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

TORONTO, MONTREAL AND WINNIPEG, OCTOBER 26, 1904

BRICK CLAY FOR SALE

Twelve miles west of Toronto, on C.P.R.

THE CANADIAN CONTRACT RECORD PUBLISHED EVERY WEDNESDAY

VOL. 15.

As an Intermediate Edition of the Canadian Architect and Builder. Subscription Price. \$2 per annum, payable in advance.

38 Alliance Building, Montreal, Telephone Main 2299.

Subscribers who may change their address

sheald give prompt notice of same. In doing so give both old and new address. Notify the pub-lishers of any irregularity in delivery of papers.

Bridge Contractors

healed tenders, endorsed "Tenders for Bridge Superstructure," will be received by A. Gillies, City Clerk, Calgary, until noon on NOVEMMER STR, soo, for constructing, delivering and erect-ing a size foot Steel Truss Bridge in the City of Calgary, Alberta, on foundations prepared by the Office Steel Truss of the City of the Office Steel Truss and forms of the City of Deliver and Structure and Structure and Structure and Structure Steel S

TENDERS

Collegiate Institute

Building

THOS. UNDERWOOD, Chairman Public Works, Calgary.

F. And the second secon

Tested and proven AI; 50 acres. Apply HAINES ESTATE, Dixie, Ont.

THE C. H. MORTIMER PUBLISHING COMPANY THE BOARD OF EDUCATION of Toronto, Limited, CONFEDERATION LIFE BULDING, TORONTO. Telephone Main 2363. Branch Offices :

TORONTO 310 McIntyre Hlock, Winniper. 31 Great St. Helen's. London, England. **TENDERS WANTED**

Sealed tenders, addressed to the secretary-tressurer of the board, will be received until Friday Noon, October 28th, 1904,

FOR

EXCAVATION AND MASONRY WORK

of new achool building to be crected on Broad-view avenue. Plans and specifications may be seen and all information obtained at the office of the Board of Education, City Haul. Each tender must be accompanied by the deposit mentioned in said specifications and forms of tender. The lowest or any tender will not necessarily be accepted.

L. S. LEVEE, Chairman of Committee. W. C. WILKINSON, Secretary-Treasurer.



Notice to Contractors

Tenders for Supply of

Cast-Iron Pipe

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, on TURSDAY, DE-CHMERK arrs, 1906, for the supply of a gool feet of 16-inch casa-iron pipe, and 6,000 feet of 24-inch casa-iron pipe. Barked on the outside as to and forms of tender winned at the office of the City Engineer. "The usual conditions relating to tendering." The devel, of any tenders not necessarily accepted.

THOMAS URQUHART (Mayor), Chairman Board of Control. City Hall, Toronto, October 18th, 1904.

Eudore Begin, Joseph Martin and Joseph Boucher have registered the business of E. Begin & Cie, painters, etc., Levis Que. a to Larger the second time a גו לאם למימצרים לאגליג אומים, אלקאים געפטארי אליגוגגנייועליסטיי למעופה לאלמארי פַּמַארפּאַיר אור לגולגעניעליסטיי לאלמארי

\$35,000 Gounty of Oxford Debentures for Sale

No. 37

By-Law No. 519 of the County of Oxford pro-vides for raising 35,000 by the issue of deben-tures payable in no equal sums, including in-terest at four per cent, per annum of \$2,375,56 on the six day of December in each of ture years from and including the year 1050 to and includ-ing the year 1040. So and includ-fing the year 1040. So and includ-shore issue of deben will be received for the of addressed to the undersigned until noon of the 15th DAY OF NOVEMBER, 1904. Conces of the Bu-Law and the conditions upon

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

JAMES WHITE, County Clerk. Woodstock, Oct. 10th, 1994.

CONTRACTS OPEN

MEAFORD, ONT.-Clelland & Sons purpose erecting a large wheel-barrow

AMHERST, N. S.-The Town Coun-cil are looking into the merits of bitulithic pavements with a view to its adoption here.

raise \$6,000 to purchase a new water-

room school.

HULL, QUE .- Walters & Son are asking exemption from taxation on a pro-posed addition to their axe factory, to be

posed addition to their axe factory, to be 40×100 feet. LONDON, ONT.—Plans of a wharf to be constructed at Collingwood, Ont., may be seen at the office of J. G. Sing, in this city.

THAMESVILLE, ONT.-W. J. Cry-derman, Vilage Clerk, will receive ten-ders up to November 5th for \$12,500 4 per cent. debentures.

PORT STANLEY, ONT .-- A Government engineer was here last week taking soundings in the lake for the con-

GRAVENHURST, ONT.—The in-stallation of a waterworks system is un-der consideration, the probable source of supply being Gull lake.

SARNIA, ONT. - Dr. Morrison has purchased property opposite the post office on which he will erect a three-

storey building next spring. TEESWATER, ONT. - A by law granning a loan of \$2,000 to Aiscott Bres. tanners, to assist them in extending their business, was carried last week.

COLLANDWOOD, OIO - Feddawi for e-awroana of whad here will be aver aswad as whe Deplaratery of Makhir

GALT, ONTARIO

Separate or lump 'nders for the various trades, addressed to Thomas Caracadden, Secre-tary Collegiate Tuntitute Board, Galt, Oat, will be received until 6 o'dock p. m. of MONDAY, OCTOBER 1778, 1994, for the erection and com-pletion of a proposed Collegiate Tuntitute Build ing at Galt, Outariot, is be erected on the site of the present Collegiate Institute Building, for-merly the Dr. Tuneis School. Drawings and specifications can be seen, and all other information obtained at Galt, also at Hamilton. Gutario, at the offices of the Archi-tects, Stewart & Wilton. The lowest or any insder not seconarily ascepted.

The time for receiving above mentioned tenders has been extended until 6 p.m. of OUTOBER 31st, 1904. the last int

factory during the coming year.

works pump.

SARNIA, ONT. — The ratepayers have asked that George street, from Front to Christina street, be paved with vitrified brick.

CARP, ONT.-The School Trustees have unanimously decided to call for plans and specifications for a new four-

AMHERSTBURG, ONT.-The rate-payers last week defeated a by-law to

CANADIAN CONTRA

TWEED, ONT.--Hungerford Town-ship Council have passed a by-law proship Council have passed a by-law pro-viding for the issue of \$3,268 of debenfor building a public school. tures

14

2

NIAGARA FALLS, ONT.-John Robinson, City Clerk, has just received tenders for the reconstruction of the Queen street bridge over Muddy Run.

CAMILLA, ONT.-George A. Har-shaw, Cterk Township Mono, desires bids by November 15th for purchase of $\pounds 1,904$ sterling Northern Railway bonds,

STREETSVILLE, ONT.-J. J. Ma-affy, Village Clerk, desires bids by haffy, Vilage Clerk, desires bids by November 5th for purchase of \$2,796.57 4 per cent. local improvement debentures.

SLOCAN CITY, B.C.-Word comes from Edinburgh, Scotland, that a company has been formed there for the pur se of building a 100 ton smelter at this place.

BURNS, ONT .- The contract for the Hunter drain in the Township of Morn-ington has not been awarded and the work may be again advertized next spring

WOODSTUCK, ONT.—It has been decided to build a new rink near the Con-gregational church, between Graham and Light streets, to be 150 x 70 feet, cost \$4.0

TORONTO JUNCTION, ONT.-The Crown Knitting Mill Co. have com-menced work on a new factory on Western road south, to be one storey, 250 × 50 feet, brick.

