

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE PUBLIC WORKS 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.

DECEMBER 3, 1902

No. 42

THE CANADIAN CONTRACT RECORD,
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AGENT WANTED

A United States company manufacturing metal lath wish to secure an agent acquainted with the building trade to handle their product in Canada. Further particulars may be had by addressing Box 70, office of CONTRACT RECORD Toronto.

Notice to Contractors.

Sealed tenders will be received by the undersigned for the erection of a

HOUSE OF REFUGE

for the County of Grey, to be erected in the vicinity of the Village of Markdale, according to plans and specifications which may be seen at the office of the Town Clerk, in the Town Hall, Owen Sound. Tenders must reach the undersigned not later than 12 O'CLOCK, NOON, OF TUESDAY, THE 9TH OF DECEMBER, marked "Tender for the House of Refuge." The lowest or any tender not necessarily accepted. Security may be required for the due fulfilment of the contract.

No. 2.—Steam Heating.

CHARLES GORDON,
Chairman of Committee.

Owen Sound, Nov. 20th, 1902.

Drainage Debentures FOR SALE.

Township of Williamsburgh.

Tenders will be received by the undersigned up to 10 a. m. on the 6th DAY OF DECEMBER, A. D. 1902, for ten Debentures of the Township of Williamsburgh, each for the sum of \$341.63, dated the 6th December, 1902, payable on the 1st day of December in the year 1903, and each of the nine following years at the Molson's Bank, Morrisburg, being of the par value at 4 per cent. of \$341.63, issued under the authority of By-Law No. 47 of the said township, passed the 22nd November, 1902, and known as the Gogo Drain By-Law.

Money to be paid on the 13th December, 1902. Tenders to be sealed and endorsed "Tenders for 1902 Drain Debentures."

Dated November 25th, 1902.

GEO. J. ANE, Bouck's Hill P. O.,
Township Clerk.

DRAUGHTSMAN WANTED

S. G. Curry, Architect, 90 Yonge Street, Toronto.

COAL GAS TAR.

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

JOHN CORRIE, President.

Wanted

A First-class Draughtsman. DARLING & PEARSON, Imperial Bank Bldg., Toronto.

Wanted

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

TENDERS FOR WATERWORKS

Sealed proposals, addressed to the undersigned, endorsed "Tenders for Waterworks," will be received at the office of the Secretary-Treasurer at Marieville, Rouville Co., until 7 p.m. DECEMBER 22ND, 1902, for the construction of a Water Works and supply of materials, according to plans and specifications deposited at said office and at the office of Messrs Dupont & Leduc, Civil Engineers, 35 St. James street, Montreal.

The Corporation of Marieville reserve the right to reject the highest or any tender. Tenders should be addressed to G. Bombardier, Marieville, Co. Rouville, P.Q.

G. BOMBARDIER, Sec'y-Treas.

Marieville, 21st November, 1902.

Town of Bracebridge

Debentures for Sale

Sealed tenders will be received by the undersigned up to 8 p. m. on SATURDAY, DECEMBER 13TH, 1902, for the purchase of \$15,000 Bonus Loan Debentures of the Town of Bracebridge, bearing interest at 4½% and repayable in 20 equal annual instalments of \$1,153.14 each, and dated 15th November, 1902, payable at the Bank of Ottawa, Bracebridge.

ALEX. C. SALMON, Town Clerk,
Bracebridge, Ont.

TENDERS

Tenders will be received up to 5 o'clock p.m. on MONDAY, JANUARY 13TH, 1903, for the various trades (except heating and stained glass) required in building and completing the Superstructure of a Roman Catholic Church in the village of Chesnow, Ont.

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

Plans and specifications can be seen at the Presbytery, Chesnow, and also at the office of the architect, ARTHUR W. HOLMES, 170 Spadina Ave., Toronto.

The lowest or any tender will not necessarily be accepted.

The Alpha Paving Company, Montreal, has been dissolved.

F. F. Powell & Company, roofers and contractors, Montreal, have registered a new partnership.

CONTRACTS OPEN.

HARROW, ONT. — John McIntyre intends erecting a building.

PETERBOROUGH, ONT. — The Dickson Co. propose building a new saw mill.

SWIFT CURRENT, N. W. T. — Henderson & Downer, of Lehighbridge, will build a hotel here.

HUNTSVILLE, ONT. — C. A. Wattson has purchased property on which to erect a two-storey brick building.

LONDON, ONT. — It is said to be the intention of the McClary Co. to erect a bridge across the Thames river.

