

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 Contractor in all lines throughout Canada.

Vol. 12.

JULY 24, 1901

No. 25

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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Telephone 2352.

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Advertising Rates on application.

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.

TOWN OF BERLIN.

Berlin Board of Works.

TO CONTRACTORS.

Tenders will be received by the undersigned up to noon on TUESDAY, 30th INST., for the construction of about 30,000 square feet Cement Side walk.

Specifications may be seen and forms of tender obtained at the office of the Town Clerk.

The lowest or any tender not necessarily accepted.

Signed) CASPER BRAUN,
Chairman Board of Works.

TENDERS FOR DEBENTURES

Sealed tenders, marked "Tenders for Debentures," addressed to S. H. McKay, Esquire, Mayor, Walkerton, will be received until MONDAY, THE 27th DAY OF AUGUST, 1901, at the hour of seven p.m., for the following Town of Walkerton Debentures, viz.: \$5,000.00 Waterworks, Sewers and Sundry Improvement Debentures, interest four per cent. per annum, issued on instalment plan, payable in twenty annual payments.

\$6,774.86 "Consolidated Debt Debentures," interest five per cent., payable half-yearly on 1st January and July each year, and principal on 1st January each year, issued under 53 Vict. Chap. 117.

Tenders will be received for both or either of the above issues and tenderers are requested to state a bulk amount payable on 15th August. The said debentures will be delivered at Walkerton to the party whose tender may be accepted within 30 days from receiving and opening tenders. The highest or any tender not necessarily accepted. All information required will be furnished on application to John Lee, Esquire, Town Treasurer.

Dated this 13th day of July, 1901.

W. S. GOULD,
Town Clerk.

WANTED

Architectural Draughtsman wanted at once. Box 26, CONTRACT RECORD.

TENDERS FOR DEBENTURES

Sealed Tenders will be received at the City Clerk's Office, Fredericton, N. B., addressed to the undersigned, up to THURSDAY, THE 25th DAY OF JULY INST., for the purchase of \$4,000.00 City of Fredericton City Debt Debentures, bearing date 24th July A. D. 1901, or falling due six years from date of issue, or 24th July A. D. 1907. These debentures are in sums of \$500.00 each, with coupons for interest attached, payable half-yearly at 4 per cent. per annum. The highest or any tender not necessarily accepted. For further information apply to the undersigned.

CHAS. W. BECKWITH,
City Clerk, Fredericton, N.B.
Fredericton, July 15th, 1901.

Tenders for Walks Village of Chippewa

Sealed tenders addressed to the Reeve will be received by the Corporation of the Village of Chippewa, Ont., until 4 p.m., WEDNESDAY, JULY 25th, 1901, for the construction of about 24,000 square feet of concrete sidewalks. Specifications may be seen and forms of proposal may be obtained at the office of the Reeve on and after Monday, July 22nd. Each proposal must be accompanied by a certified cheque for \$500.00 payable to the Treasurer of the Village, to be forfeited in case of refusal to enter into a contract awarded.

The corporation reserves the right to reject any or all tenders.

W. E. B. MCKENZIE, Reeve.
WM GREENWOOD, Clerk.
July 16th, 1901.



Sealed tenders addressed to the undersigned, and endorsed "Tender for Burlington Channel Works, Ont.," will be received at this office until FRIDAY, 9th AUGUST NEXT, inclusively, for the renewal of the superstructure of west end of south pier and sheet piling channel side of piers, at Burlington Channel, Wentworth County, Ont., according to a plan and a specification to be seen at the office of H. A. Gray, Esq., Resident Engineer, Confederation Life Building, Toronto, Ont., on application to the Postmaster, at Hamilton, at the Resident Engineer's office, Room 411, Merchants Bank Building, St. James St., Montreal, and at the Department of Public Works, Ottawa.

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

An accepted cheque on a chartered bank, payable to the order of the Minister of Public Works, for ten thousand dollars (\$10,000.00), must accompany each tender. The cheque will be forfeited if the party declines the contract or fails to complete the work contracted for, and will be retained in case of non-acceptance of tender.

