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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. 9.

FEBRUARY 10, 1898

No. 2.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY THURSDAY

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

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G. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO.

Telephone 2362.

New York Life Insurance Building, Montreal.

Bell Telephone 2299.

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

Advertising Rates on application.

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TENDERS FOR PUMPING PLANT

Tenders are asked for the supply and erection in place of a pumping plant for the Pike Drainage Works and Extension, in the Township of Raleigh. The plant must be capable of lifting and discharging 20,000 imperial gallons of water per minute, with a lift of 6 feet.

Tenders may be for plant and station, complete and ready for duty, incorporating as much of the present old plant as can be properly utilized in the same. Tenders not later than

12th Day of February, 1898

Tenders to be accompanied by full specifications. No tender necessarily accepted. Address

N. SHEPLEY,
Reeve of Raleigh,
Charing Cross, Ont.

TENDERS FOR STEEL BRIDGE

Tenders will be received by the undersigned till 3 o'clock p.m. FEBRUARY 23RD, and opened at 10 a.m. FEBRUARY 24TH, at Tara, for the erection of a Steel Bridge, 100 ft. c. to c. of end pins; roadway 18 ft. clear, one sidewalk 6 ft. wide; moving load, 200 lbs. sq. foot.

Also for about 100 cubic yards Masonry: quarry stone, rock finish, to be built with Cement Mortar. State price per cubic yard.

Bridge about 50 yards from railway siding. The lowest or any tender not necessarily accepted. A cheque for \$200, marked good payable to the Treasurer of County of Bruce, to be sent with each tender.

Further information may be had from James Warren, Engineer, Walkerton, or from the undersigned.

ANDREW FREEBORN,
Invermay.

Tara, Feb. 3rd, 1898.

TENDERS

Will be received up to TUESDAY, 15TH INST, for Roofing, Galvanized Iron, Painting, Glazing, Pumping and Heating Works in connection with the erection of a House, corner St. George and Lowther Ave., for Mr. Caleb Evans.

The lowest or any tender not necessarily accepted.

GEO. M. MILLER & CO., Architects,
18 King St. E., Toronto.

TENDERS

FOR

Cast Iron Water Pipe

FOR CITY OF ST. JOHN, N. B.

Tenders will be received by the "Board of Management" of the Department of Public Works, at their office, in the city of St. John, until FRIDAY, THE FIRST DAY OF APRIL, 1898, at 12 o'clock, noon:

For the supplying of about 3,216 tons of best quality 24 and 12 inch Cast Iron Water Pipe, according to the specification and drawings prepared by Wm. Murdoch, Esq., C.E., Engineer and Superintendent S. and W. Supply, copies of which specification may be had on application to the director.

Tenders must be made on form furnished by the department.

The board do not bind themselves to accept the lowest or any tender.

Each tender must be accompanied by a certified bank cheque or deposit of money amounting to five hundred dollars (\$500), said amount to be forfeited should the party to whom the pipe is awarded decline to enter into contract; and a further deposit equal to five (5) per centum on the estimated full value of contract at prices named in bid, will be required to be made on entering into contract, this deposit to be forfeited should the party receiving the contract refuse to proceed therewith, or fail to complete the work as required by specification and drawings.

A. CHIPMAN SMITH, Director.

Board of Management, Department of Public Works,
St. John, N.B., Feb'y 4, 1898.

BUSINESS NOTES.

Adam Johnston, bricklayer, Smith's Falls, is announced to have assigned to Ogle Cars.

W. J. Peters, contractor, Quebec, is said to be offering to compromise.

The assets of the Beamsville Pressed Brick Company will be offered for sale at Hamilton on Tuesday, February 15th.

Andrew Rogers, plumber, Hamilton, is announced to have assigned to C. S. Scott, with liabilities of \$3,800, and assets of \$4,500.

In order to correct possible misapprehension, we beg to state that the business of the Hamilton Bridge Works Co. is in no way affected by the failure of the Hamilton Iron & Steel Co., referred to in a recent issue of this paper.

The Iron Founders' Association of Montreal have elected the following officers for the ensuing year: Walter H. Laurie, president; Jos. Amesse, 1st vice-president; J. H. Garth, 2nd vice-president; H. R. Ives, honorary treasurer; Wm. Greig, honorary secretary; Geo. H. Weaver, secretary-treasurer.

Send for a copy of the CANADIAN CONTRACTOR'S HAND-BOOK. Price \$1.50; 19 subscribers \$1.

IMPORTANT NOTICE

With the object of conveying information more promptly to subscribers, and thus increasing the value of the CONTRACT RECORD, it has been decided to change the publication day from Thursday to Wednesday of each week. Commencing with the issue of February 16th, the CONTRACT RECORD will be published

EVERY WEDNESDAY MORNING.

To ensure insertion in the current week's issue, advertisements and news items must reach the office of publication not later than TWO O'CLOCK ON TUESDAY, as the paper will go to press at 3 p. m. in the afternoon of that day.

Architects, Municipal Officers and others are asked to kindly note the above change, and to forward matter for publication in accordance therewith.

CONTRACTS OPEN.

OLINDA, ONT.—O. M. Bruner will erect a residence on his farm.

JASPER, ONT.—There is talk of a cheese factory being built here.