VANCOUVER, B. C. — Plans are to be prepared immediately for new church to be built by the St. Andrew's congregation.

TROUT LAKE, B. C. — An electric light plant will be installed in the saw mill being built by E. N. Kimman and others.

GRIMSBY, ONT. — It is probable that steps will be taken in the spring to build a union school on the Alexander reserve property.

QUEBEC, QUE. — An engineer from the Department of Public Works, Ottawa, has made an inspection of the post office in this city with a view to making alterations and improvements.

BARRIE, ONT. — The county council have instructed R. H. Gibson, C. E., to prepare plans for the north river bridge abutments.

GODERICH, ONT. — A by-law granting a loan of \$25,000 to the Goderich Organ Co. was carried by the ratepayers on Friday last.

ST. STEPHEN, N. B. — Haley & Sons, of St. Stephen, will probably build another mill next year, to be operated by electric power.

PORT ARTHUR, ONT. — Willis Chipman, C.E., of Toronto, will present his report on waterworks system to the council this week.

NEW WESTMINSTER, B. C. — Richard Bolcove, of Montreal, in conjunction with others, proposes building a woollen mill here.

NELSON, B. C. — J. A. McDonald, architect, has prepared plans for a brick and stone public library and gymnasium to cost about \$20,000.

CALGARY, N. W. T. — The congregation of the Church of the Redeemer have decided to commence the erection of a cathedral in the spring.

SEAFORTH, ONT. — It is understood to be the intention of John Dick, of Toronto, to proceed at once with improvements to the woollen mills.

GRANBY, QUE.—The Dominion government is taking tenders up to 9th inst. for installation of hot water heating apparatus in public building here.

NORTH BAY, ONT.—M.W. Flannery, town clerk, will receive offers up to December 10th for purchase of \$20,000 twenty year five per cent. debentures.

SAULT STE. MARIE, ONT.—It is reported that the Clergue syndicate will shortly commence work on the erection of a copper nickel converter plant.

ORILLIA, ONT.—The Dominion Wrought Iron Wheel Co., of Toronto, are negotiating for removal to this town, in which case they will erect a factory.

NORTH AUGUSTA, ONT.—A new Methodist church is to be commenced here next spring.—William Stacey, of Athens, intends rebuilding in the spring.

WINDSOR, ONT.—The Sisters of St. Mary's Academy contemplate building a boarding school and chapel, to cost, including interior alterations to convent, about \$30,000.

KINGSVILLE, ONT.—The council have decided to submit a by-law to the ratepayers granting exemption from taxation to David Conklin to establish a box, sash and door factory.

SYDNEY, N. S.—The congregation of St. Andrew's Presbyterian church have purchased a lot on which to build a brick and stone church, to cost about \$40,000.—A company has been formed to develop the granite deposits at White Head, Guysborough county. A large cutting and polishing mill will be erected. Particulars from C. H. Lynott.

BARNET, B. C.—Should the McLaren-Ross saw mill, recently purchased by the H. L. Jenkins Lumber Co., of Minneapolis, Minn., be put in operation, a planing mill will likely be erected.

STURGEON FALLS, ONT.—The Ontario Government has authorized the Sturgeon Falls Pulp Co. to dam lake Temagami for the purpose of securing a more regular water supply.

BERLIN, ONT.—The members of the town council are of the opinion that the septic tanks and filtering beds will have to be extended to provide for the increased amount of sewage.

MOOSE JAW, N. W. T.—Steps are being taken by E. Simpson, O. B. Fysh, W.N. Mitchell and others, looking to the construction of systems of waterworks, sewerage and electric light.

BROCKVILLE, ONT.—The city debentures have not been sold, the offers being below the reserve bid.—B. Dillon, architect, has prepared plans for a fine residence to be built in Renfrew.

MARIEVILLE, QUE.—Tenders will be received by G. Bombardier, secretary-treasurer of the municipality, up to 22nd inst. for supply of materials and construction of a waterworks system.

GREENWOOD, B. C.—Engineers are making surveys preparatory to building the Vancouver, Victoria & Esquimalt Railway through Midway, Greenwood and Boundary mining camps.

ST. ANDREWS, N. B.—The congregation of All Saints' Church have decided to erect a hall in memory of the late Rev. Canon Ketchum. Rev. R.J. Langford is chairman of the committee having the matter in hand.

NIAGARA FALLS SOUTH, ONT.—The Public School Board is calling for tenders for erection of a primary school building.—Peter DeWett, of Montrose, will build a brick business block on Lundy's Lane.

