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. 13.

DECEMBER 10, 1902

No. 43

THE CANADIAN CONTRACT RECORD.

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Wood and Glass Partition, 11 feet 6 inches wide, including one door, and 14 feet high Box 44, CONTRACT RECORD Office.

TENDERS

Tenders will be received up to 5 o'clock p.m. on MONDAY, JANUARY 12711 1903, for the various trades (except heating and stained glass) required in building and completing the Super structure of a Roman Catholic Church in the village of Chepstow, Ont.

Tenders are to be addressed to the Rev F. A. Zettler, Chepstow. Contractors will be required to provide sureties for the proper completion of the works

Plans and specifications can be seen at the Presbytery. Chepstow and also at the Presbytery. Chepstow and also at the Presbytery.

the works
Plans and specifications can be seen at the
Presbytery, Chepstow, and also at the office of
the architect ARTHUR W. HOLMES, 170 Sps.
dina Ave., Toronto.
The lowest or any tender will not necessarily
be accepted.



Sealed Tenders addressed to the undersigned and endorsed "Tender for Heating Apparatus, Postal Station C Toronto, Ont, will be received at this office until MONDAY, 15711 DECEMBER, inclusively, for the construction of a hot water heating system at Postal Station C. Toronto, Ont., according to plans and specification to be seen at the office of S. G. Curry, Architect, Toronto, Ont., and at the Department of Public Works, Ottawa.

Tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank, payable to the order of the Minister of Public Works, equal to ten per cent. (to p.e.) of the amount of the tender, must accompany each tender. The cheque will be forferted if the party decline the contract, or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

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

By order

FRED GELINAS,

Secretary.

Department of Public Works.

Ottawa. 181 December, 1902,

Department of Public Works.
Ottaws, 1st December, 1902.
Newspapers inserting this advertisement without authority from the Department will not be paid for it.

GOAL GAS TAR.

Stratford Gas Co. have for sale a quantity in barrels, car lots or smaller quantities. JOHN CORRIE, President.

CONTRACTS OPEN.

HULL, QUE .- Isidore Paquin purposes enlarging his furniture factory.

ST. CATHARINES, ONT. -Best will erect a new brick building on Main street east.

EGREMONT, ONT.-Thomas Knox desires tenders by 29th inst. for erection of brick school.

BARNET, B. C.-A company has been formed to establish a large fish canning plant here.

RAYMOND, N. W. T.—The North-west Jobbing & Commission Co. intend erecting a warehouse here.

WINDSOR, ONT.—A by-law to issue sidewalk debentures for \$40,000 will probably be submitted to the ratepayers.

MIMICO, ONT.—John Purr is ex-cavating for houses to be built next spring on the lake shore road.

HALIFAX, N.S.—The interior of the Bank of Nova Scotia building in this city will be remodelled next spring.

KEMPTVILLE, ONT -The Pres byterian congregation have decided to build a Sunday School, at cost of \$2,500.

WALKERTON, ONT.-A by-law to grant a loan to Kerr & Harcourt to establish a bobbin factory here was carried.

HUNTSVILLE, ONT.—It is reported that a large brick block will be built on William Wright's property on Main street.

LAPRAIRIE, QUE.— The town has offered the Grand Trunk Railway a large piece of land on which to build repair

ARNPRIOR, ONT. - The Amprior Electric Light Company propose to bring electric power from Pakenham, about ten miles distant.

BROCKVILLE, ONT. - B. Dillon, architect, wants tenders by 20th inst. for erection of brick residence at Renfrew for A. Burnet.

CHAMBLY, QUE.—It is the purpose of the Chambly Mfg. Co. to immediately build a coffer dam in connection with their power plant.

TORONTO JUNCTION, ONT. — The Canadian Pacific Railway Co. have announced their intention of enlarging their works here.

FORT ARTHUR, ONT.—The electric railway and light commissioners have recommended the purchase of a third water wheel.