GUELPH, ONT.-At a meeting of the Finance Committee of the City Council last week, it was decided to provide ways and means for the heating of the city hall.

NORTH TORONTO, ONT .pany is said to have purchased ten acres of land at York Mills Hill on which to build a factory for the manufacture of hygieric waters.

MOUNT FOREST, ONT.—The County Council have decided to replace the bridge over the Speed River, on line between Nichol and Frances with between Nich steel structure. Nichol and Eramosa, with a

BRANDON, MAN .- W. A. Elliott, architect, will receive tenders up to Sat-urday, 29th inst., for installation of a steam heating plant in the Westport school, this town.

RONDEAU, ONT .- The Public RONDEAU, ONT.—The Public Works Department at Ottawa purpose improving the harbor here by building a breakwater extending out from the east pier into the lake. ARNPRIOR, ONT.—The Diamond Park Minerai Water Co. will probably build new bottling works here next spring and are asking the town for a nominal assessment

nominal assessment.

STELLARTON, N. S.-Tenders are STELLARION, N. S. – lenders are invited by D. Pottinger, manager Inter-colonial Railway, Moncton, N. B, up to 31st inst., for the erection of a stores and office building at this place.

STURGEON FALLS, ONT. - Michaud & Levesque have had plans pre-pared for a new block to be built on Main street, but work will not likely be commenced until next spring.

TERREBONNE, QUE. — The De-partment of Public Works, Ottawa, are asking for tenders by Saturday, Novem-- The Deber 5, for the erection of a post office building here. Plans at the post office.

 LEVIS, QUE. - Teaders for erection of a public, building here will be received by F. Gelinas, Secretary Department of Public, Works, Ottawa, up to Tuesday, November, 8 Pluns at office of Mr. November 8 Plan Lamontagne, Mayor.

COLLINGWOOD, ONT. - Tenders for construction of wharf here will be re-ceived at the Department of Public Works, O.tawa, up to Saturday, 29th inst. Plans on application to the Post Master

WALKERVILLE. ONT .- By-laws WALKERVILLE, ONI.-By-laws were carried list week to provide \$5,000 for building a municipal stable and barn, \$22,000 for laying bitulithic pavements, and a further sum for paving Third and Fourth streets.

Fourth streets. SPENCERVILLE, ONT Township Clerk will receive ONT. The tenders up to Tuesday, November 8, for the erection of an iron bridge across the Nation river, also for the erection of a wooden bridge over same river.

PRESTON, ONT,—The town has granted a loan of \$15,000 to the Metal Shingle & Siding Co. to assist them in erecting new buildings. The company will build a fireproof structure near the G.T.R. depot

STOKES BAY, ONT .- Tenders are invited by the Department of Public Works, Ottawa, up to Wednesday, November 2, for the construction of a wharf and road approach at this place, on application to the Postmaster. Plans

ST. JOHN, N. B.-This week the surveys for the extension of the waterworks system to Loch Lomond will be com-menced, under the direction of F, A. Barber, C. E., of Boston, Contracts will be given out in the early spring.

PARIS, ONT. - Charles McArthur has purchased a building lot on Jane street.—The Council have passed a by-law providing for the issue of \$10,000 of debentures for the purpose of extending and completing the electric light plant,

BEAVERTON, ONT .-- It is under-BEAVERION, ON C-11 is under-stood that plans are being prepared by the Department of Public Works, Otta-wa, for the harbor improvements to be undertaken at this place, for which an appropriation was granted at the last ssion of Parliament.

ST. PETER'S BAY, P. E. I.—The Department of Public Works, Ottawa, are asking for tenders until Friday, Novem-ber 4, for construction of a breakwater at eastern entrance to the harbor here. Plans on application to the Postmaster and at the office of J. B. Hegan, Resident Engineer, Charlottetown.

VICTORIA, B.C. - Steps will likely be taken at an early date to erect a new building to replace the present Old Men's Home.—The Canadian Pacific Railway Co. are asking for tenders for the erec tion of offices adjoining new wharf here. Plans at the office of F. M. Rattenbury, architect.

QUEBEC, QUE.—The Quebec and Lake St. John Railway Company have made arrangements for the building of a made arrangements for the building of a branch line from St. Gabriel to Gosford, a distance of fifteen miles.—The Levis Gounty Railway Go. will likely extend their electric railway to the Chaudtere Bisin, about two miles up the river, in the near future

OWEN SOUND, ONT. - Carney Bros., of Marinette, Wis., have submit-ted a proposition to the Town Council to establish a saw mill here, to be 170 x 60 feet, with separate boiler and engine house, and to cost about \$180,000. ask exemption from taxation for They

ask exemption from taxation for ten years, and a by-law to grant them this concession will be submitted to the rate-payers early in December. OTTAWA, ONT.-F: Gelinas, Secre-tary Department of Public Works, is asking for tenders until Saturday, Nov-ember 12, for the construction of the ember 12, for the construction of the Royal Mint building in this city. Plans at the above Department.—The congregation of Stewarton Presbyterian church have in view the erection of a new edifice at the corner of Bank street and Argyle avenue. Particulars from James Mont-gomery, 7 to Gilmour street.

FERNIE, B.C. - The Elk Lumber & Manufacturing Co. have decided to bu another large six mill at this place. T The et, and the mill proper will be 40 x 220 fe planing mill 60 x 40 feet, with separate power house. An electric light plant will be installed in the mill. O. A. Robertson and F. B. Lynch, of St. Paul, Minn., are president and secretary respectively of the company.-D. McCliment has pur-chased a lot in West Fernie on which to build a residence. VANCOUVER, B. C.-It is learned

that P. Burns & Co., wholesale butchers and packers, intend building in this city an abattoir, cold storage and pork pick-ing plant, to cost upwards of \$150,000. location has not yet been anno The unced -Mahon, McFarline & Mahon have made application to the City Council for permission to erect a two-storey block on -Colonel Lot 14, Hastings street.—Colonel James McNaught, of New York, has under confrom Grand Forks up the north fork of the Kettle river for a distance of fifty

HALIFAX, N.S .-- During the month of September there were 25 permits issued by the Building Department for repairs, including one for the Plant Steamship Co., which included a brick office build-ing to replace the burned structure. There were two permits for new residences, one on Bland street, the other on Quinpool Road., to cost about \$2,000 each.—The contract for erecting a brick structure to replace the wooden structure on the Albemarle side of the Royal Enon the Albemarie side of the Koyal En-gineers' Park has not vet been awarded and the work will not likely be begun un-til next spring.—It is understood that Pickford & Black are having plans pre-pared for the reconstruction of their build-ing recently destroyed by fire. The N. & M. Smith Fish Co. have had plans prepared for warehouses to be built on the old site, and G. P. Mitchell & Sons, importers of tawar etc. will rebuild as importers of sugar, etc., will rebuild on their wharf site. HAMILTON, ONT.—The hospital

governors have adopted the report of the special committee which recommended that a by-law be submitted to the ratepayers in January next to raise \$50,000 for the erection of a new wing, the removal of the laundry building and for the installing of a central heating plant.— The Gurney Tilden Co. have extensive improvements in contemplation. They will tear down the old church building on John street now used as part of the foun-dry and will replace it with a new struc-ture, and another large addition will be James Doidge will build a concrete block house on Emerald street, between Robert and Barton streets, to cost \$1,500 —It is reported that the Diston Saw Works Co., of Philadelphia, have made arrangements to establish a factory in this city.-The Norton Manufacturing Co. are this week taking tenders for the foundations, brick and carpenter work, roofing, etc., of a three-storey building of mill construction, 60 x 100 feet, to be erected on their property in this city. The architects are Chadwick & Beckett,

