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CANADIAN CONTRACT RECORD

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

EVERY THURSDAY

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. 6.

MAY 16, 1895

No. 15.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY THURSDAY

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

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance.
G. H. MORTIMER, Publisher,

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Information solicited from any part of the Dominion regarding contracts open to tender.

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PLANS AND SPECIFICATIONS

Of two splendidly arranged homes, semi-detached, by one of Toronto's best architects: they include all modern improvements; will sell for less than half cost.
A. NORMAN, Davisville, Ont.

TENDERS WANTED

Tenders addressed to the Town Clerk, Berlin, will be received up to noon, May 29th, 1895, for

ELECTRIC LIGHTING

of the streets of the Town of Berlin, for a term of years. Each bidder must make his own proposition as to number of lights, service, etc.

The lowest or any tender not necessarily accepted. For further information apply to the undersigned,
HENRY WILDFONG,
Chairman Fire and Water Committee
Berlin, May 14th, 1895.

LANARK, ONT. Mr. Arnold is making preparations to rebuild his residence recently burned.

WELLINGTON, B. C.—J. J. Honeyman, architect, is receiving tenders for a new Foresters' Hall.

WINGHAM, ONT. A flax mill will be erected by Messrs. Livingstone, of Waterloo and Listowel.

FAIRVIEW, B. C.—The School Board has invited plans for a four-roomed school house. C. W. Murray, secretary.

ALLANBURG, ONT.—It is understood the Government have decided to rebuild the bridge over the old canal here.

PERTH, ONT.—The formation of a company to build a system of waterworks for the town is under consideration.

MATTAWA, ONT.—The Mattawa Electric Light & Power Co. are preparing the foundation for a new brick power house.

NELSON, B. C.—It is said that Montana parties are considering the feasibility of erecting a copper smelting plant here.

BERLIN, ONT.—The by-law to raise \$10,000 for erecting a market building was defeated by the ratepayers last week.

GANANOQUE, ONT.—Dr. D. H. Rogers proposes to erect a brick block on King street, plans for which have been prepared.

WATERLOO, ONT.—The Council propose to construct sewers on King street, George street, and from Pepler to Union street.

DARTMOUTH, N. S.—Building operations here are moving freely. Peter Douglas is making arrangements to erect a new house.

CYPRESS RIVER, MAN.—The Ogilvie Milling Co. will shortly commence the erection of a grain elevator here of 30,000 bushels capacity.

CARBERRY, MAN.—The by-law to raise \$11,000 for the erection of a new school house has been carried, and work will be proceeded with at once.

MIDLAND, ONT.—The Ontario Legislature has granted the sum of \$4,500 in aid of the Midland and Penetanguishene electric railway project.

DELTA, B. C.—The survey for the new dyke has been completed, and tenders will be asked in a week or two. Estimated cost from \$40,000 to \$50,000.

LEAMINGTON, ONT.—A by-law authorizing a loan of \$16,000 to construct works and supply the town with natural gas was sanctioned by the electors on Monday last.

KINCARDINE, ONT.—The construction of a granolithic sidewalk on Queen street is being considered by the Council, the Board of Trade having recommended the work.

PASPEBIAC, QUE.—George Romeril interviewed the Dominion Government last week urging assistance towards improving the harbor here and building a wharf for ocean steamers.

TENDERS FOR SEWERS

Sealed Tenders, addressed to the undersigned, and marked "Tender for Sewers," will be received by the Council of the Town of Cornwall until noon of the

20th Day of May, 1895,

For the construction of

The Leitch Creek Sewer and Branches.

The Main Sewer (over 3,300 feet long) to be of 24 inch Scotch tile pipe, and the branches (over 4,400 feet long) to be of 9 inch Scotch tile pipe.

The whole to be completed on or before the 1st day of September, 1895, according to plans and specifications to be seen on and after the 9th instant, at the office of the undersigned, where forms of tender can be obtained.

An accepted bank cheque, equal to 10 per cent. of the amount of the tender, and payable to order of the Corporation of the Town of Cornwall, must accompany each tender. This cheque will be forfeited if the party declines to enter into the contract; but it will be returned in case of non-acceptance of tender.

The lowest or any tender not necessarily accepted.

GEORGE S. JARVIS,
Clerk Town of Cornwall.

Town Hall, Cornwall, May 1, 1895.



Notice to Contractors

Tenders addressed to the undersigned will be received through registered post at the City Clerk's office up to noon of TUESDAY, MAY 21ST, 1895, for the carrying out of the following works, viz:

(1) Painting cert in buildings erected on the Exhibition Grounds, and

(2) The construction of drains in the Exhibition Grounds.

Specifications may be seen and all information given upon application at the office of the Park Commissioner (St. Lawrence Hall), between the hours of 9 a. m. and 4 p. m. on and after Tuesday, the 14th inst.

Each and every tender must be accompanied by a marked cheque made payable to the order of the City Treasurer, or a cash deposit equal to 2½ per cent. of the amount of the tender, if over \$1,000, or 5 per cent. thereof if under that amount, which deposit will be forfeited to the city in the event of the party or parties whose tender is accepted failing to execute the necessary contract and bond.

The lowest or any tender not necessarily accepted.

O. B. SHEPPARD,
Acting Chairman,
Parks and Gardens Committee.

City Hall, Toronto, May 10th, 1895.

CONTRACTS OPEN.