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

By order,

FRED. GELINAS,
Secretary.

Department of Public Works,
Ottawa, July 13th, 1901.

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

TENDERS WANTED

Sealed tenders, marked "Tenders for Sidewalks," addressed to J. H. Fielding, Chairman Board of Works, Warton, will be received up to MONDAY, 19th AUGUST, 1901, at 5 o'clock, p.m., for laying between 60,000 and 70,000 square feet, more or less, of Granolithic Sidewalks in the Town of Warton. Plans and specifications may be seen at the office of the undersigned or at that of R. McDowall, C.E., Owen Sound. Tenders must be on forms supplied by undersigned, and be accompanied by a certified cheque. For full particulars apply to

W. J. FERGUSON,
Town Clerk.
Warton, 3rd July, 1901.

HARBOUR COMMISSIONERS OF MONTREAL

TENDERS FOR GRAIN ELEVATOR

Sealed plans, specifications and tenders, addressed to the undersigned and endorsed "Tender for Elevator," will be received at this office until NOON ON TUESDAY, 27th AUGUST, 1901, for the construction of a grain elevator of one million bushels capacity, with shipping conveyors, for the Harbour Commissioners of Montreal, particulars of which can be obtained upon application to Mr. John Kennedy, Chief Engineer.

An accepted cheque on a chartered bank, payable to the order of the Commissioners for \$25,000.00 must accompany each tender, the cheque will be forfeited if the party declines the contract, and in case a contract be entered into will be retained as part security for the completion of the work contracted for.

The cheques of the successful tenderers together with their plans and specifications will be returned to them within fifteen days of the above mentioned date. The Commissioners reserve the right to reject any or all of the plans, specifications and tenders received.

DAVID SEATH,
Secretary.
57 Common Street,
Montreal, July 17th, 1901.

CONTRACTS OPEN.

PALMERSTON, ONT.—A new brick school is to be erected in S.S. No. 6, Maryboro.

LANARK, ONT.—Work will shortly be commenced on the new Congregational church.

PETERBOROUGH, ONT.—The town may grant a site to the Canadian Cordage Mfg. Co. on which to build a factory.

VANCOUVER, B. C.—Plans have been completed by W. T. Dalton, architect, for addition to St. Paul's Hospital.

WINCHESTER, ONT.—N. W. Beach, village clerk, wants tenders by noon of August 3rd for erection of town hall.

NORTH TORONTO, ONT.—Z. Gadsby is arranging for the erection of two dwellings on south side of Sherwood avenue, Eglington.

BUCKINGHAM, QUE.—The James McLaren Company will construct large pulp and paper mills at this place, work to be commenced early in August. William Kennedy, C.E., of Montreal, will have charge of the hydraulic work.

KINGSTON, ONT.—Power & Son, architects, are this week taking tenders for alterations and improvements to General Hospital.

WOODSTOCK, N.B.—Tenders close August 1st for purchase of \$10,000 municipal debentures. Address J. C. Hartley, secretary treasurer.

COOKSHIRE, QUE.—N. S. Baker, secretary-treasurer of the municipality, will receive tenders up to August 1st for construction of bridge.

STOUFFVILLE, ONT.—It is understood that the Baptist congregation have purchased property on which to erect a new church next year.

PICTOU, N.S.—Tenders close 25th inst. for purchase of \$4,500 County of Pictou debentures. Particulars from John B. McQueen, municipal clerk.

ASHBURNHAM, ONT.—On August 10th the ratepayers will vote on a by-law to raise \$2,000 for the purpose of constructing additions to the water mains.

BASS RIVER, N. S.—The Union Furniture & Merchandise Co. will erect an addition to their premises here and to their warehouse at Londonderry Station.

SYDNEY, N. S.—The manager of the Dominion Iron & Steel Co. is said to favor the erection of a plate mill.—The site has been chosen for the new I.C.R. depot.

BROCKVILLE, ONT.—The Thousand Island Steamboat Co. are having plans prepared for two large side wheel steamers to be built for the opening of next season.