ST. THOMAS, ONT.—An agreement has been reached under which the Sutherland-Innes Company, of Chatham, Ont., will build a hoop and stave mill

here. Five acres of land have been secured for the purpose.

VALLEYFIELD, QUE.—The Valleyfield Electric Railway Co. has been formed to build an electric railway within the counties of Beauharnois, Huntingdon, and Chateauguy. S. A. Brodeur and George H. Thibault are interested.

BRIDGEWATER, N.S.—It is announced that the purchase of the Davison timber property by a New York syndicate has been completed, and that new mills will be erected. The syndicate is represented by F.P. Chapin, of New York.

FARNHAM, QUE.—The council have decided to purchase a stone crusher.—J. Morgan, of London, England, representing a British syndicate, has made a proposition to the council to establish an extensive plant here for the manufacture of school desks, office furniture, etc.

VANCOUVER, B. C.—Plans are being prepared for a new church to be built by the West End congregation. Particulars may be obtained from H. W. C. Boak.—The land at the corner of Hastings street and Gore avenue has been purchased, on which it is intended to erect a three-storey Orange Hall. The sale was negotiated through J. J. Banfield.

WOODSTOCK, N.B.—The Woodstock Wood-Turning Co., of which William Craddock is manager, intend erecting five buildings, of which the manufacturing building, 30x100 feet, is now under way. There will be a saw mill 24x80 feet, engine room 24x26 feet, dry kiln 30x50 feet and store room and packing building 30x140 feet.

OSHAWA, ONT.—Willis Chipman, C.E., of Toronto, has completed his report on waterworks and sewerage systems for this town. The exact figures have not been learned, but are reported to be about \$168,000 for supply from Thompson's Springs with reservoir, \$118,000 for lake system, \$140,000 for Oshawa Creek scheme, and \$85,000 for disposal works and sewer.

NIAGARA FALLS, ONT.—Bruce Price, architect, of New York, is understood to be preparing plans for the palatial hotel to be built here by New York and Montreal capitalists. Harry Symons, vice-president of the Union Life Insurance Co., is the financial agent of the syndicate.—The Niagara Falls Machine & Foundry Co. have taken tenders on a structural iron building, 40x60 feet. They also contemplate building a brick addition.

COLLINGWOOD, ONT.—The Roads and Bridges Committee of the county council have recommended that a new structure be built to replace Wasdell bridge over the Severn river.—W. J. Lindsay, of St. Thomas, has made a proposition to council to establish a wire and nail factory here. In return for a cash bonus of \$25,000 he agrees to erect the following buildings: Engine house, brick, 20x30; boiler house, brick, 40x50; cleaning house, iron, 60x75; one drawing building, iron, 60x75; galvanizing room, iron, 25x175; nail plant, brick, 65x180; warehouse, nail, frame, 30x100; wire fence factory, iron, 100x180; wire fence warehouse, 60x150.

VICTORIA, B. C.—G. A. Keefer, engineer of the Department of Public Works, Ottawa, has received instructions to proceed immediately with the work of constructing a wharf at Hardy Bay.—Tenders closed on Monday last for purchase of \$9,900.83 corporation debentures.—Tenders are invited by the Provincial Government for the erection of a high school at Vernon and public schools at North Vesuvius and Eholt.—The

Quatsino Power & Pulp Co. has completed organization and elected G. H. Lugin, of this city, as secretary. The work of building a mill will likely be commenced in the spring.

HAMILTON, ONT.—The ratepayers will likely be asked to vote on a by-law to raise \$100,000 for public improvements, as follows: West end sewage disposal work, \$30,000; Home for Incurables, \$7,000; water mains, \$5,000; Ferry street opening, \$12,500; east end fire station, \$3,000; macadam roads, \$42,500.—Charles Mills, architect, has prepared plans for a new office building for the Hamilton Bridge Works, for which tenders will be invited immediately.—Building permits have been granted as follows: E. Doidge, five two-storey brick dwellings on Catherine street, cost \$6,000; James Shoats, two-storey brick dwelling, Barton street, cost \$1,500.—Charles Mills, architect, is preparing plans for a five-storey building to be erected by Stanley Mills & Co.—It is reported that the Deering Harvester Co. are having plans prepared for an up-town office to be built at the corner of King and Macnab streets.