BISMARCK, ONT.—J. Collins, of Brantford, will erect a store here.

CAYUGA, ONT.—Judge Snyder is arranging to erect a large store.

NORWICH, ONT.—Trinity Church will erect a new school house and parish room.

LEVIS, QUE.—The construction of a dam on the Chaudiere river is talked of.

PETERBORO', ONT.—A four-roomed addition is to be built to the South Ward school.

BELLEVILLE, ONT.—Dr. Youker has purchased a lot on which he will erect a residence.

BROCKVILLE, ONT.—W. H. Comstock has given \$2,000 towards a new wing for the hospital.

PORTNEUF, QUE. The flour mill carried away by the inundation will be rebuilt shortly.



TENDERS

FOR

STEAM ROAD ROLLER

Tenders will be received by registered post only, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, THE 1ST DAY OF JUNE, 1895, for a

12 TON STEAM ROAD ROLLER, WITH COMPOUND ENGINES.

Forms of tender may be obtained at the office of the City Engineer on and after Wednesday, the 15th of May next. A marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent. on the amount of the contract price, must accompany each and every tender, otherwise it will be ruled out as informal.

Lowest or any tender not necessarily accepted.

DANIEL LAMB,
Chairman Committee on Works.

Works Dept., City Hall, Toronto, May 10th, 1895.

THAMESFORD, ONT.—St. Andrew's Presbyterian church will probably put in a new organ.

NANAIMO, B. C.—Tenders for the erection of the new court house here will be received by Hon. G. B. Martin, Chief Commissioner of Lands and Works, until the 31st instant.

CASSELMAN, ONT.—The bridge over the Nation river at this place is to be rebuilt at once. Mr. Shanley, C. E., is preparing the plans, and tenders will be called within a few days.

NIAGARA FALLS, ONT.—The corporation invites tenders until the 31st inst. for the purchase of \$6,000 of 5 per cent. 10 years municipal debentures. Address, M. B. Morris, Clerk.

KASLO, B. C.—Bids for the construction of the aerial tramway from the Silver King mine to Nelson will be received up to May 20. The contract will require the tramway to be completed within 90 days.

NIAGARA FALLS SOUTH, ONT.—Tenders are invited by M. B. Morris, Clerk, until Monday, the 20th inst., for the supply of 400 barrels of best Portland cement, delivered at the foot of Cherry street.

ST. JOHN, N. B.—The new brick and stone church for the Main street Baptist congregation will cost about \$16,000. Plans have been prepared by W. H. Mott, architect. The same architect is receiving tenders for a wooden building on Macklenburg street for Thos. Dobson.

ST. JOHNS, QUE.—A deputation from this town last week interviewed the Minister of Railways and Canals at Ottawa, pointing out that as the river bank of the town was taken away by the Chambly canal the Government should build culverts under the canal to take off the drainage.

QUEBEC, QUE.—The City Council has been asked to grant a subsidy of \$250,000 in aid of the Great North Road, a branch of the Parry Sound Railway. The request will be considered.—Tenders for heating the building of the Women's Christian Association are invited until Tuesday, the 21st inst. Address the secretary, 65 St. Anne street.

DORCHESTER, N. B.—The Dorchester Hotel Company, recently formed here, have purchased the Wilbur house at Dorchester Corner, and in about a month will replace it with a new structure. The building will be of wood, and will cost with site, about \$10,000. The plans will probably be prepared by R. C. Dunn, architect, of St. John.

KINGSTON, ONT.—E. R. Welch and Son have prepared plans of the pedestal to be erected in the City Park for the statue of Sir John Macdonald. It will be fifteen feet five inches high from the ground line, and will have in height thirteen feet of red granite, from the New Brunswick quarries. G. Newlands will build two brick houses on Alfred street.

GUELPH, ONT.—G. R. Bruce, architect, is asking for tenders until the 17th inst., for building a dwelling house for R. M. Lindsay, of Guelph township.—The necessity of laying a second water main or providing a stand pipe has been brought to the attention of the City Council.—The City Engineer has recommended the laying of cement concrete sidewalks on a number of streets.

BRANTFORD, ONT.—Hewitt & MacLaren, architects, are calling for tenders for a block 70 x 55 ft., to be erected in Cayuga, to be used for stores, dwellings and Masonic Lodge room, and built of pressed brick with stone trimmings.—H. A. Mellish, architect, is preparing plans and will call for tenders in a few days for a three-storey building for the proprietor of the Expositor, and also for the Oddfellows Lodge room, to be built of Credit Valley stone and pressed brick.

COLLINGWOOD, ONT.—The Corporation invites tenders until Tuesday, the 21st inst., for supplying the following cast iron water pipe and special castings: 3,000 ft. 4-inch pipe, 1,200 ft. 6-inch, 100 ft. 12-inch, with flexible joints, the 4-inch and 6-inch pipe to weigh 20 and 30 lbs. per foot respectively; also for 7 fire hydrants and 3 four-inch and 1 six-inch valve. Address James Guilfoyle, Chairman Waterworks Committee.

NEW WESTMINSTER, B. C.—A donation of \$10,000 to the Columbian Methodist College building fund has been promised on condition that the remaining \$15,000 be raised within a specified time. Rev. Principal Whittington will make an effort to secure the amount.—A proposal to construct a tramway to connect this town with Vancouver is being considered by local business men, who, it is understood, are backed by Montreal capitalists. The proposed line will run through Steveston and Sapperton and thence by Brunette river and Burnaby lake. The distance is about 26 miles. Further details of the scheme will probably be made known within the next two weeks.