BAYFIELD, ONT.—Wm. Jollet is preparing to build a residence.

TAVISTOCK, ONT.—It is proposed to erect a new school building.

NORMAN, MAN.—It is stated that large flour mills will be erected here.

PORIAGE LA PRAIRIE, MAN.—A large grain elevator will be erected here.

MORRISTON, ONT.—The building outlook in this vicinity is considered good.

LYN, ONT.—Seeler's school section purposes building a brick school-house.

MONCTON, N. B.—P. N. Crandell intends erecting a new building in the spring.

MITCHELL, ONT.—A new brick building will be erected next summer by Dr. Wood.

MOSCOW, ONT.—Fred Clark is making preparations to build a residence in the spring.

ACTON, ONT.—W. P. Campbell will build two frame houses during the coming summer.

BRUCEFIELD, ONT.—Tenders will be asked for at once for the erection of a new Sabbath school building.

MOOSE JAW, N. W. T.—It is expected that the C. P. R. will build a new station here. There is also a rumor that J. H.

Kern, of the Brunswick Hotel, intends erecting a new hotel building.

KINKORA, ONT.—Edward Brown will build a brick residence on his farm east of this village.

BRANTFORD, ONT.—There is a strong agitation in this vicinity in favor of improving the roads.

SUSSEX, N. B.—It is rumored that S. H. White & Co. will erect several new buildings next summer.

TILBURY, ONT.—The Kent county council have decided to build a new iron bridge over Baptiste Creek.

BERLIN, ONT.—The Lang Canning Company will shortly commence the erection of a large tannery here.

CHICOUTIMI, QUE.—Jos. D. Guay and Jos. Gagnon contemplate building an electric railway in this vicinity.

AYLMER, QUE.—St. Paul's church trustees contemplate making improvements to the church property.

CHATHAM, ONT.—The city council will probably purchase a large heater for the electric light and waterworks station.

BROCKVILLE, ONT.—A well-known citizen is said to have decided to erect a large covered skating rink, to cost \$5,000.

JANEVILLE, N. B.—A proposition to build a parsonage in connection with St. Margaret's church is under consideration.

INGERSOLL, ONT.—An expert has reported that the town hall is in an unsafe condition, and recommends reconstruction.

GRAND FALLS, N. B.—The Grand Falls Power & Boom Co. will seek a renewal of their charter. It is proposed to build pulp mills.

NIAGARA FALLS, ONT.—The Niagara Falls Acetylene Gas Machine Company purpose enlarging their premises at Niagara Falls, N.Y.

THREE RIVERS, QUE.—The company that controls the water power on the St. Maurice is negotiating with an English company to locate here.

HULL, QUE.—The ratepayers will be asked to grant a bonus of \$50,000 to the Toronto Rubber Company for the establishment of a branch factory here.

CARBERRY, MAN.—The C. P. R. will erect a new station here. New freight and station buildings will also be erected at Altona, Winckler and Sintanluta.

GUELPH, ONT.—The Fire Underwriters' Association have written to the city council suggesting that the estimates for the year should provide for increased fire protection.

LONDONBOROUGH, ONT.—The Methodist congregation have decided to build a new church, to cost \$5,000. The building committee is composed of Messrs. Carter, McVittie, and others.

REGINA, N. W. T.—The trustees of Sherwood school district want tenders for the erection of a school building about five miles south-west of this place. E. J. Martin will give particulars.

WALKERTON, ONT.—The Bruce county council have appointed a committee to secure information regarding the erection of a House of Refuge. This committee will report at the June session.

ISLINGTON, ONT.—The Etobicoke township council have appointed a committee to visit the site where Mr. George Agar and others are petitioning to have a bridge placed over the Mimico river.

TORONTO JUNCTION, ONT.—A by-law has been passed in council to authorize the issue of debentures for \$1,066,668, under the act respecting Toronto Junction passed at the recent session of the Legislature.

RIMOUSKI, QUE.—A company has been formed to construct a telephone line from this place to Matane, and work will be commenced in the spring. The pro-

moters are J. Elzear, J. G. Martin, and others.

DESERONTO, ONT.—A syndicate of capitalists is said to have made a proposition to the town to establish a smelting plant. A bonus of \$20,000 is asked, for which purpose a by law will be submitted to the ratepayers.

FREDERICTON, N. B.—The local government recently invited tenders for over \$1,000,000 of debentures. It has been decided not to accept any of the offers received, but to extend the time until the 14th instant.

FORT WILLIAM, ONT.—New buildings will be erected this year by William Wiegand, H. Bennett, H. H. Peacock and E. A. Morton. The congregation of St. Patrick's church will also build a brick dwelling for Rev. Father Arpin.

BRAMPTON, ONT.—Tenders are asked by G. R. Anderson until 21st inst. for the erection of a House of Refuge near this town. Plans at the office of Strickland, Symons & Rae, architects, Toronto, and at Mr. Anderson's office in this town.

TRURO, N. S.—Two propositions are now before the town council, one to enlarge and remodel the Yonge street fire station, at a cost of \$7,000, and the other to build a new station throughout, corner Prince and Yonge streets, at a cost of \$12,000.

