncil to provide funds to complete the Bathurst street school. It is estimated that \$26,000 will be required for this purpose.—Flans of proposed extension to pier a Bayfield, Ont., may be seen at the office of H. A. Gray, Confederation Life Building, this city.—A. B. Davison, repeesenting a syndicate, has applied to the coucil for a ten years' lease of city property at Centre Island for a pleasure resort and athletic grounds, and offers to expend about \$200,000 in wharves, ferries, and other improvements.—The American Steel & Wire Co. are looking for a site for a Canadian branch of their works and may locate in this city.—It is a spected that plans for the mineralogy and geology buildings of the University of Toronto will be decided on in a few days, and that work on the foundation will be commenced this fall.—A citizen whose name is not been disclosed, has made an offer to the city council to spend \$20,000 on a summer home for the poor at Centre Island if given a free site.—Plans have been prepared and tenders will shortly be invited by Mr. Holmes, architect, for remodelling Mrs. Hayes' hotel on Bathurst street. The cost of the work will be about \$1,500.—Building permits have been grunted as follows. G. W. Beardmore, improvements to residence, 136 Beverly street, cost \$2,500; T. Eaton Co., completion of fifth

storey to store, cost \$2,000; C. K. Rogeis, new front to shotel, 60 York street, cost \$1,800; Dr. Charles Sheard, alterations to residence on Jarvis street, cost \$10,000; Walter Nish, residence, 247 Lansdowne avenue, cost \$1,000; Å. E. Henderson, two dwellings, Bathurst street, near Ulster. cost \$5,000; W. R. Griner, residence, 21 Beaconsfield avenue, cost \$2,500; Charles Boeckh, St. George street, near Haibord street, cost \$1,500; George C. Walson, one storey gospel hall, Broadview avenue, cost \$2,000; J. M. Purvis, two storey warehouse, west side of Don, between King street and Eastern avenue. cost \$5,000. — Henry Simpson, architect, wants tenders by noon of 19th inst. from all trades except carpenter work for erection of a resisidence on Queen street avenue for Charles Burns. — Macpheison estate, brick dwelling on Crescent road, near Yonge street, cost \$2,000; Clemes Bros, alterations to warehouse, corner King and Church streets, cost \$2,300.

FIRES.

Residences of Elzear Dion, Napoleon Baker and Mrs. Perrault at Lake Megantic, Que., totally destroyed.—Flax mill at Thedford, Ont. – Times printing office and the Strachan block at Tilbury, Ont. Residence at Brighton, Ont., owned by W. W. Porte, totally destroyed.

CONTRACTS AWARDED.

KINGSTON, ONT. — The contract for proposed opera house has been let to Ald. McLeod.

MIDLAND, ONT.—The contract for another section of the waterworks system has been awarded, Clarke & Connolly, of

Toronto, being the successful tendere for the conduit and Mr. Davenport fo the pump house.

PORT ARTHUR, ONT. — H. Dawson has let the contract for a brid residence to L. A. Purcell.

NELSON, B. C. — The contract for new Salvation Army barracks has been let to Mr. Gillet, at \$5,948.

SMITH'S FALLS, ONT.—F. Dola & Sons, of Brockville, have been award the contract for granolulus walks here.

DALHOUSIE, N. B.—P. B. Trhas secured the contract for rebuildithe Presbyterian church; price, \$5,6

PAISLEY, ONT. - The contract f reseating the Methodist church has be given to the Valley City Seating Co., Dundas.

MAGOG, QUE.— The tender of Pepin, for building foundation wall new fire station, at \$550, has been a cepted.

ST. JOHN, N. B.—The Maritime A Glass Works, this city, have secured to contract for art glass windows for Marks Presbyterian church, Dougl town.

WIARTON, ONT.—The contract building and plant for the Wiarton B Sugar Co. has been given to the Color Construction Co. of Montreal; estima cost \$350,000.

TORONTO, ONT.—Wood fiber pl ter is being used on the Manufacture and the Foresters' arches now be built. The new addition to the Wal House has been plastered with the sa material.

VICTORIA, B. C. — Three tend were received by the Board of sch

Good Roads Machinery Co. (Limited.)

JOHN CHALLEN, Manager, Hamilton, Ont.

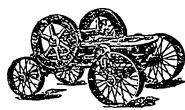
"CHAMPION" Rock Crushers, Road Rollers, Road Graders, Road Plo Macadam Spreading Wagons, Street Mud Cleaners, Wheel & Drag Scrape

Now introduced in every Province of Canada. ... Send for Twentieth Century Catalogue.

