

# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS, TENDERS, ADVANCE INFORMATION AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

*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

NOVEMBER 19, 1902

No. 40

**THE CANADIAN CONTRACT RECORD,**  
PUBLISHED EVERY WEDNESDAY  
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**G. H. MORTIMER PUBLISHING COMPANY**  
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CONFEDERATION LIFE BUILDING, TORONTO  
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## TENDERS WANTED

Sealed Tenders, addressed to the undersigned, and endorsed "Tender for Steam Pumping Engine, 1 Million Gallons per day Capacity," will be received until evening of TWENTY-NINTH DAY OF NOVEMBER, 1902.

No tender necessarily accepted.

For specifications, etc., address

DENIS DOYLE, Town Clerk,  
Hawkesbury, Ont.

## Town of Listowel TO CONTRACTORS

Sealed tenders addressed to the undersigned will be received up to 6 p. m. MONDAY, THE 24TH OF NOVEMBER, 1902, for the construction of a

### TRUNK SEWER AND SEWAGE DISPOSAL WORKS

in the town of Listowel. Plans and specifications may be seen and forms and tenders obtained at the office of the Town Clerk, Listowel, or the office of Wm. Mahlon Davis, Civil Engineer, Economical Block, Berlin. Contractors will be required to furnish satisfactory sureties. The right is reserved to reject any or all tenders.

WILLIAM BRIGHT, Town Clerk,  
Listowel, Ont.

## TENDERS WANTED

Construction of Sewer and Waterworks  
Distribution System.

TOWN OF HAWKESBURY.

Sealed tenders addressed to the undersigned, and endorsed "Tenders for Construction of Sewer and Waterworks Distribution System," will be received until evening of TWENTY-NINTH DAY OF NOVEMBER, 1902.

No tender necessarily accepted.

Plans of the proposed works can be seen at the office of the undersigned, from whom, also, specifications, etc., can be obtained.

DENIS DOYLE, Town Clerk,  
Hawkesbury, Ont.

### DRAUGHTSMAN WANTED.

Must be good all round man. GREGG & GREGG,  
96 King St. West, Toronto.

## TENDERS

will be received until MONDAY, NOVEMBER 24TH, for the erection of a large Frame Club House for the Lambton Golf and County Club.

C. J. GIBSON,  
75 Yonge Street, Toronto.

### CONTRACTS OPEN.

CARLETON, N. B.—F. Henderson intends building a residence here.

VERNON, B. C.—The council are taking tenders on erection of a power house.

LANCASTER, ONT.—A site has been selected on which to build a public library.

GLACE BAY, N. S.—The erection of a Jewish synagogue has been commenced.

KINGSTON, ONT.—A telephone system will be installed in Queen's University.

PICTOU, N. S.—The Intercolonial Coal Co. contemplate building a pier at Pugwash.

NELSON, B. C.—The corporation is considering the installation of a municipal electric plant.

SYDNEY, N. S.—A site has not yet been definitely decided upon for new library building.

GODERICH, ONT.—The Goderich Organ Co. have decided to rebuild their factory in this town.

WIARTON, ONT.—B. B. Freeman has made a proposition to the council to establish woollen mills here.

PORT COLBORNE, ONT.—Donner, Wilson & Co., of Buffalo, propose erecting a mammoth ice house here.

ST. STEPHEN, N. B.—The St. Croix Soap Mfg. Co. have decided to build a two-storey addition, 30x40 feet.

ATHENS, ONT.—B. Loverin, village clerk, desires tenders by December 15th for purchase of \$4,000 6 per cent. debentures.

DRAYTON, ONT.—Trustees of the Goldstone Methodist church have decided to erect a new brick church, to cost about \$2,500.

SHERBROUKE, QUE.—Plans are being prepared and tenders will shortly be invited for erection of new city hall on Strathcona Square.

TRURO, N. S.—The Truro Condensed Milk & Canning Co. have purchased the old piano factory and will fit it up as a condensed milk factory.

METAPEDIA, QUE.—It is announced that the Dominion Government will rebuild the Intercolonial railway station here.

WOODSTOCK, ONT.—The Grand Trunk Railway Co. have not yet decided upon a site for proposed new station.

BYNG INLET, ONT.—It is understood that the Holland & Graves Lumber Co. intend building another saw mill at this place.

AMHERST, N. S.—A committee, including Mr. Rhodes and E. K. Silliker, has been appointed to secure plans for a hospital building.

CARLETON PLACE, ONT.—A by-law to raise \$10,000 for permanent sidewalks will be finally passed by the council at next meeting.