ASHTON, ONT.—Tenders are wanted by J. H. Conn, Secretary of Building Committee, before February 14th, for building a brick Methodist church in this town. Plans at Conn Bros' store. The architect is M. C. Edey, 51 Sparks street, Ottawa.

ST. THOMAS, ONT.—F. M. Griffin will erect a two-story building, 72 by 65 feet, corner Talbot and Railway streets, cost \$10,000.—The School Board will ask the city council for an appropriation of \$36,000 to rebuild the Central and Balacava street schools.

ORILLIA, ONT.—The town council have still under consideration the question of obtaining power from the Ragged Rapids. It is estimated that the necessary electrical plant for developing 1,500 horse power and transmitting it 15 miles would cost from \$60,000 to \$75,000.

LOUISVILLE, QUE.—A deputation from this vicinity recently interviewed the Minister of Public Works requesting that the Government dredge out three miles of the river. Should their request be granted Mr. R. Tourville will establish a large pulp and paper mill here.

PETERBORO, ONT.—At a recent meeting of the County Council the question of the erection a House of Refuge was considered. A committee was appointed to report thereon. Mr. Casement introduced a by-law authorizing the borrowing of \$25,000 to meet current expenses.

STRATFORD, ONT.—The plans adopted for the new city hall building provide for a structure of buff-colored pressed brick, with St. Marys and Credit Valley stone trimmings. The market arcade will be 82 by 34 feet.—It is proposed to pave Market and Downie streets with vitrified brick.

HALIFAX, N. S.—The Yarmouth Steamship Company have constructed 35 miles of railway from Yarmouth eastward. It is now proposed to continue the road to Shelbourne, about 70 miles distant, and if the company are successful in placing their bonds on the London market, the entire line through to Halifax will be built without delay.

ST. JOHN, N. B.—Tenders are asked by the city, to be received before April 1st, for the supply of 3,116 tons of 24 and 12 inch cast iron water pipe. Tenders are to be addressed to A. Chipman Smith, Director Public Works Department.—The Slaughter House Committee will recommend to the city council that a

modern slaughter house be erected.—The Common Council has decided to grant the necessary water supply to Andre Cushing & Co., for the erection of a pulp mill.

CHARLOTTETOWN, P. E. I.—The Gas Company is taking tenders for further additions to its works.—At a recent public meeting the question of constructing a sewerage system was discussed. A vote of the ratepayers will be taken.—In all probability the city will put in an additional boiler and pumping engine at the waterworks station.

HINTONBURG, ONT.—A by-law giving E. J. Rainboth a franchise to construct a system of waterworks for the village has been read a first time in council. The system to be constructed will be capable of supplying a population of 10,000, and will include 24,450 feet of pipe. Several ratepayers favor introducing a sewerage system simultaneously with the building of the waterworks.

VANCOUVER, B. C.—The Mayor recommends the extension of the sewerage system and the erection of a new jail.—The British Columbia Gold Trust Company have purchased four lots, corner Pender and Granville streets, and will probably erect a building thereon. This company also recently purchased property on the opposite corner, on which a new block will be erected.

ANDOVER, N. B.—A company, in which Messrs. Hayes, Woodman and Millar are interested, have obtained a charter to develop the water power at Grand Falls. Plans and estimates of cost of installing the necessary plant have been prepared. A second company, with the same object in view, hold a charter from the Dominion Government. Their scheme is to build a canal commencing about a quarter of a mile above the falls.

WOODSTOCK, N. B.—The Victoria and New Brunswick Pulp Company is seeking incorporation, to manufacture wood pulp and to build a dam at the Tobique Narrows, in the county of Victoria.—The Restigouche & Western Railway Company, which has been granted a charter to build a railway from the Restigouche across the province to the river St. John, have had 20 miles of the line located, and will push the entire road to completion as early as possible. The line will be about 100 miles in length.

MAISONNEUVE, QUE.—Architect J. Alcide Chausse, of Montreal, has been instructed by Messrs. Lanier & Co. and Mr. Larin to prepare plans for two boot and shoe factories, 50 x 100 feet and 3 stories high, work to commence at once.—Tenders will be received by the Catholic School Commissioners until the 21st inst. for all the works for the erection of a school building, 70 x 200, four stories, pressed brick front and all modern improvements. Plans can be seen at the office of J. Alcide Chausse, architect, Montreal.

LONDON, ONT.—Plans have been prepared by the waterworks engineer for providing necessary fire protection and water supply for West London.—The improvements to be carried out at the Wellington street Methodist church will include new seats and carpets, and refrescoing the ceiling. It is probable that the electric light will also be introduced.—H. C. McBride, architect, has prepared plans for a three-story building, with an artistic front of stone and buff brick, to be used as headquarters of the Liberal Club. The structure will be 25 x 70 feet.

QUEBEC, QUE.—The Estate of Hugh C. Donnell will erect a three-story building, stone front, near Couillard street. The architect is H. Staveley. Cost \$6,000.—A building permit has been granted for an addition to a house, corner Roi and Caron streets, for M. Z. Crepault.—D. Ouellet, architect, has prepared plans for a frame church to be built in the

parish of l'Enfant Jesus, Beauce Junction.—Another company is being formed to erect a theatre building in St. Roch's, estimated to cost \$25,000. Five leading contractors are interested.—The Board of Trade have adopted a resolution requesting the government to give such aid as will ensure the building of the Quebec bridge and the establishment in this city of the workshops of the Intercolonial.

