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EVERY THURSDAY

THIS PAPER REACHES EVERY WEEK THE TOWN AND CITY CLERKS, TOWN AND CITY ENGINEERS, COUNTY CLERKS AND COUNTY ENGINEERS THROUGHOUT CANADA.

Vol. 5.

JANUARY 17, 1895

No. 50

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

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Notice to Contractors

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to eleven o'clock a.m. on SATURDAY, JANUARY 19th, 1895, for the construction of a

SEWER ON PEARS AVENUE

from Avenue Road to Bedford Road.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after the 12th inst.

A marked cheque payable to the order of the City Treasurer, Toronto, for 5 per cent. of the amount tendered for must accompany each and every tender, otherwise it shall be ruled out as informal. The lowest or any tender not necessarily accepted.

DANIEL LAMB,
Chairman of Committee on Works.

Committee Rooms, Toronto, Jan. 4, 1895.

Notice to Contractors

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A new and thoroughly revised edition of the *Canadian Contractor's Hand-Book*, consisting of 250 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

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CONTRACTS OPEN.

GLENCOE, ONT.—A new town hall is to be erected here.

ARNPRIOR, ONT.—The question of constructing waterworks is under consideration.

BROCKVILLE, ONT.—A new wing will be built next summer to Rockwood asylum.

LIMEBANK, ONT.—Andrew Findlay intends erecting a new stone house next summer.

GUELPH, ONT.—A site has been erected for the proposed rolling mills to be built here.

NORTH HATLEY, QUE.—A. J. Gordon has purchased a lot and intends building in the spring.

MIDLAND, ONT.—W. H. Bennett, M.P., is rebuilding his brick block on King st., recently burged.

ST. THOMAS, ONT.—The by-law to erect a new city hall was defeated by ratepayers last week.

WELLINGTON, ONT.—The Methodists propose building a new church before the end of the year.

SHERBROOKE, QUE.—The City Council has given to the Jenckes Machine Co. a site on which to erect their factory.

NAPANEE, ONT.—It is stated that Frank Dryden, of Toronto, contemplates putting in an electric light plant here.

STRATFORD, ONT.—The by-law to raise the sum of \$16,000 to purchase an electric light plant for the city, was defeated by the ratepayers last week.

QUEBEC, QUE.—The Quebec Legislature has voted the sum of \$100,000 to the Great Northern Railway to aid its extension to Parry Sound, Ont.

OSHAWA, ONT.—The Ontario Malleable Iron Co., whose works here were burned recently, have decided to rebuild.

KINGSTON, ONT.—It is contemplated by the Dominion Government to build this winter a large wharf along the barrack front, extending from Bridge to Barrack street.

MONTREAL, QUE.—At the last meeting of the Protestant School Board, a report from the Building Committee recommending certain changes in the plans for the proposed new school on St. Denis street, was presented and adopted.

KNOWLTON, QUE.—The ratepayers will vote on a by-law on the 29th of January to raise the sum of \$16,000, by the issue of debentures, for the construction of a system of waterworks and drainage. The by-law has been passed by the Council.

TORONTO JUNCTION, ONT.—A by-law was passed by the Council on Monday last granting exemption from taxation to a company which proposes to establish a foundry here to manufacture steel and malleable iron castings. The company are represented by Wm. H. Gore, of Elgin, Ill., and are to build a foundry on the Weston Road, the site having been purchased.

St. JOHN, N. B. The congregation of the Main st. Baptist Church here propose erecting a new building. Mr. H. H. Mott, architect, will have charge of the work.—The Church of the Messiah in this city, which is being erected under the supervision of Mr. Mott, is nearing completion.

HAMILTON, ONT.—Mr. J. Fensom, of Toronto, the engineer of the Mount Hamilton Incline Railway, is completing designs for the engines and boilers. Tenders are now being asked for the ties and rails, and next week work will start on the buildings. The intention of the company is to have the railway running by May 15.

CHATHAM, ONT.—The Managers of the General Hospital are considering the erection of an addition to the building.—The Public School Board propose to build a new central school. The board owns \$40,000 of school lands, and application will likely be made to the Legislature for power to utilize this property to defray the cost of the new building.

BRANTFORD, ONT.—Application is to be made for the formation of a company, having for its object the running of radial electric roads from Brantford to Paris, Galt, Simcoe and Port Dover. The gentlemen who are moving in the matter include Messrs. T. Elliott, H. McK. Wilson, Q.C., C. H. Waterous, Dr. Secord and P. L. Connor.—The by-law to purchase the present site of the Waterous Engine Works has been adopted by the ratepayers. As a result the company will at once commence the erection of new buildings capable of employing 400 men.