The architects are Chadwick & Beckett, of Toronto.--j. R. Armes will build a a \$1,700 house on Catharine street. MONTREAL, QUE.-The sum of \$15,000 is required in order to complete the new maternity hospital building, and the /general public has been asked to provide this amount.-Tenders are de sired by Tuesday, November 8, for com-struction of chabranettica of Amounts of Amounts. struction of substructure of Atwater Are bridge at the Lachine cathal. Plans a the office of the Superintendent Enginee of Canals.—Plans of post office building to be erected at Terrebonne, Que, may be seen at the office of Lacroix & Picks architects, this city.-Building permit have been granted as follows : L. P. De

October 26, 1004

pre, one two-Royal ave., c Sons, archite warehouse, ((Shearer, Br clair Damose

October 26,

ave., cost \$1 tects); J. O. Antoine stre St. Germair St. Gen., c Royal ave., c C. I tect) ; C. I Nolan street, three-storey cost \$4.000 : house, Brebe Sawyer, thr stores, St. Ar Tremblay, street, cost § WINNIP

ment of Publing for tende 19th. for ere in this city Darling, Per The City CI ders for the Frank R. E. tenders for frame schoo The J. H. A debris from house and v building as can be pre erecting a te 100 x 120 fe McDermott propose tc works : Cec between F between \$3,375 : asr street, from Ave., cost \$ Main street on Dunsmu end, cost \$: cost \$1.260 and on port also a numb It is under Canadian F been subm progress tric street r ty of Kilde ty of Hill. The

from taxati a franchise

October 26, 1904

104

er & build

The d the

arate it will ertson

i., are ely of purich to

arned

is city packjo,000. unced. have

ock on lames

er con

railway fork of of fifty

month s issued repairs, eamship

:e buildtructure. ew resiother on t \$2,000 y a brick

structure oyal Enawarded

egun un-

lans preieir build-The N.

ad plans built on

& Sons, ebuild on

hospital

port of the ommended the rate-

g, the reand for the

plant.-

extensive

building on

of the founnew strucion will be

ecca street.

a concrete

have made a factory in anufacturing

ders for the

y building of

feet, to be n this city.

The sum of to complete

building, and een asked to

iders are de r 8, for con-Atwater Ave ral. Plans a

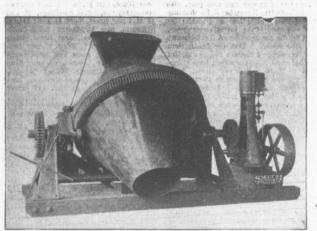
dent Engineer office building ie, Que., may icroix & Piche,

iiding permitt

k & Beckett, will build a ne street.

et, Letween cost \$1,500. Diston Saw

CANADIAN CONTRACT RECORD



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.

pre, one two-storey house, Rivard and Mt. Royal ave., cost \$6,000 (J. B. Resther & Sons, architects); Thos. Robertson Co., warehouse, Common street, cost \$6,000 (Sherter, Brown Co., contractors); Leclair Damose, two-storey house, La Salle ave., cost \$1,600 (Pringle & Son, architects); J. O. Gravel, house and store, St. Antoine street, cost \$2,800; Mrs. Ed. St. Germain, three storey house, Mt. Royal ave., cost \$7,000 (C. Brenier, architect); C. Deguise, one-storey house, Nolan street, cost \$3,000; J. A. Cleroux, three-storey house, Marguerette street, cost \$4,000; Hector Mercier, two-storey house, Brebouf street, cost \$2,000; Joseph Sawyer, three-storey house and three stores, St. Antoine street, cost \$2,000; Joseph Sawyer, three-storey house, Joliette street, cost \$2,000;

The estorey house, Marguerette street, cost \$2,000; Hector Mercier, two-storey house, Brebouf street, cost \$2,000; Joseph Sawyer, Intree storey house and three stores, St. Antoine street, cost \$3,000; A. Tremblay, two-storey house, Joliette street, cost \$2,000. WINNIPEG, MAN.—The Department of Public Works, Ottawa, are asking for tenders by Saturday. November yoh, for erection of a post office building in this city. Plans on application to Daring, Pearson & Over, architects.— The City Clerk is this week taking tenders for the supply of two fire engines.— Frank R. Evans, architect, has just taken tenders for the erection of a one-room frame school house at West Kildonan.— The J. H. Ashdown Co. are removing the debris from the site of their burned warebuilding as soon as the necessary plans croox tao feet, on corner of Frances and propose to undertake the following works: Cedar block pavement on lane between Fort and Garry streets, cost \$5,375; asphalt pavement on Sherbrooke avee, cost \$5,100; on Henry Ave., from Main street to liabel street, cost \$20,000; and on portions of several other streets; also a number of granolithic sidewalks.— It is understood that plans, for the new Canadan Railway Northern depot have been submitted to the head office for approval.—It is stated that the Henderson Rolle Bearing Co. purpose recting a building in this city.—Negotiations are in progress for an extension of the electric street railway through the municipaliyo Kildonan to the village of Bird's Hill. The Railway Co. ask for exemption form taxation for a period of 35 years and a franchise for 35' years. They propose



Highest Grade Ganadian, German, English and Belgian DRAIN PIPES and Connections of all kinds. PAVING BRICKS, ENAMELLED BRICKS, FIRE BRICKS, FIRE CLAY, Etc., Etc. 4



ALEX. BREMNER

C 18

1705

FIRE CLAY

50 Bleury Street, MONTREAL

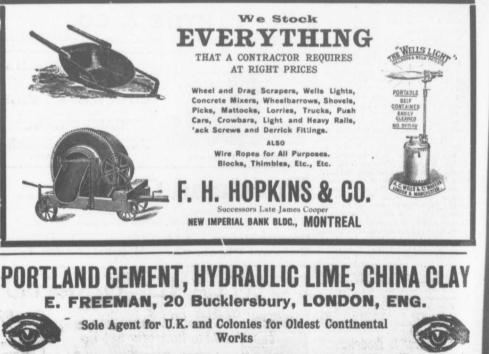
to build two miles of the road the first year, one mile the second year, and to complete it the third year. -J. H. G. Russell, architect, is this week taking tenders on a brick and stone warehouse for the Cliry Manufacturing Co. and for rebuilding and repairing the Dufferin block.—The Cliry is about to invite ten-ders for supply of the following pipe, etc.; 18 inch pipe, 16,000 feet; 15 inch pipe, 4,300 feet; 12 inch pipe, 18,000 feet; 9 inch pipe, 4,000 feet; 360 junctions, 18 in. by 9 in.; 300 junctions, 12 in. by 6 in.; 300 single wall 6 in. slants; 300 double wall 6 in. slants.—John McRae proposes to erect on Stanley street, just north of Logan avenue, a six-storey ware to build two miles of the road the first north of Logan avenue, a six-storey ware-house 99x100 feet, brick on stone foundahouse 99x100 feet, brick on stone founda-tion, of mill construction, cost \$47,000. Plans for same have been prepared by A. & W. Melville, architects, and tenders for erection will be invited within a few days.—The Cusson Lumber Co. have leased six acres of land near the Seine river where they intend to put in a siding and later establish their factory.—James Codbers replated to be the selection. and later establish their factory.—James Cadham, architect, is this week taking tenders for erection of an additional storey to the Woodbine Hotel for Len-non & Hebb.—A & W. Melville, archi-tect, are preparing plans for additions and alterations to the Brunswick Hotel, to cost about \$40,000. TORONTO, ONT.—Plans of wharf and road approach to be constructed at Stokes Buy, Ont, may alio be seen at Mr. Gray's office. Tenders close No-vember 2.—The Council in end to con-struct a io-inch tile pipe sever on Royce

vember 2.— The Council intend to con-struct a to-inch tile pipe sever on Royce ave., from Symington ave. to G.T.R. tracks, at cost of \$1,700.—The Board of Control are asking for tenders up to Tuesday, December 20, for the supply of 2,000 feet of 16-inch cast iron pipe and