MONTREAL, QUE.—Work has been commenced on the Bell Telephone Company's new building which is to be erected at the corner of St. John and Notre Dame streets. The building will cost half a million dollars.—The Harbor Commissioners will request the Dominion Government to grant funds for the completion of plan No. 6 of the harbor improvements, including the guard pier. A decision will be given in about a week.—It is said to be the intention of S. Carsley, dry goods merchant, to erect a nine-story building on St. James street.—The Sisters of the Holy Cross have decided upon erecting a new convent on Mount Royal avenue, opposite the church of the Fathers of the Holy Sacrament. The building will be four stories high, 150 x 50 feet.—Mr. W. E. Doran, architect is calling for tenders for a stone front house on Sherbrooke street for Mr. J. B. Gratton.

HAMILTON, ONT.—Wm. Stewart, architect, has been instructed to prepare plans for an old fashioned log house, with two large rooms, for the Wentworth Historical Society, to be built at Kent's Paradise.—The Sewers Committee has recommended the construction of a sewer on Sanford ave., at a cost of \$4,500.—A resolution from the Board of Health, requesting a report on plans for intercepting sewage was referred to the City Engineer, who is gathering data for the purpose.—Several representatives of engineering companies are making estimates on the cost of constructing the proposed tunnel for the Toronto, Hamilton and Buffalo Railway, with a view of tendering on the work. The line from Hamilton to Wellingford will be put under contract within a few days.—The Marion Steel Shovel Co., of Marion, Ohio, propose establishing a branch factory in Canada, and are looking for a site. Hamilton has been considered.

OTTAWA, ONT.—Wm. Rea, Secretary Public School Board, will receive tenders until Saturday next for the erection, including heating and ventilation, of a new school in Wellington ward, according to plans to be seen at the office of E. E. Horwood, architect, 51 Sparks st. Tenders will also be received at the same time for the heating and ventilation of the addition to Elgin street school, as per plans to be seen at the office of M. C. Edey, 51 Sparks street.—Tenders for rock and earth excavation required for waterworks extensions during the year will be received by the City Engineer until 4 p. m., on Tuesday, the 28th inst.—The Dominion Parliament passed the bill on Friday last incorporating the Deschenes Bridge Company, composed of W. J. Conroy, of Hull, J. R. Booth, John Christie and Wm. Anderson, of Ottawa. The company pro-

pose to construct a bridge 1,560 feet in length, at an estimated cost of \$300,000.

LONDON, ONT.—Tenders are invited until the 20th inst., addressed to John A. Roe, Chief of Fire Department, for one first-class hook and ladder truck, fully equipped, and one double-tank four-wheeled chemical engine, each tank to have a capacity of 50 or 60 imperial gallons.—George Craddeck, architect, is asking for tenders for a brick house.—Tenders are invited by the City Engineer until to-day (Thursday) for electric light wiring and fixtures for the City Hall.—The Superintendent of Waterworks has pointed out that increased water supply is necessary, and steps may be taken at an early date to provide additional pumping machinery.—The Trustee Board of the Queen's avenue Methodist church are asking for tenders until Wednesday, the 22nd inst., for the erection of their new church at the corner of Dufferin avenue and Wellington street. Tenders will be taken for both stone and brick. Plans may be seen at the offices of Burke & Horwood, architects, Toronto, and C. H. McBride, architect, of this city.

WINNIPEG, MAN.—W. Chesterton, architect, is preparing plans for alterations to Lord Brassey's building at Qu'Appelle, known as "The Home." The additions will include a reading-room, rectory and servants' block.—The new elevators to be erected by the Lake of the Woods Milling Company will probably be located at the following points: Moosomin, Winkler, Carl, Teesbank, Reston, Elva, Cypress, Franklin, Fleming, Oipestone, Hamiota, Neepawa and Virden. Work will be commenced during this month, and the total cost of construction will be about \$75,000.—The Northern Elevator Company are negotiating with the C. P. R. authorities to secure the erection of a large sorting elevator here. Besides this the Northern Elevator Company will erect five other elevators in different parts of the province.—The City Engineer will probably recommend the construction of a number of brick pavements on macadam foundations.—A scheme is under consideration for the drainage of St. Andrew's Marsh. It is proposed to reclaim about 125,000 acres of land between Rockwood and St. Andrew's by draining the bog through Navy Creek on the south, and by cutting a channel to the head of Stoney Creek to the north. It is expected that the cost will be about \$100,000. S. J. Jackson, M. P. P., is one of the principal promoters, and the subject is now before the Manitoba Government.—The City Council has under consideration the construction of a new waterworks system, the supply to be obtained from artesian wells. Dr. T. W. Drown, professor of the Massachusetts Institute of Technology, has prepared a report on the question, in which he states that about 40 miles of mains would be required for the present population. It is proposed to provide two pumping plants, of 4,000,000 gallons capacity each per day, fifty wells to be bored at different points, to be connected with a recrossing reservoir of 4,000,000 gallons capacity.—S. F. Peters, architect, is preparing plans for a warehouse for J. H. Ashdown, to be built on Bannatyne ave.