WINNIPEG, MAN.—The Eastern Townships Bank have purchased the property on Main street occupied by Richard's liquor store and Suckling & Co.'s real estate office. It is the intention to remodel and refit the buildings for banking purposes.—The American Abell Engine Thresher Co. purpose erecting a large machine shop and warehouse in this city. This company have absorbed the John Abell Engine & Machine Works Co., Ltd., of Toronto.—It has been decided to build a new church at the corner of Broadway and Hargrave streets to accommodate the members of Grace church living in the south end of the city. It is proposed to build a new edifice to replace Grace church, the site for which will probably be near the present church.—A new edifice will be built by the congregation of Zion church.—It is expected that the C. P. R. will begin the erection of new shops in this city about April 1st.

SAULT STE. MARIE, ONT.—The High School Board have asked the city council for \$28,000 to erect a new high school.—A committee, including John McKay, John Dawson, E. Noble, D. I. Miller, and Dr. McRae, has been appointed to report on a proposition to build a new hospital, to cost about \$25,000.—The Bell Telephone Co. are calling for tenders for poles to be delivered next spring for building their line from Sault Ste. Marie to Thessalon.

OTTAWA, ONT.—Arrangements have been completed for the construction of a macadam pavement on Bank street, the work to be commenced in the spring.—The Canada Life Assurance Co. is said to be negotiating for the purchase from Mr. Thompson of the property at the north-east corner of Metcalf and Sparks streets with a view to the erection thereon of a fine insurance building.—Ald.

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MUNICIPAL DEBENTURES

Cleary has secured a promise from Hon. A. G. Blair, Minister of Railways and Canals, that he will seriously consider the erection of a bridge across the Rideau canal at the foot of Concession street.—It is rumored that the C. P. R. contemplate erecting a modern hotel in this city.—The Department of Public Works is asking for tenders up to December 26th for large extension to wharf at St. Irene, Charlevoix county, Que. Plans at above department and at post offices at Quebec and St. Irene.—E. J. Walsh, C. E., has commenced the survey for the proposed line of railway from Ottawa to Brockville. The road will be 55 miles in length and is expected to be completed by the end of 1903. J. Carling Kelly is one of the promoters.

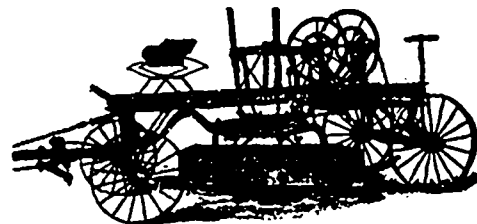
MONTREAL, QUE.—Plans of water-work system to be constructed at Marieville, Que., are on view at the office of Dupont & Leduc, civil engineers, 35 St. James street. Tenders close 22nd inst.—John W. Peck & Co. are having plans prepared for a four-storey factory to be built on Elmire street.—The management of the Maternity Hospital have now \$40,000 on hand towards the erection of a new building. An additional \$40,000 will be required to carry out the plans.—E. M. Renouf, bookseller and stationer, purposes erecting an up-town office building on the site of the dry goods store of Bernier & West, burned some time ago.—Tenders closed yesterday for fittings for the Customs examining warehouse in this city.—G. A. Monette, architect, is calling for tenders for installation of an electric plant—dynamo, engine and wiring—for the Sacred Convent at Sault au Recollet for the Rev. Ladies of the Sacred Heart.—Building permits have been granted as follows: James R. Wilson, four-storey factory, 201 Fortification Lane, cost \$6,000 (Hutchison & Wood, architects, J. H. Hutchison, contractor); G. Marcoux, two three-storey houses, corner Mount Royal Ave. and Christopher Columbus street, cost \$5,000; G. Pennycode, two-storey house, 487 Grand Trunk street, cost \$2,200; Desire Michon, two two-storey houses, St. Andre street, cost \$4,000; Hudson Bay Knitting Co., alterations to factory, 238 Lagache-tere street, cost \$10,000 (H. C. Stone, architect.)—The city surveyor estimates that the sum of \$2,087,866 will be required during the coming year for road improvements, sewers, etc. The items are as follows: Macadamizing old roads, \$293,73; mi-

cadamizing new roads, \$128,167; repairing permanent pavements, \$197,000; wooden sidewalks, \$199,042; repairing permanent sidewalks, \$44,484; street crossings, \$35,371; street gullies, \$20,810; snow removal, \$60,000; paving between car tracks, \$216,272; new pavements, \$504,372; asphalt plant, \$15,000; St. Denis street subway, \$62,000; Forsyth street subway, \$10,000; sewers and pump stations, \$325,000.

