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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

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 THROUGHOUT CANADA.

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THE CANADIAN CONTRACT RECORD,

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At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for tenders.

The following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of Architects, held in Montreal, Oct. 10th and 11th, 1890: "Moved by M. Perrault, seconded by A. F. Dunlop, that we the Architects of the Province of Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors.—Resolved, that we pledge our support to it by using its columns when calling for Tenders."

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CONTRACTS OPEN.

PRESTON, ONT.—The erection of a new town hall is under consideration.

HOUSEY'S RAPIDS, ONT.—A new Methodist church is to be erected here.

GRANBY, QUE.—G. H. Wilcocks will probably erect a new block in the spring.

WINDSOR, ONT.—A \$7,000 children's home will be erected here by the King's Daughters.

BELLEVILLE, ONT.—Plans will be invited for a new building for St. Andrew's congregation.

PORT STANLEY, ONT.—A fine brick hotel is to be erected on the site of the old Batt House.

HALIFAX, N. S.—The sum of \$20,000 is to be borrowed by the City Council for sewer construction.

GODERICH, ONT.—The Huron County Council is advertising for tenders for the erection of a County House of Refuge.

HULL, QUE.—An electric railway and lighting franchise was last week granted to Theophile Viau by the City Council.

ST. JOHN, N. B.—F. J. McPeake, Superintendent Short Line Railway, will receive tenders until the 20th inst. for the supply of 25,000 cedar ties.

VANCOUVER, B. C.—A public meeting was held recently to discuss the advisability of purchasing an electric light plant for the city, at a cost of \$100,000.

GALT, ONT.—At a recent meeting of the Town Council a notice of motion was given to introduce a by-law to provide for the construction of a sewerage system.

DUNROBIN, ONT.—A new solid brick church is to be built here. The material will be placed on the ground this winter and building will commence in the early spring.

WINDSOR, N. S.—The directors of the Church School for Girls have decided to provide additional accommodation, and an assembly hall and art room will be built at once.

BYRON, ONT.—A new bridge is to be constructed over the river here. County Commissioner Talbot is calling for tenders for a Howe truss bridge of two spans, one 98 feet and the other 134 feet.

HAMILTON, ONT.—Tenders are being received this week by Ald. Derby for the construction of several sewers.—New tenders are to be asked for the purchase of \$200,000 of civic debentures.

FARNHAM, QUE.—The Dominion Government will be asked to grant a subsidy for 21 miles of the Montreal, Boston and Portland railway to be built between this place and the international boundary.

PARRY SOUND, ONT.—It is the intention of W. Peters to thoroughly overhaul his mill here this winter, and to put in a band-saw and new machinery throughout. An electric light plant will also be installed.

GANANOQUI, ONT.—A new hotel will be built at Prospect park next season by the St. Lawrence Land Improvement

Company. A wing will also be built to the Pullman hotel, near Thousand Island park.

KNOWLTON, Que.—A public meeting is to be held to discuss the construction of waterworks and a sewerage system.—It is rumored that the water power at the outlet of the lake is to be utilized and iron and other works erected.

SOUTHAMPTON, ONT.—A deputation from this place interviewed the Minister of Public Works at Ottawa last week urging the necessity of improvements to the harbor. Satisfactory assurances were given that the work would be carried out.

CALGARY, N. W. T.—D. M. Ratchiffe, of Big Hill Springs creamery is asking the Town Council for a free site and a loan of \$6,000 to establish a cold storage creamery and packing house. It is proposed to expend about \$12,000 in the enterprise, \$8,000 on buildings and \$4,000 for machinery.

CHARLOTTETOWN, P. E. I.—Tenders for the erection of a stone church in this city will be received by H. J. Cundall, Secretary Building Committee, until 7 p.m. on the 13th inst. Plans may be seen at the office of W. C. Harris, architect. The building is to be completed by the 1st December, 1895.

LONDON, ONT.—The City Engineer has recently granted the following building permits: T. J. Tanton, Maitland st., frame house on English street, cost \$1,000; Bert Sheere, brick cottage on Evergreen avenue, cost \$1,200; Dr. Moorehouse, alterations to two stores on Dundas st., cost \$2,000; The McClary Manufacturing Company, new factory, cost \$2,000.

QUEBEC, QUE.—The report is confirmed that Mr. G. E. Tanguay, of this city, will prepare the plans for the proposed City Hall, which is to cost \$125,000.—Tenders are being received for the building of a new church and sacristy at Ste. Germaine du Lac Echemin, Dorchester County and for the construction of a tower and belfry at the Church of St. Joachim, Montmagny County.