CHARLOTTETOWN, P. E. I.—The Board of Trade has recommended a site for the new railway station just opposite the Davies Hotel.

ALVINSTON, ONT.—W. A. Moffatt, reeve, will receive bids up to December 5th for purchase of \$5,600 twenty year 5 per cent. debentures.

DIGBY, N. S.—The town council and board of trade will petition the Dominion Government to increase the wharf accommodation at this port.

PORT HOOD, N. S.—Bids are invited by the corporation up to December 31st for a loan of \$50,000. Particulars from R. G. McLellan.

MINNEDOSA, MAN.—E. S. Harrison, of Winnipeg, has submitted to the council a proposition to instal an electric light plant to cost \$15,000.

CORNWALLIS, N. S.—Clinton Biglow, of Cumberland county, has purchased a tract of land near Blomidon and intends erecting a saw mill there.

BRANDON, MAN.—The corporation will issue debentures to the amount of \$25,000 for the purpose of carrying out improvements to the waterworks system.

SAND POINT, ONT.—S. O. Church & Bro., of New York, have secured a site in this village on which they will build a hop and stave factory.—S. Coughlan has commenced excavating for his new residence.—A. W. Bell intends building a residence.

WOODSTOCK, N. B.—A committee has been appointed by the council to secure information as to the cost of having the water supply pumped by electricity.

ST. MARYS, ONT.—H. B. Harrison, of Owen Sound, in conjunction with other capitalists, has looked over the ground here with a view to establishing cement works.

HUNTSVILLE, ONT.—Hugh Taylor purposes erecting a residence on his property near this town.—It is rumored that J. W. White will build a residence on King street.

SOURIS, MAN.—Bids will be received by J. W. Breakey, treasurer of Glenwood municipality, up to December

1st, for purchase of \$8,000 twenty year 4½ per cent. debentures.

**FORT WILLIAM, ONT.**—The town has reached an agreement under which the Ogilvie Milling Co. will build a mill of 1,500 barrels capacity per day and a \$50,000 bushel elevator.

**QUEBEC, QUE.**—W. B. Kelso, of Syracuse, N. Y., is now engaged in selecting a site for a saw mill to be built on Gagnon Bros. extensive timber limits bordering on the Pentecost river.

**SYDNEY MINES, N. S.**—The Nova Scotia Steel & Coal Co. are erecting 90 coke ovens, the brick work of which will be commenced about April 1st next. The foundation for general office building has been started.

**STURGEON FALLS, ONT.**—The Sturgeon Falls Pulp & Paper Co have made an arrangement with the Ontario Government to secure additional water power and will proceed at once to greatly enlarge their plant.

**HALIFAX, N. S.**—R. J. Wilson, secretary school commissioners, will receive bids up to December 3rd for purchase of \$19,500 25 year 4 per cent. debentures, issued for the purpose of building a new school house on Quin-pool road.

**TORONTO JUNCTION, ONT.**—The Nordheimer Piano Co. purpose erecting a large factory building facing Hook avenue.—C. M. Hall last week purchased a block of land bounded by Quebec avenue, Clara street, and Glendownne road, and intends erecting a fine residence thereon.

**SAULT STE. MARIE, ONT.**—C. Cowley purposes erecting an expensive residence.—C. E. Turner and John Foster, of Wausaw, Wis., were in town last week in connection with the proposition to start a box factory here.—Ald. Collins is planning to build a large hotel just west of Tagona.

**NIAGARA FALLS, ONT.**—H. Symons, of Toronto, acting for the Union Life Insurance Co., has written the council asking for concessions to assist in the erection of an expensive hotel on the block between Robinson, Clarke and Murray streets and Queen Victoria Park.

**ST. THOMAS, ONT.**—At next council meeting a by-law will be introduced to issue debentures for \$35,000 for the erection of a new city hall and \$30,000 to construct granolithic sidewalks.—Elgin county council has agreed to bear one-fourth of the cost of the erection of a steel bridge over the Otter Creek at Vienna.

**WELLAND, ONT.**—Grantham township council has granted a franchise for an electric railway, to consist of a belt line from Homer to Niagara township, on the stone road. The company obtaining same is composed of H. L. Christy, of Pittsburg, and Frank Broderick and H. L. Dunn, of Toronto.

**VICTORIA, B. C.**—Plans are being prepared for extensive improvements to the Imperial Hotel, owned by J. Boscowitz. Three storeys will be added and an elevator put in.—Hooper & Watkins, architects, have taken tenders on erection of brick and stone building, corner Pandora and Blanchard streets, for the Congregational church.