McGREGOR & McINTYRE 65 to 78 Pearl Str TORONTO, ONT STRUCTURAL, IRON WORKS

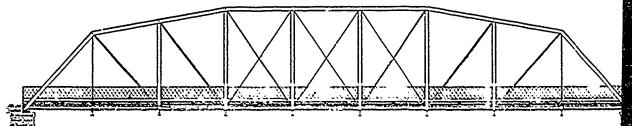
Trolley Pole Brackets; Electric Light A.ms; Prison and Jail Cells; Fire Esca Automatic Fire Shutters and Loors; Iron Sidewalk Doors, Etc.

We stock Bar Iron, Bar Ste 2, Steel Angles, Channels, Etc.



STONE Crushers, Stone Spresing Wagons, Wheelers a Drag Scrapers, Plows, Sterand Horse Rollers, Road Greers, &c.

SAWYER & MASSEY COMPANY, Limited - Hamilton, Cand



The Hamilton Bridge Works Co., Limited, Hamilton, Canada STEEL RAILWAY and HIGHWAY BRIDGES
STEEL ROOFS and Bvery Description of STEEL LATTICE and GIRDER WORK ERANS, CHANNELS, ANGLES and TRES always in Stock

stees for erection of new high school iding, as follows: Thomas Catterall, 422 (accepted); M. Humber, \$23,; John Coughlan, \$24,400. The epted tender does not include heating t ventilating ayparatus.

YDNEY, N. S.—T. M. LeBlanc, of noton, has secured a contract from the a reservoir of 10,000,000 gallons acity and the laying of two miles of 6-1 pipe at Point Tupper.

IANAIMO, B. C.—The following tenthase of \$10,500 street improvement entures: Canadian Bank of Com-ce, \$10,622.50, (accepted); John lock, \$1,500 at par; John Pawson, on at par.

TTAWA, ONT. - The American k Note Co. will erect a two storey tion to their building on Wellington the Arnoldi & Ewart are the archii, and Holbrook & Sutherland the ractors.—Contracts for the Columbus have been let by G. M. Bayley as ws: Brick and stonework, T. Keni; carpenter work, Bryan & Son; and steel, Dominion Bridge Co. ding will be four storeys, stone and t, 45 x 75 ft., cost \$16,000.

ONTREAL, QUE.—The C. P. R.: awarded the contract for roofing ers and iron posts for new train to the Dominion Bridge Co.—Cons were awarded last week by the erworks Committee as follows: Lum-J. T. Marchand & Co. and James rer & Co.; special castings, P. cse, \$60 per ton; brass, Rubenstein, 15 cents a pound; bronze, W. R.

ALWAYS IN STOCK

LEAD, PIG TIN AND SOLDER

case Smelting Works, Montreal, P.Q.

Cuthbert & Co., 22 cents; lead pipe, Thomas Robertson & Co., \$81 a ton; cast iron, P. Amesse, \$12 a ton.

BUSINESS NOTES.

The Brantford Brick Co., of Brantford, Ont., has been incorporated with a capital of \$25,000 to manufacture brick, etc. Robert Hall and Charles Coulson are interested.

E. E. Miller, tinsmith, Deseronto, Out., has assigned to H. R. Bedford. A meeting of creditors will be held on the 26th inst.

Goulet & Co., sash factory. Shawinigan Falls, Que., have dissolved.

The dissolution is announced of Dulong & Grignon, rlumbers, Montreal.

LaBarre & Hodson, painters, and decorators, Grand Forks, E. C., have been succeeded by LaBarre & Hall.

Mrs. Ernest Chapman has registered

proprietions of the business of Si. Cannon & Co., contractors, Montreal.

The James Barnes Construction Co., Limited, of Fredericton, N. B., is applying for incorporation to build railways and do general contracting business. Barnes of Buctouche, and R. A. Estey, of Fredericton, are directors.

A new R. C. church is being erected in Albion township from plans by Mr. Holmes architect, of Toronto, to cost \$7,000. James Jarratt, of Alliston, is the contractor.

The Pease Furnace Co., have just installed a new furnace in the public school at Richmond Hill.

The premises of W. A. Bradshaw, manufacturer of wood fiber plaster, 109 Front street east, Toronto, were damaged by fire last week to the extent of \$40.

CONCRETE SIDEWALKS FAVORED.

The members of the Toronto Board of Control have come out strongly and un-

Power Pumps **Duplex Pumps** Electric Pumps Artesian Well Pumps Compressed Air Pumps

We are prepared to equip municipal or other water works plants with Pumping Machinery of the latest and most approved designs. We manufacture Steam and Power Pumps of all types, for any duty. Our long experience is behind all our products. They are the standard in Canada for excellent service. Catalogues and specifications on request from The Northey Company, offices and workshops at Toronto, Ont.

hand pumps in first-class condition for water works services at class prices. Send for Catalogues.