6,000 feet of 24-inch cast iron pipe, also up to Tuesday, November 8, for the sup-ply of steel pipe 4 feet in diameter for the extension of the Jarvs street sewer, and for the construction of the following tile pipe sewers : Don esplanade, from 315 feet north of Eastern ave. to 125 feet further north; Arthur street, from Craw-ford to Shaw ; Princess street, from Font to the Bay; Dufferin street, from Fairmount to Bloor.—J. F. Brown, are chitect, is this week taking tenders for the erection of a warehouse on Bay street for Mark Fisher, Sons & Co.—Chadwick & Beckett, architects, have prepared plans for a factory building to be built in Hamilton for the Norton Manufacturing Co.—Arthur Bryce & Co., 2 Toronto street, want tenders for brick work of five houses, brick fronted and brick foundation.—The Dominion Government is asking for tenders until Wednesday, November 2, for the construction of an extension to the breakwater on south side of the Island. Plans my be seen at the office of H. A. Gray, C.E., Con-federation Life Building.—Bv-laws were carried on Sturday last to provide funds for the improvement and extension of the waterworks system and for the Lans: carried on Sturday last to provide funds for the improvement and extension of the waterworks system and for the Lans-downe ave. subway and Cowan ave. and Kew Beach fire halls.-Building per-mits have been granted as follows: T. mits have been granted as follows: T. Taylor, two-storey dwelling, concrete cel-lur, brick front, rough-cast sides and back, east side Dovercourt road, near Shanly street, cost St, 80 o; Isaac W. W. P ewes, pair two-storey and attic stone and brick dwellings, south side McMas-ter ave., near Rathnally street, cost \$5,000; Jos. Armitage, two-storey and attic brick dwelling, 149 Arthur street, cost \$2,000; James Lechrie, two-storey brick dwelling, west side Dundas street,

near Bloor, cost \$1,500; John Care, two two-storey rough-cast dwellings, 56 and 58 Millicent street, cost \$1,400; Daniel Schwalin, pair two-storev brick dwell-58 Millicent street, cost \$1,400; Daniel Schwalin, pair two-storev brick dwell-ings, Gencord ave, near Bloor street, cost \$3,000; Geo. C. Watson, pair two-storey and attic stone and brick dwell-ings, east side Close ave, near King street, cost \$5,000; Walter Stewart, one-storey and mansard dwelling, con-crete blocks and rough-cast, 142 Morse street, cost \$1,000; J. D. Farquhar, pair two-storey bruck dwellings, Bain ave., near Broadview, cost \$3,000; H. W. Love, two pair two-storey and attic brick and rough-cast dwellings, south brick and rough-cast dwellings, south side First ave., near Bolton, cost \$6,000 John Adams, alterations to brick dwellsouth side First ave., near Bolton, cost \$6,000; John Adams, alterations to brick dwell-ing. Maynard ave., near King street, cost \$1,000; James Burford, three 23-storey brick dwellings, 146, 148, and 150 Howland ave., cost \$7,000; J. F. Mc-Garry, alterations to two-storey and mansard brick hotel, north west corner Queen and Dundas streets, cost \$5,000; Thomas McIlwain, two-storey stone and brick dwelling, 60 Springhurst ave., cost \$4,000; A. Nelson, three two-storey and attic brick and stone dwellings, Manning ave., near Ulster street, cost \$8,000; Mr. Ellis, two-storey rough-cast dwelling, brick veneered front, West ave., near First ave., cost \$1,200; Kent Estate, 7 two storey dwellings, cement foundations, brick fronts, rough-cast sides and back, corner Maynard and Farley ave., cost \$9,500; William Moss, pair two-storey and attic rough-cast side Sheri-dan ave., near Dundas street, cost \$3,600; W. R. Melmer, two-storey brick dwelling, concrete foundation, 302 Oi-sington ave., cost \$1,500; Wm. Neilson, two-storey factory, 2½-storey dwelling, .000 ;

October 26, 1004



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.

ORRESPONDENCE INVITED FOR CONTROL OF BRANDS DECENT BERRY AL PER BAR THINK COST 式 33. IE FF TO THE KAR SHE

October 26,

two-storey sta side Gladston cost \$15,000 ; storey stone east corner C ave, cost \$30 storey stone a Close ave. and D. Kitkpatric Shaw street, r Mrs. E. Mal dwellings, 552 cost \$5,000 ; V storey brick d sington ave., pair one-store ings, stone fot lock street, co liams, two-sto ing, east side lege, cost \$2, two-storey rou Carlaw ave twc-storey to Carlaw ave., \$4,40c; Hartl storey and at lings, Grace lings, Grace cost \$3,000.-purchased the Chambers on dan street, and a large office b Wilkinson, se Board of Educa St up to noon of F cavation and m building to be e

> CONTR BRANTFO

Schultz Bros., \$18,000. BRIDGEBI

ernment buildin contractors. BRACEBRI tion of wharf tenderer, \$8,200 REGINA, N for fire protect FORT WI barn for Georg Fregeau, contra FERNIE, B sey bridge over this place, conti

AYR, ONT.-of Commerce : ton, Unt., contr HARROW. Andrew's Englis

ner, contractor CAMPBELL Government w of Fredericton,

\$36,000 PARIS, ON1 ing apparatus in light station : G ful tenderers.



Room 41. Na 20 King Street Teleph

A. I., WADDELI Mem. Can. Soc. C Mem. Inst. C. R. Mem. Am. Soc. C

Wadde **Gonsulting**

KANS Canadian Head Offic Manning Chan Montreal Office : October 26, 1001

10

el Ilst.

1-

18 se

r,

in I.

th

11:

50 C-1d er

> 1d nd

ng Ir. ig,

ns, :k,

ost

ete

:ri-

ost

)3-

on, ng,

two-storey stable, one-storey shed, east side Gladstone ave., near College street, cost §15,000; J. J. Walsh, five pairs 24-storey stone and brick dwellings, north-east corner College street and Delaware ave, cost §20,000, and three pair 25-storey stone and brick dwellingr, corner Close ave. and Queen street, cost \$15,000; D. Kitheatrick of access brick dwellingr. storey stone and brick dwellings, corner Close ave. and Queen street, cost \$18,000; D. Kikpatrick, 23-storey brick dwelling, Shaw street, near Harrison, cost \$5,600; Mrs. E. Mallord, pair 23-storey brick dwellings, 552 and 554 Dovercourt road, cost \$5,000; William Patterson, pair 23-storey brick dwellings, 420 and 422 Os-sington ave., cost \$4,300; A. Bathe, pair one-storey and mansard brick dwell-ings, stone foundations, to and 12 Have-lock street, cost \$4,800; Mrs. E. Wil-liams, two-storey and attic brick dwell-ings, east side Bathurst street, near Col-lege, cost \$2,500; Arthur Bryce, tour two-storey rough-cast dwellings, east side S4,400; Hartley Gibson, one pair two-storey and attic store, cost \$4,400; Hartley Gibson, one pair two-storey and attic stone and brick dwel-lings, Grace ave., near College street, cost \$3,500.—Hon, George A. Cox has purchased the old North of Scotland Ghambers on King street, opposite Jor-dan street, and will, it is understond, erect Wickinson, secretary-treasurer of the Board of Education, will receive tenders option and masonry work of new school building to be erected on Broadview ave. CONTRACTS AWARDED.

