

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 Debenture, and leading Contractors in all lines throughout Canada.

Vol. 12.

MARCH 20, 1901

No. 7.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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

TENDERS WANTED

Tenders wanted for crushing four hundred cords of stone at town of Renfrew. Apply to

E. A. CAWSEY, Stratford.

WANTED

To purchase a good second-hand vault door. Communications received by the undersigned.

JOHN ROBINSON, Clerk,
Niagara Falls, Canada.

TENDERS WANTED

Tenders will be received by the undersigned until 4 p. m. WEDNESDAY, MARCH 27TH, for the various works required in the erection of a row of ten Brick Houses on Bright Street, Toronto, for Robert Davies, Esq. The lowest or any tender not necessarily accepted.

DAVID ROBERTS, Architect.

Corner of Toronto and Adelaide Streets. 7

NOTICE TO CONTRACTORS

The undersigned will receive up to 12 o'clock noon, SATURDAY, THE 30TH DAY OF MARCH, 1901, tenders for

15 ton Steam Road Roller.

Portable Mounted Rock Crusher, Elevator and Screen.

Crusher to be driven from Road Roller. Contractors to supply full specifications and photographs of the above implements, to be delivered at Calgary the FIRST DAY OF MAY, 1901. The lowest or any tender not necessarily accepted. For further particulars apply to

CHAS. McMILLAN, City Clerk,
Calgary, Alberta.

COUNTY OF YORK

Tenders for Masonry Abutments

Tenders will be received by the undersigned, up to 12 o'clock, noon, on FRIDAY, MARCH 22ND, 1901, for the construction of Two Stone Abutments for a Steel Bridge over the Humber River, at the site of the Eagle Bridge, in the Village of Weston, County of York.

Plans and specifications can be seen and all necessary information obtained at the office of the undersigned, Court House, Adelaide St. E., Toronto, on and after March 13th, 1901.

A marked cheque for \$300 must accompany each tender, which will be returned if the tender is not accepted.

The lowest or any tender will not necessarily be accepted.

By order,

JAS. McDOUGALL, C.E.,

County Engineer.

Court House, Toronto, March 8th, 1901.

MUNICIPAL DEBENTURES FOR SALE

Local Improvement Debentures of the Town of Harriston, guaranteed by the town, are offered for sale by tender. Amount, \$7,491.56, payable in 20 equal annual instalments of \$374.58 each, payable on January 1st in each year, at the Standard Bank, Harriston. First instalment payable on January 1, 1902. As instalments include interest from January 1, 1901, the successful tenderer must pay in addition to amount of tender, interest at 4 per cent on \$7,491.56 from January 1, 1901, to day of payment of purchase money. Amount of tender, and above mentioned added interest, payable at Standard Bank, Harriston, when debentures will be delivered. No tender necessarily accepted. Tenders will be opened on the FIRST DAY OF APRIL, 1901, and must be addressed to the undersigned. Dated at Harriston, this 14th day of March, 1901.

W. D. EBELS,

Town Treasurer, Harriston.

Tenders Wanted

Tenders will be received by the Council of the Township of Hay, up to MONDAY, THE 8TH DAY OF APRIL, 1901, for the construction of the following drainage works:

"East and West Branches South," 7,550 cubic yards.

"East Branch North," 13,020 cubic yards.

"West Branch North," 12,077 cubic yards.

Tenders must be separate for each Branch. Plans and profiles may be seen at the office of the undersigned.

Satisfactory bonds are required to be furnished by the contractors.

FRED HESS, Sr.,

Township Clerk.

Zurich, March 13th, 1901.

NOTICE OF REMOVAL.

Oakley & Holmes, Contractors, have removed from Wellington street to 1111 Yonge street. Estimates given on cut stone, brick work, etc. Telephone 3663.

QUARRY FOR SALE

One of the best Lime Stone quarries in Ontario; large variety of thicknesses; all flat bedded; no better stone for dimension, bridgework or rubble. First-class equipment, thorough working order. Good shipping facilities. Good prospects. No encumbrance.

Apply Box 50, office of CONTRACT RECORD, Toronto.

Notice to Contractors

Sealed tenders for the pumping machinery and sewer castings for the water works and sewer system of the Town of Chatham, N. B., endorsed, "Tender for Machinery" and "Tender for Sewer Castings," respectively, will be received by the undersigned until 4 o'clock p. m. on MONDAY, APRIL 1ST NEXT.

The amount of security required will be fixed by the Mayor and Council after the tenders are opened, said amount to be not less than one-fourth nor more than one-half of the amount of the contract.

The Mayor and Council, also expressly reserve the right to reject any or all tenders should they deem it in the interest of the Town of Chatham to do so.

Specifications may be obtained from the undersigned, or from the engineers in charge, Messrs. Lea & Coffin, 53 State Street, Boston, Mass., on payment of \$2.00.