STRATHROY, ONT. - Debentures

for \$50,000 may be issued by the corporation to purchase the electric lightgas and water plants,

BRANDON, MAN.-The Brandon & Southwestern Railway Co. is applying for power to extend its line towards the Saskatchewan river.

ORILLIA, ONT.—J. B. Tudhope is interested in the Dominion Wrought Iron Wheel Co., of Toronto, which purposes locating here.

ALMONTE, ONT .- It is proposed to submit a by-law to the ratepayers on January 5th to raise \$5,000 for construction of street improvements.

BRANTFORD, UNT .- Work is to be proceeded with immediately on the large buildings to be built at Blue Lake by the Ontario Portland Cement Co.

SYDNEY, N.S.-Work has just commenced on erection of new brewery brick, three-storeys, 80 x 200 feet.

MONCTON, N.B. - The Intercolonial Railway Co. are taking tenders up to 10th inst for construction of roundhouse on Gilbert's Island, St. John .- Tenders close 18th inst. for extension to Intercolonial car shop at this place.

FREDERICTON, N.B. - The Provincial Department of Public Works is having plans prepared for the steel superstructure of the Oromocto bridge.

COLUMBUS, ONT.-William Purves clerk of the township of east Whitby, will receive offers up to 15th inst. for purchase of \$1,250 of debentures.

BEAUHARNOIS, QUE. - J. W. Kilgour & Bro. have not yet decided upon the rebuilding of their factory at this place, which was destroyed by fire.

PORT HOPE, ONT.-Tenders are being taken this week by the Standard Ideal Sanitary Co. for erection of factory building. Plans at store of R. A. Mulholland.

WINGHAM, ONT .- At the January election the ratepayers will vote on a by-laws to raise \$20,934 for waterworks construction and \$6,655 for sewerage construction.

ST. RAYMOND, QUE. — Quebec capitalists have formed a company for the purpose of building a large match factory at this place. It is proposed to invest about \$200,000.

LEVIS, QUE. A. A. Larochelle has submitted to the council a scheme for the construction of waterworks and sewerage systems. The estimated cost is placed at \$389,000.

LITTLE METI ment is on foot to but a cottage hospital here. Miss McLeod, superintendent of the Victorian Order of Nurses, being one of the promoters.

COLLINGWOOD, ONT.—The Bank of Toronto has purchased property at corner of Birnee and Bridge streets on which it is proposed to erect a building for banking purposes.

GODERICH, ONT.—It is intended to form a joint stock company, with a capital of \$100,000, to take over the Goderich Organ Co. and rebuild their factory on a large scale.

BARRIE, ONT — By-laws will be submitted to the ratepayers to raise \$3,000 for extension of waterworks, \$12,000 for cement sidewalks and \$3,000 for other improvements

PETERBOROUGH, ONT. A by law has been introduced in council to borrow \$20,000 for public improvements, including \$5,000 for repairing of bridges over the creek and \$5,000 for drainage.

VANCOUVER, B. C.—The C. P. R. are about to erect coal bunkers on the water front.—By-laws to raise \$30,000 for erection of new jail and \$33,000 for erection of new tire hall have been passed in council.

LONDON, ONT. — Herbert Matthews, architect, is calling for tenders for addition to factory for the D. S. Perrin Mfg. Co. — George Craddock, architect, has in hand a new front for the warehouse of the Nordheimer Piano Co

AMHERST, N.S. -The plans of C. B. Chappell, of Chalottetown, P.E.I, have been accepted for proposed hospital, which will include main building 67 x 38 feet, three-storeys, and a two storey wing, to be brick with stone trimmings, cost \$17,000.

ALMONTE, ONT.—A special committee on electric light has recommended to council that the old wooden dam at the lower bridge be replaced by a concrete dam, also that an extension be built to the power house.—Debentures for \$5,000 will be issued by the corporation.

ROSSLAND, B. C.—The Dominion Government is asking for tenders up to December 30th for construction of fittings in post office in this city. Plans at offices of William Henderson, Victoria; R. W. Grigor, Rossland; M. W. Cream, Vancouver; and at the Department of Public Works, Otrawa.