THREE RIVERS, ONT.—M. P. Davis, of Ottawa, J. C. Malone, of this place, and others, have purchased the gas lighting plant, and it is understood will install a new plant.

GANANOQUE, ONT.—The ratepayers are voting to-day on a proposition to honor the Morden Mfr. Co. to establish a factory here for the manufacture of office furniture and fittings.

GAITHER, ONT.—The Maple Leaf Harvest Tool Co. are negotiating to locate a factory here.—Dan McKenzie is building a dwelling on Rose street.—Clarke & Demill are about to erect a new building.

COBOURG, ONT.—The Town Council has voted the sum of \$18,000 for erection of new collegiate building, for which a site has been purchased. Power & Son, of Kingston, have been appointed architects.

LONDON, ONT.—H. C. McBride, architect, is preparing plans for a residence on King street for A.H. Tyler, also for a double house on Princess avenue.—Herbert Matthews, architect, is preparing plans for additions and alterations to Old Peoples' Home in this city, also for new store front on Talbot street for P. Bertwhistle, and two stores in Melbourne, Ont., for E. Richards.

PORT ARTHUR, ONT. It is the intention of the Council to construct a number of sewers.

MARMORA, ONT.—The village council are considering the question of street lighting.

HINTONBURG, ONT.—The question of installing a fire alarm is still under consideration by the Council.

SANDWICH, ONT.—The Saginaw Lumber Co., of Saginaw, Mich., are reported to have decided to build a saw mill here.

HAMILTON, ONT.—The Hamilton Radial Railway Co. will commence operations at once to extend their line from Burlington to Oakville.

RICHTHUCTO, N.B.—Bids are asked up to September 16th for purchase of \$16,000 4 per cent. municipal debentures. Particulars from L. J. Leger or F. S. Peters.

GRANBY, QUE.—It is rumored that A. C. Savage & Sons contemplate making extensive alterations and improvements to their block and putting in plate glass front.

ARNPRIOR, ONT.—Arthur Burwash, chairman Finance Committee, invites tenders until 8 p.m. of the 8th of August for purchase of \$50,000 waterworks debentures and \$25,000 sewerage debentures.

HUMBERSTONE, ONT.—On August 1st a committee of the Council will let the contract for building a concrete arch bridge on town line between Crowland and this place. Particulars from E. W. Fares.

SACKVILLE, N.B.—The Strathcona Coal Co., lately organized here, will equip the mine with first class machinery of a capacity to raise 200 tons per day. R. A. Borden, of Moncton, is one of the directors.

WINNIPEG, MAN.—Mr. Hangrave, engineer for the municipality of St. Boniface, has estimated the cost of building a bridge over the Red River to connect with this city at \$123,000.—A cedar block pavement will be constructed on Logan avenue from Princess street to Ellen street, at a cost of \$6,940.—The City Council has given notice of its intention to construct the following works: Sewers on Shurman street, cost \$6,500; on Dufferin avenue, cost 96,750; on Selkirk avenue, cost \$10,700; and on Kachael street, cost \$1,935. Asphalt pavements on portions of Balmoral street, cost \$21,970; on Princess street, cost \$10,940; on Elgin avenue, cost \$5,354. Cedar block pavement on lane between Elgin and Ross avenues, cost \$950, and on lane in block 4, between Verby and King streets, cost \$550.—The W. W. Ogilvie Milling Co. have decided to erect a warehouse on their property at Point Douglas to be 130x130 ft., two storeys. The present mill offices will also be enlarged and connected with the new building by a covered driveway.

ST. THOMAS, ONT.—E. N. Burroughs, of Guelph, intends locating a carpet factory here.—A Toronto syn-

dicate is negotiating with the St. Thomas Street Railway Co. and the City Council regarding the proposed extension of the railway to Port Stanley.