By order,

T. M. GAYNOR Town Clerk.

Chatham, N. B., March 15th, 1901.

CONTRACTS OPEN.

DICBY, N.S.—Orbin Sproul will erect a double tenement house.

DELTA, ONT.—A new house will be built by Thos. Hazleton.

WARTON, ONT.—George Atkey will build a residence this summer.

AMHERSTBURG, ONT.—The council will issue debentures for \$25,000.

WINCHESTER, ONT.—The village council propose erecting a fire hall.

TILBURY, ONT.—The flax mill by-law was carried here on Monday last.

ST. THOMAS, ONT.—The council propose issuing debentures for \$27,000.

SUSSEX, N.B.—George H. and S. H. White will build a woodworking factory.

VANCOUVER, B.C.—The council have decided to call for plans for new fire hall.

BATH, ONT.—Tenders close 22nd inst. for additions and alterations to Methodist church.

LAKEFIELD, ONT.—A scheme is on foot to establish a waterworks system here.

STOUFFVILLE, ONT.—A large brick building will be built this spring by J. B. Wurts.

CONESTOGO, ONT.—It is said that Peter Musselman intends building a brick house.

PEMBROKE, ONT.—It is reported that a rink to cost \$7,000 will be built during the coming season.

WOODSTOCK, ONT.—The town proposes laying 30,000 square feet of cement walks this summer.

ALVINSTON, ONT.—Joseph McTaggart

SEALED TENDERS, addressed to the undersigned, and endorsed "Tender for Hospital, Royal Military College, Kingston, Ont.," will be received at this office until FRIDAY, MARCH 29TH, inclusive, for the erection and completion of a Hospital Building, Royal Military College, Kingston, Ont., according to plans and specification to be seen at the Department of Public Works, Ottawa, and at the office of Arthur Ellis, Esq., Architect, Kingston, Ont.

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

An accepted cheque on a chartered bank, payable to the order of the Minister of Public Works, equal to ten per cent. (10%) of the amount of the tender, must accompany each tender. The cheque will be forfeited 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,

JOS. R. ROY,

Acting Secretary.

Department of Public Works,
Ottawa, March 7th, 1901.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

wants tenders by 6 p.m. of 21st inst. for erection of brick cottage.

WOLFVILLE, N.S.—The town will engage an engineer to prepare plans for a sewerage system.

CHATSWORTH, ONT.—The erection of a Presbyterian manse to cost \$2,500 has been decided upon.

LEAMINGTON, ONT.—J. Van Heck, of Listowel, has purchased property here on which to build a residence.

BRACEBRIDGE, ONT.—A movement is on foot to connect Bala, Port Carling and Bracebridge by telephone.

CARGILL, ONT.—Tenders close 23rd inst. for erection of two room brick school. Particulars from H. M. Cargill.

WILKESPORT, ONT.—James A. Taylor invites tenders up to Saturday, 30th inst., for construction of Dobie drain.

TANCRED, ONT.—John McCallum invites tenders up to April 6th for construction of Werden-McKellar drain.

WALLACEBURG, ONT.—A by-law to grant a bonus of \$30,000 for a beet sugar factory was carried here last week.

LINDSAY, ONT.—The council will make improvements to town hall to cost \$900, exclusive of plumbing and heating.

HESPELER, ONT.—The council will issue \$7,000 debentures. — Additional school accommodation is required.

HULL, QUE.—The town will ask the Provincial Government for power to borrow \$135,000 for public buildings, etc.

WHEATLEY, ONT.—It is rumored that a \$5,000 hotel will be built here next summer to replace the one recently burned.

TORONTO JUNCTION, ONT.—J. A. Ellis, architect, is preparing plans for the new school building to be built in ward 3.

ZURICH, ONT.—The Catholic congregation will build an addition and make improvements to their church, cost \$3,000.

SAULT STE. MARIE, ONT.—T. Hand, Pim street, has just taken tenders on new residence. Plans by W. R. Graham, architect.

PORT ARTHUR, ONT.—It is said that plans have been prepared for a million bushel elevator to be built by Mackenzie & Mann.

AYLMER, QUE.—Fred Schiller, of Brooklyn, N. Y., is negotiating for property here on which to build two summer residences.

NEWMARKET, ONT.—C. E. Cane talks of building a new residence this summer. — K. A. Smith will build an addition to his new arcade.

NORTH SYDNEY, N.S.—It is stated that the Nova Scotia Steel Co. will commence work on a steel and iron plant about May 1st.

OWEN SOUND, ONT.—J. W. Redfern will erect a dozen cottages on Paynter street, and C. A. Fleming half a dozen on Union street.

GAINEAU POINT, ONT.—A new vestry will be built in connection with the Catholic church; Rev. Canon Beauchamp, parish priest.