TORONTO, ONT.—Tenders are invited until Saturday next, the 18th inst. for the erection of a brick fronted house on Pape avenue. Plans may be seen at the office of John Poucher, 44 Yonge street Arcade.—The City Council has given notice of its intention to construct the following local improvements: sewer on Station street, from a point 300 feet west of York street to Simcoe street, cost \$433; asphalt pavement on Station street, from York street to Simcoe street, cost \$12,800; cement concrete sidewalks on both sides of Station street, between York street and Simcoe street, cost \$3,348.—A. R. Williams will erect a large addition to his

machinery depot on the Esplanade.—Tenders are invited by the city, addressed to the City Engineer, until Monday, the 20th inst. for the supply of 3,000 tons of large egg coal and 1,500 tons of soft coal.—The Tourists Bicycle Club have secured the Heward property on Bloor street, for a club house, and the work of making the necessary improvements and repairs will be commenced at once.—The City Council has made an appropriation of \$5,000 for additional accommodation at Lombard street fire hall.—The Gendron Mfg. Co propose to enlarge their factory on Duchess street.—Mr. Fred Mossop has purchased the Dog and Duck hotel on Colborne street and will make extensive alterations.—The scheme for the erection of a large hotel in this city has again been revived. Mr. G. W. Yarker, financial agent, is reported to have made arrangements with New York capitalists by which they agree to invest \$400,000 in the enterprise, and the citizens will be asked to subscribe the sum of \$200,000. The old Upper Canada College grounds is spoken of as the site.—Building permits has been granted to the Toronto Radiator Co. for a 2-storey bk. addition to factory, Dufferin street, cost \$5,000.

FIRES.

The residence of David Rouse, at Corn Hill, N. B., was destroyed by fire last week. No insurance.—Burn's portable steam saw mill, situated about two miles from Bloomfield, N. B., was burned on the 6th inst. It is said the mill will be rebuilt.—It is reported from Elmwood, Ont., that the extensive saw mills and furniture factory at that place, of the Elmwood Saw Mill and Furniture Company have been burned. The loss is placed at \$40,000, with a small insurance.—The Market Hotel and a brick dwelling at Harriston, Ont., owned by Mr. Weiland, were destroyed by fire on the 10th inst. Loss, \$1,500; insurance, \$1,000.—The dwelling house of T. Chevier at Brantford, Ont., was burned on the 12th inst; insured.—The three-story factory of the Langmuir Trunk Manufacturing Co., King street west, Toronto, was gutted by fire on Tuesday night last. The manufacturing part of the building was destroyed. The loss is placed at \$20,000, fully covered by insurance.

CONTRACTS AWARDED.

DASHWOOD, ONT.—The contract for building the new church here has been let to J. Kalbfleisch, at the tender of \$3,257. The work is to be completed by the first of November.

OSHAWA, ONT.—Ahearn & Soper, of Ottawa, have been awarded the contract for the construction and equipment of an electric railroad in this town, with an extension to Lake Ontario. The line will be about 6½ miles in length, and the contract price is said to be between \$175,000 and \$180,000.

TORONTO, ONT.—The Bennett & Wright Co., of this city, have been awarded contracts for heating R. H. Gray & Co.'s new warehouse on Wellington street west and for the Globe Hotel, Collingwood.—E. J. Lennox, architect, has let contracts as follows for additions to the Toronto Radiator Co.'s factory, cor. Queen and Dufferin streets: carpentry, Moir & McCaul; brickwork, Harrison & Lewis.

LONDON, ONT.—The contract for the erection of a mausoleum to the memory of the late Annie Pixley, has been awarded to D. McIntosh, of Toronto. It will be erected in Woodlawn cemetery, and will cost in the neighborhood of \$14,000. The designers are Moore & Henry, architects.—Contracts have been awarded for the building of the Dundas street Methodist church, but the names of the successful contractors have not yet been made pub-

lic. It is understood that Toronto firms will get the brickwork, carpentering and plastering.—A. Graham, of this city, has been awarded a large contract for laying granolithic walks in the city of St. Thomas.

KINGSTON, ONT.—The following tenders were received by the Council for iron piping for waterworks extension: Canada Pipe Foundry, Montreal, \$29.50 per ton; Drummond McCaul Pipe Foundry Co., Montreal, \$30.50 per ton; St. Lawrence Foundry Company, Toronto, \$29 per ton; J. Muckleston, \$29.75 per ton; Charles D. Chown (for Clendenning & Co., of Montreal), \$28.50 per ton. The contract for 20 tons was given to the St. Lawrence Foundry Company.

MONTREAL, QUE. The Road Committee have awarded the following contracts during the past week. Standard Drain Pipe Co., St. Johns, sewer pipes, Frothingham & Workman, bar iron \$1.50 per 100 lbs., band iron \$1.75, angle iron \$2.00, also cast steel and nails; B. J. Coghlin, Norway iron \$2.75, steel \$1.90; M. Campeau & Co., sewer on Duluth avenue, from Pantaleon to Cadieux sts., cross section 3x2, per lineal yard \$3.50, excavating for cross section \$9.50, re-filling \$1.73; F. McKeown, sewer on Brandon street, St. Antoine street to C. P. R., sewer \$5.79, rock excavation \$4; sewer on De Montigny street, Sanguinet to St. Elizabeth, sewers \$5.19, rock excavation \$4; M. A. Chartrand, Montana street, Roy street to Napoleon street, sewers \$5.35, rock excavation \$3.75; Robin street Beaudry to Visitation, sewers \$5.21, rock excavation \$3.75; O. Durocher, Milton street, St. Famille to St. Urban street, sewers \$4.84, rock excavating \$3.50; N. Gosselin, Marlborough street, sewers \$5.55, rock excavating \$4.06. The contracts for De Montigny street, from Cadieux to St. Urban street, and Coleraine street, from Hibernia to Liverpool streets, were not awarded.—G. W. Reed, contractor for the Atlantic and Lake Superior railway, has sub-let ten miles to Thos. Rogers, and fifteen miles between St. Gregoire and Gentilly, to Wm. Daly of Montreal, and L. Fosbrooke, of Sorel. The entire road will probably be sub-let during the present week. The contract for fencing from Point Levis westward has been awarded to James McCartney, C. E., of Montreal. The heavy bridges will probably be built by Mr. Reed himself, and the small ones sub-let.