**HAMILTON, ONT.**—E. B. Patterson, architect, has taken tenders on erection of forty dwelling houses on Barton street east, near Birch avenue.—W. J. Lyon has been granted a permit for erection of brick dwelling on Grant avenue, to cost \$1,400.—A representative of Swift & Co., who have acquired the business of the Fowler Co., was in the city last week making arrangements for extending the plant.

**ST. JOHN, N. B.**—Jos. Thompson, W. R. Turnbull, J. B. McLean, and others of this city are seeking incorporation as the Thompson Mfg. Co., Limited, to erect and operate foundry and machine shops in the county of Kings.—The North End Wood-Working Co., recently organized, will proceed at once to erect a large plant on the Gallagher property at Grand Bay. A wharf will also be built. J. Fraser Gregory is president of the company.—George H. Evans, manager for E. Leonard & Sons, has purchased property at Grand Bay on which it is his intention to build a large foundry.

**LONDON, ONT.**—St. John's Roman Catholic school has been found too small and it is likely that a new school will be built on the site of the old St. Mary's church property.—It is rumored that the Grand Trunk Railway intend building a new station at the Wellington street crossing.—The city engineer proposes to build a new market house on the old site, to be commenced in the spring.—J. F. Sherlock and N. W. Manning have formed the Sherlock-Manning Organ Co. They have secured a large factory building, which will be extended and improved, giving a capacity of 100 organs per month.

**VANCOUVER, B. C.**—W. F. Kentland, of Owen Sound, Ont., has made a proposition to the council to establish an iron and steel plant here.—A strong company of local capitalists has been formed, to be known as the Western Canadian Fish Co., to exploit the fisheries of this coast. It is proposed to erect, on the shores of Burrard Inlet, a large drying house. John Boyd, of Boyd, Burns & Co., is president of the company.—The Spicer Shingle Mill Co. are taking tenders up to 24th inst. for construction of eight miles of flume for carrying bolts down the Capilano valley.—Tenders will be invited immediately for extension and interior alterations to the Dominion Hotel, owned by Frank Baynes.—Parr & Fee, architects, have taken tenders on the erection of a brick and stone block on Cordova street, between Cambie and Homer streets, for Theodore Simpson; two-storeys, 50x120 feet, cost \$15,000.

**MONTREAL, QUE.**—The Trappist Monks propose to start work next spring towards the rebuilding of their monastery at Oka. The cost of reconstruction will probably be \$150,000.—A committee of physicians and surgeons has decided to erect a children's hospital on Mount Royal. Dr. H. B. Cushing, registrar Victoria Hospital, is one of the promoters.—The Province of Quebec Association of Architects have requested the council to invite competitive designs for the proposed Carnegie library building.—Building permits have been granted as follows: L. Ma'lo, two-storey house, 117 Mount Royal ave., cost \$1,500; Henry Morgan & Co., four storey warehouse, Union ave., cost \$2,500; Olive Baptist church, new church, 1025 Dorchester street, cost \$42,000; John Wat-sor, house, Rozel street, cost \$2,500; J. B. Gratton, four-storey house, Sherbrooke street, cost \$5,200.

**WINNIPEG, MAN.**—John Thompson, undertaker, will next year erect a four-storey brick and stone block on Main street opposite the City Hall.—The Massey-Harris Co. intend to erect a large and expensive warehouse next spring.—The council is considering the building of an electric railway to the Stony Mountain quarry.—An eastern firm have purchased 90 feet frontage on the east side of Princess street on which to build a warehouse.—R. M. Jaffray is rapidly completing arrangements for the erection of large cement works near Morden. The company which he represents is capitalized at \$1,000,000, Henry Cargill, M. P., of Cargill, Ont., and J. S.

Hobbs, of London, Ont., being largely interested.—W. H. Clerihue and associates have purchased part of the Spence Estate, comprising the block of land lying between Broadway and the Assiniboine river, from Good street on the east to Spence street on the west. It is the intention of the purchasers to have the streets asphalted and the property surveyed for residential sites. Mr. Clerihue himself will build a fine residence in the spring.—J. W. Ewart has purchased 88 feet of land on the south-east corner of Portage avenue and Kennedy street and intends to erect a block of stores.—The Bank of British North America has purchased 50 feet on the west side of Main street and will early next year commence the erection of a bank building to cost \$100,000.