HAMILTON, ONT.—The proposal that a building should be erected jointly by the Royal Templars of Temperance and the various women's societies will probably be carried out. It is expected that a structure to cost \$50,000 will be erected at the corner of James and Main streets.—Wm. & Walter Stewart, architects, have been granted a permit for a brick addition to factory of Pilgrim Bros., Jarvis street, to cost \$2,200.—The Hamilton, Chedoke & Ancaster Electric Railway Co. will receive tenders up to the 18th inst. for the following: 19,400 cedar railway ties and 3,000 white oak ties, 8 feet long, 6½" face and 6" deep; 470 straight poles of sound cedar, 28 feet long and not less than 7" in diameter at the top end. For particulars address W. F. Walker, Secretary, 19 King street west.—The City Engineer recently inspected the east end sewage district, with a view of determining the best location for a main sewer.

WINNIPEG, MAN.—Wm. Hespeler, German Consul, and others, are endeavoring to secure the necessary funds to build a wing to the hospital. The proposed addition is estimated to cost \$50,000, for which amount \$32,000 has been subscribed.—The city will shortly issue debentures for over \$60,000.—The provincial government has been asked to grant power to the municipality of North Norfolk to give a bonus of \$10,000 for the erection of a flour mill and elevator.—Mr. Whyte, of the C.P.R., referring to the contemplated improvements on the road, has stated that the company intend to spend a large amount of money in improving the roadbed and existing structures. The wooden truss bridge over the Kaministiquia river will be replaced by a solid stone structure in the form of arches. The line between Fort William and the city will be reconstructed with heavy rails, which will mean re-laying one hundred miles of track.—It is probable that a new building will be erected on the site of the McIntyre block, destroyed by fire last week. The property is owned by the Estate of the late Alexander McIntyre.

MONTREAL, QUE.—The Montreal Street Railway Company, 34 Cote street, will receive tenders up to March 1st for 20,000 mixed tamarac and cedar ties, seven feet long, eight inches face and six inches thick.—R. D. McGibbin, solicitor, of this city, gives notice of application to Parliament for the incorporation of a company to build a railway from the head waters of the Peace river, in British Columbia, to a point near Edmonton, N. W.T.—During the present year the city will be called upon to undertake the drainage of the upper part of St. Denis ward, which, with the main sewer, is expected to cost nearly half a million dollars. Mr. St. George, the city surveyor, will shortly make an exhaustive report on the routes proposed, cost, etc.—Gamelin & Huot, architects, are preparing plans for six houses to be built on Lagachetiere street for D. Parizeau, also for five houses on St. Andre street for M. D. Houli, and a portal for St. Louis church, Chicago, for the Rev. M. Bourassa.—L. Z. Gauthier, architect, is calling for tenders for a new monastery for the Sisters of the Precious Blood at Ottawa.—J. Alcide Chausse, architect, is preparing plans for one store and two dwellings to be erected on Chambord street for Mr. J. W. Guerin.—At the annual meeting of the Montreal Cotton Co., held on Tuesday

last, a by-law authorizing the issue of \$300,000 worth of bonds was passed. The funds will be used to construct extensions to the plant. It is the intention to build a spinning mill at an early date.

OTTAWA, ONT.—E. F. E. Roy, secretary Department of Public Works, will receive tenders until Monday, 21st inst., for the construction of a wharf at North Bay, Nipissing district. Plans may be seen at the offices of the Town Clerk, North Bay, H. A. Gray, Confederation Life Building, Toronto, and at the above department.—The city will advertise for tenders for 3,000 feet of fire hose.—The Separate School Board have appointed a committee to select a site on which to erect a new school building.—At the next meeting of the Waterworks Committee, the City Engineer will present the estimates for the current year.—Chief Provost, of the Fire Department, is endeavoring to have the sum of \$7,500 placed in the estimates for a new station in St. George's ward.—Tenders have been called for building the new monastery for the Sisters of the Precious Blood. L. Z. Gauthier, of Montreal, is the architect.—The Sisters of Mercy have made a proposition to the Board of Health to erect two buildings on Porter's Island as a contagious disease hospital, at a cost of \$35,000.—There is agitation on foot in favor of having an elevator placed in the custom house.—The Canada Atlantic Railway Company will apply for power to extend its line from the Richelieu river in an easterly direction to the international boundary, also for power to build from a point near the St. Lawrence river through the counties of Soulanges and Vaudreuil to Montreal.—The Public School Board have decided to erect two new schools in this city, at a cost of \$41,500. The cost of repairs to the school buildings is placed at \$3,000.—Residents in the vicinity of Queen and Lloyd streets want a new market building erected on the site of the present building.