WILLIS CHIPMAN, B. A. Sc.,
M. Can. Soc. C. E., M. Am. Soc. C. E.,
M. Am. W. W. Ass'n.
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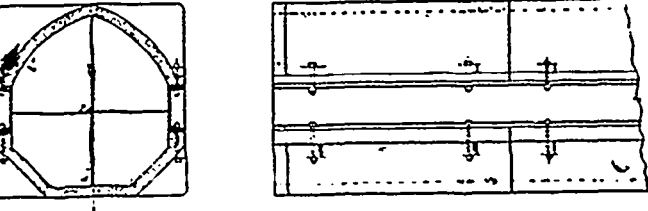
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Special attention given to Consulting and Municipal Work.
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WALTER MILLS, General Manager.

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

BUSINESS NOTES.

The firm of Payette & Co., contractors, Montreal, have dissolved.

A plumbing business will be carried on in Montreal by Egan & Co.

Cardinal & Staubin, plumbers, Montreal, have dissolved partnership.

F. W. Brown, plumber, St. Johns, Nfld., is reported to have made an assignment.

The assignment is reported of Frank Standen, contracting mason, of Toronto.

Colin McCalman, plumber, Vancouver, B. C., is reported to have made an assignment.

Craib & Stewart, builders, Woodstock, Ont., have dissolved partnership. Mr. Craib retiring.

The stock of Barsalow & Whitehill, plumbers, Brockville, Ont., is being offered for sale.

H. L. Debeck, hardware, New Westminster, B. C., has been succeeded by W. A. Cunningham.

J. & H. Taylor, railway supplies, Montreal, are said to be offering to compromise at 50c. on the dollar.

The announcement is made that Wm. Ashe, contractor, of Ottawa, is offering to compromise at 50 cents on the dollar.

It is reported that a consent of abandonment has been filed in the case of J. B. Rose & Co., metal merchants, Montreal.

G. J. Morton, plumber, Yarmouth, N. S., has admitted Harry A. Killam as a partner. The style is G. J. Morton & Co.

The following partnerships have been registered in Montreal: Desjardins & Dubois, painters; L. Taillon & Co., general contractors; Martineau & Preno-vean, mason contractors; Soucisse & Brouillette, general contractors.

Referring to the paragraph which appeared in the last issue of the CONTRACT RECORD, concerning the business difficulties of Messrs. John Fletcher & Son, it should be stated that Mr. John Fletcher retired some two years ago from the firm, which has since been carried on under the name of F. W. & E. A. Fletcher.

NEW COMPANIES.

WINDSOR, ONT.—Windsor Salt Co., applying for incorporation; capital, \$200,000. Sir Wm. Van Horne is one of the promoters.

GANANOQUE, ONT.—The Geo. Gillies Co., Ltd., applying for incorporation; to manufacture wares of iron, steel, nickel, metal or other composition.

TORONTO, ONT.—Heeson Rocking Gate Bar Company, Ltd., seeking incorporation; capital \$100,000; to manufacture a patent rocking gate bar; applicants, J. H. Bowes & Co., H. R. Frankand, W. A. Werrett and others.

MONTREAL, QUE.—Canadian Mining & Development Co., seeking incorporation; capital, \$100,000; to own and develop phosphate mines; applicants, N. K. Lafamme, A. C. Hanson, G. F. Warren, T. Dickson and Henry Joseph.

The Government of the Argentine Republic will shortly invite competitive designs from architects throughout the world for a new building intended for use of Congress. Three prizes will be offered for the best designs, one of \$20,000; one of \$10,000 and one of \$5,000. The architect receiving the first prize will be given the execution of the work.