WINNIPEG, MAN.—The Manitoba Government is said to be making arrangements to construct a line of railway from this city to connect with lines in British Columbia. It is also understood that legislation will be passed authorizing the construction of a line south-easterly from Winnipeg to the boundary line, there to connect with roads to Duluth.—S. Frank Peters, architect, left last week for Toronto, where he will consult with the directors of the Western Assurance Co. regarding the re-building of their block in this city, for which he has prepared plans.

HALIFAX, N.S.—J. C. Dumaresq, architect, has just prepared plans for the following work: Block of stores and offices for Black & Co., Truro, N. S., brick and stone, 90 x 75 ft., 3 storeys; Merchants' Bank of Halifax, Newcastle, Miramichi, N. B., to be built of free stone; addition to buildings in connection with St. Francis Xavier College, Antigonish, N.S., 70 x 200 ft., two-storey and mansard, built of brick and stone; Halifax Infirmary, cor. Barrington and Blowers sts., this city, brick and stone, three storeys, 86 x 96 ft.; Y.M.C.A. building, Sprucehill, N. S., 40 x 90 ft., wood, two storeys, with pitch roof; dwelling for E. M. Clay, Gottingers st., this city.

OTTAWA, ONT.—J. H. Balderson, Secretary Department of Railways and Canals, will receive tenders until Saturday

next, the 19th inst., for the construction complete in the Sault Ste. Marie Canal of 4000 lineal feet of a four-log boom. Plans may be seen at the office of the Chief Engineer of Railways and Canals in this city.—Mr. Robert Surtees, City Engineer, invites tenders on behalf of the city until Wednesday, the 20th of February, for the construction of asphalt roadways with limestone curbing on Sparks and Bank streets. This work is quite extensive and is to be tendered for separately, the Sparks street tender to be accompanied by a marked cheque for \$1,500 and the Bank street tender by that for \$1,300. It is understood that new tenders will in all probability be invited for section 1 of the the Peterboro and Lakesfield division of the Trent Valley Canal, the Department of Railways and Canals having decided on a different route.

TORONTO, ONT.—The congregation of the Holy Blossom Synagogue, now worshipping on Richmond street, have decided on the erection of a new building, and have selected a site on Bond street, between Wilton avenue and Gould street. Several architects are said to be preparing plans for the work, and a selection will be made at an early date. The cost of the building will be between \$30,000 and \$40,000.—The Separate School Board has selected a site for the proposed new school in the east end, on the west side of Bolton avenue. Building operations will be commenced at once.—E. B. Jarvis, architect of the McKinnon building destroyed by fire last week, has commenced preparations for rebuilding. The new building will be erected from the same plans as the one destroyed. From 15 to 20 miles of block pavement throughout the city require to be renewed during the present year, but the extent to which the work will be carried out depends largely upon the willingness of the property owners on whom the cost would be placed under the local improvement system. It is probable that wood blocks will have to be again put down on many of the streets, as this is the only kind of pavement which the property owners are at present in a position to afford. Among the other work to be carried out this year, will be the expenditure of about \$15,000 to \$20,000 on sewers, the laying of a large water main on Front street, the construction of bridges at York and John streets by the C. P. R. and G. T. R. companies, the erection of stables for the horses of the Street Commissioners Department, at a cost of \$5,000 and the completion of the work at Ashbridge's bay. At a meeting of the City Council held on Tuesday, it was definitely decided to purchase additional fire apparatus. Chief Ardagh recommended the purchase of two steam fire engines and one water tower, the cost of the former being placed at \$18,000 and the latter at \$7,000. The report was adopted by the Council, and tenders will be asked for at once. A letter was read from Ald. Lamb suggesting that the city ask for tenders for a fire engine to be

operated by electricity, the Toronto Railway Company having offered to furnish the necessary power, but no action was taken in the matter.—While in Montreal a few days ago, Mr. Keating, City Engineer, interviewed the officials of the C. P. R. and G. T. R. companies relative to the bridges over John and York streets, in connection with the new Union Station, and received assurances that the work would be proceeded with without delay.—A building permit has been granted to the Wm. Davies Co., for the erection of an addition to rear of 9790 Yonge st., cost \$2,500.

FIRES.