SMITH'S FALLS, ONT.—C. O'Reilly, owner of the Russell House, has purchased the Willcraft corner on which he will build a palatial hotel.

DRAYTON, ONT.—The by-law empowering the council to borrow \$5,000 for building a town hall was carried by the ratepayers recently.

WALNUT, ONT.—Offers are invited up to April 6th for purchase of \$1,096 5 per cent. debentures. Particulars from W. A. McDonald, treasurer.

VICTORIA HARBOR, ONT.—The Victoria Harbor Lumber Co. may build a brick and stone office and purchase another shunting engine.

TAESSALON, ONT.—A by-law to provide for the installation of an electric

light plant for the town will be submitted to the electors on May 6th.

PARKHILL, ONT.—J. Francis Brown, architect, of Toronto, is taking tenders for the reconstruction of a bank building here for T. L. Rogers.

LACHINE, QUE.—On behalf of the corporation, H. Roberts, secretary-treasurer, invites offers up to March 29th for purchase of \$213,000 of debentures.

PENETANGUISHENE, ONT.—A deputation from this place have asked the Minister of Public Works to make a grant for dredging the harbor.

PORTAGE LA PRAIRIE, MAN.—W. Fleming purposes erecting a new building.—W. Richardson intends building a commodious block this season.

ST. MARGARET'S, P.E.I.—Rev. Peter Curran will take tenders up to April 6th for building tower and completing the west end of St. Margaret's church.

PARIS, ONT.—Darling & Pearson, architects, of Toronto, have prepared plans for a new bank building in this town for the Canadian Bank of Commerce.

BANCROFT, ONT.—The fire protection being inadequate, the construction of a waterworks system to cost \$25,000 and the purchase of a fire engine are under consideration.

FREDERICTON, N. B.—The Municipal Bills Committee of the Provincial Legislature have passed the bill authorizing the county of Gloucester to issue debentures for \$12,000.

STRATFORD, ONT.—J. S. Russell, architect, is calling for tenders for a residence for Dr. J. A. Bothwell, of this city, and for school building for S. S. No. 9, Gore of Downie.

ORILLIA, ONT.—A committee has been appointed to solicit subscriptions for erection of a hospital, to cost about \$6,000. Particulars from A. B. Thompson, secretary.

CANNINGTON, ONT.—It is reported that George Woodward intends erecting a new building, and that a new block is contemplated at the corner of Laidlaw and Cameron streets.

GALT, ONT.—It is said that Puddicombe & Bishop intend building a large livery stable.—Shurley & Dietrich may build larger premises in which to manufacture harvest tools.

PICTOU, N.S.—J. W. Priest will build a dwelling house this spring.—It is reported that the harbor commissioners contemplate improving and extending the Acadia Co.'s wharf.

CORNWALL, ONT.—L. A. Ross, chairman Board of Water Commissioners, wants tenders by 8 p.m. of 20th inst. for erection of pumping station and installation of hydraulic plant.

CARBERRY, MAN.—The ladies of the town are taking steps towards the building of a cottage hospital.—H. A. Mannville will build a brick block, corner Main street and Third avenue.

ST. CATHARINES, ONT.—A by-law granting a bonus to the McKinnon Dash & Metal Works to induce them to build a large factory here, was carried by the ratepayers on the 14th inst.

FORKS ROAD, ONT.—Zenas Marr will receive tenders up to the 27th inst. for building brick school in S. S. No. 12, township of Wainfleet; brick and carpenter work to be separate contracts.

GLADSTONE, MAN.—Williams Bros. will build a warehouse, Mr. McLaren, of the Dauphin road, a terrace of dwellings, and Drs. Andrews and Shoultz contemplate enlarging the Commercial hotel.

PETERBOROUGH, ONT.—The Peterborough Hydraulic Power Co., capital \$50,000, has been incorporated, to develop a water power. W. G. Morrow, this town, and Hon. George A. Cox, Toronto, are interested.

BROCKVILLE, ONT.—Willis Chipman, C.E., of Toronto, has been engaged to design and superintend the proposed waterworks improvements and extension, for which the sum of \$50,000 is to be provided.

CAMPBELLTON, N.B.—It is hoped to commence work at an early date on construction of proposed sewerage system. Bids will be received by the town up to April 1st for purchase of \$5,000 debentures.

VICTORIA, B. C.—Toronto capitalists are reported to have decided to establish a large pulp mill on the upper main-land. John J. Palmer, of the Toronto Type Foundry, is reported to be one of the interested parties.

IROQUOIS, ONT.—On April 9th the ratepayers will vote on a by-law to raise \$20,000 by debentures for purchase and improvement of waterworks system. Willis Chipman, C.E., of Toronto, is consulting engineer for the village.

OSHAWA, ONT.—The Fire and Water Committee have recommended that the council at once ask for tenders for construction of waterworks and sewerage systems, upon plans prepared by R. E. Speakman, C.E., of Toronto.