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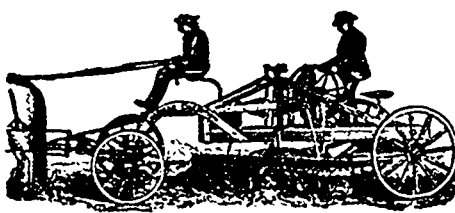
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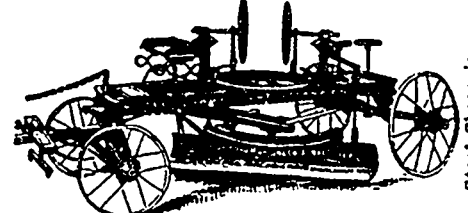
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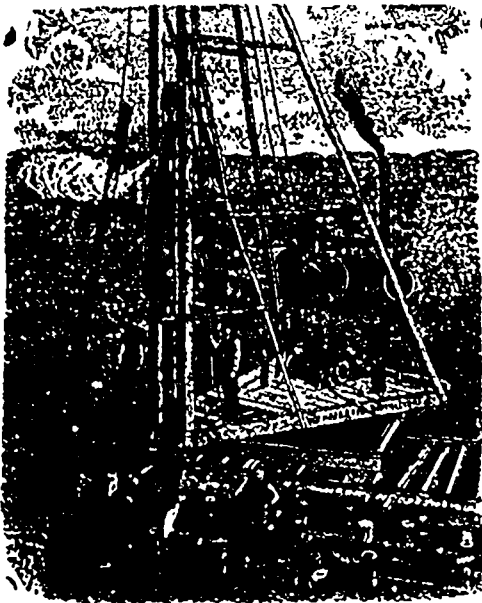
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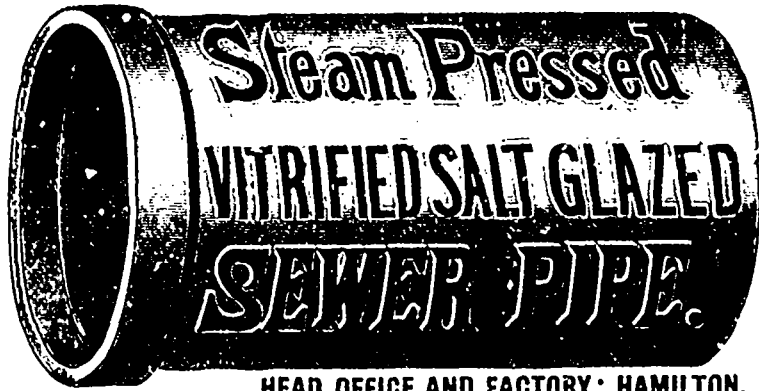
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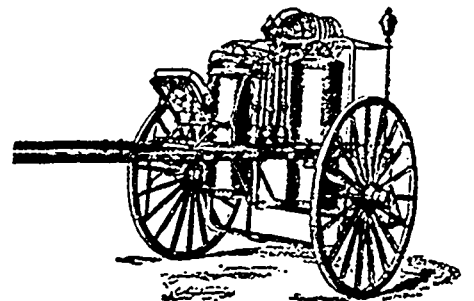
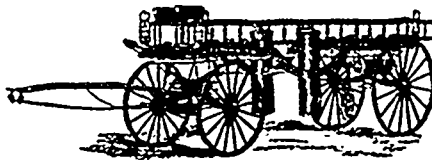
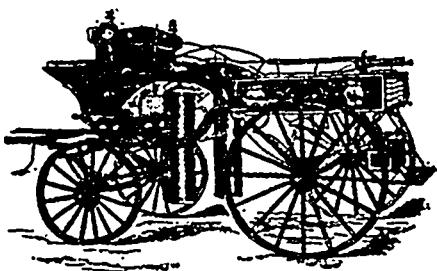
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No. III.

By GEORGE WHITE-FRASER, A. AM. INST. ELEC. ENG.

THE choice of electrical and steam machinery should be made with reference (a) to its electrical and mechanical excellence, and (b) to its commercial excellence—its price. As regards the power qualification, it is quite safe to say that only thoroughly educated electrical and mechanical specialists are competent to judge between machine and machine, and the unprofessional person who takes upon himself to judge which is the better out of two specimens, is about as likely to be right as a chimney sweep is to be a judge of horse-flesh. The development of the electrical science, however, has reached such a high point that, as a matter of fact, there really is not a great deal of difference between the various first-class makes of machinery, in point of technical excellence. There are to-day at least six quite distinct "systems" of electrical machinery and apparatus sold in Canada, between which a really impartial choice on purely electrical grounds, excluding all differences in price, could not be made; and the installation of any one of the six or seven, would give just as good results as would be obtained with any other one. The agents of the various manufacturing companys will, naturally, each one claim the undoubted superiority for his own system, and will be able to point out differences between his and another make, which he will refer to as attaining higher efficiency, and so on. First one will come along, and then another, and then a third, and each of them will praise his own and depreciate his rival's make, and the end will be that the purchaser is completely mixed up, and probably places himself unreservedly into the hands of that agent who possessed the highest eloquence, and the greatest personal magnetism, whether he represents one of the best makes or some new untried system. Now, this way of doing business is fair to nobody. The purchaser is very unlikely to know anything about electricity, therefore he is not a judge on electrical matters, and should not take the responsibility of a decision. The agent is certainly not a disinterested person, and so long as he sells his machinery his duty to his employers is done. The more machinery he sells, the more money he makes himself, and he certainly has not got that interest in keeping down the investment that the purchaser has who pays the money. It is not fair to the various manufacturing companies, because the exclusion of all other makes of machinery on the interested advice of a man whose income is derived from the commissions on the sale of one particular make, preclude all possibility of their

competing for the business on one common basis. It is not fair to the purchaser himself, because, by accepting a particular system on an agent's representation, he eliminates that competition that he should desire, and refuses to avail himself of the rivalry in the open market, whereby the price to himself would be lowered.