**TORONTO, ONT.**—Mr. Frederic Nicholls will erect next year a large summer residence on Lake Simcoe, near Barrie. It is understood that Mr. S. H. Townsend, architect, of this city, is preparing the plans.—The Copeland-Chatterton Co. have secured a large site on College street, near Clinton, on which it is proposed to erect a new factory and offices.—A large block of vacant land near Trinity University, on the north side of Queen street, is reported to have recently changed ownership, and it is understood that the purchaser will erect a number of dwelling houses on the property.—The general plan of the new freight sheds to be constructed by the Grand Trunk Railway on the old Parliament buildings property has been decided upon. The buildings will cost about \$300,000 and as soon as working drawings are prepared tenders for erection will be invited.—It is reported that the new building to be built by Mackenzie & Mann on the north-east corner of King and Toronto streets will be fitted up for offices for the Canadian Northern Railway, the Sao Paulo Railway and the Ontario Power Co.—It is likely that J. & J. Taylor will be given the portion of the old morgue property asked for on which to build an extension to their works. The city commissioner has been asked to report as to the cost of building a new morgue.—The Board of Control has decided to submit a by-law to the rate-payers next January to raise \$50,000 towards the erection of a consumptive sanitarium.—The council has given notice of its intention to construct the following works: Tar macadam pavement on Saultier street, from Queen street to a point 853 feet south, cost \$4,240; cedar block pavement on Robinson street, from Palmerston to Euclid avenue, cost \$700; concrete sidewalks on south side King street, Sherbourne to Berkeley, cost \$2,793; east side Sackville, King to Queen, cost \$1,168; east side Muguerra street, from Bloor to a point 947 feet north, cost \$1,330; south side Shuter street, Jarvis to Mutual, cost \$240; west side Broadview avenue, Queen to Gerrard street, cost \$2,171; north side St. Patrick street, McCaut to Beverley, cost \$5,300; east side Ossing-

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# MUNICIPAL DEBENTURES

ton avenue, College to Bloor, cost \$2,108—R. J. Edwards, architect, 18 Toronto street, is taking tenders up to 5 p.m. of 19th inst. for plastering four houses on Duchess street.—The Assessment Commissioner has recommended that the Kemp Mfg. Co., Gerrard street east, be given the land desired for the extension of their factory at the price of \$5,000.—Building permits have been issued as follows: S. F. Aberdeen, brick dwelling, 388 Gladstone avenue, cost \$2,500; Samuel Crane, brick and stone dwelling, Spadina road, near Bernard avenue, cost \$2,500; Essery & Ross, brick stables, McFarren's Lane, cost \$3,500; A. H. McBean, brick stable, rear 462 472 Dundas street, cost \$1,200; E. Gordon Wells, pair brick dwellings, 494 and 496 Brunswick avenue, cost \$5,000; F. J. Goodman, pair brick dwellings, 254 and 256 Delaware avenue, cost \$4,000.

OTTAWA, ONT.—The publishers of the Kansas City Star have communicated with G. H. Fowler, lumber agent of the C.P.R., regarding the possibility of securing a suitable site in the Ottawa district on which to build a pulp mill.—It is understood that Mr. Cargill is having plans prepared for a fine new building to be erected next spring on Sparks street immediately east of Bryson & Graham's store.—Charles Biodeur, architect, has prepared plans for the new building to be built by Le Cercle Champlain, which will cost about \$10,000.—The Bank of British North America have purchased the Devlin property on Sparks street, which they will overhaul and remodel for banking purposes.—A proposition to expend \$150,000 in erecting a large market building and paving the entire market with scoria blocks will probably be submitted to the ratepayers in January.—Building permits have been granted as follows: S. Armour, three brick-veneered dwellings, Elgin street, cost \$3,000; Mrs. H. R. Dunn, double brick veneered dwelling, Lisgar street, cost \$2,000.—E. L. Horwood, architect, is preparing plans for a six-storey building for the Ottawa Citizen, to have a frontage of 33 feet on Sparks street and extending through to Queen street. On each floor there will be six sets of double offices, each set having a vault. The construction will be perfectly fireproof, consisting of steel columns fireproofed with concrete, expanded metal and asbestos partitions, pressed brick and stone front, mosaic and

tile floors, iron and marble stair-case, etc. Work will be commenced early in the spring—Bite & Co. have decided to make a four-storey addition to their grocery store and to remodel the front of the present structure.—The residents of North Wakefield have requested the Minister of Public Works for Quebec to grant financial aid towards the construction of a bridge over the Gatineau river at that place.