PERTH, ONT.—Lanark and Renfrew counties will likely unite in the erection of a house of industry.—Among improvements to be made by the C. P. R. this spring will be the ballasting of the road-bed between Perth and Vaudreuil, at a cost of \$25,000.

NIAGARA FALLS, ONT.—Plans have been prepared for a new residence on Queen street for Mrs. A. G. Hill.—The clause to raise \$120,000 for waterworks system has been struck out of the town's bill by the Private Bills Committee of the Ontario Legislature.

MIDLAND, ONT.—Plans are being prepared for new building corner King street and Dominion avenue for Mr. Jeffery; three storeys, 50x100 feet.—R. Little, Thomas Chew and Mr. Grise will erect new residences this year, and the construction of the waterworks may be undertaken.

GUELPH, ONT.—L. C. Wideman, architect, invites bids up to Friday, 22nd inst., for erection of Presbyterian church at Fordwich.—Tenders have closed at office of W. F. Colwill for erection of residence in Fergus for J. J. Craig.—There is a movement on foot looking to the erection this summer of a new building adjoining Tovell's block on Upper Wyndham street, to be of brown stone, three storeys, to cost \$7,000.

QUEBEC, QUE.—The Quebec Railway, Light & Power Co. have decided to double track their line from Hedleyville to the Falls. It has not yet been decided which plan will be accepted for the projected elevator at Montmorency.—The Quebec & Lake St. John Railway Company have decided to build a railway from Valcartier to St. Catharines, distance four miles. An iron bridge about 500 feet in length will be required.

KINGSTON, ONT.—A deputation from this city have asked the Dominion Government to further dredge the harbor.—The building committee of Queen's University have considered the question of the central lighting and heating plant. The plans of Symons & Rae, architects, Toronto, have been accepted, and tenders will shortly be invited.—Mr. Storey, architect, has prepared plans for improvements to building on Ontario street owned by the Ontario Building Society. There will be metallic ceilings and hardwood floors.—Ald. McLeod is about to commence the rebuilding of his tannery.

LONDON, ONT.—Ormsby Graydon, city engineer, will receive tenders up to 4 p.m. of 21st inst. for supply of five steel fire escapes, 12 chemical fire extinguish-

ers, and 30 galvanized buckets for the Victoria hospital. — Herbert Matthews, architect, is preparing plans for three brick houses corner Piccadilly and Colborne streets for J. G. Richter. — W. E. Stevens, barrister, of Aylmer, has given notice of application for incorporation of the London, Aylmer & Port Burwell Electric Railway Co., with power to build an electric railway from London to Aylmer and Port Burwell. — Herbert Matthews, architect, has been notified by the Board of Education to prepare plans for two new schools in the city. — The Public Library Board have asked the city council for \$5,000 to build an addition to the public library.

HAMILTON, ONT.—The directors of the Victoria Yacht Club will make improvements to the building. — The city engineer has decided to postpone for this year the extension of the intake pipe at the filtering basin. — W. H. Gillard may build a large warehouse back of the Y. M. C. A. building. — The owners of the Right House are said to be negotiating for property on which to build a large addition. The Wood, Vallance Co. may build a large warehouse. — Building permits have been granted as follows: W. E. Watson, two brick dwellings on Canning street, between Wentworth street and Sanforth avenue, cost \$1,700; William & Walter Stewart, brick addition to Aylmer Canning Co.'s building on Mary street, cost \$3,000; William Brown, two brick dwellings on Pearl street, cost \$2,000. — Plans are being prepared by Darling & Pearson, architects, of Toronto, for new banking premises in this city for the Traders Bank.

WINNIPEG, MAN.—The School Board have decided to purchase a site near the corner of Nena and Notre Dame streets on which to build a new school. — Steps have been taken towards the erection of a parsonage for the Swedish Lutheran church and for the enlargement of the church building. Particulars from John Mattson. — In the spring work will be commenced on a large annex to the Clarendon hotel. — The city engineer has recommended that an extra artesian well be sunk at once to supplement the water supply; cost \$15,000. — Building in Winnipeg promises to be quite brisk this season. A number of business men are considering the erection of a large office building on the corner of Portage avenue and Garry street. The Lake of the Woods Milling Co. are about to commence their brick and stone block on McDermot avenue. Mackenzie & Mann have completed the purchase of a necessary property on which to build the proposed hotel and theatre. It is understood that Mr. Lennon intends building an hotel on corner of McDermot and Albert streets, and that the Toronto Type Foundry's new building, corner Arthur and King streets, will be three stories, 60x100 feet.