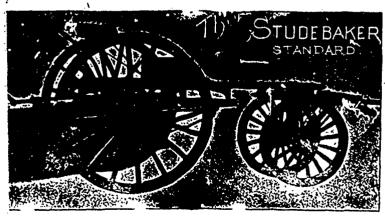
Company Compted

he Canadian Bridge Co., Limited WALKERVILLE, ONT.

MANUFACTURERS OF

LWAY AND HICKWAY BRIDGES

otive Turn Tables, Steel Buildings and Iral Iron Work of all descriptions.



sweeper to effectually does the work for which it is designed as "The Studebaker." s Clean. Not respect is constructed with the rame degree of care and mechanical precision.

Well. "The Studebaker" has the smallest possible number of working parts; and has less any other sweeper made. It is free from unnecessary complications. With reasonable care it it of order. Send for complete descriptive catalogue.



Studebaker Sprinkler

PATENT IMPROVED.) Does not clog or get out of order. Greatest width of spray Can by graded from driver's seat to any volume.

IMPROVED VERTICAL SPRAY

We also make an .

Geo. Heamai, Mnfr., London, Ont.

ammously in favor of the use of concrete in laying sidewalks as opposed to wood. They declined, recently, .o adopt a number of recommendations from the Works Committee for plank sidewalks on certain streets, and referred them back for further consideration, owing to the incre. Jed price of wood, and the continued reduction in the cost of concrete. At present sidewalks in the outlying portions are being laid with planks, but the use of concrete is compulsory in the central portions. The use of concrete will likely be extended to all parts of the city within a few months.

Ligures submitted by the city engineer prove that concrete is really much cheaper for sidewalks than wood. The cost of a five foot concrete sidewalk is 45 cents a foot, but the cost is extended over ten years, while the 33 cents a foot for wood had to be paid within three years. A concrete pavement would last forty years, perhaps -four or five times as long as a pl. nk sidewalk

PROPOSED DRAINAGE WORKS.

A number of petitions have been received by the Ontario Department of Public Works from municipalities which desire to take advantage of the Drainage Act of last session. The petitions before the Government, which are now being examined by the engineer, are as follows :-

Folen Island where the cost is rendered great by the necessity of establishing dykes and removing the water by pumping.

West Tilbury township, in Essex, 55,500 acres to be reclaimed and benefited; estimated cost \$45,673.

TOWNSHIP DEBENTURES WANTED

Highest Market Prices paid for Township and other Bonds by The Central Canada Loan & Saving Co'v Cor. King & Victoria Sts.

BANKERS. OTHOUGH tast toert2 greW Re

Buy and Sell GOVERNMENT, RAILROAD and MUNICIPAL SECURITIES.

Dredges, Litchers, Derricks and Steam Shovels

of various styles and sizes to suit any work.

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

Winchester township, large dramage scheme running through Mountain Russell, and Winche for townships, Dandas and Russell counties, estimated cost, \$38,335.

Mountain and Osgoode townships, for aid in the Silver Creek and Castor River drainage scheme, townships of South Gower and Winchester being also benefited, and the Castor River drainage outlet for a very large territory in Carleton and Dundas counties, estimated cost, \$24,008.

Matilda township, Dundas county, improvement and dredging of Petite Nation River, omict for dramage systems in townships of Matilta, Mountain, Winchester, and townships to the west of Dundas county.

Osnabruck and Cornwait townships in Stormont, in Aux Raisins River drainage scheme, expensive because of rock excavation; to cost \$35,000.

Conswall township, Beaver Creek drainage scheme, to cost \$7,500.

Lastern township, in bruce, rejoue acre to be benefited, to cost \$11,000.

Bromley township in Renfrew county waters of Muskrat and Snake Rivers to be lowered, 3,500 acres to be reclaimed and large areas to be benefited by better drainage.

Maryborough township, in Wellington drain affecting lands in townships of Alma Grey, Wallace, Maryborough, and the town of Listowel.

The total expenditure involved in the above will be about \$200,000.

Paving Granite

Granite Sets for Street Paving. — CURBING cu to any shape ordered. Fine Rich Colors for Building and Monumental Purposes.

Quarries, St. Phillipe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET

COTE DES NEIBES. MONTREA



BRAND

_HIGHEST CLASS PORTLAND CEMENT

MCGILL UNIVERSITY TESTS, 1898:

residue un tou sieve, ineness. Zensile strength: neat. 7 days, 629 773 lb.

-OF ALL FIRST CL USS DEALERS-



Brand

(formerly "Schifferdecker")

Highest Class Portland Cement.

Very finely ground.
Output 1900—one million barrels
Used extensively in construction of the Chaudiere Dam.