CONTRACTS AWARDED.

BRANTFORD, ONT. - New rink : Schultz Bros., contractors. Cost about \$18,00

BRIDGEBURG, ONT.-New Gov-ernment building : Vanderburg & Cutler, contractors.

BRACEBRIDGE, ONT.-Construc-tion of wharf: J. H. Baker, successful tenderer, \$8,200.

REGINA, N.W.T.-Three water tanks for fire protection : J. McDougall, this

FORT WILLIAM, ONT.-Livery barn for George Mireault : Hamilton & Fregeau, contractors.

FERNIE, B.C.-Erection of Morris-ey bridge over Elk river : George Cody, this place, contractor.

AYR, ONT.-New building for Bank of Commerce : Jerrett & Sons, of Alliston, Ont., contractors.

HARROW, ONT.-Erection of St. Andrew's English church : Andrew Brim-ner, contractor, \$2,650.

CAMPBELLTON, N.B. -- Dominion Government wharf: C. J. B. Simmons, of Fredericton, successful tenderer, price \$36,000

PARIS, ONT.—Installing steam heat-ing apparatus in new fire hall and electric light station : Glennister & Co., success-ful tenderers.

JOHN S. FIELDING Mem. Soc. C. R. 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. I., WADDELL, Mem. Can. Soc. C. E. Mem. Inst. C. E. Mem. Am. Soc. C. F. Mem. Am. Soc. E. C.

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

Canadian Head Office : Manning Chambers, TORONTO, ONT. Montreal Office : :85 St. James Street.

CANADIAN CONTRACT RECORD

BROCKVILLE, ONT .- The James BROCKVILLE, ON I.— INE James Smart Co, of this city, have secured the contract for heating Chalmers' Presbyter-ian church, Toronto, Methodist church at Eigin, Ont., and Presbyterian church

at Hanover, Ont., and Presbyterian Courch at Hanover, Ont. AMHERST, N. S.—Rhodes, Curry & Co., of this place, have received a con-tract from the Dominion Government for building a station at Pictou and another at Antigonish, to cost \$40,000 and \$12,000 respectively.

TORONTO, ONT.-Bitulithic pave-ment on Woodlawn ave., from Yonge street to westerly end : Warren Bituminous Paving Co., successful tenderers, \$7,400. The Central Bitulithic Paving Co., of Detroit, tendered at \$7,415. Paving

Co., of Defroit, fendered as 47,415. VICTORIA, B.C.--Supply of 12,000 feet of cast iron pipe : Findlay, Durham & Brodie, successful tenderers.-F. T. Sherbourne, of Vanccuver, has secured the contract for erection of warehouses on the new C.P.R. wharves here, price about \$7,000. ATWOOD, ONT.-For construction

AIWOOD, ONT. - For construction of the Foley drain tenders were received by Ellice Township Council as follows : Daniel White, \$1,527; James Macdon-nell, \$1,364 (accented); Wm. Connolly, \$2,078; Daniel Crawley, \$1,494; John Denstedt, \$1,548; Robert Armstrong, \$1.748. VANCOUVER, B. C. - Supply of

VANCOUVER, B. C. — Supply of sewer pipe for city: Coleman & Evans, successful tenders, 6-in, at 15 cents, 8-in, at 21 cents.— For construction of a septic tank at end of Burrard street tenders were received as follows: Ironside, Ran-nie & Campbell, \$8,825; A. E. Carter, \$7,909; Boyd & Craig, \$6,875; Arm-strong, Morrison & Co.,\$5,850 (accpeted.)

FENELON FALLS, ONT. — The Board of Water, Light and Power Com-missioners for this village have closed a contract with the Ambursen Hydraulic Construction Company, of Bostor, for the construction of a concrete-steel power dam in the Fenelon river for municipal lighting. The dam is 200 feet long and is about to feet high. The work was commenced on the 6th instant and will be finished about the 1st of November. E Bradley, C.E., of Montreal, is the Canadian representative of the Ambursen Hydraulic Construction Company. WINNIPEG, MAN.—Contract for the FENELON FALLS, ONT. -The

WINNIPEG, MAN.—Contract for the erection of the Provincial Agricultural building in this city has been awarded to Snyder Bros, of Portage la Prairie, con-tract price about \$100,000.—The Council tract price about \$ too, ooo. — The Council will purchase 1, 500 feet of Paragon fire hose from the Winnipeg Rubber Co. at 90 cen's per foot, and 1, 500 feet of Keystone hose from the Canadian Rubber Co. at 85 per foot. — Darling, Pearson & Over, architects, have awarded the following contracts for J. S. Hough's warehouse on Princess street : Excavation, Winnipeg Construction Co.; brick work, Saul & Irish; carpenter work, J. & J. McDermid; cost about \$25,000. — J. Dolmer has se-cured the contract for foundation of the new Pilkington block. Plans by S. F. & W. A. Peters.

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 so per cent, poorer.

SAND & DREDGING. Limited John Street Dock, TC RONTO Tel. M. 4507

What is **Bitulithic**? IT IS THE BEST ROADWAY ON EARTH. 25,000 sq. yards laid in Toronto during 1904. ESTIMATES FURNISHED BY



E. F. DARTNELL, Argent SEND FOR CATALOGUES. MONTREAL

NEW COMPANIES.

6

Brockville Lumber Company, Limited, Brockville, Ont., incorporated, capital \$75,000, to manufacture and sell lumber, builders' supplies, etc. Directors, Van R. Marshall, lumber merchant, W. H. Comstock and others.

Canada Process Company, Limited, Toronto, incorporated, capital \$50,000, to manufacture products from all kinds of metals or minerals, Directors, G. L. Sherlock, accountant, G. H. Campbell, manufacturer, and others.

Anyun Fuse & Electrical Company, Limited, Hamilton, Ont., incorporated, capital \$40,000, to manufacture electrical and mechanical supplies and apparatus. Directors, George B. Baby, electrician, William Shaw, locomotive engineer, both of Hamilton, and others.

Senator Mill Manufacturing Company, Limited, Toronto, incorporated, capital \$100,000, to manufacture and deal in machinery for the reduction of rock. quartz, cement, and other refactory substances. Incorporators, James K. Griffin, civil engineer, Wm. St. Clair, machinist, of Galt, and others.

Barclay Hodgkins Lumber Company, Limited, Toronto, incorporated, capital \$50,000, to manufacture and deal in lumber. Directors, C. A. Barclay, lumberman, of Township of Pickering, Oscar Hodgkins and Howard Hodgkins, lumbermen, of Wellandsport, Ont., and others.

La Fonderie Generale, Varennes, Que., incorporated, capital \$10,000, to manufacture articles of wood or iron. Incorporators, Albert Bienvenu, J. H. Beauchamp and others.

British American Coral & Mycenian Marble Company, Limited, incorporated at Victoria, B.C., capital \$100,000, to acquire from the Canadian Coral Marble Company the right to manufacture coral or mycenian marble.