TORONTO, ONT.—Plans of the House of Refuge to be erected near Brampton are now on view at the office of Strickland, Symons & Rae, architects, this city. Tenders close February 21st.—Mr. J. W. Moyes, manager of the Metropolitan Railway Company, has stated that in all probability the road will be extended to Newmarket next summer.—The Management and Supplies Committee of the Separate School Board have recommended that large bells be purchased for five schools.—It is stated to be the intention of the Massey-Harris Company to install a new arc and incandescent lighting plant at their works next summer.—The City Engineer has received a petition for an asphalt pavement on Adelaide street, between Bay and York streets, a concrete walk on south side of same street, and the reconstruction of the sewer.—C. W. Postlethwaite, Harbor Master, will receive tenders until noon on Thursday, 17th inst., for repairs to the crib-work at the Queen's wharf.—The City Engineer has announced his purpose to insert a sum in the estimates for making an investigation to determine the most practical method of disposing of the sewerage of the city. In a report which will shortly be presented to the city council, the construction of permanent sidewalks around the new municipal buildings will be recommended.—Park,

Blackwell & Co., produce merchants, have acquired a site at the foot of Ba Hurst street, and will shortly erect thereon a modern pork packing establishment, to cost about \$75,000.—It is stated that the company which is seeking a franchise of the Cattle Market hope to secure the erection of an abattoir and a soap factory.—Building permits have been granted as follows: W. Milne, block of 2 story houses, 461 Adelaide street west, cost \$2,500; J. L. Blaikie, alterations to 185 Yonge street, cost \$1,300; W. R. Brock, brick warehouse, s. w. corner Bay and Wellington streets, cost \$10,000.—The Toronto Railway Co. will be requested to erect a car shed at the eastern end of Queen street.—It is said to be the intention of the Board of Works to take into consideration the necessity of building a new bridge over the Don at Queen street east.

FIRES.

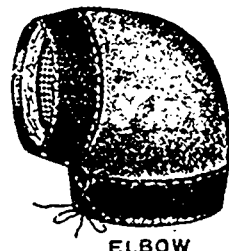
The County Academy at Liverpool, N. S., was destroyed by fire on the 3rd inst., at a loss of \$10,000.—At Oil Springs, Ont., on the 4th inst., A. W. Dewar's drug store, H. A. Crte & Co.'s dry goods and grocery store, and a dwelling owned by Samuel Angus, were destroyed by fire.—A residence at Lindsay, Ont., owned by A. Hepburn, has been burned.—The residence of F. B. Arthurs, manager of the Delta Lumber Company, at Dunchurch, Ont., was burned on the 4th inst.—The McIntyre block on Main street, Winnipeg, containing on the ground floor a number of stores, with offices above, was completely destroyed by fire last week. The loss is estimated at \$400,000, which is largely covered by insurance.—A building at the corner of Dovercourt road and Bloor street, Toronto, owned by Edward Dawes, was damaged by fire recently to the extent of \$10,000. There was an insurance of \$5,000.—The Methodist church at Westmeath, Ont., was burned last week. The building was only recently constructed, a cost of \$8,000, and was insured by half that amount.—The power house of the Citizens' Light & Power Company at St. Henri, Que., was burned on Sunday last. The loss is estimated at \$100,000, partly covered by insurance.—The dwelling of James McAuley, about four miles from Maryville, Ont., was burned on the 5th inst.—The Hot Springs hotel at Banff, N.W.T., owned by Frank Beattie, was recently destroyed by fire.—The Herald building on Craig street, Montreal, has been damaged by fire to the extent of \$10,000.—The store and dwelling of John Parr at Bradwardine, Man., was destroyed by fire a few days ago.

CONTRACTS AWARDED.

BERLIN, ONT.—Daniel Allen, Galt, has received the contract to roof the large full steel girder building being erected for the Breithaupt Co. W. A. Langton, Toronto, architect.

THANESVILLE, ONT.—The bulk tender of Charles Hubbell has been accepted for the erection of a Methodist church. Sub-contracts have been let as follows: Masonry, James Quelch; painting, M. Trudell.

KINGSTON, ONT.—Geo. Newlands, of this city, has been given a contract to build a modern summer residence at the



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foot of Howe Island, for W. H. Nichols, a New York millionaire. It is estimated that the building will cost \$80,000.—R. J. Decker has been given the contract for erecting two dwellings on Division street.

OTTAWA, ONT.—Work has been commenced upon the new bridge to be built across the Ottawa river by Mr. H. J. Beemer. The contract for the sub-structure is said to have been given to a New York firm, while the superstructure will be handled by the Dominion Bridge Company, of Montreal. There will be five piers, with a cantilever span of 550 feet in the clear, with arms of 250 feet each. The total length will be about 1,300 feet, and the estimated cost \$750,000.

MONTREAL, QUE.—Eric Mann, architect, has let contracts as below for alterations to a house on Mansfield street for P. Starr: Masonry, bricklaying and carpentry, John O'Leary; plumbing and heating, John Watson & Co.; plastering, M. McCarthy.—W. E. Doran, architect, has awarded the contract for an extension to a store, corner of Montcalm and St. Catherine streets, for F. J. Hart, to Henri Pepin & Co.

WINNIPEG, MAN.—The tender of the Vulcan Iron Company for a new boiler for the steamer "Alex. Brown," at the price of \$850, has been accepted.—The Fire, Water and Light Committee have reported that the most favorable tenders received in connection with the street lighting contract were from the Western Electric Company and the Canadian General Electric Company. In view of the fact that before taking action a by-law will have to be submitted to the ratepayers, it has been recommended that the tender of the Manitoba Electric & Gas Light Company for 121 lights, at 45c. per light per night, be accepted, from the expiration of the present contract to 1st June, 1899.