QUEBEC, QUE.—It is proposed to demolish the houses between the post office and Archbishop's palace and to erect on the site a monument in memory of the late Bishop Lival.—A project is on foot to build a new passenger station in upper town, to be reached by the trains from the Quebec bridge.—Tenders for trenching are invited by I Gallagher, waterworks engineer, up to 16th inst.

OWEN SOUND, ONT.—The Canadian Heating & Ventilating Co. has been organized and purposes building a factory in this town for the manufacture of heating apparatus, blowers, etc. The incorporators include A. E. Palmer, of Cincinnati; J. A. Ellis, architect, of Toronto and J. A. McLauchlan, of this town.

LISTOWEL, ONT.—Construction of the sewerage works has been deferred until next spring.—It is proposed to submit a by-law to the ratepayers on January 5th to borrow the sum of \$21,500 for construction of a waterworks system and \$1,500 to purchase the electric light plant. Plans for waterworks system have been prepared by W. M. Davis, C.E., of Berlin.

ST. JOHN, N.B.—A committee has been appointed by the city council to consider the question of building a bridge across the harbor.—The St. John Abattoir Co. propose to erect a modern abattoir just outside the city limits, the plans for which have already been prepared.—P. Holmberg, representing a Cleveland and Pittsburg syndicate, has elected a site at Springdale, Kings

county, on which it is proposed to build a paper mill.—G. E. Fairweather, architect, is preparing plans for a large six-storey warehouse to be built on Mills street for T. H. Estabrooks.

NIAGARA FALLS, ONT.—A movement is on foot to establish a new half mile race track on the Canadian side of the river.—The Clifton Hotel Co. has been organized, with a capital of \$500,000, to rebuild the Clifton House. The provisional directors are W. B. Rankine, Niagara Falls; J. R. Smith, Buffalo; and Charles Crossby, Pittsburg.—The Niagara Falls Machine and Foundry Co. have taken tenders on a structural iron building 40 x 80 feet.

SHERBROUKE, QUE. — Owing to the inadequacy of the present waterworks reservoir, it is probable that a new one will be built.—A proposition is on foot to erect a joint building for the purposes of a city hall and public library.—The question of developing a water power at Westbury and installing an electric plant for municipal service was favorably considered at a recent meeting of the

HAMILTON, ONT.—The city has decided to postpone for cix months the proposed by-law to raise \$100,000 for perinanent improvements. — Charles Mills, architect, is said to be forming a company for the purpose of supplying light and heat to the business places bounded by King, James, King William and Hughson streets. He estimates that a plant can be installed for about \$15,000.—E. G. Barrow, city engineer, has prepared plans for proposed changes in the Brant street bridge.—Charles Mills, architect, is bringing to completion the plans for new store for Stanley Mills & Co. The store will have a floor space of about 20,000 feet. The first floor will be finished in mahogany.

VICTORIA, B. C.—A company is applying for a charter for the construction of a railway from Hazelton to the eastern boundary of the province. A charter is also sought for a line from Nasga Gulf to Nass river and Telegraph Creek.—Preliminary to beginning the manufacture of pulp, the Quatsino Power & Pulp Co. will establish a saw mill at Quatsino.—Application has been made for the incorporation of the Mono-rail Railway Co., to build electric railways in different parts of the province. Frank Moberly, C. E., is the prime mover in the scheme.—It is believed that the C. P. R. will build a fine hotel in this city at an early date.—A company is being formed to build a large hotel at Oak Bay.

MONTREAL, QUE.—The Montreal Amateur Athletic Association have decided to build their new club house on Peel street, between Burnside and Sherbrooke streets. Plans for the building will be prepared immediately.—The Harbor Commissioners have decided to build a tug during the coming winter, to cost \$6,000.—Dr. Peterson, of McGill University, is urging that steps be taken to provide a students' club, gymnasium, dining hall or residence, in order to bind the University together.—The members of the council are considering a proposition to borrow \$1,000,000 to build a large conduit for underground wires in the business portion of the city.-It is probable that the new public library building will be erected on the site of the present St. Lawrence market.—The Roid Committee has agreed to pay two-thirds of the cost of a \$21,000 tunnel or subway on Forsyth street.- H. C. Stone, architect, is calling for tenders for plastering of the United Shoe Machinery Cempany's building, also for painting of the Beardmore factory.