Building was owned by the Crawford Estate.—Cooper shop of Mr. Garner at Welland, Ont.; no insurance.—Storehouse of the Belleville Hardware Company at Belleville, Ont., damaged to extent of \$1,500.—Lonsbury's livery barn at Wheatley, Ont.; loss \$3,500.—Axle department of the Gananoque Spring & Axle Co., at Gananoque, Ont., damaged to extent of \$10,000.—Store and hotel at

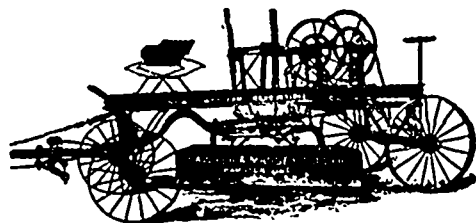
**FIRES.**

Residence of R. H. Cowley, near Westboro, Ont., loss \$10,000.—Factory of J. W. Kilgour & Bros. at Beauharnois, Que.: loss \$40,000, insurance \$15,000.—Factory of the Oshawa Canning Company at Bowmanville, Ont.

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**MUNICIPAL DEBENTURES BOUGHT**

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

Ashcroft, B. C., owned by Veith & Birlands, loss \$12,000.—The following firms at Charlottetown, P.E.I., suffered by fire last week: T. J. Riley, tobacco factory; T. J. Peardon, wholesale grocer; Dillon & Spillett, drug supplies; Walsh & Owen, brick store building.—Sash and door factory of Wilbrod, Baril & Son, Burnet street, Montreal, damaged to extent of \$5,000.

**CONTRACTS AWARDED.**

**WINNIPEG, MAN.** — Clock for city hall tower. G. Andrew, successful tenderer.

**GREENWOOD, B. C.** — Court house. Smith Bros., of Grand Forks, successful tenderers; price about \$10,000.

**LEVIS, QUE.** — Locomotive shops for Intercolonial Railway at Chaudiere. J. Gosselin, of this place, contractor.

**FREDERICTON, N.B.** — Repairs to Tower bridge at Mispec: Mr. Cunningham, of this place, successful tenderer.

**OTTAWA, ONT.** — Furnishings and certain extras for isolation hospital: D. Storey, successful tenderer, \$1,522.89.

**LONDON, ONT.** — The contract for new drill hall in this city has been awarded to Sullivan & Langdon, of Kingston; approximate cost, \$150,000.

**NEWCASTLE, N. B.** — The contract for a quantity of main and service cocks and lead pipe has been given to the James Robertson Co., of St. John.

**MIDLAND, ONT.** — The tender of Aemelus Jarvis, Toronto, has been accepted for purchase of \$20,000 town debentures; price, \$1,960 and accrued interest.

**MONTREAL, QUE.** — Extension of St. James street sewer: Mony & Co., successful tenderers, at \$33 74 per yard.—G. A. Monette, architect, has awarded the contract for electric wiring of house on Souvenir avenue for B. Ethier to the Crescent Electric Co. — Warehouse for Henry Morgan & Co.: Grey & Wighton, contractors. The building will be brick, four-storays, 75x40 feet.

**VANCOUVER, B. C.** — Copper wire for Vancouver Power Company's transmission system: Eugene F. Philips Electrical Works, Montreal, successful tenderers. — Brick and stone stable for Atkins & Johnson: G. W. Grant, architect; E. Cook, contractor.

**TORONTO, ONT.** — Mackenzie & Mann have given a large order for steel rails to Gerald Lomer, of Montreal.—The Forbes Roofing Co., who have the contract for the roofing of the new King

Edward Hotel, are rushing the permanent work to completion. The roof is composed of felt and gravel and is being finished in the most approved style.—Enlargement of Ryerson School: Masonry, R. Clayton; carpentering, William Moss; plastering, E. Warren; roofing, Forbes Roofing Co.; painting, T. Barrett.

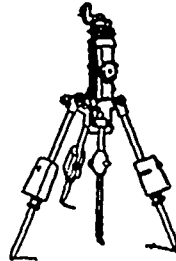
**VICTORIA, B. C.** — The contract for (Continued on page 6.)

**DEBENTURES**

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

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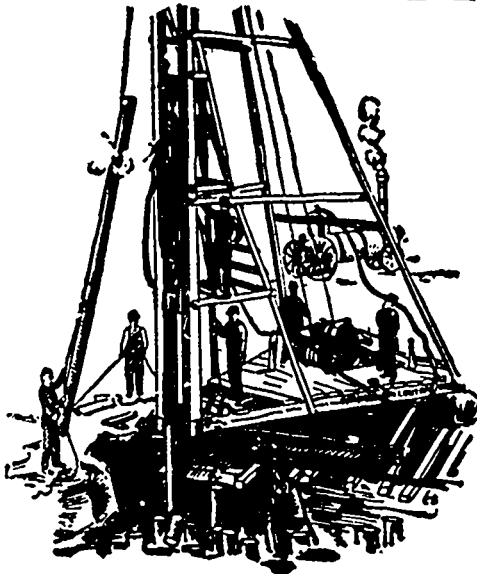
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Correspondence invited. . . . .