. . . OF ALL FIRST-CLASS DEALERS

Thorn Cement LEHIGH" PORTLAND CEMEI

Capacity, 4,000 Barrels every day in the year.

For Sidewalks and all other work requiring the highest quality Poitlan i Cemend. Used by the U. S. Government and the Trigest contractors and users of Fortland
Cements in the United States.

THORN CEMENT CO., 112 118 Church Street, BUFFALO, N.Y. &

The KERR ENGINE COMPANY, Limited

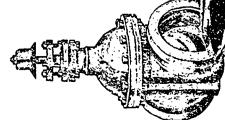


Gorporations and Gontractors . .

prices on

PUMPING MACHINERY HYDRANTS and VALVES

WALKERVILLE. **ONTARIO**



MUNICIPA DEPARTMENT

THE SEPTIC TANK SYSTEM OF SEWAGE DISPOSAL.

A contemporary gives the following lescription of the "Septic Tank" system of sewage disposal which has been sucessfuly established at Exeter, Barrhead Glasgow), Huddersfield, Taunton and everal other places in the Old Country, nd which entirely reverses former ideas n the subject.

For the ancient aim of sewage, theorists vas to destroy the hacteria; he aim of his system is to preserve the bacteria in rder that they may consume the impuriies, and then themselves go offinto gases, which can be utilized for lighting or other urposes. The first ray of light which vas thrown on the matter was a sugestion by Dr Dupre that the purificaon of sewage might he effected, in part tany rate, by the agency of micro organ ms. The idea was seized upon by many corkers, who sought to embody it in praccal form. But the experimental septic unk installation laid down at Belleisle, ear Exeter, by Mr. Cameron, during the inter of 1895-1896, to deal with the sewrage of a part of the parish of St Leonrd, marks an epoch in the history of this uestion. The system which it embodies iolated nearly all the recognized canons sewage treatment. The orthodox mode

THE ... Portable Gravity Concrete Mixer DARTNELL, Agent, MONTREAL

own Lighting Acetylene Gas

Wamnke'n Specialty of Acetyne Guster lighting of Lewis and We have alublic Buildings. eady installed a number of town ghting plants, which in every case we proved to be satisfactory, a w of them being : Aurora, Bolton, holey, Milverton, Rodney, Selrk Severn, Thamesford, Ont., firaen, Man., birtie, Man., etc.,

gr further particulars address . . .

lk Acetylene Gas Mfa · 60 · Limited LONDON - - ONT

of procedure was to throw dean the suspended so ids by means of chemicals, and to seek o solidify the dissolved impurities, in order to deal with them as solids. Mr. Cameron, on the other hand, liquefied the solids by means of bacteria, in order to deal with them in a liquid form. Decomposition, it was formerly said, must be presented it whitever . J. Mr. Camer on set himself to promote decomposition. Most important of all, bacteria in sewage must be exterminated. Mr. Cameron did all in his power to cultivate them, for he recognized what earlier experimenters had failed to see, viz., that with t decomposition of polluting matter there can be no change from foulness to purity. The task which he set himself, therefore, was to promote this natural process, and to place it under perfect control. The successful purification of sewage, as might be expected from the number and complexity of its constituents, demands an infinite number of workers, and involves a multiplicity of processes. For our present purpose, fortunately, it will suffice to consider these under two heads. the destruction of the solid matters as such, and, secondly, the purification of the dissolved polluting matters. After many years of patient experimenting, Mr. Cameron arrived at the conclusion that the liquefaction of the solid matter would be best effected by the agency of those bac-.eria which are classed as "anaerobic that is to say, which thrive in the absence of air. He accordingly devised for their accommodation the receptacle which is now known as the "septic tank." A septic tank consists of a chamber containing about one day's flow of sewage, more or less, according to the strength of the latter. It is generally covered, and the exclusion of air is completed by the submergence of the inlet and outlet pipes, so as to deliver and draw off respectively below the surface of the sewage. Instead of

filling and emptying the tank alternately, as is done with a precipitation tank, the sewage is allowed to run through it continuously; and it is not emptied from one year's end to another. Although the flow through the tank is continuous, the motion is so slow that its contents are practically at rest, affording ample opportunity for the separation of the soud matter; the heavier substances sink to the bottom, while the lighter bodies float to the surface. Seeing that all these are encouraged to enter the tank, instead of being kept back by screens, as is done where precipitation is resorted to, a thick scum soon forms over the surface of the liquid. The various races of liquefying bacteria are thus afforded the conditions most favorable to their growth and activity, viz., an abundant food supply, darkness, an equable temperature, absence of atmospheric oxygen, and a steady current to wash away the products of decomposition. So well do they do their work that the tank at Belleisle has now been in use for close on four years without requiring to be cleared. The floor of the tank is covered with a fine deposit, largely mineral; but the bulk of this is trifling compared with that of the solid matter which has been brought in with the sewage. The solid matter being thus got rid of, it remains to purify the liquid effluent. This task, like the preliminary liquefaction, is performed by bacteria. These, however, are of quite a different stamp from those which do the rough work is the septic tank. They are accordingly housed in a

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

MBH CAN, SOC. C.E. AND C.E.A., ETC. (Late City Engineer of Ottawa and Chief Engineer of the Water Works Dept)

CONSULTING ENGINEER and EXPERT

NATIONAL TRUST BUILDING, 20 King Street E., TORONTO,

Specialties-Water Supply and Sewerage.