MONTREAL, QUE.—The road committee will ask for \$70,000 for the St. James street sewer, \$17,000 for repairs on Craig street east, and \$9,000 for repairs on St. Denis street. — The Montreal Park and Island Railway is said to have been purchased by the Montreal Street Railway Co.; road will be improved and extended. — The harbor commissioners are considering a proposition to erect their own elevators, and a loan of \$1,000,000 for the purpose has been suggested. — The Balmoral Hotel has undergone a change of ownership, and it is said that the new proprietor will spend \$10,000 this season on improvements. — The council of St. Henri has passed a by-law providing for a loan of \$200,000 to construct a tunnel under the Grand Trunk Railway track at St. Jean street, and another at St. Elizabeth street. — H. J. Tellier, of Tellier, Rothwell & Co., has purchased Elm Point at Point Claire, and intends building thereon a commodious summer

cottage. — Building permits have been issued as follows: M. Grant, two storey house, 9 Little St., Antione street, cost \$3,000; Estate of W. W. Ogilvie, four storey factory, Seigneurs street, cost \$5,000; Montreal Hide & Calf Skin Co., four storey factory, Albert street, St. Mary's ward, cost \$12,000; J. Lacombe, architect. — H. R. Falboird, architect, has prepared plans for an hotel at St. Jerome for L. Deschambault, cost \$4,000. — C. B. Patterson, architect, is taking tenders for three warehouses, corner St. Peter and Lemoine streets, for John Joseph, and for alterations to premises corner McGill and Notre Dame streets. — The Lachine Rapids Hydraulic & Land Co. have purchased property adjoining their sub-station and intend building thereon a fire-proof transformer house in the early spring. They will also construct a duplicate pole line to their power house at Lachine Rapids.

OTTAWA, ONT. — The Minister of Marine will shortly call for tenders from Canadian firms for building two steamers. — Robert Howe, Inspector Canadian Fire Underwriters Association, suggests that the city should purchase another fire engine. — Tenders close 28th inst. for purchase of \$505,000 city debentures. Particulars from N. Champagne, Chairman Finance Committee. — The building committee of the public school board have decided to call for new tenders for reconstruction of the Wellington street school, limiting the expenditure to \$35,000. — L. H. Lempert, architect, of New York, is in the city for the purpose of preparing plans for a new theatre to be built on Wellington street. C. H. Genslinger and T. Lindsay are interested. — Building permits have been granted as follows: Col. Macpherson, office and bakery, Somerset street, cost \$1,200; H. Hornshaw, frame dwelling, Third avenue, cost \$700; Robert James Mulligan, frame dwelling, Jane street, cost \$500; James Walker, brick veneered house, Patterson avenue, cost \$1,500; W. J. McGee, frame house, Adelaide street, cost \$800; Thomas Clarey, four brick veneered cottages, Gilmore street, cost \$8,000; Mrs. C. Trudeau, two solid brick dwellings, Stewart street, cost \$6,000; J. T. Moxley, double frame dwelling, 336 McLeod street, cost \$2,400; Robt. Thackray, brick building, Bank street east, cost \$4,000; F. C. James, brick veneered dwelling, 229 3rd Avenue, cost \$1,300; Mr. C. A. Dorion, brick veneered dwelling, 400 St. Patrick street, cost \$1,400; Emile Redman, frame dwelling house 19x24, 10 Adelaide street, cost \$400; John F. Stewart, double brick veneered tenement

38x26, with addition 14x16, Rochester street, cost \$2,000.

TORONTO, ONT.—S. G. Curry, architect, 90 Yonge street, wants tenders by 25th inst. for erection of house on South Drive, Rosedale. — The cost of a bridge over the tracks at the foot of Yonge street is estimated by the city engineer at \$152,000. — The plans for proposed new exhibition buildings are still under consideration by the committee of experts, but a decision will probably be arrived at in a few days. — The city engineer estimates the cost of cribbing the bank in front of the exhibition grounds at \$23,000. — The city engineer, in his last fortnightly report, recommended the construction of the following works: Cement concrete sidewalks—York street, east side, Queen to King street, cost \$2,256; York street, west side, Queen to King, cost \$2,346; Lorne street, west side, Front to Esplanade, cost \$424; Terauley street, west side, from 64½ feet north of Queen to 91 feet further north, cost \$273; Terauley street, west side, from 155½ feet north of Queen to Albert street, cost \$184; Beverley street, east side, Grange road to D'Arcy street, cost \$1,043. Asphalt pavements—Queen street, Don bridge to Canadian Pacific Railway tracks, cost \$28,385; Balmuto street, Czar to Bloor, cost \$4,350; Simcoe street, King to Front, cost \$16,000; King street, Bathurst street to Strachan avenue, cost \$30,390; King street, Strachan avenue to Armour street, cost \$17,070; Wellington street, Peter street to Clarence square, cost \$2,850. Brick pavements—Bathurst street, College to Bloor, cost \$22,840; Manning avenue, Robinson to Arthur, cost \$10,845; Grange avenue, Esther to Hackney, cost \$6,080. Sewers—Ritchie avenue, Dundas street to Hermann avenue, cost \$419; Maude avenue, from Perth avenue to West end, cost \$602. — It is understood that plans have been prepared for alterations and additions to