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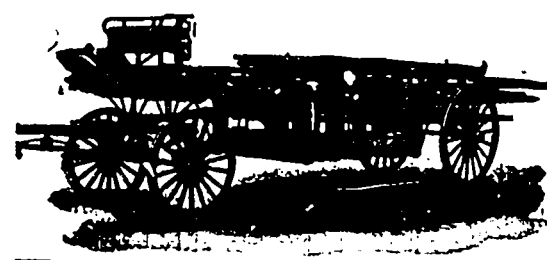
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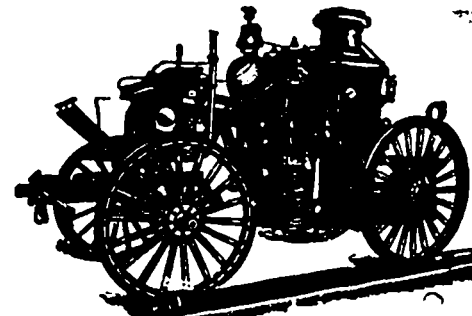
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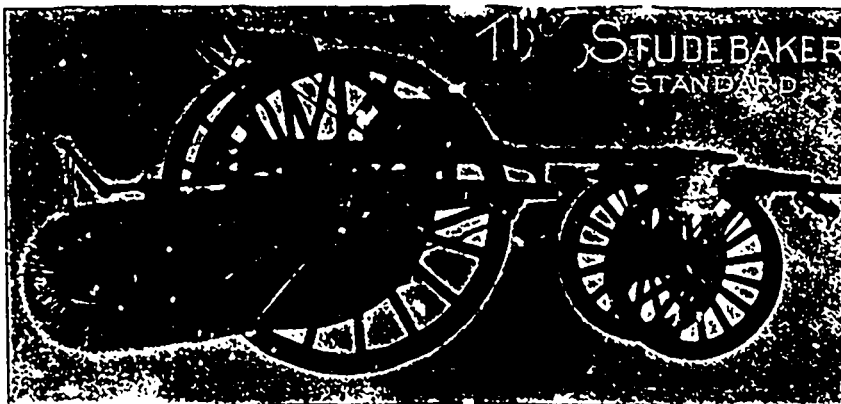
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**Geo. Heenan, Engr., London, Ont.**

building the Point Ellice bridge has been awarded to the Victoria Machinery Depot. The tenders submitted were as follows: Heenan & Froude, New Heath Iron Works, Manchester, England—7c. per pound weight to cover all costs, except extras (no estimate given as to weight of bridge). Puget Sound Bridge & Dredging Co., Seattle, Wash.—Bridge and floor complete, with piers and approach hes of concrete, \$90,000. Dominion Bridge Co., Montreal—Estimated weight, 1,092,000 pounds; tender, 6 54-100 cents per pound; accepted check for \$2,000 deposit enclosed. King Bridge Co., Cleveland, Ohio—Estimated weight, 1,030,000 pounds; tender 6 55-100 cents per pound. Canadian Bridge Co., Waikerville, Ont.—Estimated weight, 1,000,000 pounds; tender 6 97-100 cents per pound; accepted check for \$2,000 enclosed. Victoria Machinery Depot—Estimated weight 1,000,000 pounds; tender for superstructure complete, 4 63-100 cents per pound. The Victoria Machinery Depot submitted three alternative tenders, as follows: (2) Bridge practically identical with plan on file with exception of riveted connections instead of pin connections — \$96,000. (3) Complete modern steel bridge—\$98,000. (4) Modern armored concrete bridge, which would be in keeping with the style of James Bay causeway, and practically imperishable—\$124,500.

**BUSINESS NOTES.**

The assignment is reported of Jos. E. Mitson, painter, Galt, Ont.

Jos. Filon, contractor, Montreal, is contesting demand of assignment.

J. W. Bishop & Company, contractors, Montreal, have ceased to do business in the province of Quebec.

Paquet & Godbout, contractors and sash and door manufacturers, S. Hyacinthe, Que., are offering to compromise on 40 cents on the dollar.

A Dominion charter has been granted to the Canada Realty & Construction Company, with capital of \$145,000 and head office in Montreal. Incorporators are James Morrison, R. Forget, Paul Galibert, William McNally and Jos. Michaud. The object is to conduct a general contracting business.