WINNIPEG, MAN. — It is understood that the Dominion Government

will build a bridge at McLeod to cost \$20,000 and another at Lethbridge to cost \$40,000.- The estimated cost of the cost \$40,000.—The estimated cost of the proposed railway to be built to the city quarry is \$138.425—J. C. Graham, S. P. Clark, G. R. Crowe, and others, have been incorporated as the Prairie Lumber Cc., with a capital of \$100,000, to manufacture and deal in lumber.—The Canadian Northern Britisher. dian Northern Railway Co. have surveyed a line from War road to Rosseau and will build it next season .- It is proposed to proceed immediately with the construction of an electric railway between this city and Lac du Bonnet .-J. P Roberston, H. Cameron, and M. Fortune have been appointed as a special committee to select a site for a new hall to be built by St. Andrew's Society. -- It is reported that a new hotel will be built on corner of Portage avenue and Vaughan street, on property now owned by H. Hatch.

OTTAWA, ONT. - The Department of Railways and Canals is asking for tenders by 11th inst. for supply of certain electrical supplies and hardware for the Soulanges canal.—It has been suggested that the property now occupied by the Bank of British North America be purchased as a site for the proposed public library building.—The Dominion Government has granted certain desired concessions to the Canadian Pacific Railway in connection with their irrigation scheme in Alberta, N. W. T. The project contemplates the irrigation from the waters of the Bow river of two and one ha's million acres of land.—L. K. Jones, secretary Department Railways and Canals, desires tenders by December 15th for supply of 25,000 tons 80 lb. steel Intercolonial rails for the Railway. 12,500 tons to be delivered at St. John and 12,500 tons at Halifax.—The Westand 12,500 tons at Halifax.—The Westinghouse Electric & Míg. Co., of Pittsburg, have decided to establish a factory here for preparing mica for use in the electrical business.—It is probable that an appropriation will be made by the Government to build a pneumatic tube system of parcel delivery between the departmental blocks and printing bureau. -Building permits have been granted as fo'lows : T. Smith, five brick-veneered follows: T. Smith, five brick-veneered dwellings, Lewis street, cost \$5,000; F. A. Morris, brick - veneered dwelling, Fourth avenue, cost \$1,500; P. J. B. Belanger, double-brick tenement, Third avenue, cost \$2,000.

TORONTO, ONT. — Tenders are asked by the Department of Public Works at Ottawa up to December 15th for installation of a hot water heating system in the west end post office in this city. Plans may be seen at office of 3. G. Curry, architect, 90 Yonge street.—G. R. Muntz, of the Consumers Gas Co., has commenced the erection of a new residence at corner of Clinton avenue and Forest Hill Road, North Toronto.—The Toronto Railway Company are in need of larger shops for car building and motor construction.—The Delta Kappa Epsilon Chapter House Co. has been in-