PORT ARTHUR, ONT.—J. M. Neelin, chairman of the Water Power Committee, invites tenders up to August 5th for construction of a timber dam on Current River and 1,900 feet of wood stave pipe and certain concrete work in the vicinity of the present electric power house. Plans at office of town clerk, this place, William Kennedy, Association Building, Montreal, and J. A. Ellis, architect, Toronto.

VICTORIA, B.C.—William Munsie is calling for tenders for erection of fifty cottages.—John H. Grey, C. E., is locating a proposed line of railway from Kitimaat to Hazelton, about 100 miles, the promoters being the Pacific, Northern and Omicron Railway Co.—Tenders are invited for addition to Centennial Methodist Church Sunday School building.—S. McClure, architect, has completed plans for a bungalow to be erected in Vancouver for Hon. Cecil Edwards, cost \$5,000.—A Seattle syndicate proposes to construct a \$3,000 bicycle factory in this city.—The City Engineer has submitted to the Council a plan for the substructure of the proposed Point Ellice bridge. Tenders will shortly be called for the superstructure.—Andrew Grey, of the Marine Iron Works, has invited tenders for an addition to his foundry, to be 75x60 ft.

OTTAWA, ONT.—The Ottawa Oatmeal Milling Co. has been organized here and will immediately commence the erection of a mill with 300 barrels capacity daily, also an elevator in connection.—The Department of Public Works invite tenders until August 9th for renewal of superstructure of west end of south pier and sheet piling at Burlington Channel.—A new boating club has been organized, of which J. C. Greenlees is secretary. Property has been purchased at Britannia on which to build a boat house.—Building permits were last week granted as follows: E. Reiftenstem, lot F, Rideau street, repairing dwelling, \$1,000; Thomas Hewlett, 31 Le Breton street, double tenement brick veneered house, \$1,200; Ellen Langdon, 4 Bay street, frame dwelling, \$800; Robert Fitzsimmons, 22 Hickey street, frame dwelling, \$700; Estate of Osis Potvin, 2 Bridge street, row of three dwellings and shop, \$3,500; University of Ottawa, stone building on University property, Wilbrod street, 62x33, cost \$4,500; Dr. Robillard, 28 Stewart street, alterations to and brick veneering house, \$800; Peter Kehou, 7 Kent street, frame double dwelling, \$1,600; J. Shearer, jr., 5 Patterson avenue, brick veneered dwelling, \$1,200.—William Kennedy, C.E., of Montreal, has consulted with the City Engineer in regard to the application of the Capital Power Co. for leave to construct power canals at the Chaudiere.

DATE OF PUBLICATION.

Architects, engineers, municipal authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

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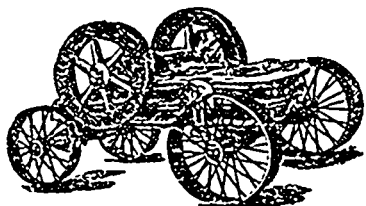
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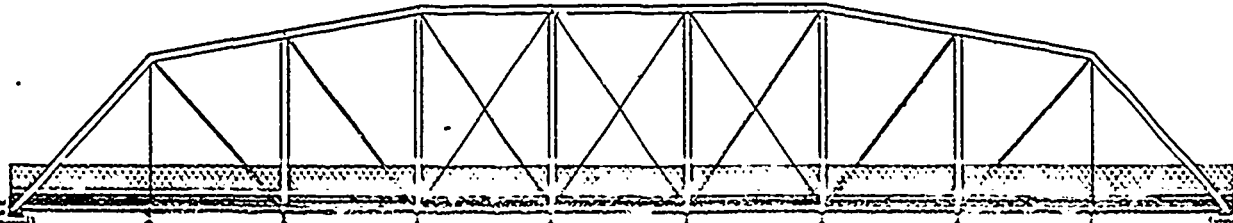
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AGASSIZ, B.C.—Tenders have been called for building new Presbyterian church.

SYDNEY MINES, N.S.—The School Board have secured a site for the new Academy building.

ST. BONIFACE, MAN.—The Council have decided to call for tenders for construction of sewers.

COATICOOK, QUE.—Tenders are invited by O. Shurtleff up to August 3rd for repairing school house.