TORONTO, ONT.—The management of the East End Day Nursery, 350 Wilton avenue, purpose taking steps to erect a new building, to cost about \$8,000.—J. W. Siddall, architect, Janes Building, is this week taking tenders on a warehouse on Front street west.—It transpires that Pellatt & Pellatt, stock brokers, have purchased the entire

property on King street extending from Rice Lewis & Son's building on the west to the Headquarters Saloon, giving a frontage of 82 feet and a depth of 100 feet.—The Board of Control desires tenders by Tuesday, 9th inst., for construction of a tile pipe sewer on Ketchum avenue, from a point 75 feet north of Scollard street to Davonport road.—It is understood that Toronto capitalists, in-

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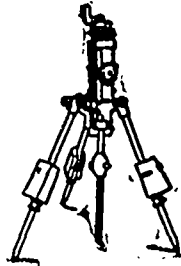
cluding William Mackenzie, president of the Toronto Railway Co., and Frederic Nicholls, manager of the Canadian General Electric Co., have approached the Ontario Government with a view to securing privileges for the development of electric power at Niagara Falls.—The Toronto Clearing House Association are remodelling and enlarging their quarters at 4 Wellington street east. An elevator will be installed.—Plans are now being prepared for the new building to be built by the Ontario Government as an addition to the Normal School.—The sum of \$15,000 has been subscribed towards the building of a Convocation Hall in connection with Toronto University. It is estimated that the building will cost \$50,000.—The Minister of Public Works has authorized certain work on the foundation of the Toronto Custom House. About four feet of concrete will be put in to take the place of the present sleepers.—R. Barber, 6 Rathnally avenue, wants tenders from all trades, except brick laying, for house on Delaware avenue.—Dr. Oronhyatekha, J. A. McGillvray, K. C., and J. F. McLaughlin, of this city, Hon. E. G. Stevenson, of Detroit, and others, are organizing the Farmers' Co-Operative Machinery Co. for the purpose of establishing in Canada extensive works for the manufacture of agricultural implements.—H. Schaffer purposes erecting a residence at corner of Edward street and Lyall avenue, East Toronto.—Building permits have been granted as follows: A. G. Gowanlock, alterations and two-storey brick addition, Gwynne avenue, cost \$3,000; H. H. Fudger, alterations to dwelling, Maple avenue, cost \$2,000; C. R. Dinnick, three pairs semi-detached, two-storey brick and stone dwellings, Wells street, cost \$12,000; A. Hutchison, brick dwelling, Havelock avenue, cost \$3,500; W. A. Elliott, brick dwelling on Macdonell avenue, cost \$1,700, and two dwellings of cement blocks on same avenue, cost \$3,600; General Distilling Co., five-storey brick distillery, corner Parliament and Mill streets, cost \$30,000; H. F. Squires, pair houses, corner Lennox street and Euclid avenue, cost \$5,800; Macpherson Estate, brick and stone dwelling, corner Crescent road and Cluny avenue, cost \$13,000; North American Land Co., four pairs of dwellings, Manning avenue, near Harbord street, cost \$12,800.

The Hoodless Furniture Company, Limited, of Hamilton, Ont., has been incorporated, with a capital of \$40,000.

FIRES.

Larrigan factory of J. S. Henderson, Parrsboro, N. S., totally destroyed; loss about \$40,000.—Dry kiln of Robertson & Hackett, Vancouver, B. C.; loss \$6,000.—Lounsbury warehouse, Samuel Bishop's store, Holdergrave & Rossenburg's store, and J. J. Roy's dwelling at Bathurst, N. B.—Flour mill and elevator of W. Ritchie, Strathcona, N. W. T., damaged to extent of \$4,000.—Dwelling of John Boyne, merchant, Minden, Ont.; loss \$3,000.—Murray block at Dauphin, Ont., occupied by Sutherland & Stelck, hardware merchants, and McKinnon's implement warehouse.

The dissolution is announced of Kennedy & Lambert, painters, St. John, N.B.



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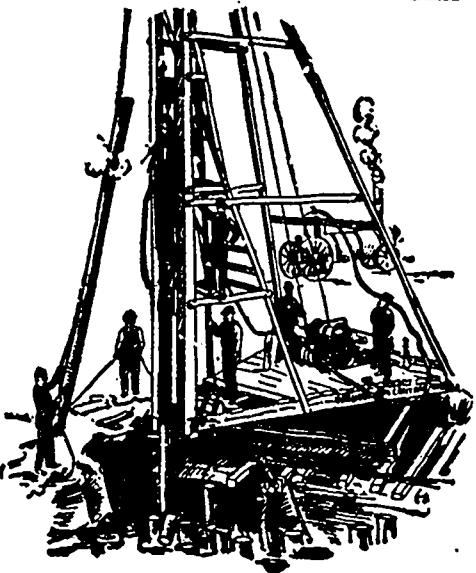
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GEO. S. KILBOURN, Secretary-Treasurer.