Rose Bank Lumber Company, Limited, Rose Bank, N.B., incorporated, capital \$75,000, to manufacture lumber. Incorporators, O. W. Norden, K. Norden, A. M. Sundon, P. C. Waern, and C. F. Neisson.

The Construction Corporation, Limited, Ottawa, incorporated, capital \$500,000, to carry on a general contracting business. Incorporators, Sir Adolphe P. Caron, Ottawa; J. H. Jewell and H. H. Dewart, Toronto : and others.

BUSINE S NOTES.

Joseph Giard, contractor, St. Antoine, Que., is dead.

Paquette & Gauthier, plumbers, Montreal, have dissolved.

R. W. Kirkwood is a new contracting carpenter at Treherne, Man.

I. Laperriere & Cie. contractors, Montreal, have registered their business.

Greene & Tawne will carry on business

in Montreal as wood and stone carvers. Rudd & Smith, painters, Winnipeg,

have dissolved, M. H. Smith continuing. George A. Ross and David A. McFar-

lane have registered as architects in Montreal, under the firm name of Ross & Mc- ;

Farlane.

Fowke & Smith, painters, Tilsonburg, Ont., have dissolved, Mr. Fowke continuing.

Ovide Lamouche will carry on a con. tracting business in Montreal under the name of H. Lamouche & Cie.

The business of the Dominion Electric Company, Montreal, has been registered by Marcelin Tremblay.

A demand of assignment is reported to have been made upon F. E. Came, railway supplies, Montreal.

George B. Buddo has registered as proprietor of the business of George Buddo & Company, electricians, Montreal.

Brunet & Desjardines, brick manufacturers, Montreal, are announced to have filed consent of consignment, and F. X. Gagnon has been appointed provisional guardian.

The building permits issued in Toronto this year up to the end of September represent a valuation of \$4,566.708, as compared with \$3,317,447 for the same period last year.

The Mitchell Bridge Works, of Mitchell,

Ont., have been very busy during the past summer, having built a number of bridges. They are now building a 60-foot span bridge at Elma, Out.

October 26, 1904

October 2t

CONSU

a

Ins

The Car

22-24 Adelai

A. M. WICKEN: Chief Eng

Granite Sets fo to any shape Building Quarries, S

JOS. BRUN

TUNNEL (

Works : Port

Rnofs, Steel Iron Wo

ARTIFICIAL

CORPORATIONS

The Silica B

WALTER MILLS General Manager.

T.A. M

PURVEYORS

Municipal

Corporation

Architects.

Engineers

Railway and

GONTRACTO

204 St.

MO

Mines

Building

SIDEWA

010

Steel Brid

HICH

Pavi

Addres

Peter Lyall, head of the well-known ontracting firm of Peter Lyail & Sons, Montreal, has retired from active business after being connected with the building industry for over 30 years.

Herbert Carmichael, Provincial Assayer, has made an examination of stone guarries near Ladysmith, B.C., for the purpose of making a report on building stone for the British Columbia Government.

The Shoemaker Concrete Tile Company, of Berlin, Ont., are shipping large quantities of concrete tile. They have secured the contract for all the tile required on the Guelph and Goderich extension of the C.P.R.

The first regular meeting of the Mount McKay Brick & Tile Company, Fort William, Out., was held last week, when the following officers were elected : President, John King ; vice-president, H. Shears ; secretary-treasurer, E. C. Heywood ; manager, K. O. Brune.

INDEX TO ADVERTISEMENTS In the "Canadian Architect and Builder."

A rohsteets. Ontario Directory ... 111 Quebec Directory ... 111

Architectural Bouiptors.

Holbrook & Molling-

Architectural Iron Work. Canada Foundry Co zili Locomotive & Ma-chine Co iv

Blue Print Paper Hughes Ow.ns Co. I

Burlaps Richter Mfg. Co... IV

Bridges

dian Bridge Co ix inton Bridge Co. 1

Builders' Supplies. Luxfer Prism Co... xiv Montreal Directory xvi M rrison, T. A,... xvi Ontario Lime Associa-

Building Stone

Dealers.

Amherst Red Stone Quarry Co...... vi Credit Forks Stone Co vi Hood & Son..... vi Horde Stone Quarry... vi Hageraville Con-tracting Co..... vi Kline John...... vi tracting Co. vi Kline John. vi Myers, Oakley.....vi Rouerss.n & Co., D.. vi Roman Stone Co. vi

Builders' Hard.

R.ce Lewis & Son IV Bricks merican Enameled Brick & Tile Co.... i eamsville Brick & Terr. Cotta Co.... II Jon Valley Brick

Contractors.

Terente Contracting & Paving Co. III

Contractors' Plant and Machinery Rice Lewis & Son. .. IV Coments.

Owen Sound Portland Cement Co..... III The Ratabun Co... XV Creasote Stains

aout, Samuel. i Drawing Instru-

-Thernten, A G D awing Inks

Wagner, Gunther.... ii Elevators

Fensom, John..... I Otis Elevato Co.... I Parkin Elevator Co. I Turnbuit & Russell C. vii

Engravors.

Folding Partitions. Springer, O. T..... 11 Grilles and Railings.

Granste

iv

Interior Decoration

Lime.

Robertson & Co..... v

Troy Laundry Ma-ch.nery Co..... IV

TTe Cutler Mfg. Co

Mouldings. Decorators' Supp y Co..... xv Mortar Colors an Shingle Stains. Cabot, Samuel

i Ornamental Iron Work. Cana a Foundry Co. xi Dennis Wire&tronCovili

Ornamental Plaste

Hynes, W J..... IV Fredk Walton.....

Plate Glas

Queen City Plate Glass & Mirror Co, xii Toronto Plate Glass Importing Co.. viii

Plumbers

Montreal Directory ... xvi Toronto Firectory ... xvi

Roofers

Roofers Duthie & Sons, G... xvi Douglas B.os..... xvi Forbes Roofing Co...xvi Nicholson & C...D xvi Rennie & S.a, Robt xvi Ormsby & Co., A. B. I Rin₄ham, George... xvi Stewart & Co., W. T. xvi Williams & Co., H. xvi

Rubber Tiling.

Gutta Percha Rubber Co..... II

Reflectors

Frink, I. P..... zvi

Rooting Material

Metallic Roofing Co. zi Ormsby Limited, A B I Rolfins Supply Tor. 11

SALA

Du

Rubber Mats. alop Tite C zli

Painters. Montreal Directory...xv Toronto Directory... xv

Prisms. Alexander Ent raving Teronto Plate Glass Co. vill

> Paints & Varnishe Berry Bros ziv

Parquetry Floors Elliott & Son Co..... vi

Brunet, Jos vi

Hardwood F.oor-ing.

eaman, Kent &

Heating.

Elliott & Son Co.... vill

O stario Linie Associa

Logal. Quinn & Morrison.. II Laundry Machin'y

Mail Chutes.

Sash Cord. Samson Cordage Works

Stained and Decer a tive Glass

the Glass Crown Art Stained G ass Co..... Horwood & Sons, H. Mackay Stained Giass Co..... St. George, H. E. Kobert Alcouv. and Stained Glass Co...

Sanitary Supplies James Morrison Brass Mfg. Co xili

Shingles and Siding Metallic Roofing Co.zi Ormsby & Co., a B.. I Roofers Supply Co... II

Soll Pipe. no Foundry Co. 11

Sheathing and Deafén ng Materiat, Cabot, Samue...... i

Tubing and Fittings

Tiles.