Now, it being simply a fact that there is no *best* electrical system, but several equally good from the technical standpoint, it follows that the system is best for the purchaser, that he can get *the best*, and the only way to find out which is cheapest is to invite tenders from all makes, instead of taking machinery because the man who sells it says it is the best. In inviting tenders in the open market, manufacturers should be placed on exactly the same footing, as to the size and quantity, &c., of goods required. Specifications should be very carefully made out by the purchaser's engineer, and all tenders required to conform strictly to them. When several proposals are made on one clear specification, then they can be referred to the same standard for comparison, and the decision takes consideration only of their financial clause, which must be more satisfactory to the average business man. It is a mistake to ask manufacturers to tender on their own specifications, i.e., to judge for themselves as to what is required, and tender for that. This method throws upon the purchaser, who probably is quite ignorant of technical matters, the responsibility of analyzing several proposals, made on quite different bases, embodying the ideas of several distinct engineers, and of reducing all this electrical and mechanical complexity to the only standard he can understand—that of price. Now, he is not competent to do this, so he does as before, just washes his hands of the whole worry, and gives the contract to that agent who has talked loudest and longest, or else blindly accepts the lowest tender, regardless of what is in it. This also is fair to no one. He is likely to get a second-rate make, because the more reputable companies, by doing better work, necessarily incur greater expense than the less solid concerns, and it is very unfair to reject a first class make of machinery, simply because some other company, by allowing less margin in their specification, bring their price a little lower. It is just as unfair and unwise, as it is to reject B's machinery and to select A's, because A says his own is good, and that B's is N. G. Hear what B has to say in the matter. The fair way, the most business-like way, and the best way, is for the purchaser to have specifications drawn up by a competent engineer, and to invite competition on that basis in the open market, choosing the tender with reference to its figure.

Mr. W. B. Dougherty has been appointed City Clerk of St. Thomas.

Mr Charles McMillan has been appointed City Clerk of Calgary, N. W. T.

The City Council of Victoria, B. C., will shortly appoint a city electrician. The salary will be about \$1,500 a year.

SEWAGE DISPOSAL IN ONTARIO.

By R. W. THOMSON, B.A.Sc.

THE subject of sewage disposal is becoming of such universal interest that a short sketch of the influences at work and the results accomplished in this direction in our own province, may not be out of place here.

For years sanitarians in different parts of the the civilized world, more particularly in Europe and America, have been wrestling with the problem of "sewage disposal," as applied to the requirements of their particular country.

In a new country, where population is sparse, and the accumulated wealth is not sufficient to warrant expenditure in the extravagances and refinements, or even the conveniences, of life, the question of sewage disposal is not forced upon the the people; but as soon as the population has reached a point of development into towns and cities, so soon do the ordinary laws of health demand artificial means for the removal of the offensive products of civilization from the immediate vicinity of such town or city, and in such a way that its disposal shall not interfere with the rights or privileges of any other place, or even any individual.

In the case of seaport cities, the easiest and most economical method is, doubtless, to run the sewage directly to the water, trusting to the diluting and purifying power of this to render it harmless. Even in the case of inland cities situated on lakes or other large bodies of water, this method is often the most expedient, if not the most sanitary. However, so eminent an authority as Col. Waring, writing on subject, says: "So firmly do I believe it to be wrong to wash the organic wastes of our lives into the sea that I should hesitate even to recommend such a course, were it not for the greater wrong of keeping them in a putrescible form in the vicinity of dwellings."*

In the cases mentioned the greatest sufferer from any nuisance that might arise, such as the fouling of its water front or the contamination of its water supply, would be the community itself, and so long as these unsanitary conditions did not become sufficiently marked as to be prejudicial to the health of the community, no exception should be taken to this method of disposal. But these are not the conditions that obtain in the majority of towns and cities in Ontario, which are situated on a river or other small stream, the pollution of which means the contamination of the water supply of, or the creating of a nuisance to, other places down the stream. This condition involves the question of the consideration of the rights of others, and to such an extent that we would expect to find legislation bearing on the matter. As long ago as 1888, the authority before quoted, writing in this connection, said: "The indications are clear that legislative control of this matter cannot long be delayed, and there is no more intricate or interesting problem now presented to the sanitarian than the correct solution of this great question of the future."

(To be Continued.)

*"Sewerage and Land Drainage," by Waring.