JOSSON OEMENT ... Manufactured at... NIEL ON RUPELL

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

C. I. Ge Sola, Manager in Canada : 180 St. James Street, MONTREAL

The Canadian Portland Cement Company, Limited

Manufacture "RATHBUN'S STAR" "BEAVER" "ENSIGN"

Strathcona, Ont; Marlbank, Ont.

CAPACITY: 500,000 Barrels per Annum

-For Prices, write, wire, 'phone or call on our Sales Agents:

THE RATHBUN COMPANY 310-312 Front Street West TORONTO, ONT. Telephone Main 1379. St. Lawrence Portland Cement Co. 2664 Notre Dame Street West Montreal, Que. Telephone Main 3987.

PORTLAND CEMENT **Magnet Brand**

Samson Brand

MADE AT SHALLOW LAKE, ONTARIO

Our celebrated SAMSON BRAND has been before the public for many years, and has made hosts of fire todamong Contractors and Municipal Corporations until it has become one of the hading Cements on the market i
day, being excelled by none. This year we have decided to place the MAGNET on the market, and respectfully
ask consumers to give it a trial. It will, we think, do its own advertising.

Correspondence invited. GEO. S. KILBOURN, Secretary-Treasurer.

WORKS, Shallow Lake, Ont.

HEAD OFFICE, Owen Sound, Out

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

lis Chi?man

Hon. Grad. McCoil University.
Can Soc. C.E. M. Am. Soc. C.E.
Mem. Am. W.W. Ass n.
WORKS, SEWERAGE WORKS, GAS
WORKS, ELECTRIC LIGHT AND
POWER PLANTS
16, SUTTOYS, CONSTRUCTION, VALUATIONS 03 BAY STREET - TORONTO

SPEAKMAN, C.E.

A. M. Inst. C. E., 1878.

YSULTING ENGINEER

aterworks, Sewerage and Sewage Disposal.
unicipal Improvements.
anolithic Pavements.
cettic Light Plants.
rainage and Irrigation of Land.
all Handling Plant and Machinery.
ans, Specifications and Estimates.
onstruction and Valuations.

da Life Building - TORONTO

ODERICK J. PARKE A M. American Institute E. E.

CONSULTING ENGINEER UNDULTING ENGINEER
and Superintendence of Electric Railroads,
and Hydraulic Plants, Long Instance Power
missions, Municipal Electric Lighting Systems,
ig and Electrolytic Processes.
Estimates Valuations Tests
Reports for Financial Institutions
0 Temple Building, TORONTO, CANADA
Long Distance Telephone 8047.

m. Mahlon Davis

Graduate R. M. College. Joc. C. E. Ont Land Surveyor.

ONSULTING ENGINEER

BERLIN, ONT.

rks, Sewerage, Sewage Disposal, under The Municipal Act, Roadways.

STONE PRYEMENTS CICIAL

ID WALKS A SPECIALTY

Will do well to consider our work

ilica Barutic Stone Gompani of Ontarlo, Limited.

R MILLS, Manager.

Head office: INGERSOLL, ONT.

THE TIME

ake arrangements for light during the winter



Winning Vancouver

Rossland Nelson

THE PHŒNIX BRIDGE & IRON WORKS

MANUFACTURERS OF STAY BOLTS AND ALL KIMDS OF RIVETS

STEEL AND IRON STRUCTURAL AND ARCHITECTURAL WORK

Beams, Channels, Angles and 29 to 49 McGIII Street, Tees always in stock.

P.O. Box 893. Prices on Application. **MONTREAL**

Dominion Bridge Co., Ltd.

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

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

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

RERLIN IRON BRIDGE CO.

THREE RIVERS, P.Q.

MANAGER: P. E. LANE, PLACE VIGER HOTEL, MONTREAL.

Steel Bridges, Steel and Iron for Buildings, and Structural Metal Work of all kinds.

Send for Catalogues, Plans and Estimates.

BRIDGES, STEEL CONSTRUCTION AND CASTINGS

Steel and Iron of every description, Shafting, Railway Supplies, Engineers and Contractors.