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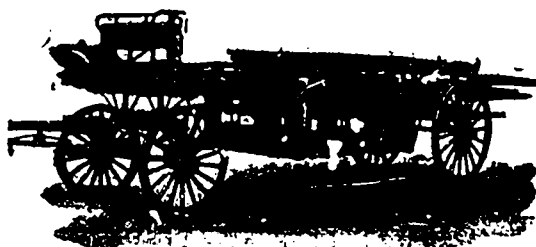
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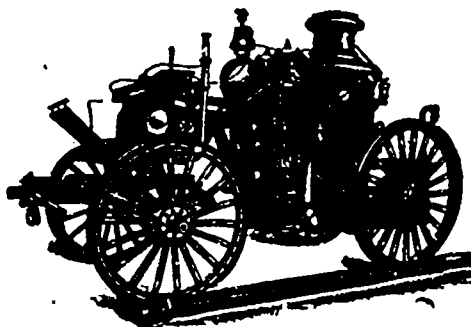
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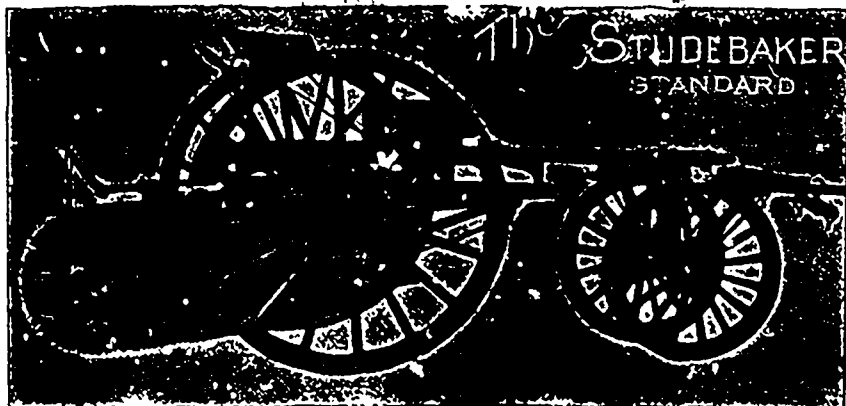
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VICTORIA, B. C.—Residence for F. Babbington : E. Bragg, contractor.

TORONTO, ONT.—The contract for dynamo and engine for city hall lighting plant has finally been awarded to the United Electric Co.

MONTREAL, QUE — The contract for the construction of the Chateauguy and Northern Railway and for the sub-structure of the Bout de L'isle bridge has been awarded to C. E. Loss, of New York. It is understood that the price is about \$1,000,000.

LISTOWEL, ONT.—For construction of trunk sewer and sewage disposal works tenders were received as follows : P. Pigeon, Sebringville, \$5,710 (accepted); R. Roehmer & Co., Berlin, \$6,731 ; J. F. Connolly, Toronto, \$8,490 ; P. Johnston, London, \$7,002.50 ; W. R. Grant & Co., Toronto, 7,940.

Mr. H. F. Strickland, electrical engineer, whose professional card first appears in this issue, has in a number of cases acted in the capacity of arbitrator to determine the value of lighting plants of which the municipality desired to assume the ownership and control. In most instances amicable settlements have been arrived at and lawsuits avoided. Having acted for municipalities and also for owners he is familiar with both sides of the question. Mr. Strickland has also been engaged as expert witness on arbitrations. He states that he is not interested in or connected with any manufacturers and desires to bring about fair understanding between owners and municipalities.