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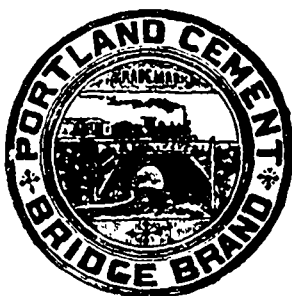
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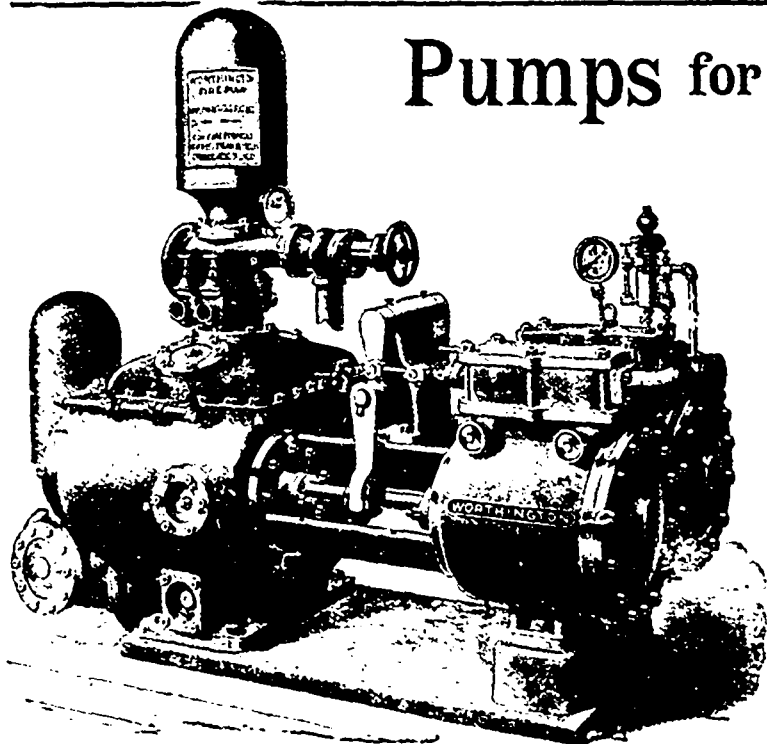


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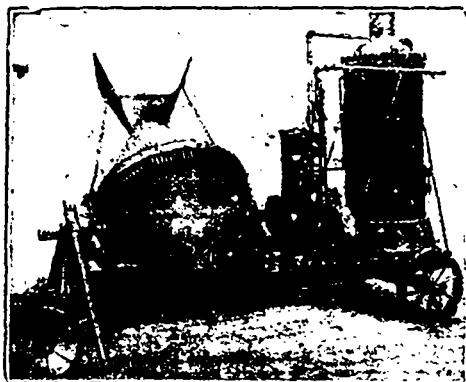
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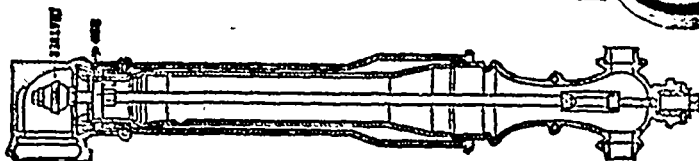
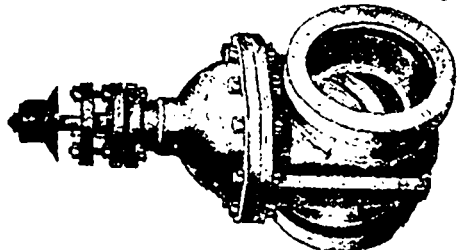
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# MUNICIPAL DEPARTMENT

## RATTLER TESTS FOR PAVING BRICK.

The National Brick Manufacturers' Association of the United States has issued a partial report of its committee on technical investigation, giving the rattler tests for paving brick. The tests are briefly as follows:

1. DIMENSIONS OF THE MACHINE.—The standard machine shall be 28 in. in diameter and 20 in. in length, measured inside the rattling chamber.

2. CONSTRUCTION OF THE MACHINE.—The barrel may be driven by trunnions at one or both ends, or by rollers underneath, but in no case shall a shaft pass through the rattler chamber. The cross-section of the barrel shall be a regular polygon having fourteen sides. The heads shall be of grey cast iron, not chilled nor case hardened. The staves shall preferably be composed of steel plates with cast iron peans which ultimately break under the wearing action on the inside. There shall be a space of one-fourth of an inch between the staves for the escape of the dust and small pieces of waste.