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We want to buy city, county, town and township Bonds, issued throughout Canada. Add. ccs
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Good Roads Machinery Co. (Registered)

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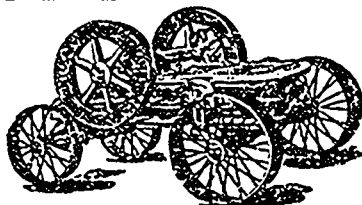
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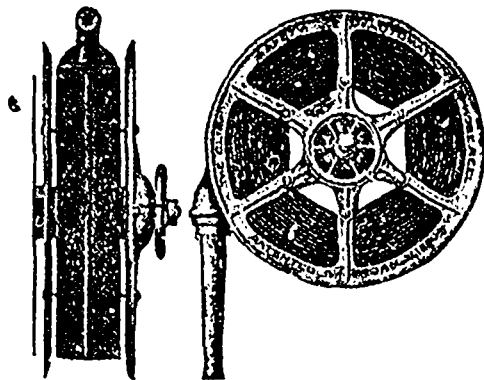
SAWYER & MASSEY COMPANY, Limited - Hamilton, Canada

the departmental store of W. A. Murray & Co. on King street.—J. F. Brown, architect, Board of Trade Building, is this week taking tenders for erection of a residence on South Drive, Rosedale. He is also preparing plans for a large hotel in Huntsville, for a factory for Firstbrook Bros., of this city, to be 80 feet wide and 300 feet long, and for residences on Berkeley avenue, Wheeler avenue, Dovercourt road and Avenue road.—Building permits have been granted as follows: Wind Engine & Pump Co., three-storey brick factory, Atlantic avenue, cost \$6,000; Thomas McIlwain, pair semi-detached brick dwellings, 39 and 41 Concord avenue, cost \$5,000; Isaac Ritchie, two-storey brick dwelling, 284 Macpherson avenue, cost \$1,750; Dr. Trotter, three attached two-storey and attic brick dwellings, east side Concord avenue, near Dewson street, cost \$2,700; J. R. Wells, two-storey r. c. bk. front and basement, Page avenue, cost \$1,000 (J. F. Bird,

architect); Wm. Prowse, two or two-storey and attic bk. dwellings, 602-4 Huron street, cost \$7,000 (Symons & Rae, architects; Wm. Prowse, builder);

W. R. Membry, bk. addition to store, s. e. corner Simcoe and Front streets, cost \$5,000 (G. M. Miller & Co., architects; Thomson Bros., builders).

CLIFF SAFETY AUTOMATIC REEL



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LONDON, CANADA

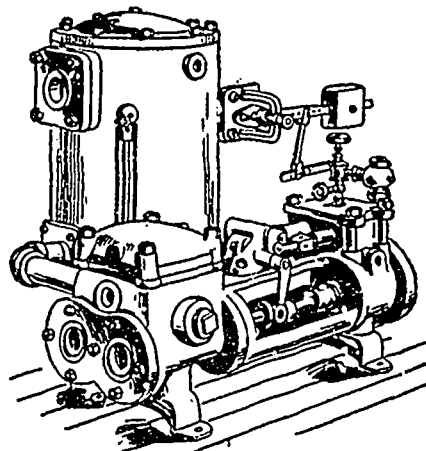
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WELLAND, ONT.