BOWMANVILLE, ONT.—The Rehder Plating & Mfg. Co., of Thorold, Ont., will erect a factory in this town.

FERGUS, ONT.—Dr. Groves is understood to be getting new plans prepared for the private hospital to be built here.

BERLIN, ONT.—Arrangements are under way for the rebuilding of the Baxter-Galloway grist mill, destroyed by fire last spring.

WATERFORD, ONT.—The tenders for town hall were found to be too high, and the plans will be modified and new tenders invited.

WOODVILLE, ONT.—The congregation of the Presbyterian church are considering the putting in of new furnaces and new pipe organ.

CHARLOTTETOWN, P. E. I.—The time for receiving tenders for new Presbyterian church on St. Peters Road has been extended to August 1st.

NORTH SYDNEY, N.S.—It is stated that a Boston syndicate will at once commence the construction of an electric railway between Sydney and Glace Bay, at a cost of \$750,000.—The Dominion Government is being urged to erect a round-house and terminal facilities at this place.

GLACE BAY, N.S.—The town has invited tenders for installation of electric light plant and is considering the advisability of constructing a waterworks system.—Tenders close August 5th for purchase of \$30,000 corporation debentures. Particulars from M. McIntosh, town clerk.

ST. JOHN, N.B.—The City Council is considering the question of erecting a new city hall.

LITTLE CURRENT, ONT.—A by-law to raise \$1,500 for sidewalks and drainage was submitted to the voters on Monday last. Result not learned.

GUELPH, ONT.—The Guelph Provision Co. has been incorporated, with capital of \$25,000, and will build a pork packing factory on the outskirts of the city.

BROCKVILLE, ONT.—The city engineer has been instructed to visit a number of cities and report on the feasibility of constructing granolithic walks on a cheaper specification.

SYDNEY, N.S.—At the annual meeting of the Cape Breton Railway Extension Co., held in Montreal last week, it was decided to build branch lines to important coal and iron districts.

HALIFAX, N.S.—Officials of the Intercolonial Railway visited Halifax last week and decided upon improvements at Richmond and the deep water terminus. The improvements will represent an expenditure of \$200,000. A new round house will be erected opposite Mulgrave Park.

TORONTO, ONT.—Ald. Frame has given notice in council of a motion that a by-law be submitted to the ratepayers in January next to raise \$20,000 for a municipal asphalt plant.—S. H. Davis, architect, wants tenders from all trades for erection of store and house, 1294 Queen street west.—Mr. Frank Azaoldi, K.C., who has recently let contracts for a number of houses on Strickland Place, is considering the advisability of filling up the remainder of the street with new dwellings. His architect is Mr. Walter R. Strickland.—Plans of water power develop-

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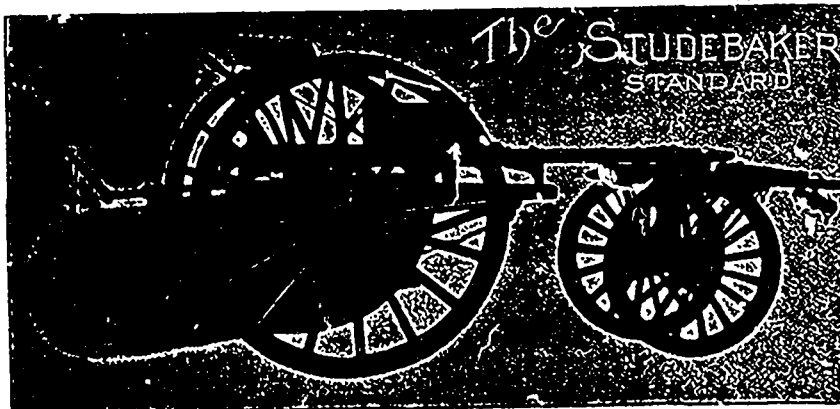
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ment work to be executed at Port Arthur, Ont., ere on view at the office of J. A. Ellis, architect, 91-2 Adelaide street east.—It is probable that an asphalt pavement will immediately be constructed on Simcoe street, south from King street, at an estimated cost of \$12,800.—It is reported that William & J. G. Greay, manufacturers of mill machinery, Church street, are looking for a site for a new factory.—It is probable that steps will be taken at once to strengthen the Scottish & Ontario Land Co.'s bridge in Rosedale, the City Engineer having reported it to be unsafe.—Building permits have been granted as follows: S. F. Aberdeen, two dwellings on Gladstone avenue, near Lindsay avenue, cost \$3,000; Dominion Bridge Company, iron workshop on Dufferin street, south of King, cost \$1,500; J. Jenkins, dwelling, north-east corner of Queen street and Waverley road, cost \$1,000.