3. THE COMPOSITION OF THE CHARGE.—All tests must be executed on charge containing but one make of paving material at a time. The charge shall be composed of the brick to be tested and iron abrasive material. The brick charge shall consist of that number of whole bricks or blocks whose combined volume most nearly amounts to 1,000 cubic inches, or 8 per cent. of the cubic contents of the rattling chamber. (Nine, ten, or eleven are the number required for the ordinary sizes on the market.) The abrasive charge shall consist of 300 lb. of shot made of ordinary machinery cast iron. This shot shall be of two sizes, as described below, and the shot charge shall be composed of one-fourth (75 lb.) of the larger size and three-fourth (225 lb.) of the smaller size.

4. SIZE OF THE SHOT.—The larger size shall weigh about 7½ lb. and be about 2½ in. square and 4½ in. long, with slight rounded edges. The smaller size shall be 1¾ in. cubes, weighing about ¾ lb. each, with square corners and edges. The individual shot shall be replaced by new ones when they have lost 10 of their original weight.

5. REVOLUTIONS OF THE CHARGE.—The number of revolutions of the standard test shall be 1,800, and the speed of rotation shall not fall below twenty-eight nor exceed thirty per minute. The belt power shall be sufficient to rotate the rattler at the same speed whether charged or empty.

6. CONDITION OF THE CHARGE.—The bricks composing a charge shall be thoroughly dried before making the test.

7. THE CALCULATION OF THE RESULT.—The loss shall be calculated in percentages of the weight of the dry brick composing the charge, and no result shall be considered as official unless it is the average of two distinct and complete tests, made on separate charges of brick.

## NOTES.

Messrs. Lee & Coffin, consulting engineers, of Boston, have completed the installation of a waterworks system for the town of Pictou, N. S.

Mr. E. G. Barrow has been appointed city engineer of Hamilton, Ont., at a salary of \$2,000 per annum. Mr. Barrow was formerly waterworks engineer.

The cost of paving Sandwich street, Windsor, Ont., by asphalt block is shown by the report of the city engineer to have been \$3.10 per square yard, including 74 cents per square yard for macadam foundation.

Mr. William Bell Watson, chief engineer of the tidal survey of Canada, has just been awarded the Watt gold medal by the Council of the Institute of Civil Engineers of Great Britain for a valuable paper on "Tide Gauges in Northern Climates and Isolated Situations."

At Buckingham, Que., the work of connecting the waterworks system with that of the James Maclaren Company by a four-inch pipe on the west side of the river and an 8 one-inch pipe on the east side has been completed middle of this month. This will give a capacity of 18 one-inch streams in case of fire. The town of Buckingham is now lighted by seventeen arc lamps, the plant for the purpose having just been installed by Mr. Albert Maclaren, who has held the charter from the town since 1898.

An unsuspected leak in a large water main was detected in St. John, N. B., under circumstances which show clearly how large a waste of water may occur and not be unnoticeable at the place where it takes place. In this instance the water came to the surface 400 feet from the cracked pipe from which it escaped, and many pits had to be dug before the spot was located, as the water flowed in a blind drain near the pipe. In mentioning the matter, Mr. William Murdock, the city engineer, states that a sheet of rubber packing was placed over the crack, which was 2¾ feet long, and covered by an iron plate, the whole firmly held by nine heavy iron straps.

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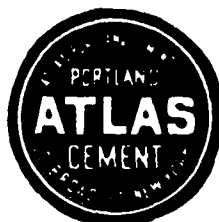
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DCN VALLEY PRESSED BRICK WORKS.

Table listing brick products from DCN Valley Pressed Brick Works, including No. 1 and 2 Red Pressed Bricks, Buff Pressed Bricks, etc.

TORONTO PRESSED BRICK AND TERRA COTTA WORKS

Table listing brick products from Toronto Pressed Brick and Terra Cotta Works, including Red No. 1, Buff No. 1, Roman Red, etc.

BEAMSVILLE BRICK AND TERRA COTTA CO.

Table listing brick products from Beamsville Brick and Terra Cotta Co., including Red Peerless Facing, Buff Peerless, etc.

STONE.

Table listing stone products from Toronto and Montreal, including Common Rubble, Large Red Rubble, Granite, etc.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table listing various contractors and services such as Architects, Contractors' Plant and Machinery, Mantels, Grates, and Tiles, Roofing Material, etc.

Table listing prices for various materials and services in Toronto and Montreal, including stone, brick, and roofing materials.