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MUNICIPAL DEBENTURES

corporated to build a new chapter house Those interested include C. M. Carson, lecturer in the University, and J. L. R. Parsons, mining engineer. — It is reported that John Inglis & Son are about to add two buildings, each 350x70 feet, to their engine and boiler works.— The Board of Control have referred back to council the recommendation of the city engineer in r. gard to establishing sewage disposal works in the east end of the city. The cost of the proposed works is estimated at \$45,000. -The council has given notice of its intention to construct an asphalt, brick and paving block pave-ment on each side of the street railway tracks on Yonge street, from Davenport road to C.P.R. tracks, at cost of \$34,250. -In his fortnightly report presented to the Board of Control last week, the city engineer recommends the construction of the following works: Buck pavement on track allowance, Front street west to Bathurst street, cost \$21,250; granite sets on Bathurst street, cost \$21,250; granite sets on Bathurst street, south of Queen street, cost \$8,430; cedar block pavement on St. Clarens avenue, from Wyndham to College street, cost \$3,630; asphalt pavement on Wilton avenue, Yonge to Sherbourne, cost \$31,220; Front street, Chuich to Westmarket streets, cost \$8,345; Wilson avenue, Queen to King street, Cost \$7.800; macadam pavement street, cost \$7,800; macadam parement on Bowman street, Calton to Sackville Place, cost \$661; Seaton street, Wilton avenue to Carlton street, cost \$4,005; cement concrete sidewalks, Avenue-road to a point 646 feet east, cost \$388; Davenport road, Yonge to a point 496 feet east of Avenue road, cost \$1,502; Avenue road, Davenport to Cottingham, cost \$1,536; Cunton street, Bloor to a point 889 feet south, cost \$1,198; West avenue, First avenue to a point 742 feet south, cost \$897; King street, Peter to Spadina, cost \$597; Argyle street, Dundas to Dovercourt, cost \$1,240; Sincoe street, King to Wellington streets, cost \$395.— The city engineer has reported that it would cost \$6,000 additional to alter the curbing at the foot of Bay street to make tt suitable for ferry purposes. — The question of increasing the office accommodation at the Union station is understood to be receiving consideration by the railway company. It is reported that the C. P. R. will shortly extend their freight shieds. — Building permits have been granted as follows. mits have been granted as follows: Ambrose Kent, seven dwellings, west side St. Clarens avenue, near Lappin,

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cost \$16,500; Walter Marks, pair dwellings, Euclid avenue, near Lennox street, cost \$4,000; T. Falconer, pair dwellings, cost \$4,000; T. Falconer, pair dwellings, 152 and 154 Sorauren avenue, cost \$4,000; F. Fenton, brick residence, Bloor street east, near Church, cost \$6,500; A. Rowe, pair dwellings, Delaware avenue, cost \$2,400; W. B. Charlton, pair dwellings, 52 and 54 Victor avenue, cost \$2,600; H. S. Mara, pair dwellings, Authur street, cost \$2,200 dwellings, Arthur street, cost \$3,300, also pair on Gore Vale avenue, cost \$3,300; T. McIlwain, dwelling, Springhurst avenue, cost \$3,000; Parker's Dye Works, addition to factory, 791 Yonge street, cost \$3,000; J. L. May, dwelling, 79 Delaware avenue, cost \$3,500; B. G. Austin, store and three dwellings, corner Bloor, and Margneretts, streets, cost Bioor and Margueretta streets, cost \$7,200.

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FIRES.

Roundhouse of Canadian Pacific Railway on Richmond road, Ottawa, damaged to extent of \$1,500.—Planing mill of J. A. Hewitt at Grimsby, Ont., totally destroyed.— Shop and foundry of the Montmagny Mfg. Co. Montmagny, Que., loss about \$30,000.— General store and residence of E. H. Breckenridge at Avilmer. One almost totally destroyed. Aylmer, Que., almost totally destroyed;

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loss about \$3,000.—Steam laundry at Pertage la Prairie, Man., loss \$5,000.

CONTRACTS AWARDED.

MONTREAL, QUE.-H. C. Stone, architect, has awarded the contract for heating the Beardmore factory to Garth & Company.

VANCOUVER, B. C.—The tender of J. J. Healy has been accepted for con-struction of ice and coal storage plant for Sir Thomas Cleeve and J. J. Mul-

RONTO, ONT. - The York v Commissioners have awarded TORONTO. or for bridge over east branch or at Thornhill to the Co., Toronto, at Çonur the compact Toronto, at Canada Foundry 's Mills,

hwe HAMILTON, ONT.-Charaarchitect, has let contracts as foil. for office building for Hamilton Bridge Works: Masonry, H.C. Gummo; carpenter work, R. Patton; plastering, R. Hannaford.