The brick residence of David Walker, at Owen Sound, Ont., was totally destroyed by fire on the 11th inst. The loss is partially covered by insurance.—The Victoria hotel on Palace street, Quebec, was damaged by fire last week to the extent of \$25,000, a brick wing being totally destroyed. The building was owned by Benjamin Trudel.—The Presbyterian church at Madoc, Ont., was destroyed by fire on the 14th inst. Loss, \$10,000; insurance, \$6,000.—Richard Isle's residence at Midland, Ont., has been burned. Loss, \$1,200; insurance, \$650.—The Masonic Temple at St. Catharines, Ont., was destroyed by fire on Monday last. The building was occupied as a business college on the ground floor, the Public Free Library on the second floor, and by societies on the third floor. It was three stories high with tower and iron front, and was insured for \$10,000.—The Hame Company's premises at Merrickville, Ont., including machinery and contents, were destroyed by fire on the 10th inst. Loss, \$3,500. The electric power house was also burned, causing a loss of \$1,500.—The railway hotel at Bracebridge, Ont., owned by Geo. Neil, was burned on Monday last. Loss, \$2,000; partially covered by insurance.—The dry goods establishment of E. E. W. McGaffey, at Lindsay, Ont., was damaged by fire last week. The loss on the building, which is owned by the Dominion Bank, is placed at \$1,200, covered by insurance.—Toronto was visited by another disastrous fire on Thursday of last week, which destroyed six wholesale houses, and caused damage amounting to a quarter of a million dollars. The buildings burned were: Os-goodby building, owned by J. W. Woods, loss \$60,000; insurance \$25,000; Hart & Riddell's building, owned by J. T. Reid, loss \$30,000, insurance same amount; buildings owned by Snarr Estate, loss \$35,000, insurance \$25,000; R. H. Gray & Co.'s warehouse, loss \$40,000, insurance \$30,000; Brieron & Mannings' warehouse, owned by Major Carlin, of the Grand Trunk, loss \$40,000, insurance \$25,000; Dr. Abbott, buildings, loss \$25,000, covered by insurance.

CONTRACTS AWARDED.

MONTREAL, QUE.—Mr. H. R. Falbord, architect, has awarded contracts for four houses for A. Lawrence on Walker street, St. Henry, as follows: carpenter and joiners' work, A. Lawrence; roofing and plumbing, Blouin, Girard & Collard; plastering, Joseph St. Maurice; painting, and glazing, O. Cauchon.

TORONTO, ONT.—The Parks and Gardens Committee have accepted the tender of the Thompson Electric Co., of Waterford, Ont., for an electric light plant for Island Park, at the price of \$1,000. The City Engineer has recommended the acceptance of the Toronto Dredging and Contracting Company's tender for constructing borings across the bay, their figure being \$3,815.16. Two other tenders were received, the amount being \$4,715.30 and \$4,453.50.

A demand of assignment has been made on J. B. Tremblay, contractor, Montreal. His liabilities are said to amount to \$2,000.

Lipsell Bros., brickmakers, Mount Bridges, Ont., have made an assignment with liabilities of \$3,000 and assets about \$2,000.

IMPROVEMENTS IN GLASS MAKING.

The manufacture of glass has progressed so rapidly in the last twelve years, that it may now permanently be asked, what cannot be done with glass? M. J. Henrivaux, a prominent French manufacturer of this article, an original and enthusiastic inventor, has recently proved to us, by means of a veritable museum of curious samples, says the Journal des Debats, that everything is becoming possible to the modern glass maker. Even conducting pipes of large diameter have been made of it, tiles, drains, tubes, curtains, furniture, chimneys, and even houses.

Glass is now blown mechanically. M. L. Appert, vice-president of the Society of Civil Engineers, some years ago substituted for the human breath an injection of compressed air. This was a great advance in the perfecting of glass making. The work of blowing was painful and injurious to the health of the workmen. To-day it is the machine which blows; the lungs rest. And as this machine has the breath of a giant, it has become very easy to manufacture objects of great size. This industry has been still further revolutionized by methodical moulding. This was formerly done by placing the glass, which had been made plastic by heat, between two metallic surfaces. But these surfaces cooled too quickly, and the glass with them that it was impossible to obtain large pieces. M. Appert went resolutely to work to find some way of moulding while the glass was in a malleable condition, so that larger pieces could be made. At a short distance from the melting oven is fixed a post, to which a vertical mould is attached, which opens in two or three places on hinges. This mould is of very thick cast iron, and retains the heat. A vertical core moved by a machine crosses the mould from side to side. The melted glass is poured into this mould in suitable quantities. The core is turned rapidly. The glass is driven against the wall of the mould and takes the impression. Several moulds are grouped and form a battery. If pipes are to be moulded, a length of two metres is given to each one, the battery is comprised of eight moulds and cores; these easily perform fifteen operations an hour, and produce thirty metres of pipe, which with the waste, gives a production of 500 metres a day. By this method glass pipes are produced which rival those of sandstone and even of cast iron, and which have the advantage of not being affected by the soil. The resistance of glass is very great. Glass slabs can very easily support carriages of great weight, and champagne bottles are veritable explosive machines, charged with a pressure of twenty-five atmospheres. For certain experiments in Physics, gas, with a pressure of 100 atmospheres, has been sometimes placed in glass tubes.