POLISHES AND VARNISHES FOR WOODWORK IN BUILDINGS.

In this age of cheapness, when prices have to be cut so very fine for a living profit to be made, it behooves the contractor or builder to consider every little item on which a saving can be effected. Hence the many substitutes so frequently advertised to meet the want of many branches of the building trade; to wit, linseed oil is an article so extensively used in paints that this article has received a large share of attention by inventors in the direction of finding a substitute, make believe, or imitation.

As, however, the chief object of the inventor of a substitute is to produce an article that can be sold cheaper than the article imitated, it is necessary to work with materials that are intrinsically inferior to the imitated articles.

If the imitation takes the form of an adulteration of the original article the adulteration necessary has to be cheaper oil than the linseed, and as linseed oil is the best oil to use for paint mixing, all other oils are ipso facto inferior.

The adulteration of linseed oils, however, can now be readily detected, as chemists during the last ten years have given the article much attention with a view to detect adulterants.

The inventive brain of men, therefore, turned to another way of producing something that should pass current as linseed oil, but made up from different, and necessarily cheaper, materials.

These ingeniously found a compound made up of resin oil and turps or similar articles, and thus a linseed oil substitute was put on the market and proclaimed by the makers as being "just as good" as the old established honest linseed.

As regards the qualities of the substitute versus the real article it is not the writer's intention to discuss in this article. What he wants to emphasize is the fact that the master builder has to be very careful in selecting his materials, so as to make a profit out of his labors, for while the jerry builder can buy cheap substitutes for linseed oil, cheap terebenes as substitutes for turpentine, and resin oil varnishes for good oil varnishes, the builder who desires to use only good honest materials has to pay very particular attention to the use of an article that, while it still be good, shall also be as cheap as possible.

Now, a considerable saving can be effected by using a varnish instead of polishing woodwork for some structural parts of a house. It is sheer waste of labor to go to the expense of a polish on wood when a coat of varnish will answer equally as well.

But it may not always be an easy matter to know which is the most suitable varnish to use, as the nature of wood varies so much, and a varnish that would answer well on a hard, close grained wood would be useless on a soft, porous, absorbent wood.

It is the object of the writer, therefore, to give some hints on what are the best articles to use for certain kinds of wood or parts of structural woodwork in a house, together with instructions how to prepare such articles himself if the builder so desires.

In all new woodwork before it can be painted the knots in the wood need painting over with what is called "knotting" so as to prevent the exudation of resinous matters from the knot in future. Such compounds as "patent knotting" are easily prepared by the builder or carpenter himself thus:—

Provide several gallon or two gallon stoneware jars, clean them out and dry the insides by standing the jars before a fire for some time so as to expel all moisture. This is necessary because if there be any moisture present when methylated spirit and resins are put in the jar, the resins will be precipitated, while if it be turpentine and resins the compound will become milky.

RECIPE NO. 1.

All parts are reckoned by weight unless otherwise specified.

Ingredients: Thirty parts kaurie resin finely powdered, two parts methylated spirits, one part turpentine.

Method of preparation: Put all these ingredients into one jar and give the contents a frequent shake up until the resin has dissolved.

In a separate jar put seven parts of button shellac, three parts amber resin powdered, two parts (fluid measure) methylated spirits.

Method of preparation: Stand this jar in hot ashes, hot sand, or a vessel of boiling water (taking the precaution to put

the bung in the jar, so as to prevent water vapour mixing with the contents) and gently heat the mixture until the solids have dissolved.

For use, one part of the kaurie varnish made in the first jar is mixed with three parts of this "patent knotting," or the latter may be used alone.

A cheaper "knotting" is made by dissolving 6 oz. or 7 oz. of orange shellac in one pint of methylated spirit.

Turpentine varnishes are much used for woodwork.

The following give good results:—

RECIPE NO. 2.

Ingredients. Thirty-six pounds colophony (yellow resin), 14 lb. venice turpentine, four gallons boiled oil, two gallons naphtha, three gallons turpentine.

Method of preparation: Mix the naphtha and turps and then digest in the mixture the resin and venice turpentine, and when they have dissolved add the oil; well mix the whole before use.

For a common turpentine or resin varnish, dissolve black resin in turpentine in the proportion of 1 lb. of resin per pint of turpentine.—Carpenter and Building.

MARKET CONDITIONS.

The cement market at Montreal is steadily gaining in strength. Contracts have been made of greater magnitude than any on record for this season of the year. Importers who placed orders for foreign cement have already re-sold a large quantity of the expected receipts. A local firm is reported to have placed an order last Fall with a Belgian manufacturer for about 50,000 barrels, which he has succeeded in placing at advanced prices. Owing to a sharp advance made by British manufacturers, very little cement is likely to be imported from Great Britain this year, as it is possible to obtain the Belgian and German brands at a much lower figure. There is no change in fire bricks, the demand being fair for small lots, at prices ranging from \$16 to \$21.

Manufacturers of wire nails in the United States have advised Toronto jobbers of a proposed advance in price. This, however, will have little effect, as the price at which Canadian manufactured nails are now selling practically excludes the foreign article.