FREDERICTON, N. B .- The New Brunswick government has awarded the following contracts: Rebuilding Acker Creek and Bull Creek bridges, in Carleton county, to Albert Brewer; stone sub-structure of Oromocto bridge to sub-structure of Oromocto bridge to T. A. Bard, of Queen's county; building wharves at Gagetown, Queen's county, and at Palmers Landing, King's county, to Whipple & Allen, of St. John; rebuilding McCleary bridge, in Carleton county, to W. H. Carvill.

BUSINESS NOTES.

Poirier & McDougall have registered partnership as plumbers and tinsmiths in Waterloo, Ont.

The Winnipeg Paint & Glass Company, Winnipeg, Man., is applying for incorporation. Applicants: John Carr, James McDiarmid, E. Cass and John McDiarmid.

Greening & Doring, of Auburn, Me., who had the contract for the large mills of the Canada Paper Co. at Windsor Mills, Que., are reported to have become financially embarrassed and to have abandoned the work.

The Standard Sanitary Ideal Company, Limited, has been incorporated, with capital of \$100,000 and head office at Port Hope, Ont. The pro-

moters are H. T. Bush, A. E. Pipher, P. L. Bush, S. A. Sloman, and K. Bowers, all of Detroit.

The Silicate Brick Company, of Ottawa, Limited, has been incorporated, with a capital of \$50,000. The provisional directors are Charles Holbrook, Daniel O'Connor, K. Arnoldi, George C. Wright, and E. L. Horwood,

Notice to Contractors.

The Niagara Falls Machine & Foundry Co., Limited, Nlagare Falls, Ont.,

are making a specialty of ir proved HOISTING AND BUILPING ENGINES. Write for Prices.



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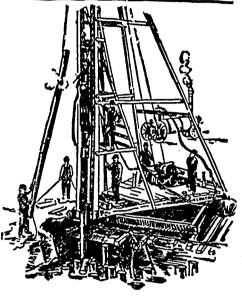
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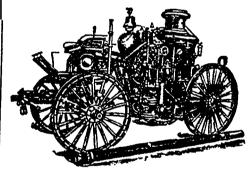


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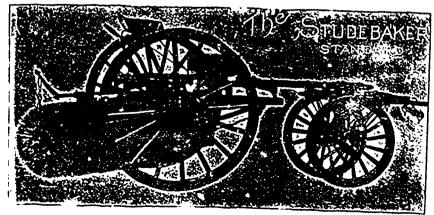
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BRIDGE FLOORS.

The wearing surfaces of highway bridge floors were made the subject matter of a recent report by a committee of the American A-sociation of Railway Superintendents of Bridges and Buildings. In response to questions sent out by the committee, a number of replies were received. Mr. J.B. Sheldon, superintendent of bridges and buildings of the New York. New Haven, and Hartford R. R., reports that with a traffic that will wear out 3-in. plank in two years. Trinidad asphalt will last from six to seven years, and states it to be his experience that where a large volume of business is done, requiring a strong bridge with a wearing surface of asphalt or granite blocks, the paving will last enough longer to more than pay for the extra cost of a bridge strong enough to carry the added weight and the expense of an under floor to support the paving, Mr. A. S. Markley, superintendent of bridges and buildings of the Chicago and Eastern Illinois R. R., reports that white oak plank 4-in, thick, laid on 6-in, string pieces 2-ft. apart, will last from six to eight years, excepting where traffic is very heavy, and in such cases the life of the plank does not exceed three years. It will always wear out before it decays.