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

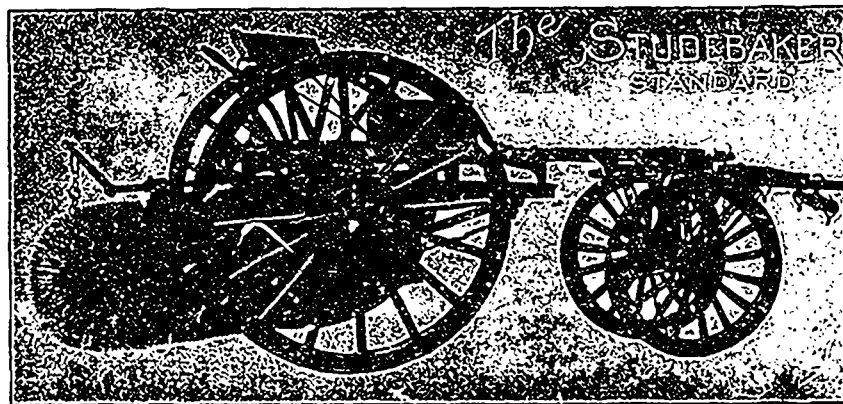
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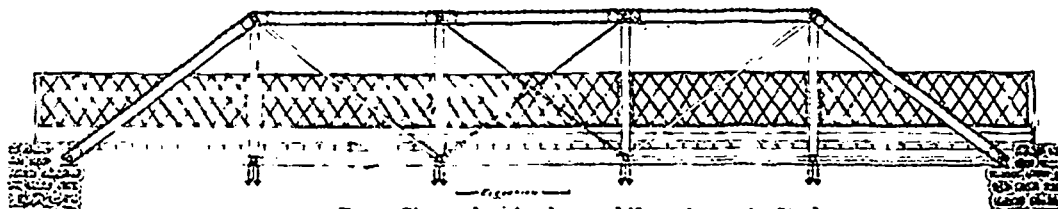
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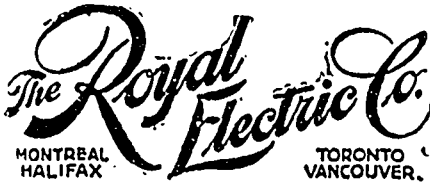
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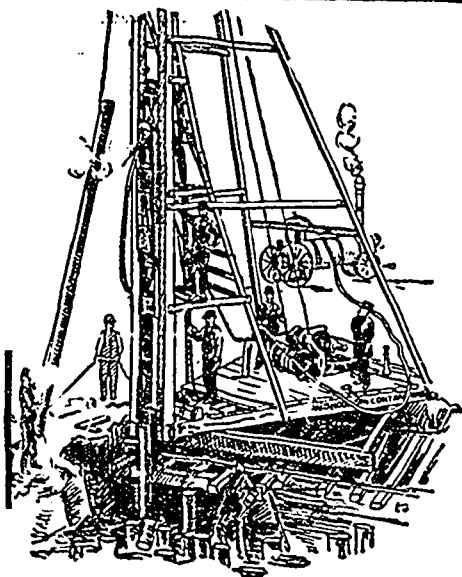
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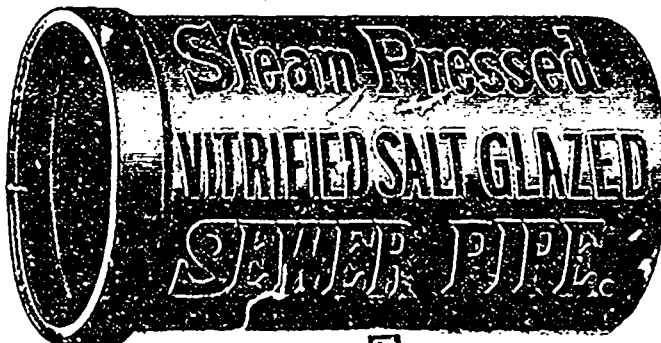
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FIRES.

Grist mill at Durham, N. S., owned by Smith Bros.—Saw and planing mill of George White at Inwood, Ont.; loss \$3,000.—Finklestein's general store at Dauphin, Man.; loss \$10,000.—Fire at Montreal, Que., on 16th inst. caused the following losses: Hudon, Hebard & Co., \$120,000; Leeming, Miles & Co., \$50,000; Sisters of the Hotel Dieu, \$25,000 on buildings.

CONTRACTS AWARDED.

SARNIA, ONT.—Granolithic sidewalks. William Ellis, successful tenderer.

LANSLOWNE, ONT.—Catholic church. Speigel Bros., of Westport, contractors.

VANCOUVER, B. C.—Brick block for Ah Wing: M. O'Keefe, of Victoria, contractor.

GALT, ONT.—Brick dwelling on South Water street for William Watson: James Patterson, contractor.

COLLINGWOOD, ONT.—Iron bridge over Grey's bridge: Williams & Follan, contractors.—Stone and brickwork of addition to Arlington hotel: Arthur Court, contractor.

ST. THOMAS, ONT.—Steel superstructure for Wilson bridge: Dominion Bridge Co., Montreal, successful tenderers, at \$21,600 for 28 foot roadway with 5 foot sidewalks on both sides.

MONTREAL, QUE.—C. B. Patterson, architect, has let contracts for stable and sheds on St. Etienne street for the Gall, Schneider Oil Co.—The Dominion Bridge Co. have secured contract for iron work of new convent at St. Laurent.

STRATFORD, ONT.—J. S. Russell, architect, has let contract for kitchen and dining room addition to City Hotel in this city to Ruston Bros. at \$1,512, and that for alterations and additions to residence at Little Lakes for Peter Robertson to Kalbfleisch Bros., of Tavistock.

MAYERSVILLE, ONT.—For construction of steel bridge over Nation river contracts have been let as follows: Substructure, Hugh Stewart, Ottawa, \$3,800; superstructure, Hamilton Bridge Co., Hamilton, \$3,915; approach, 70 feet at west end, G. W. Senisir, South Indian, \$373.