MONTREAL, QUE.—The Harbor Commissioners have decided to erect a new million bushel steel elevator east of the Custom House, on the shore side of the wharf.—W. F. Doran, architect, has invited tenders for the demolition of houses at Nos. 30 and 32 McTavish street.—The Montreal Amateur Athletic Association are taking further steps towards the erection of a new club house.—The Royal Electric Co. will receive tenders up to July 31st for erection of new sub-station. Plans at office of Maurice Perrault, architect, 15 Lambert Hill.—Building permits have been issued as follows: E. Genjos, alterations to house, 348 Rachel street, cost \$825; A. Ramsay, alterations to house, 106 William street, cost \$1,721; Mrs. W. S. Patterson, alterations to house, 144 Drummond street, cost \$2,500 (James Nelson, architect); J. B.

Denis, two-storey house, 144 Drummond street, cost \$1,200; Bank of Montreal, three-storey dwelling, 601 street, cost \$6,000 (A. J. Taylor, architect, Norer & Bros., contractors). Nap. Vauchamp, alterations to house, 31 St. Hypolite street (Chas. Perras, contractor); J. B. Suellette, four-storey house, Souvent street, cost \$1,000 (James Sawyer, architect; A. Fauteux, contractor); William Ewing, three-storey house, 22 St. Maurice street, cost \$3,000 (A. M. Rodden, architect).

house, N.B.; heavy loss.—Warehouses of the Montreal Cotton & Wool Waste Co., 12 Nazareth street, Montreal, damaged to extent of \$12,000, covered by insurance.—Wain house of the Canada Hay Co., at Kingston, Ont.—Grist mill of Gardner & Tilhorne, at Aylmer, Ont., loss on building \$2,500.—Saw mill of Neilson Bros., of Proton Station, Ont., loss \$4,000.

CONTRACTS AWARDED.

VICTORIA, B.C.—Car sheds for the B. C. Electric Railway Co.; John Coughlan, contractor.

LOUISBURG, N.S.—New R. C. globe house; Mr. McAskill of Glace Bay, contractor; price \$3,700.

FIRES.

Two houses at Terrebonne, Que., totally destroyed, loss \$5,000.—St. John's Presbyterian church at Dal-



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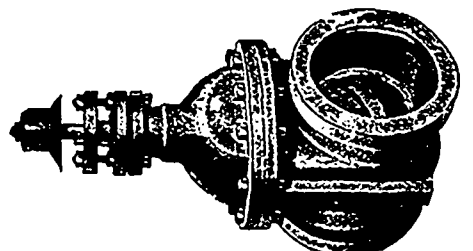
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WALKERVILLE, - ONTARIO

SAULT STE. MARIE, ONT.—Municipal debentures have been disposed of to A. W. Harrison, of Toronto.

RATHWELL, MAN.—The contract for the farmer's elevator has been let to James Robertson, of Winnipeg.

SYDNEY, N.S.—The tender of J. C. McIntosh, of Halifax, has been accepted for purchase of \$70,000 county debentures.

SUSSEX, N.B.—The tender of the Bank of New Brunswick for the purchase of municipal debentures has been accepted.

OTTAWA, ONT.—Narcisse Chevreuil, of this city, has secured the contract for construction of dam at St. Cesaire, Que.

SHERBROOKE, QUE.—The contract for the brickwork of the new opera house has been secured by D. G. Loomis & Sons.