The heavy iron and metal trade is of average volume. In the west values of galvanized iron are somewhat unsettled, while quotations on iron pipe are slightly lower in Toronto.

The Londonderry Iron Co., Londonderry, Nova Scotia, write: "Referring to the 42-inch water pipe cast at the Londonderry Iron Company's works at Londonderry, we would say that we have cast 22 of these for an order for the I. C. R., and have not lost a single one. The weight is about two tons each. We expect an additional order for these pipes early in the spring. We would also state that our company does not claim that this is the largest pipe manufactured in Canada, but that this is the largest pipe made in and for the lower provinces.

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TO MUNICIPAL OFFICERS.

The CONTRACT RECORD is desirous of publishing, as far as possible, advance information regarding projected works of construction in all parts of Canada, such as sewerage and waterworks systems, railways, street pavements, public and private buildings, etc. Municipal officers would confer a favor upon the publisher by placing at our disposal particulars of such undertakings which are likely to be carried out in their vicinity, giving the name of the promoter, character of the work, and probable cost. Any information thus furnished will be greatly appreciated.

IMPROVED ROADS.

It will interest those who are working for the improvement of country roads in Canada, to learn that a member of the New York State Senate, Mr. Guy, has introduced a good roads bill, which, if carried, will virtually carry out a recommendation made by David B. Hill, when Governor. This measure aims to provide for the construction of an improved highway across each county of the State, to follow the line of the principal market highway in the county, and to be built at State expense under the direction of the State Engineer and Surveyor. Governor Hill favored the construction of two highways in each county, running in opposite directions, but one is better than none. These improved highways are to be of macadam, eighteen feet in width and made of good material, that they may serve as object lessons in roadbuilding, and lead the people of the communities traversed by them to improve future cross-roads for themselves. The selection of highways by the supervisors must be approved by the State Engineer and Surveyor. He is to let the contracts to the lowest bidders and supervise the work.

A yearly appropriation of \$500,000 until the work is finished is proposed by the bill. The maximum price fixed is \$3,000 a mile for the new roads. The counties will only be called upon to pay for the surveys and for building and repairing any large bridges that may be necessary. The highways are to be maintained by the counties. No attempt is made to tax the owners of abutting property. Senator Guy assumes that the farmers of New York State cannot be expected to pay taxes for the building of improved roads, which are quite as great an advantage to the cities and market towns where the farmers sell their produce as to the farmers themselves. The senator criticizes the wheelmen who have of late taken the lead in the good roads movement, and who have accomplished nothing because they have insisted on compelling the farmers

to bear too great a share in the expense of roadbuilding. Hence the farmers have defeated the cyclists' bills. It may well be argued, says the Buffalo Courier, in commenting on the proposal, that the wishes of the bicyclists are secondary to the needs of the people who use the roads to take their products to market. But, in the existing agricultural depression, farmers cannot build these roads for themselves. It is as proper for the State to expend a few millions to build good roads for the farmers as it is to spend many millions in improving the canals for the benefit of the cities.

LEGAL.

The definition of what constitutes a reasonable state of repair of roadways, as embodied in the decision just rendered by Chief Justice Armour and Judge Street, in the case of *Foley v. Township of East Flamborough*, will be read with interest by municipal representatives and officials. The decision states that the word "repair," as used in the municipality act, has been held to be a relative term. If the particular road is kept in such a reasonable state of repair that those requiring to use it may, under ordinary care, pass to and fro upon it in safety, the requirement of the law is satisfied. A road need not be kept in such a state of repair as to guard against injury caused by runaway horses, i.e., horses whose riders or drivers have entirely lost control of them, either in spite of ordinary care or by reason of the want of it. But for *Sherwood v. Hamilton*, 37 V. C. R., 410, it should be held that in this case the running away of the horses and their ceasing to be under control was the proximate cause of the injury. In this case, assuming the facts to be that the driver, in spite of ordinary care on his part, lost control of his horses, and that, they running away, the injury was caused by their running the vehicle against the stump in the highway, the plaintiffs cannot recover, because, notwithstanding the stump, the road was in a reasonable state of repair for ordinary travel.

The annual report of the Superintendent of Waterworks, New Westminster, B. C., says: "The extension of the meter system has had a good effect in reducing considerably the careless waste of water in many places. In some cases where meters were placed last summer, the consumption has been reduced by about two-thirds, and in

some cases even more; showing the carelessness with which the water was being handled. The total quantity of water metered for all purposes during the year was 4,222,159 cubic feet. The quantity metered at manufacturers' rates was 2,511,960 cubic feet, the net revenue from the same being \$1,004.78. The same quantity charged at schedule rates would net \$2,709.35, showing a loss to the Water Department of \$1,704.57.

Mr. L. O. David, City Clerk of Montreal, has been offered, and has declined, the position of Lieutenant-Governor of the Northwest Territories, rendered vacant by the withdrawal of ex-Lieutenant-Governor Mackintosh. The offer was most flattering to Mr. David, who, it is well known, is a life-long friend of the Premier, and for 30 years rendered yeoman service to the Liberal party.