WINNIPEG, MAN.—The Works Committee will shortly ask for tenders for the supply of sewer pipe.—The congregation of the West End Presbyterian church have finally decided on the enlargement of the church building. Work will be commenced in the early spring.—Steps are to be taken at once to erect a mission church on Dufferin avenue. Rev. Thos. Argue has been appointed to make arrangements.

MONTREAL, QUE.—The City Surveyor is receiving tenders this week for the construction of sewers on St. Ignace and Panet streets.—The City Hall Committee has been authorized to receive tenders for the new furnaces for the City Hall.—Tenders for flooring the drill hall in this city will be received at the Minister of Militia's office at Ottawa until noon on the 14th inst.—Tenders are being called for the completion of two cottages at the Montreal Consumers' Gas Co.'s works,

Cote St. Paul. Mr. Theo. Daoust, architect, is calling for tenders for four tenement buildings, to be erected on Milton st., for Mr. A. A. Archambault. Same architect is calling for tenders for the erection of a large hotel at St. Hyacinthe, and is preparing plans for six cottages to be built at Montreal, and two stations for the Montreal Park and Island Railway Co.—Messrs. J. J. Resther & Son, architects, are calling for tenders for the erection of stores and dwellings on the corner of Notre Dame and St. Martin sts.

OTTAWA, ONT.—Anthony O'Reilly is about to commence the erection of a large brick residence on Elgin street, at a cost of \$4,000.—Tenders are invited by E. F. E. Roy, Secretary Department of Public Works, until Friday the 26th inst., for the construction of an addition to the wharf at Baie St. Paul, Charlevoix County, Que. Plans may be seen at the post-office, Baie St. Paul, and at the above department in this city. Tenders are also invited until the 19th inst. for the works on Riviere du Sud, Montmagny County, Que.—At the last meeting of the Public School Board, the question of erecting a new school south of Theodore street was discussed, but no action was taken.—The Gatineau Fish and Game Club are making arrangements for the erection of a new ice house and club house in their property on 31 Mile Lake. The estimated cost is \$2,500. Contracts will be let at once.—J. H. Balderson, Secretary Department of Railways and Canals, will receive tenders until Saturday next, the 13th inst. for the removal of the superstructure of the east pier at Dalhousie and for the renewal of the portion removed. Plans may be seen at the Superintending Engineer's office, St. Catharines.—The petition for the permanent paving of Sparks street and the report thereon have been adopted by the City Council and arrangements will be made for the commencement of the work in the spring.

TORONTO, ONT.—The site is being excavated for a new residence to be erected on the west side of St. George street, a short distance south of Bloor street.—The Parks and Gardens Committee has decided to recommend the purchase of an electric light plant for the Island, at a cost of \$1,275.—In connection with the conversion of the McCaul street car service to electricity, an effort is being made to have the entire street paved with asphalt, and a petition to this effect has been presented to Council.—The Property Committee of the City Council has been requested to report on the advisability of setting apart a site for a large summer hotel on the Island, and offering inducements for its erection. Mr. B. B. Osler, Q. C., of this city, is about to erect a summer residence on the Mountain just west of Collingwood.—The question of a pure water supply was again discussed at the last meeting of the Board of Works, the mayor advocating the construction of a tunnel under the harbor, coupled with a new conduit across the bay. It was finally decided to recommend that the

City Council make an appropriation to obtain the services of some competent engineer to confer with the City Engineer on the relative merits of the different schemes advocated.—Ald. Thompson is advocating the erection of a large hotel in Toronto, at a cost of about a million dollars. A committee has been appointed by the City Council to consider the question.—Mr. E. B. Jarvis, architect, is building a residence on St. George street for Mr. Columbus Green, to cost about \$8,000. The foundation has been commenced.

FIRES.

The Bedford House at Port Arthur, Ont., owned by C. A. Cordingly, was gutted by fire last week. No insurance. D. Fisher's Woollen mills at Pusley, Ont., were burned on the 3rd inst. Loss, \$8,000, covered by insurance.—The fruit evaporating factory of Moore & Wilson, at Owen Sound, Ont., was destroyed by fire a few days ago. Loss \$1,200. Rebuilding will be commenced at once. The stores of R. A. Kirkwood, T. Smith, and J. Ostrander, at Dutton, Ont., were destroyed by fire on the 8th inst. Loss, \$4,000; partially insured.—The Bras d'Or House at Baddeck, N. S., owned by Alex. Anderson, was burned to the ground on Monday last. The building was partially insured. A three storey brick dwelling at Howick, Que., occupied by Mrs. J. B. Desautels, was burned to the ground last week. Loss, \$4,000.—At West Selkirk, Man., on Sunday last, fire destroyed Wheaton & Co.'s stables and warehouse. Loss, \$12,000; no insurance.