GUELPH, ONT.—The Royal Artificial Stone Paving Co. have been awarded contracts for granolithic sidewalks at Exeter and Acton.

BROCKVILLE, ONT.—George Ross & Co., of this city, have secured the contract for plumbing work in the new C.P.R. hotel at Field, B.C.

NELSON, B. C.—The sale of \$100,000 worth of 5 per cent. debentures has been made to the Huron & Erie Loan & Savings Co., of London, Ont., at \$103,781.

ST. THOMAS, ONT.—The tender of Robert Sairbarin, Essex, has been accepted by the county engineer for re-grading of and cutting down the Fingall Hill; price \$1,674.

PARRY SOUND, ONT.—Johnson & Beveridge and A. R. Poulin have been awarded the contract for the first five miles of the James Bay railway from this town. The price is \$50,000.

PETERBOROUGH, ONT.—William Langford has secured the contract for the carpentering, glazing and painting of the American Cereal Co.'s buildings, and Bogue & McDiarmid that for brickwork and masonry.

QUEBEC, QUE.—J. B. Laliverte has let to J. B. Juchereau the contract for a seven-storey building on Defosses street, to be 45 x 100 ft., of granite and cut stone, with electric elevator, electric lighting, etc.; estimated cost \$40,000.

MONTREAL, QUE.—P. Lyall & Son have been awarded the contract for warehouse on St. Maurice street for W. Ewing, cost \$3,000; R. M. Rodden, architect.—T. A. Morrison & Co. were awarded the contract for supplying a rock crusher for the Ottawa & Hull Power Co., Hull, Que.—Perault & Lessage, architects, have awarded the contract for alterations to the La Press building, St. James street, to Lewis Beaudry.

ST. JOHN, N.B.—The following are the tenders submitted for building addition to jail: Tilley & Clarke, \$11,256 (accepted); John Edgett, carpenter work and painting, \$1,445; George McArthur, whole work, \$12,210; Sproule & Burley, mason work, \$7,975; B. Mooney & Sons, whole work, \$12,200; J. H. Doady, whole work, \$11,900. John E. Wilson, galvanized iron work, \$55. Freeze Bros., galvanized iron work,

\$45.—For building the immigration building at Carleton tenders have been accepted as below: Masonry, Tilley & Clarke; carpentry, John Adams; painting, J. H. Pullen.

LONDON, ONT.—Moore & Henry, architects, have let the following contracts for new Catholic church on Lyle street, East London: Mason and brickwork, John Hayman & Son; carpenter work, Tambling & Jones; galvanized iron, H. Boyd; slating, Jno. Whittaker.—The London Electric Co. have awarded contracts for new addition to works to the following contractors: Mason and brickwork, Joshua Garratt; carpenter work, architect, has let the contract for a lodge for Hon. James Sutherland, M.P., at Woodstock, to Mr. Griffith, Tambling & Jones.—H.C. McBride, contractor, of that place.

TORONTO, ONT.—Eight pairs of houses, Strickland Place, Parkdale, from plans by Walter R. Strickland, architect, costing \$12,000—Brickwork, C. H. Baylis; carpentry, Jeremiah Millar; plastering, Thos. Gander & Son; painting, F. E. Phillips; tin-smithing and roofing, Wheeler & Bain, heating, Pease Furnace Co.; plumbing, J. T. Aggett.—Two houses, Adelaide st., near Peter street, cost \$3,600 each: Brickwork, Chas. Bulley; carpentry, Miller & Hudson; galvanized iron work, Geo. Ringham; plas-

tering, Thos. Gander & Son, plumbing, J. T. Aggett; painting, F. E. Phillips; heating, Pease Furnace Co.

The City Engineer of Toronto has suggested to the Mayor a change in the description of the specifications for cement concrete sidewalks. He has had a good deal of trouble with the proportion of 20 per cent. of sand, and for the words, "four parts of sharp clean gravel, containing not more than 20 per cent. of sharp sand and three parts of screened gravel," substitutes "one part of approved clean, sharp sand and three parts of screened gravel, no stones to be over two inches in diameter."