D. Houle, contractor, Montreal, has filed consent of assignment.

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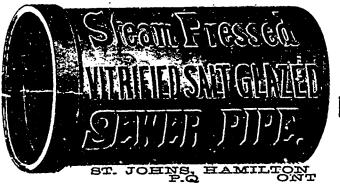
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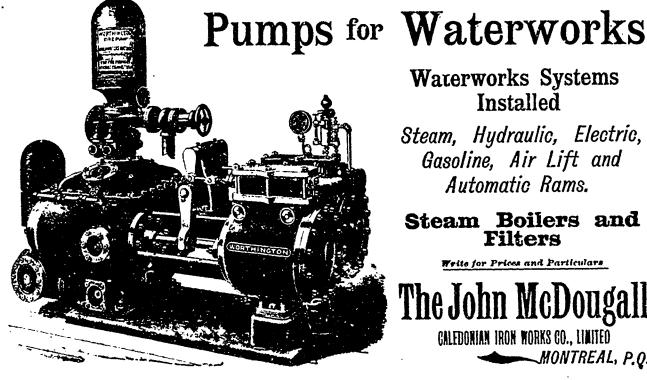
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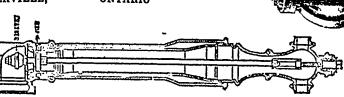
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In asphalt paving in New York the contractors use in most cases a fine, wellgraded sand. Mr. W. H. Broadhurst, chemist of the highway department, states that the use of such sand, together with a large amount of fine mineral dust, permits or the use of a large percentage of bitumen containing a larger percentage of flue than is possible with a coarse sand. The effect of such improvement in formula tends largely to increase the life of the pavement. It should be noted in this connection that on Broadway, and on many downtown streets subjected to heavy traffic, Portland cement has been used for the fine mineral dust in place of powdered carbonate of lime. As Portland cement contains a larger amount of impulpable powder than does powdered carbonate of lime, the use of same with a fine, wellgraded sand, and proper amount and quality of asphaltic cement, produces a very dense pavement mixture with a minimum percentage of voids. The result has been for the reasons above noted an asphalt pavement of the highest grade, in fact it may be said that the feasibility of laying asphalt pavements on streets which sustain such heavy traffic as Broadway is due to these improvements in the asphalt mixture.

NOTES.

In the city of Toronto there are 259,600 mites of streets, of which 182,377 miles are paved and 77.223 miles unpaved.

The city engineer of Toronto has recommended that a thoroughly competent electrical engineer be appointed to look after the interests of the city in its dealings with the various electrical companies.

There are now laid in the city of Toronto a total of 223.5 miles of sewers of all kinds. According to the annual report of the city engineer 7,783 lineal feet were constructed in 1901, also 19,947 lineal feet of drains from the main sewers to the property lines. During the same year 76 miles of sewers were flushed and cleaned and 27,712 yards of material were removed from the slips into which the city sewers empty and were taken out into the lake a distance of eight miles before being deposited.

Brick pavements as laid in Grand Rapids, Micn., have received particular attention in order to secure a smooth surface. City Engineer L. W. Anderson states in his last report that the sand cushion has been increased in depth and changed to a fine, soft sand. The bricks, after being laid, are rolled with a hand roller, thoroughly culled, and then rolled with a 7 ton steam roller. It was feared that the heavy roller would chip the bricks,

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but such does not prove to be the case to any material extent. The pavement so laid, with joints well filled with Portland cement grout, gives a surface as smeeth as asphalt blocks, although somewhat more noisy. The brick pavement is laid with a 5-year maintenance guaranty by the contractor. The contract prices for this brick paving on a concrete foundation for the year ending April 30, 1902, varied from \$1.35 to \$2.25 per square

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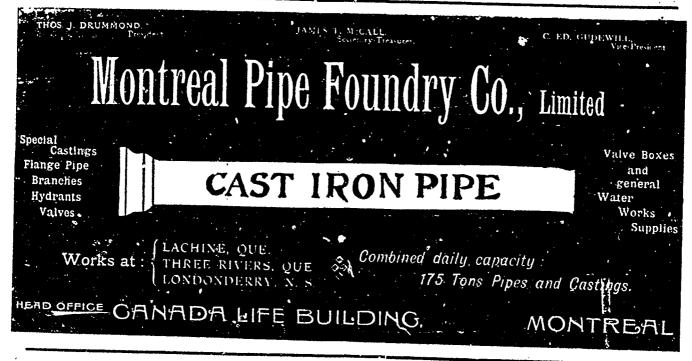
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