CONTRACTS AWARDED.

WYOMING, ONT. The successful tenderer for the erection of the Masonic Temple is J. C. Foster, at the price of \$1,650. Eight tenders were sent in.

HALIFAX, N. S.—Spencer, Turner & Logan, of Truro, have been awarded a contract by the College Board of the Presbyterian church for the erection of three residences on the Pine Hill grounds. Contract price, \$4,128.

STRAITFORD, ONT.—The Fire and Light Committee received the following tenders for the construction of an electric light station and fire hall: Thos. Orr & Son, \$3,895; Porteous & McLagan, \$3,975; John J. Young, \$3,390. The latter tender has been accepted.

KINGSTON, ONT.—The Kingston Vehicle Company have accepted the following tenders for the erection of workshops: Masonry, A. Newlands; carpentry, E. Storey; iron work, McKelvey & Birch; painting, J. Boulanger. Total amount of accepted tenders, \$2,450.—Tenders for additions to Mr. Welsh's houses on Division street have been accepted as follows: masonry, Clugston Bros.; carpentry, B. Asseltine & Son; painting and glazing, McMahon & Son; plumbing, W. D. Muckler; tin-smithing, Nugent & Taylor; heating, Elliott Bros.

ATHENS, ONT. Eleven tenders were sent in for the proposed House of Industry to be erected here and were as follows: T. H. Fitzgibbon, Brockville, \$14,928; Robert Cameron, Almonte, \$14,650; John D. Warwick, Brockville, \$12,445; Smith & Wilson, Toronto, \$11,950; W. G. Tompkins, Brockville, \$14,184; M. Healey, Smith's Falls, \$13,440; M. Ryan, Smith's Falls, \$14,500; Miller Bros., Brockville, \$14,192.50; George Wilson, Gananoque, \$13,950; A. Berry, Andrews-ville, \$13,743; Simpson & Haggerty, Brockville, \$11,937.60. The contract has been awarded to the lowest tenderer, Simpson & Haggerty.

BUSINESS NOTES.

The estate of Withrow and Hillock, Toronto, is advertised for sale by tender, the creditors having decided to close down the business.

Mr. W. H. Elliott has retired from the firm of Elliott & Son, interior decorators, Toronto. The business will be carried on under the same name by Mr. William Elliott.

NEW COMPANIES.

OTTAWA, ONT.—Crown Pressed Brick Co., incorporated; capital \$100,000.

VANCOUVER, B. C.—Provincial Mining and Dredging Co., incorporated; capital, \$1,000,000; trustees, Hugh McLean, Norman McLean and W. F. Gore.

NEW GLASGOW, N. S.—Stellarton Gold Mining Co., seeking incorporation; capital, \$20,000; applicants, John McQuarrie, Sherbrooke, W. L. Ormond, of Thorborn, James Keith, of New Glasgow and others.

ST. LAMBERT, QUE.—South Shore Electric Company, seeking incorporation; capital, \$25,000; incorporators, Hon. Louis Lourville, Montreal, W. B. Powell, H. Williams, and J. Horsfall, of St. Lambert, and others.

BUCKINGHAM, QUE.—Buckingham Electric Railway, Light and Power Co., seeking incorporation; capital stock, \$100,000, to build a railway from Du Lievre to Buckingham, and to carry on a general electrical business; incorporators, A. McLaren and Thos. Wells, of Buckingham, Thos. Kennedy and E. S. Leatham, Ottawa, and Henry Ayles, of Aylmer.

DRAWINGS FOR STEAM FITTERS.

The remark is made, we are glad to say, only sometimes, says the Master Steam Fitter, that the idea of making drawings for steam fitters is a work of supererogation, that it is not only superfluous but a waste of time, for the reason, it is said, that steam fitters cannot and will not work closely to the dimensions given; there are standard sizes of pipe, standard flanges, certain and positive sizes of gate and globe valves, of elbows and check valves, and of fittings generally, all of which can be purchased by the ton. Therefore the drawing to be of any value or use can define position only, as all the rest is known and can be easily "got at" by measurement during, and according to the progress of the work. Now, this objection to making drawings is met by the fact that it is position that is mostly wanted. It must be known in advance of the work. Floors have to be cut, beams avoided, radiators placed, risers and returns provided for, and lots of other things to be looked out for in advance. It is far better for steam fitters in designing their plants to study over accurate scale drawings, with figured dimensions and written instructions on them, and to see where and "how they are going to come out" than to feel their way along from basement to attic of a high building. Correct drawings always pay for present use, and prove valuable for future guidance and reference.