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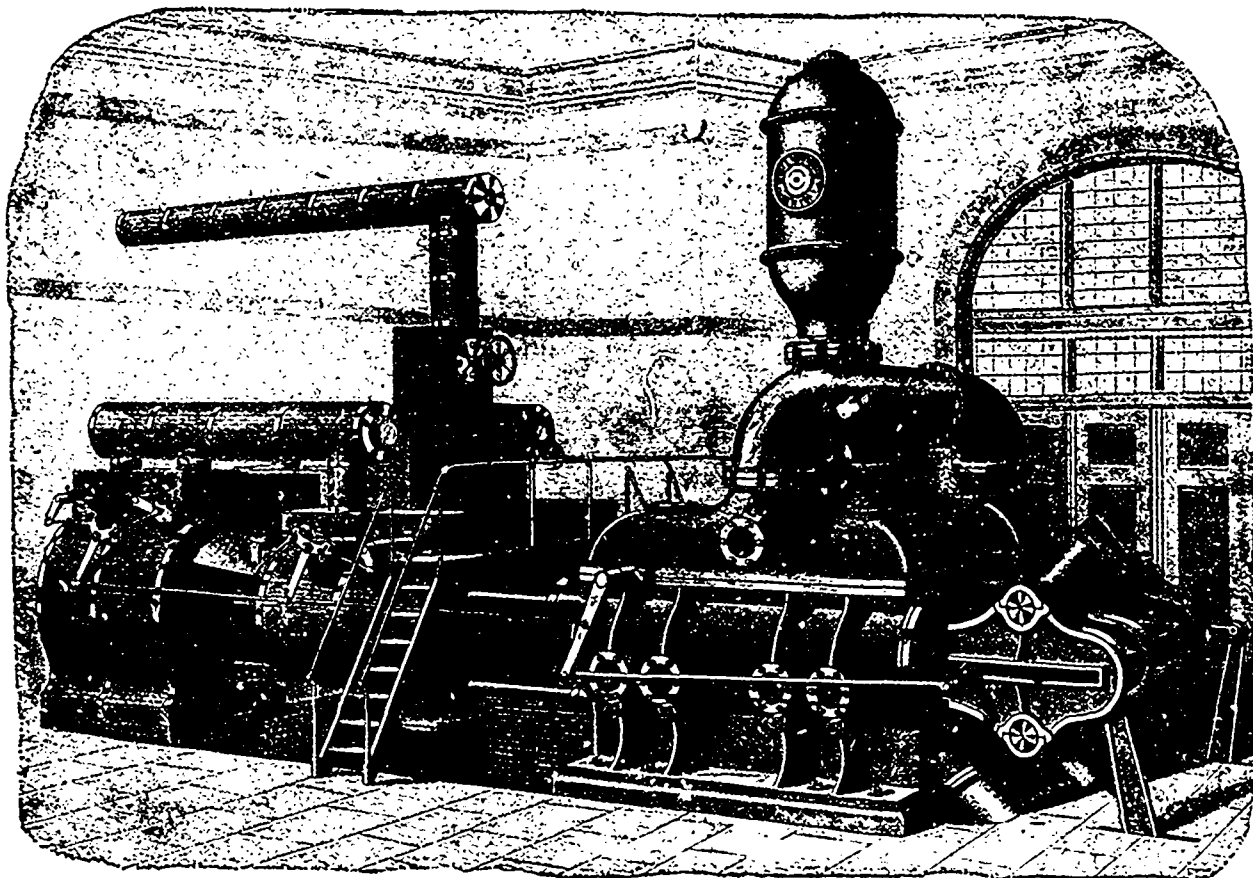
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CONDITION OF THE MARKET.

TORONTO: During the past week trade has been steadily improving, particularly in the city. A few changes in quotations have taken place, Portland cement having dropped about 10 cents per barrel. The arrivals of imported cement are large. Firebricks are quiet and unchanged. Galvanized iron and iron pipe are moving freely, shipments of the latter having arrived during the week. Stocks of glass are low, and arrivals are expected daily.

MONTREAL: The volume of business for this season of the year is in excess of the same period last year. Builders' hardware maintains a fair degree of activity, there being a good demand for wire and cut nails. A fair trade is doing in plumbers' supplies, with no special feature to note. Business in firebricks is good, and prices steady. A good demand is reported for cement for future delivery. Glass is quoted at \$1.15 to \$1.20 for first break, and \$1.25 to \$1.30 for second.

LUMBER.

CAR OR CARGO LOTS.

Toronto. Montreal.

Table with columns for Toronto and Montreal prices for various lumber types like clear picks, three uppers, pickings, etc.

VAID QUOTATIONS.

Table listing various lumber products and their prices, including mill cull boards, shipping cull boards, hemlock scantling, etc.

B. M.

Table listing lumber products under 'B. M.' category, including dressed, rough, and undressed lumber, and various shingles.

Toronto. Montreal.

BRICK-M

Table listing brick prices for various types like Common Walling, Good Facing, Sewer, Pressed Brick, etc.

SAND.

Table listing sand prices per load of 1 1/2 cubic yards.

STONE.

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

OHIO FREESTONE, FROM THE GRAPTON STONE CO.'S QUARRIES.

Table listing Ohio freestone prices for various types like No. 1 Buff Promiscuous, No. 1 Blue Dimension, etc.

SLATE.

Table listing slate prices for roofing and ornamental black slate.

PAINTS. (In oil, @ lb.)

Table listing paint prices for various types like White lead, Red lead, Yellow ochre, etc.

CEMENT, LIME, etc.

Table listing cement and lime prices for various types like Portland, German, London, etc.

Toronto. Montreal.

Table listing cement prices for various types like Belgian, Canadian, Roman, etc.

HARDWARE.

Table listing hardware prices for cut nails, steel, and various types of nails.

PINK BLIND NAILS.

Table listing pink blind nail prices.

CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.

Table listing casing and box nail prices for various sizes.

FINISHING NAILS.

Table listing finishing nail prices for various sizes.

SL TING NAILS.

Table listing slating nail prices for various sizes.

COMMON BARRRL NAILS.

Table listing common barrel nail prices for various sizes.

CLINCH NAILS.

Table listing clinch nail prices for various sizes.

SHARP AND FLAT PRESSD NAILS.

Table listing sharp and flat pressed nail prices for various sizes.

STEEL WIRE NAILS.

Steel Wire Nails, 75, 10 and 5% discount from printed list.

Iron Pipe:

Table listing iron pipe prices for various diameters and lengths.

Lead Pipe:

Table listing lead pipe prices for various diameters and lengths.

Galvanized Iron:

Table listing galvanized iron prices for various types like Adam's-Mar's Best, etc.

Structural Iron:

Table listing structural iron prices for steel beams, channels, angles, etc.

(Corrected up to May 14th)