WINNIPEG, MAN.—Brick and stone warehouse for Stephens & Co.: Ritchie & Burnett, contractors, cost about \$20,000.—The masonry contract for construction of Canadian Northern bridge over Red river has been secured by Kelly Bros. The Carson Quarry Co., of Tyndall, will likely supply the stone.—Stone foundations and improvements for Albert school: C. H. Simpson & Co., successful tenderers.—Residence on Roslyn road for Hon. Mr. Justice Dain, Smith & Sharp, masonry, brickwork, etc.; Donald Bruce, carpenter work; C. & W. Plaxton, plumb-

ing and heating; Geo. Plaxton, galvanized iron; H. Ross, electric wiring and bells; Bell & Co., painters; Walter Chesterton, architect; cost \$7,468.75.

OTTAWA, ONT.—Tenders for waterworks supplies were received as follows, the first named in each case being the successful tenderer: Castings, per hundred weight—Thos. Lawson, \$2.20; A. Imlack, \$2.50; A. Fleck, \$2.50; Chaudiere Foundry Co., \$2.35. Oils, including various grades and cotton waste—McKinley & Northwood, \$75; McDougal & Curzen, \$75.50; E. J. Laverdure, \$79.50. Queen City Oil Co., per E. Olver, \$78.55. Lead pipe—Butterworth & Co., \$1,094; McKinley & Northwood, \$1,143.10; E. J. Laverdure, \$1,126.80; Blyth & Watt, \$1,196.50; Chaudiere Foundry Co., \$414.50. Brass goods—E. J. Laverdure, \$1,138.50; McKinley & Northwood, \$1,432. Hydrants, valves, etc.—Thomas Lawson, \$1,050; Chaudiere Foundry Co., \$1,056.50. Cast iron pipe—A. Fleck, \$7,200.—The following tenders were submitted for erection of contagious diseases' hospital: Masonry and brick work, G. A. Crain, \$13,200 (allowing \$600 for old brick at Porter's Island), accepted; Cavan Doran, \$13,235, (allowing \$1,000); Alex.

Garvock, \$14,182, (allowing \$800); Pat. Kennedy, \$15,300, (allowing \$750); Holbrook & Sutherland, \$16,561. Plastering, James McLaughlin, \$2,076, (accepted); F. Hunt, \$2,295; J. F. Mauncer, \$2,576; W. R. W. Williamson, \$3,100. Painting and glazing, W. J. Carson, \$2,000, (accepted); William Howe, \$2,020; J. B. Duford, \$4,167. Carpenter work, Holtby & Shearer, \$10,395, (accepted); Hugh Gilmour, \$11,795; W. H. McGilivray, \$11,988; J. & C. Lowe, \$11,999; A. Sparks, \$12,758; Taylor & Lackey, \$13,351. Plumbing, McKinley & Northwood, \$8,393, (allowing \$450 for old plumbing material on the island), accepted; Butterworth & Co., \$8,622.75, (allowing \$300 for material). Electric wiring and fixtures, O'Reilly & Murphy, \$307, accepted.—Two brick cottages on College avenue: Bedand & Denault, contractors.

The plumbing business of the late John Hanney at Smith's Falls, Ont., has been sold to Brown & Reid.

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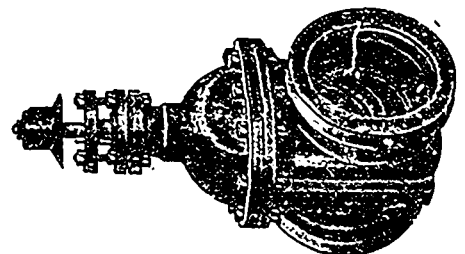


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Table with columns: Common Walling, Good Facing, Sewer. Lists prices for common brick types.

STONE.

Table listing prices for various stone types: Common Rubble, Large flat Rubble, Foundation Blocks, etc.

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LOCATING BORE-HOLES.

The general principles governing the placing of shot-holes have already been stated. It only remains to explain the method of procedure in special cases.

For further details on this subject see "A Practical Treatise on Hydraulic Mining," by A. J. Bowie; New York, D. Van Nostrand Co., 1889, and a paper on the Simultaneous Ignition of Thousands of Mines, by Julius H. Striedinger, in the Transactions of the American Society of Civil Engineers, New York, June, 1877.

should be exactly as long as the intended height of the bench. If the charge, the diameter of the hole and the line of least resistance are properly proportioned, the rock will break in an approximately perfect bench form.

When t = w m1 = 1/2 m.
t = 1 1/2 w m = 3/8 m.
t = 1 1/4 w m1 = 3/4 m.
t = 3/4 w m1 = 7/8 m.
t = 2 w m1 = in.

In shaft sinking or tunnel driving, if there is a persistent joint, or seam, advantage can be taken of it for the "unkeying or "breaking-in" shots.

The square center cut is shown in Fig 5, the small circles in the plan indicating the commencement of the hole. and the parallel lines the projection of the hole on a plane surface, revealing its position.

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