General plans, on account of the extensiveness of buildings have to be drawn on a small scale. A floor of the dimensions 100 x 50 feet would if drawn to a scale of $\frac{1}{4}$ " = 1 foot occupy a space on a sheet of drawing paper of 100 by fifty half inches. 100 half inches equal 50 inches and 50 half inches equal 25 inches. Consequently the floor would be represented by a space of 50 x 25 inches. If drawn to a scale of $\frac{1}{2}$ " = 1 foot, then the drawing would be 25 x 12½ inches. The larger the scale the better. Even with a scale of $\frac{1}{2}$ " = 1 foot, the diameters of pipe and valves become very small, but diameters and position can always be clearly defined by neat figures and written remarks. On the other hand large blue prints are more

cumbersome and difficult to handle and are liable to be torn. For this reason a convenient scale is $\frac{3}{4}$ " = 1 foot. The two foot rule then will measure 48 feet; and every $\frac{1}{4}$ inch is equivalent to 6 inches; every 16 is equivalent to 3 inches.

FIXING TILES.

If there be no cellar or other opening underneath the space intended for the tile pavement, the foundation may be brought up to within 3in. of the proposed surface of the pavement with brick, gravel, broken stone, clean stone clippings, or other solid waste substances free from chips and shavings, so that complete solidity may be secured. Upon this substratum a mortar of gravel and cement should be spread, leaving a depth of tin. for $\frac{1}{2}$ in. tiles, and of 1½in. for 1in. tiles. A floating of cement and sand, in equal proportions, should then be spread $\frac{1}{4}$ in. thick over the cement and gravel layer. Upon this, when hard, the tiling may be fixed.

The above method is equally applicable, so far as requisite, to places above a cellar or other opening below, provided a firm foundation be given by an archway of brick or stone, or other equally solid substance. But when there is only an ordinary floor or floor joist, it is necessary that the surface of this floor should be 4in. lower than the surface of the intended pavement. There being, at that depth, a strong flooring of plank or rough boards, the mixture of cement and gravel, as above, may be spread upon it, and finished in the same manner.

FILLING FOR BOLT HOLES.

The Practical Engineer for August 24th, states that in building the viaducts for the terminal connections of the Merchant Bridge at St. Louis, a number of the steel columns supporting the viaducts were anchored to solid rock. To ascertain the best filling for the bolt holes driven in the rock, a number of experimental holes were drilled, in which were inserted rods fastened by wedges, by rust joint cement, by sulphur, by lead, and by Portland cement, used neat, and also mixed with sand. The rods, when their fastenings had become hard, were then either pulled out or torn in two. Those fastened with wedges and the rust joint cement came out very easily. With the lead fastenings and with the sulphur, two out of three were broken and the other pulled out, whilst with the six bolts fastened with cement only one pulled out. Only two bolts were fixed with cement mortar, which consisted of equal parts of cement and sand, and both these broke.

Of all woodwork that with the high varnish polish is the most difficult to keep looking well—it is so easy to mar and so difficult to repair. When dents and scratches do not go entirely through the polish they may sometimes be removed by rubbing over with linseed oil and rotten stone, using a small piece of flat felt to do the rubbing, says James Thompson, in the "Ladies' Home Journal." Care, however, should be used, so as not to rub too hard. Hardwood floors, if polished with shellac or varnish, may be first washed with soap and water, and then rubbed with a cloth wet with oil and turpentine, or kerosene and water.

A method of drawing designs on glass with an aluminium pencil has, says the Globe, been brought out in France. This metal, like cobalt and some others, has the property of leaving a metallic trace, like that of lead, on glass quite free from grease, and the trace is so adherent as to be practically permanent if not removed by hydrochloric acid. The pencil employed has a rotary point, which is found to make the metal adhere better than a fixed point as in the ordinary pencil.

MUNICIPAL DEPARTMENT.

ROAD MAKING.

Mr. Frank Wood, C. E., closes an article on the above subject in the Contract Journal, with the following brief summary of the foundation and more technical details.

Foundation.—If ground is of a rocky nature, the surface should be levelled and a coat of rock pitching laid—rock to be 9in. deep, 3in. broad, and 6in. to 9in. long—or, if ground be of a soft and yielding nature, the surface instead of being "pitched" to have a 5 in. coat of concrete in the proportion of five of broken stone, bricks, etc., three of good clean gravel, one of Portland cement. On the top of this finishing coat, $\frac{1}{2}$ in. thick, in the proportion of five to Oporto, or other suitable or similar gravel to one of Portland cement.