Coment and Concrete Work. Sidewalk Lights.

CANADA SUPPLY CO., - Express Block, -WINDSOR, ONT

and Cements...

HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.

Best English Cements. Best Bulgian Cements Sewer Pipes,

W. McNALLY & CO., Montrea Culvert Pipes, &c.

W. & F. P. MONTREAL

SEWER PIPES.

CHIMNEY TOPS, VENT LININGS. FLUE COVERS. FIRE BRICKS,

> FIRE CLAY, Whiting.



PORTLAND CEMENTS.

HIGH GRADE ENGLISH B. S. & Co. "Anchor, ALSO OTHER BRANDS. PLASTER OF PARIS BORAX, FIRE CLAY.

SEWER PIPE CO. THE

Sewers **CULVERTS** AND

WATER PIPES.

INVERTS

Srick Somers

Write for Lanoures OTKOBOT

very different fashion, their workshops being variously known as "bacteria beds," "contact beds," and "filters." The last of these terms, though not whoily appropriate from a scientific point of view, is so convenient and so well known that it is most generally adopted. A plentifut supply of oxygen is essential to the purification of the effluent, and the chief function of a filter is to secure a thorough admixture of this with the atmospheric air. Many devices more or less ingenious have been employed for the purposé; but in point of simplicity and efficiency the following method is the best. It consists in charging a filter with some granular material such as coke, burnt ballast, or broken clinker, filling the interstices of the material with the liquid to be purified, keeping the filter full for a certain period, and finally drawing off its contents. The liquid descending through the filter is brought into close contact with the air which the latter contains, and is purified by the agency of the aerobic bacteria therein. In addition to promoting the admixture of liquid and air, the filtering material serves the further important purpose of affording a resting place for the bacteria, which would otherwise be washed out at every discharge. To secure the utmost efficiency, these organisms must be brought as near their mark as possible; in other words, the interstices should be narrow, so that no portion of the iquid may be far from the filtering medium. The latter should be in small pieces, so as to afford the maximum superficial area; but, on the other hand, it should not be so fine as to prevent the liquid from passing away freely. In order to secure efficient working, and at the same time to maintain the filters in healthy condition, they must be worked in regular rotation. If the valves regulating the admission and discharge of the effluent are opened and closed by hand a man must be constantly present to watch the rate of filling, and open and close the valves at the proper times; and if the work is to be done regularly and efficiently, he must never fall asleep at his post, nor yet make a mistake. Now, the infallible man is not easily found, and in any case the wages of successive relays of men for the night and day shifts would bear very liardly on a small community. It was therefore necessary to devise means whereby the filling and emptying of the filters might be effected without manual intervention. For this purpose automatic alternating gear was introduc ed, in which the various stages of filling, resting full; discharging, and aerating are brought about in turn by means of an

DEBENTURES

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

G. A. STIMSON & CO. Investment Dealers 24 and 25 King St. W. TORONTO

overflow from the filter last filled. The alternating gear at Belleisle has done its work with unfailing precision for the past three and three-quarter years, during which time it has effected something like ten thousand discharges. The whole installation is thus rendered completely automatic, the attention required being reduced to an occasional visit of inspection, oiling the bearings of the gear at long intervals, and throwing the spare filter into work in place of one of the others every second or third day. The filtered effluent varies somewhat in appearance, according to the period of the discharge and the strength of the sewage; but it never fails to excite the svarm admiration of the deputations who come to inspect the works, and who often have to taste the filtrate to satisfy themselves that it is really as good as it looks. As regards the financial aspect, the first cost of an installation on the septic tank system is in general not more than that of works of the kind hitherto in vogue. Bearing in mind that works on this system for a given population are always capable of dealing with a large quantity of storm water in addition to the sewage proper, it is really cheaper than the older systems, even as regards first cost. The true criterion, however, is the annual cost of working, which, for precipitation works of a moderate size, would range from a shilling to eighteen ponce %

per head or even more. Works of t kind for a population of 47,000, which works now being laid down at Bellei will be capable of serving, would the fore cost from £2,500 to £3,500 per num for working expenses alone. septic tank installation will probably cost one-twentie h part of the smaller s

FINISHING WHITE AND YELLO PINE.

One of the best, thought perhaps not cheapest way to finish white pine's see that the work is well sandpapered a the grain, then thoroughly dusted. G it at least one coat of white shellac varr and one coat of inside varnish. Sho this prove to be too expensive, substite liquid filler for the shellac. For hard yellow pine finish apply one coat of one shellae varnish and one or two coatsh hard oil finish, or omit the shellae apply hard finish instead. A filler is required for this wood. In every instant however, whether shellac, varn sh, lie filler or hard oil finish is used, care n be taken that the first coat is thorough dry and hard before applying the succeing coat, or the latter is liable to sink cansing lack of lustre.