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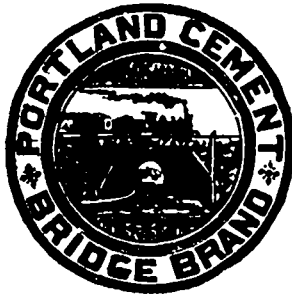
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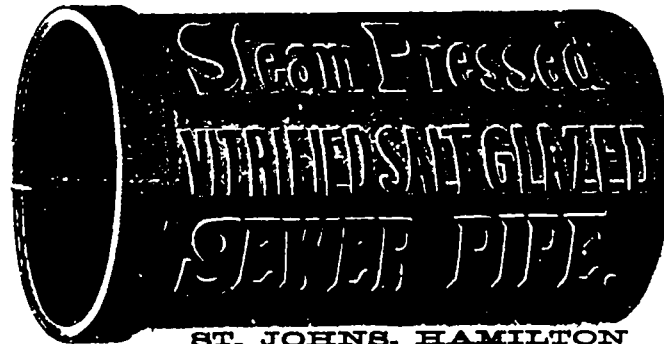
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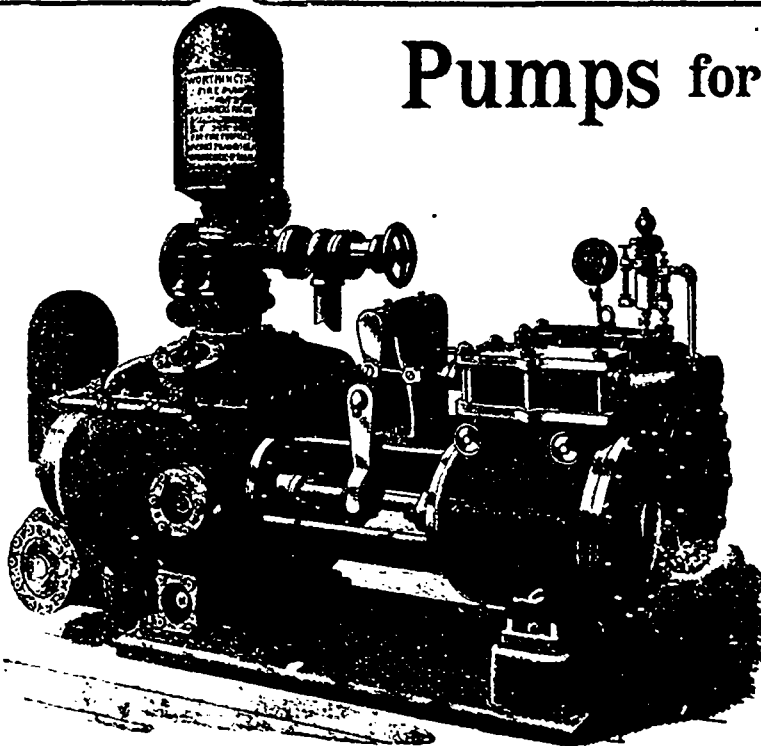
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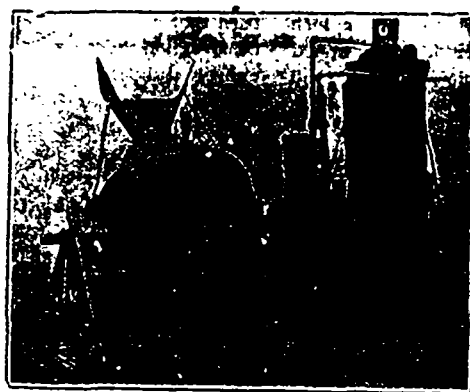
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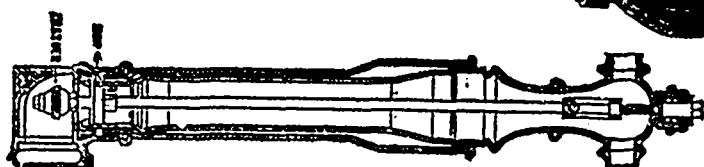
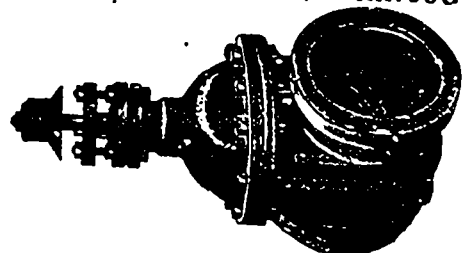
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SPECIFICATIONS FOR VILLAGE CONCRETE SIDEWALKS.