School and Church Furniture.

Globe Furniture Company..... Can. Office & School Furniture Co

Wall Plaster

Wire Lathing The B. Greening Wire Company..... xvi

Window Cord.

Waterproofing for Brickwork

Cabot, Samueli

Samson Cordage Works....

Albert Mfg. Co..

12

12

Stackpole

Patent Improved

Because no sweeper It Sweeps Clean. 1 claion. It Wears We less gearing than any reasonable care it doe

Richmondt Conduit



ist

an

vn

ng

pr.

ps of

he

ıy, ti.

ed

he

he

unt

Vilthe mt.

d :

110

Line

d





S

USE OF CONCRETE FOR RAILWAY TIES.

On all railways in French colonies near the tropics the ties are generally of iron, timber being destroyed in a very short time by the climate or insects. In Cochin, China, iron is used exclusively. In West Africa a very hard native wood is occasionally employed.

Four or five years ago M. Sarda, a cement manufacturer at Perpignan, in the south of France, proposed the use of concrete ties and sent a few samples to the Minister of the Colonies, but after a careful examination the engineers of the Public Works Department reported that they were unsuitable on account of the cost, size and extra weight. They were also of opinion that concrete ties were best suited to lines where the traffic was heavy and frequent express trains ran, whereas on colonial railways the traffic is light and all the trains are slow. The ties, however, were satisfactory as far as strength, endurance and immunity from damage by climatic changes and attacks by insects were concerned, and might be employed if they could be manufactured on the spot in any of the French colonies.

Having failed to get his concrete ties, adopted by the Minister of the Colonies, M. Sarda then applied to the state railway in France, and in March, 1900, sent four as a sample. They were not made entirely of concrete, but what the Freech call ciment arme," iron and cement com-The framework, or skeleton, conbined. sisted of five metal plates, placed vertically and held in position by stout iron wire or thin bars. The interstices were then filled in with cement. A thin layer of compressed felt about one-filth of an inch thick was put between the tie and the boltheads.

These four ties were placed on the line near a small depot, about twelve, miles from Bordeaux, in October, 1900. A year or more later the track overseers reported

that no fault could be found with them, but it was impossible to judge from such a small sample. The maker was therefore requested to make a number up to one hundred. These were duly received and laid down between April 20 and July 1, 1902. The manufacturer had made a the bolts could be replaced if necessary without damaging the tie.

The length of line on which concrete ties are at present used is less than one hundred yards. The greatest weight concentrated on a single pair of driving wheels is about fourteen tons. The rails are eleven metres (twelve yards) long, and weigh thirty-eight to forty kilograms per metre, or from seventy-seven to eighty-one pounds per yard ; fourteen ties are used for each rail of twelve yards. The ties are rectangular, with rounded corners and slightly thicker where the shoe irons are placed; the average thickness is about four inches. The weight of each tie is about three hundred and eight pounds, and the cost 14 to 15 francs (\$2.70 to \$2.90). The only means used to reduce shock is the thin layer of compressed felt already described,

It should be mentioned that superficial cracks were noticed in thirty of the one hundred ties when they were laid down, but these cracks do not seem to have spread, tor no complaints have been received from the track overseers. The ex-

periment is too recent to enable any definite opinion to be formed, for the usual life of a timber tie in France is about fifteen years, and therefore considerable time must elapse before comparison can be made as to whether cement is superior to timber in its power to resist shock, to timeer in its power to resist shock, atmospheric changes, replacement of shoes and bolts, wear and tear, etc. At present it is impossible to say whether any economy would be effected in track labor or material, but in the opinion of the chief engineer of the State railway this is not probable upleas the cost of the time cose he probable unless the cost of the ties can be

probable unless the cost of the ties can be considerably reduced. The price now charged is a serious obstacle to their employment, whatever their advantages may ultimately prove to be.—John K. Gowdy, Consul-General, Paris, France.

HEATING APPARATUS FOR AUSTRALIA.

Mr. J. S. Larke, Canadian Trade Com-missioner at Sydney, Australia, writes to the Department of Trade and Commerce at Ottawa concerning heating apparatus as follows :

art oftawa contenting heating apparatus as follows: "A city architect is in correspondence with Canadian firms relative to securing heating apparatus for one of the largest office buildings in this city. This indicates an opening for an enterprising Canadian firm, and one to which I have more than once called attention. Outside of the city there is greater need of economical heating, particularly of schools and other public buildings, than within the city. It would require some time and capital to ensure success, us much education would require to be done, but there can be small doubt that it could be made profitable."

A HUMILIATING POSITION

To have friend decline to go on your Bond, but why should any man go on a Bond.

.

TORONTO, ONT.

The United States Fidelity & Guaranty Co.

issues all kinds of Bonds.

A. E. KIRKPATRICK, Manager for Canada.

6 COLBORNE STREET,





National H

October 26

VILLI

Hon. M. Can. Sox

MERELY SUSPENDED BETWEEN I-BEAMS A SLAB OF THE OFFICIAL PRACTICAL TEST OF CONCRETE VAULT ALSEN CONCRETE LIGHT CONSTRUCTION 2 INCHES THICK & SO DAYS CLO WM. BARCLAY PARSONS, C.E., M.AM. SOC. C.E. CHIEF ENGINEER R. T. COMMISSION AND S L F DEYO, C. E., M. AM. SOC C E CHIEFENG. R. T. SUBWAY CONSTRUCTION CO. THOUGH HIGHEST IN PRICE, ALSEN'S IS BEING USED IN THIS VERY IMPORTANT CONSTRUCTION. NOT ONLY BECAUSE OF ITS ALSEN'S HAS BEEN SELECTED IN PREFERENCE TO ALL OTHER BRANDS, FOR THE SUBWAY RAPID TRANSIT STA TIONS OF THE ENTIRE CHIEFLY BECAUSE OF ITS ABSOLUTE. SAFETY SYSTEM, REACHING N ACTUAL WORK TO THE BRONX We had to be made And the second and the 1. 四十十 北方 12:53 A. 1957 1 540

in a section

tiones? Proist & issuit A TRUNC STA





SANITARY LAWS OF GERMANY.

Sanitary administration in Prussia, as in all German states, is in the hands of the police authorities. The latter are assisted by the municipal physician, and in cities of over 5,000 inhabitants, by the so-called sanitary commission, which is composed of representatives of the city government, physicians, and the chief of ocal police, who is the presiding officer. The duties of this commission are advisory. Commissions have not been everywhere organized. Their calling together depends upon the chief of police, and they have no power of initiation. real medical officer of health, in the American or English acceptation of the term, does not seem to exist in Germany. Concentration of authority in the hands of the police leads to personal rather than technical oversight. In Berlin, if a house proprietor finds any of his tenants maintaining dwellings in a filthy state, he is bound to warn them to clean up, and if they fail to comply, to turn them out without any further ceremony. Should the landlord neglect his duty, an officer of the sanitary department will make a visit n complaint of neighbors, and, if he finds the house filthy, clean it at the land-

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

MEM CAN SOC. C.E. AND C.E.A., ET

CONSULTING ENGINEER and EXPERT

lord's expense. This method of dealing with persons of uncleanly habits is pretty effectual in preventing the growth of slums.

NOTES.

The new Waterous engine has been delivered to the city of Montreal and has been given a satisfactory test.

Mr. C. B. Edwards, City Clerk of London, Ont., has been appointed Public School Inspector for that city.

About 3,500 feet of new water pipe has been laid in Peterboro, Ont., this year. The consumption of water is increasing and is now nearly 2,000,000 gallons daily.