Lyons Electric Co. - Brantford, On Contractors, Specialists, General Supplie Close Figures on High Class Work



HIGHEST GRADE

SOLE AGENTS-

Largest Makers in the World.

30 St. Francois Xavier Street

MONTREA

BELLHOUSE, DILLON & CO., 30 St. Francois Xavier St., Month Sole Agents for the Compagnic Generale des Asphaltes de France (Rock Asphalt.

Paving and Fire Brick a Specialty

NORTH'S "CONDOR" BRAND AWARDED FIRST PRIZE AND GOLD MEDAL AT THE ANTWERP EXHIB



PORTLAND

Sewer Pipes Fire Bricks

Fire Clay

ALEX. BREMNER

50 Bleury Street, MONT

MUNICIPAL DEBENTURES BOUGHT

AZMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-21 King St. West, TORONTO

Ganada Foundry Gompany, Limited,

Engineers, Founders and Machinists.

STRUCTURAL STEEL AND IRON WORK

BEAMS, CHANNELS, ANGLES AND PLATES

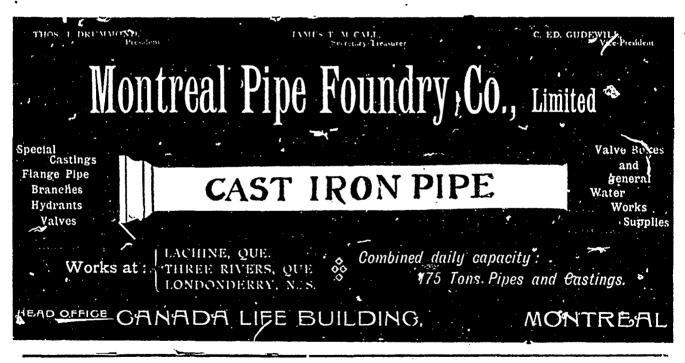
ALWAYS IN STOCK.

GAS AND WATERWORKS SUPPLIES

Cast Iron Gas and Water Pipe, Valves, Hydrants, Valve Boxes, and Special Castings of Every Description.

OFFICE AND WORKS:

35 BERKLEY STREET, TORONTO.



ALEX. GARTSHORE, President.

I. G. ALLAN, Secretary and Treasurer.

IAS. THOMSON, Vice-President and General Manager.

THE GARTSHORE-THOMSON PIPE & FOUNDRY CO.

Manufacturer of:::

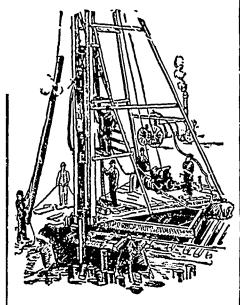
Flexible and Flange Pipe, Special Castings and all kinds of Waterworks Supplies.



3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

THE THORETHE AT



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, Juding Submarine Work and General Contracting.

WM. HOOD & SON
10 Richmond Sq. - MONTREAL

Prices of Building Materials.

P.O.B. P.O.B. Milton, Ont. Montreal. DON VALLEY PRESSED BRICK WORKS. Ornamental Bricks of all kinds for Mantel purposes.
Porous Terra Cotta Bricks for lining.
Porous Terra Cotta Bricks for lining.
Semi-Vitrified Street: Paving Bricks.
Semi-Vitrified Foundation Bricks.
Common Stock Red and Grey Bricks
Sewer Bricks.
Stone for Macadamized Roadways. TORONTO PRESSED BRICK AND TERRA COTTA WORKS. P.O.B. Milten, Ont. Montreal. | 1500 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | .cc per ft. rup. fing Tiles, \$20.00 per 2,000, \$23.00 Montreal. BEAT'SVILLE BRICK AND TERRA COTTA C'. P.O.B. F.O.R. Beamsville Montreal.

Third Edition

Canadian Contractors' Hand-Book

A revised edition of the Canadian Contractors' Hand-Book is now in preparation, and will be published about October 1st.

Place your orders now.

C. H. Mortimer Publishing Company, of Toronto, Limited,

Confederation Life Building, Toronto.