All concrete walks shall be laid with outer edges 12 inches from boundary lines of streets, the finished surface of the walk to be not less than 6 inches above the top of the street curb and rise one inch in three feet towards the lot line and shall be constructed in the following manner:

A foundation shall be prepared by cutting down or filling up the natural surface of the ground to a point thirteen and one-fourth (13 $\frac{1}{4}$) inches below the grade above fixed for the top surface of the walk, which foundation shall be properly smoothed, wetted and compacted and covered with a uniform layer of thoroughly compacted, clean, coarse cinders eight (8) inches in thickness, upon which layer of cinders so prepared there shall be placed a uniform layer of concrete four and one-half (4 $\frac{1}{2}$) inches in thickness, composed of one part of the best American Portland cement and two parts of clean torpedo sand thoroughly mixed with four parts of clean, crushed limestone, varying in size from one-half inch to three-quarter inch cubes. Before the layer last mentioned has set, a layer or finishing coat shall be placed thereon three-quarter inch in thickness, to be made of one part of the best American Portland cement and one part of clean torpedo sand mixed to the proper consistency with water and spread smoothly before the under layer has set, and thoroughly troweled to a perfect finish. Said sidewalk shall be constructed under the supervision and subject to the approval of the sidewalk committee of the board of trustees, who are hereby appointed to superintend the construction of the same.—Cement and Engineering News.

PAVEMENT AND SIDEWALK CONSTRUCTION IN TORONTO.

The annual report of the City Engineer of Toronto shows that during 1901 there were constructed 15.6 miles of pavements and roadways, and 17.8 miles of concrete and brick sidewalks. During the past four years 86 miles of pavements and roadways have been constructed, which is 34 per cent. of the total mileage of the streets of the city.

Concerning the different classes of work the City Engineer says:

The repairs to asphalt pavements during the year were carried out under contract at \$1.23 per square yard for 2 $\frac{1}{2}$ -inch surface, \$1.09 per square yard for 2-inch surface, and \$4.75 per cubic yard for concrete foundations.

There has been a considerable decrease in the mileage of brick pavements constructed during the year, but all pavements of this class were laid on a concrete foundation. After six years' experience

with bricks manufactured by local companies, I am quite satisfied that this material makes a desirable and satisfactory pavement for residential streets, its noisiness being the only objection to it.

With the exception of one street, all cedar block work consisted of relaying existing worn out block pavements. New blocks can be relaid on existing foundations for about 65 cents a square yard. A pavement thus relaid is good for at least five or six years.

During the year about 2.7 miles of macadam roadways were constructed. The objection to this class of road is the dust and dirt, and the impossibility of obtaining from the council a sufficient appropriation to keep such roadways in good repair. A tar macadam road was constructed on Cawthra Square. As this class of roadway is still in the experimental stage, its merits cannot be definitely judged, but I consider it a great improvement upon the ordinary macadam road, the addition of the tar rendering it noiseless, and, comparatively speaking, free from dust. The cost is about 30 per cent. more than for the ordinary macadam, and I am of opinion that for residential streets it will make a very satisfactory roadway.

The number of concrete sidewalks constructed was very much in excess of those laid in any previous year. Comparing the lifetime of concrete with that of plank sidewalks, the former is much cheaper. Class B can be laid for 11 cents a square foot, with a five-year guarantee, and I trust that within two or three years the construction of plank walks will be entirely discontinued.

Only one or two brick sidewalks were laid. This class of material does not appear to be very popular for sidewalk purposes, and the cost is very little below that of concrete walks.

The new cement plant at Durham, Ont., is expected to be put in operation this week.

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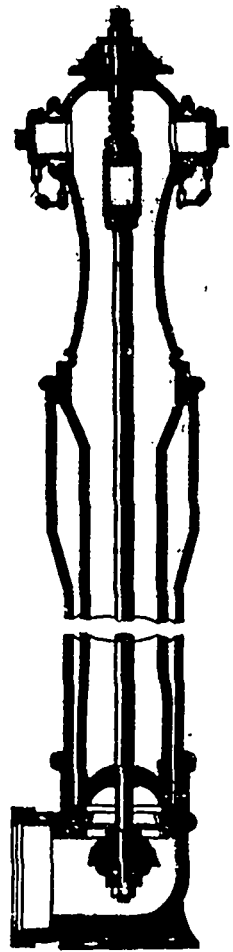
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Table with columns for stone types (Common Rubble, Large Flat Rubble, Foundation Blocks, Granite, Amherst Red Sandstone, Amherst N.S., Jackville, N.B., Mansillon, Standard granite paving blocks, Granite curbing stone, Bactouche Olive Freestone, Olive Sandstone, Brown) and prices for Toronto and Montreal.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table listing various categories such as Architects, Contractors' Plant and Machinery, Mantels, Grates, and Tiles, Roofing Material, etc., with corresponding company names and page numbers.

Table listing prices for various materials like sandstone, granite, rubble, and Portland Cement, with columns for Toronto and Montreal prices.