While excavating for the new foundation of No. 3 waterworks engine for Toronto, the workmen found imbedded in the old foundation a barrel of cement, which had evidently been inadvertently placed there. When the barrel was broken up it was found that the cement had become as hard as the best quality of limestone.

While men were engaged in cleaning the water main which supplies the low service of the city of St. John, N. B., a burst occurred near the One-Mile House. The pipe which gave way was laid in the year 1857. The salt in the soil had corroded the iron to such an extent that some parts were more like graphite than iron and the pipes were very fragile.

The new municipal building at Barrie, Ont., is rapidly nearing completion and will be ready for occupation, it is expected, by the middle of November. The building is divided into two sections, one part be-

Glant Brand"

ing utilized for a police court downstairs with cells for the detention of prisoners immediately underneath, while the upper part will be used as a town hall. other half will house the local fire brigade. The building was designed by Mr. Thos. Kennedy. The Town Council contemplate the installation of a new fire alarm system and the purchase of about 1,500 feet of new hose and other fire apparatus.

10

October 26, 1004

The town of Wiarton, Ont., have recently expended about \$18,000 in rebuilding and refitting their waterworks plant. They have built a new pump-house, installed new boilers and a new duplicate pump made by the Canada Foundry Company. They are constructing a new reservoir, to have a capacity of 250,000 gallons. At a test made October 18th, at the farthest extremity of the town from the pump-house, they had a pressure of 65 pounds with the hose on running a oneinch stream, and 100 pounds with the hose off. More than half way across the town the gage showed 95 pounds pressure with the hose on. They boast of a system second to none in Ontario.

W. H. Croker, architect, of Orillia, Ont., has taken into partnership J. A. Hoy, who has had considerable experience in his profession in Winnipeg and Toronto.

The Victor Varnish Company, Limited, have purchased the factory and plant of the Robertson Varnish Company, 400 Eastern ave., Toronto, and will make æ specialty of high-grade varnish.

Gement

A MOLTEN

Section?

ROCK . .

Portland

201-203 Coristine Building, St. Nicholas Street, Montreal

for prices---Large stock constantly

and the second second

Laigest Macore in the world, on hand.

Satisfaction. Used exclusively on-all work by the City of Brantford and other places

Manufactured at BLUE LAKE

Octo

Т

Rai

C

Distric

JAMES

ŤЯ

Man

Specia Water

BALTAR AREAT. WATER & CLERK M. BOR. BOM

National Trust Building Toronto 20 King Street Rast Toronto Epecialties-Water Supply and Sewerage. THE ONTARIO PORTLAND CEMENT CO., LIMITED Head Office: Brantford, Ont. THE BLAST . . Matthew's FURNACE Fire Cement Sidewalks, Road Foundation and Concrete Work Hydrant STRONG AS STONE Is the recognized CHEAP AS GRAVEL Standard Hydrant, and is the easies Doolittle @ Wilcox, Hamilton, Ont. Hydrant to keep in order. Toronto Agents : Sand & Dredging Limited, John Street Dock Our Hydrants are thoroughly tested before ship **Portland Cement..** ment, and are of substantial proportions and weight, ALL GRADES Have your Enneer specity"The Write or Telegraph to Matthew's" and get our tender **BELLHOUSE, DILLON & CO.**

Walkerville - Ont.

THE KERK ENGINE CO.,

LIMITED



rs rs er

he le. ys. te :00 of

Id-

nt.

alite m ew

100 at

m 65 ne se wn

ith en

lia,

A eri

and

ed

t of

400 e 18

CN

nt.

VULCAN VULCAN PORTLAND DORTLAND A surjective A surjective	CEMENT Standard Iks onounced Uniform
PORTLAND The Becognized S for Sidewal A strictly High-Grade Portland Cement. Pro- by prominent contractors to be the most Portland Cement on the market. One Quality Only. Capacity 5,000 bb The Toronto Pottery Co., Limited, Office, 73 Cottingham Street Yards 75.81 " "	CEMENT Standard Iks onounced Uniform
The Recognized S for Sidewal A strictly High-Grade Portland Cement. Pro by prominent contractors to be the most Portland Cement on the market. One Quality Only. Capacity 5,000 bb The Toronto Pottery Co., Limited, Offlice, 75 Cottingham Street Yards 75-81	Standard Iks onounced Uniform • ols. per day.
for Sidewal A strictly High-Grade Portland Cement. Pro- by prominent contractors to be the most Portland Cement on the market. One Quality Only. Capacity 5,000 bb The Toronto Pottery Co., Limited, Offlice, 75 Cottingham Street Yards 75-81	lks onounced Uniform sis. per day.
A surjetly High-Grade Portland Cement. Pr by prominent contractors to be the most Portland Cement on the market. One Quality Only. Capacity 5,000 bb The Toronto Pottery Co., Limited, Offlice, 75 Cottingham Street Yards 75.81	onounced Uniform
by prominent contractors to be the most Portland Cement on the market. One Quality Only. Capacity 5,000 bb The Toronto Pottery Co., Limited, Offlice, 75 Cottingham Street Yards 75.81	Uniform *
One Quality Only. Capacity 5,000 bb The Toronto Pottery Co., Limited, Office, 75 Cottingham Street Yards 75.81	
Office, 75 Cottingham Street Yards 75-81	Toronto, Ont.
Office, 75 Cottingham Street Yards 75-81	
Long Distance Phone North 1787 and North 1552.	ALL CONTRACTOR
	DISTRIBUTORS
V SE D CURRIE	- 2.00
345 St. James St., Mo	ntreal
	LAND GEMENTS.
	GH GRADE ENGLISH
VENT LININGS,	and the second second second second
FLUE COVERS,	" " Belgian
FIRE BRICKS,	PLASTER OF PARIS
FIRE CLAY,	Borax,
WHITING.	CHINA CLAY.
Tarata Mantral, PORT	LAND ORMENT
astead granite paving	(CARLOADS.)
e in per lineal font Be 64 Rathbun's Star	es, 350 Terente. Mentreal
we Sandhone (Indin- own, N.B). 50 70 Samon. Was Sandatone (Sack-	1.85 1.95
Hie, M. B	
creaters bull stone Creaters by Diamond 350 er cu. ft. 55 "Glant" Brantto	ross 9 50 5 40 1 95 8 95
The second dute in the provident of the second dute in the second dute	fuded) :
mension Stome, f. o. S. St. "Helderberg" Mary's, per cubic foot	275 190 915
reading Stark of August 25 Atlan. Arise of a single of the stark of t	375 lbs. 1 90 2 10 2 10 2 20 2 20 2 20 2 20 2 20
n take from the second	age 150 lbs. I to 1 as
mension stock granite for	and stand a line was a
	per bbl. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
CREDIT VALLEY STONS.	231
bble, per ton	1) : s Anchor 2 35 2 40 2 00 2 10 2 10
own dimension, per cub. 70 Belgian (in Barrels)	10
ry dimension, per cub, ft 50 "Josson" ROBLAN STORM. F. O. B. Factory. "North's Condor Cathedral	
s, tooled scated and throated "White Cross" c. per lineal foot	
sperificial Tool	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
ing Courses, Moldes and) prnamental, per lineal foot, oc. to	s) :
Canada da ba	3.65 9.05
Control of the second s	hites a ge 7 00 4 50 5 00 tile, per M 27 00 32 00 15 00 22 00
	Importers of PARTS AND ADDRESS