		•	
Beamsville.	Montreal.	OF ATE	C
		SL.ITF.	Toronto. Montreal
Buft Peerless 20 00	25 10	11. ((70	
	23.50	Res fee (V square)	
" No. 1 130)		11 Ted	17 50 20 00
" No. 2 15 00	20 50		
Moulded and Ornamental B ic from \$3 to \$-0 ter C			
Roman Red (Size sawawa Kun). as n.	33 50		M
Buff	33 50		Toronto, Montreal
II Brown II II neco		" purple	85 10.0
Bickii 34 00	30 20	diagram	
vitrified Paving Brick No 18 00	23 50	-ding green	851 700 \$00
vitrified Paving Brick No. 18 00	20 50	olack	7 50 6 50
Sewar 6 50	12 00	Tena Cotta Ti.e per sq	20 00 75 07
	26 00	Orgamental Black Slate Roofing	
Roofing Tile 22 co	20 00		, 100 0.0
		CEMENT, LIMB, etc.	
STONE.		• • •	
~~~~~		Portland Cements -	
		"Josson "Brand Portland.	305 325 270 280
.oronto.	Montreal	North's "Condor	205 41 950 760
		Alsen's, (German)	
Commen Rubble, per tous,		" Farmada" (C	3 0 3 15 2 60 2 75
		"Karistadt" (German)	28, 30, 25, 270
delivered 200	1 00	r agusta, artificial, per bbl	285 30 245 240
Large flat Rubble, per tose,		Relgian natural, per bbl.:	200 210
delivered	10.00		
Foundation Blocks, per c. ft. 33		Passes	4 3 4 3
Foundation Blocks, per c. ft. 35	:0	*****	3 10 3 20
Granite (Stanstead) Ashlar, 6		Ensign, "	190 2 20
in. to za in., rise om., per ft.	٠\$	Untario, "	4 40
Amherst Red Sandstone,	•	Rathbun's Star, per bbl Beaver, Ensign, Untarto, Roman Parian Keene Superfine "Whites".	2 10 2
Amherst. N.S., per cub. ft. 00	75	Parian "	
		Yana Caa-Caa 11117 ' 7	575 575 57 575
Sackville, N.B., brown see. 85	75	Keene Superfine "Whites".	21 00 12 00 0 0 10 20
Masillon 30 00		Keenes Coarse "Whitee"	3 ∞ 3 50 8 50 0 ± n
Stanstead granite paving		Raevel's Belgian, 396 lb. bbl.	2 35 2 45
blocks, 8 in. t 12 in. x6 in.		Levie Brow,	
will in man life		Fine Unishe Namenala M	7 45 2 52
x4 % in. per M	50 00	Fire Bricks, Newcastle, perM	2000 3200 1000 11 0
Granite curbing stone, 6 in.x		" Scotch "	30 00 35 00 10 00 21 . 0
20 in. per lineal foot	70	Lime, soo lbs., Grey	30
Boctouche Olive Freest ne. 85	•	Lime, .00 lbs., Grey	
Olive Sandstone (Indiantown, N.IL) 85		Plaster, Calcined, N. 9	
Brown " (Sackville, N.B.) &5	70	rissier, Cultineo, N. 5	700 150
	70	" N.S	200 10
Moat red sandstone, per cu. ft	So t.	Hair, Plasterers', per bag	80 100 00
Black Parture Lut stone, per cu. ft,	So		
Nova Scotia blue crey, per cu. ft	65	ARCHITECTURAL	TADVICTION 9
Tions people and fire) bet entitled	دی	ARCHERACEORAL	VARNISHES. 3
E O B Halifay THE IMPERIAL VARNISH AND COLOS CO, LIMITED.			
Dimension stock granite for build-		(Highest g	Tage)
	\$4.0		
ing purposes, per cubic foot	\$o 45	ì	g
Do., for polishing purposes, up to 2		•	
tons weight, per cubic foot	1 00		Series Se
Paving sets, per thousand block	600	(Cans free.	ie 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등
a dring seed ber enterming auten tre		*************	
		,	0
Change to a Land Concern		ì	For gal For gal For gal For gal In 2, 13, 00 For Gal For Gal
CREDIT VALLEY STONE.	-		
Fateri v wearing body\$ 57857 \$5356 1086 10			
ፈ ስ ፈ	Quarries.	L'attrio mbbine	10 000 000 000 000
F.U.D	Ageilies	Fattrio rubbing	20 212 302 4 10 4 40
D. 111		gl sto is	150 375 385 470 460
Rubble, per ton	5)	Ivity trame inc	5∾ 535 535 57) 6 to
Brown Coursing, up to so; n.	•	C*13'30 C 4	180 296 287 E 15 E 54
per sup. yard	3100	Yachtine	n 221 222 22
Brown Dimension nearth (	64	an-hiterary Cases	0 242 332 130 4 10
Brown Dimension, per cub.ft		ATERIC CIUTAL COLC	150 275 281 220 ¥ 00
Grey Coursing, per sup. yard	1 25	C Buitin . Hook naith 2	250 275 285 320 360
Grey Dimension, per cub. ft.	45	Architectura, flatting a	00 225 276 270 260
• • • •	.•	**	