Blinding.—Fill in the crevices of the pitching with small pieces of rock or flag chippings. A 2 in. coat of good clean gravel ($\frac{1}{2}$ in. mesh) should be laid on the blinding coat of the pitching or the finishing coat of concrete.

Kerbing. Kerbs should be laid leaving joints not exceeding $\frac{1}{4}$ in. Each kerb not less than 3 ft. 6 in. long, with ends dressed square to surface.

Channelling.—Laid with an even fall to the gullies, joints not to exceed $\frac{1}{2}$ in.

Paving. The paving should be laid as above described, either over half the roadway or two-thirds, according to the width, well racked with $\frac{1}{2}$ in. granite chippings and well rammed. All joints, including those of the channels, to be filled in with a mixture of pitch and creosote oil of such a consistency as to be elastic when cold. Cover this with a coat of fine gravel.

Macadam.—Should be filled in the remaining portion of roadway, either mixed with the above mentioned consistency of pitch and creosote oil, or in its loose state. If tarred, roll the surface until it coincides with the contour of the roadway, and is thoroughly consolidated. If in its loose state, cover with clean road scrapings and roll as before.

Footway.—The footway should be excavated 5 in. below finished surface; fill in with a coat of rock sand or cinders; 3 in. flagging, asphalt, or artificial stone, in accordance with conditions mentioned before, should be laid on this, with a fall of 1 in. in 3 ft. towards the kerb. Flags to be not less in area than $\frac{1}{4}$ superficial feet.

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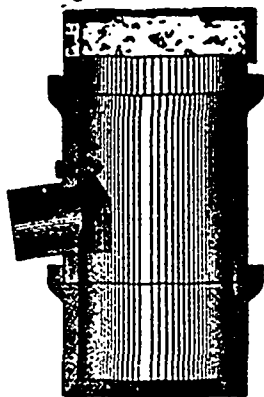
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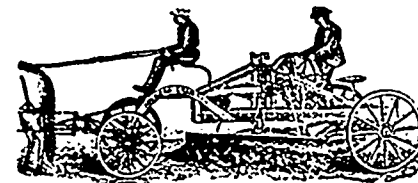
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All communications promptly answered.

Prices of Building Materials.

CONDITION OF THE MARKET.

Builders' supplies for the past week have been somewhat active, and prices are firm. In general hardware a very satisfactory business is reported.

LUMBER.

CAR OR CARGO LOTS.

Table with columns for Toronto and Montreal prices for various lumber types including clear picks, mill run, siding, and shingles.

YARD QUOTATIONS.

Table with columns for Toronto and Montreal prices for mill cull boards, shipping cull boards, hemlock, and various treated lumber.

Table with columns for Toronto and Montreal prices for White ash, Black ash, Dressing stocks, Picks, American inspection, and Three uppers, Am. inspection.

BRICK - M

Table with columns for Toronto and Montreal prices for Common Walling, Good Facing, Sewer, Pressed Brick, and various types of bricks.

SAND.

Table with columns for Toronto and Montreal prices for Per Load of 1 1/2 Cubic Yards.

STONE.

Table with columns for Toronto and Montreal prices for Common Rubble, Large flat Rubble, Foundation Blocks, Kent Freestone, River John, Freestone, Ballochmyle, New York Blue Stone, Granite, Madoc Rubble, Madoc dimension floating, Ohio Freestone, No. 1 Blue Dimension, No. 1 Buff Promiscuous, and Slate roofing.

SLATE.

Table with columns for Toronto and Montreal prices for Terra Cotta Tile, Ornamental Black Slate Roofing, and various slate roofing types.

PAINTS. (In oil, @ lb.)

Table with columns for Toronto and Montreal prices for White lead, Red lead, Venetian, Vermillion, Indian, Yellow ochre, Yellow chrome, Green chrome, Paris, Black lamp, Blue, Ultramarine, Oil, Linseed, Putty, Whiting, Paris white, Litharge, Sienna, and Umber.

CEMENT, PORTLAND, etc.

Table with columns for Toronto and Montreal prices for Cement, Portland, German, London, and Newcastle.

Table with columns for Toronto and Montreal prices for Cement, Belgian, Canadian, Roman, Parian, Superfine, Thorold, Queenston, Napanee, Hull, Keene's Coarse Whites, Calcined plaster, Fire Bricks, Lime, Plaster, and Hair.

HARDWARE

Table with columns for Toronto and Montreal prices for Cut nails, Steel wire nails, Iron pipe, Lead pipe, Galvanized iron, Structural iron, and various hardware items.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table listing advertisements for Architects, Cements, Heating, Roofers, Art Woodwork, Builders' Supplies, Church and School Furniture, Grates and Tiles, Church Reflectors, etc.