Road rollers for winter use are employed in northern New England to compact the snow so as to make the highways passable. Working drawings for such an apparatus for ordinary roads, contributed to the "L. A. W. Bulletin" by Mr. J. W. Votey, of Burlington, Vt., show that it consists of a pair of wooden drums each 5 feet long and 5 feet 9 inches in outside diameter, mounted on a wooden frame like that of a horse roller. The heads of the drums are made of two-inch plank, and the rolling surfaces of 2 1/4-inch beveled staves about 3.5 inches wide, which are spiked to the heads and then encircled by bands of iron over the heads of the spikes. The frame has an iron scraper 3 inches wide at the back, to keep snow off the drums. The heads are provided with cast-iron boxes through which a 2 1/4-inch iron rod is run for a shaft. Mr. Votey gives the following hints for using this appliance: "To relieve the horses of the weight of the frame on hilly roads, the seat should be well back or a counterweight added in the rear; or a still better arrangement is to add a rear platform supported by a trailing shed, and then hinge the pole or tongue at the front. Four or six horses are needed to handle this roller, depending upon the grade of the road and the depth of snow. It is important that the use of such a roller commence with the first storm of the season and be continued as often as necessary through the winter. In the case of very heavy storms, the roller should be sent over the roads at intervals during the storm."

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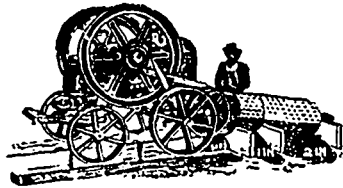
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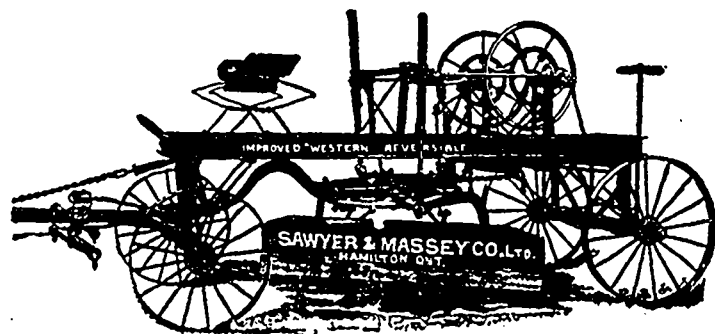
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Plumbers.

Montreal Directory... XV
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Reflectors.

Friak, I. P. ... XVI

Roofing Materials.

Ormsby & Co., A. B. ... I
Metallic Roofing Co. ... IX

Roofers.

Campbell & Gilday... XV
Douglas Bros. ... XV
Duthie & Sons, G. ... XV
Forbes, D. ... XV
Hutson & Sons, W. D. ... XV
Nicholson & Co., A. B. ... I
Ormsby & Co., A. B. ... I
Rennie & Son, Robt. ... XV
Reggan, John... XV
Stewart & Co., W. T. ... XV
Warren Chemical & Mfg. Co. ... XV
Williams & Co., H. ... XV

Sanitary Appliances.

Garth & Co. ... VIII
Keith & Fitzsimon... I
Toronto Steel Clad Bath & Metal Co. ... IX
The James Robertson Co. ... XIII

Shingle Stains.

Cabot, Samuel... IV

Stained and Decorative Glass.

Horwood & Sons, H. ... I
Hobbs Glass Works... II
Lyon, N. T. ... I
Mackey Stained Glass Co. ... I
McKenzie's Stained Glass Works... I
The Robert M. C. Usland Stained Glass Co. ... I
Wood & Co. ... I

Shingles and Siding.

Merchant & Co. ... VII
Metallic Roofing Co. ... XI
Ormsby & Co., A. B. ... I
Toronto Foundry Co. ... XVI

Storm Doors.

Hillock & Co., John. ... IX

Typewriters, Etc.

Williams Mfg. Co. ... III

Ventilators.

Ston Blower Co. ... XII

Wall Plaster.

Aldert Mfg. Co. ... II

Toronto. Montreal.

Hydraulic Cements.— Toronto, per bbl. ... 1 75 1 25 1 50
Queenston, " " ... 1 75 1 50 1 60
Napanea, " " ... 1 75 1 50
Hull, " " ... 1 75 1 50
Ontario, " " ... 1 75 1 50
Keene's Coarse " Whites " 4 50 4 75 5 00 5 50
Fire Bricks, Newcastle, per M 27 00 35 00 35 00 21 00
" Scotch " 27 00 35 00 35 00 21 00
Lime, Per Barrel, Grey... 40
" White... 50 85
Plaster, Calcined, N. B. ... 2 00 1 50
" N. S. ... 2 00 1 50
Hair, Plasterers', per bag... 80 1 00 1 00

HARDWARE.

The following are the quotations to builders for nails at Toronto and Montreal:

Table listing prices for Cut nails, Steel, and Cut spikes.

Cut spike, 10 cents per keg advance.

Steel Nails, 1cc. per keg extra.

Iron Pipe:

Table listing prices for Iron pipe of various diameters.

Toronto, 70 per cent. discount. Montreal, 70 per cent. discount.

Lead Pipe:

Table listing prices for Lead pipe.

Galvanized Iron:

Table listing prices for Galvanized iron of various diameters.

Note.—Cheaper grades about 1/2c. per lb. less.

Structural Iron:

Table listing prices for Structural iron beams and plates.