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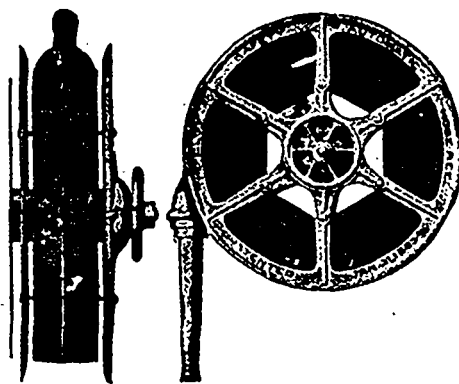
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The oil was applied hot, coming, in this instance, directly from the refinery three miles distant; starting with a temperature of 250 to 300 degrees Fahrenheit, and arriving on the road with a temperature of 200 to 250 degrees. It was used at the rate of 120 barrels to the mile. Late in the fall a second light application was made. Two men with four horses did this work, putting on one-half mile per day. In some experimental work the year before the county did not have a machine that would properly put oil on a hard, smooth road. It owned a machine, which was all right for dusty roads; but this was an entirely different proposition. The outlets in the old machine are 6 inches apart, and to cover the surface of a hard road with this required letting down enough oil to spread 6 inches, which is more than necessary, and even then there will be streaks and spots that are not covered. To get over this a man was sent after the machine with a street broom to spread the oil. This was a makeshift for experimental work. There was a waste of oil, and the spots that were not covered when the hot oil descended from the machine were afterward covered by the broom with comparatively cold oil. This did not penetrate as deeply as did the hot oil.

To remedy this Mr. White designed an entirely different machine with which the mile and a half of road just described was oiled. It is sus-

ended from the rear end of the oil tank. It is operated by levers and gauges; has outlets 3 inches apart, covered by gauges, by which any quantity of oil can be let out, from the minutest stream up to 200 barrels to the mile for an 18-foot road. With the levers and gauges the operator can regulate the quantity discharged to a nicety, and the width of application from 18 inches to 6 feet. The regulation of the quantity discharged is important, especially when oil is put on a road that has been oiled before.

The total cost of construction of this mile and a half closely approximated \$1,200 per mile. It has elements in common with the construction of any other road. First, the grading is the same, but in this instance rather heavy on account of the hill encountered. Then the graveling was done in the same way Mr. White would gravel a road not intended for oiling. But in this instance it may be noted that the gravel deposit was conveniently located along the road, making the haul short. We can then eliminate the only really new element, the oiling; and in this instance it cost 120 barrels of oil at \$1.25 per barrel, \$150, plus cost of application \$15, a total of \$165 per mile.

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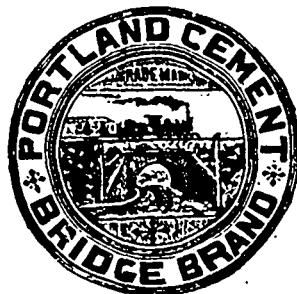
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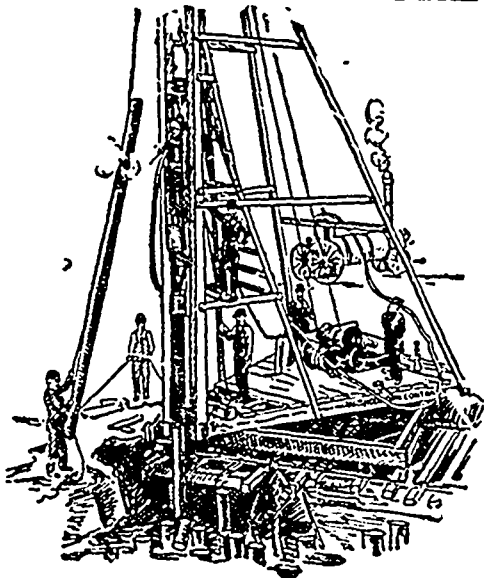
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