M. Henrivaux hopes to have a house made entirely of glass as one of the sights of the next exposition. The walls will be constructed of an iron skeleton, on which will be placed slabs of glass in such a manner as to form a double wall, in the interior of which hot air will be circulated in winter, and in summer compressed air, which will cool the walls. The roof will be of glass on a network of iron, and also the walls, the staircases, &c. As glass lends itself readily to all kinds of decorations, brick, marbles, &c., can be imitated.

Flat surfaces are now being manufactured which are very pretty. On one of the surfaces are shown, in relief, various designs obtained at the moment of cooling by the action of a stamping roller. These can be gilded or silvered in various combinations they are used in decorating walls, ceilings, &c. We will soon even have glass hangings and tapestries. M. Henrivaux draws on glass with an aluminum pencil. The metal remains on the glass, and the designs appear in very soft tones. We may look forward to many surprises connected with this material.

McKay Bros., painters, Vancouver, B. C., have assigned.

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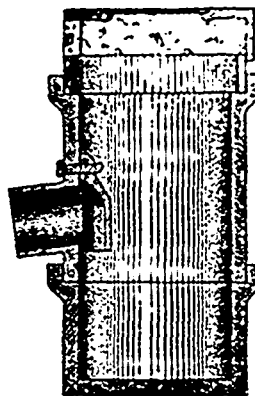
THE second annual meeting of the above association will be held in the Y.M.C.A. building, Yonge st., Toronto, on the afternoon and evening of Feb. 7th, and the forenoon of Feb. 8th—three sessions. While the programme for the meeting has not yet been completely arranged, it is expected that there will be addresses and papers from a number of prominent men interested in the movement, in addition to some of the officers of the Association. Delegates have been invited from the Boards of Trade, the Municipal Bodies, and the various Agricultural Associations and Societies of the Province.

PERPETUAL vigilance is the price of immunity from fire, says the Monetary Times. Every town in Canada should examine its fire appliances once a month, should test the cisterns, see that the fire bell can be got at and will ring; take the engine out and set it working; inspect the hose and play through it; strengthen the chain of fire defence at its weakest link. Only by such precautions can a community be ready to fight fire when it comes—as come it will.

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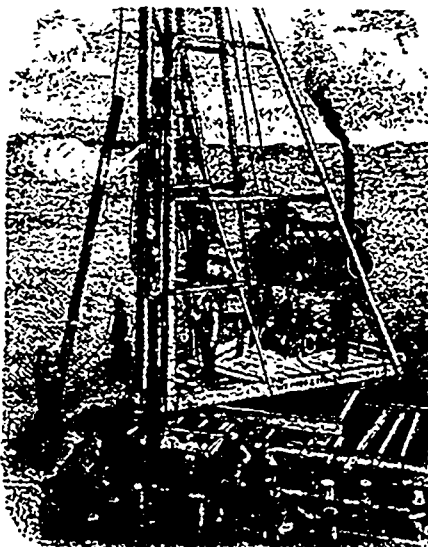
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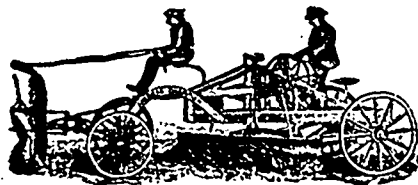
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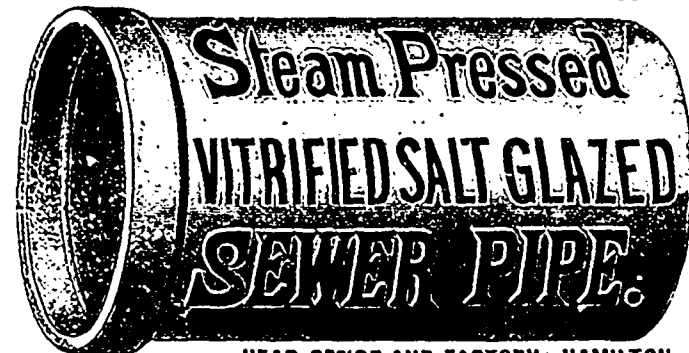
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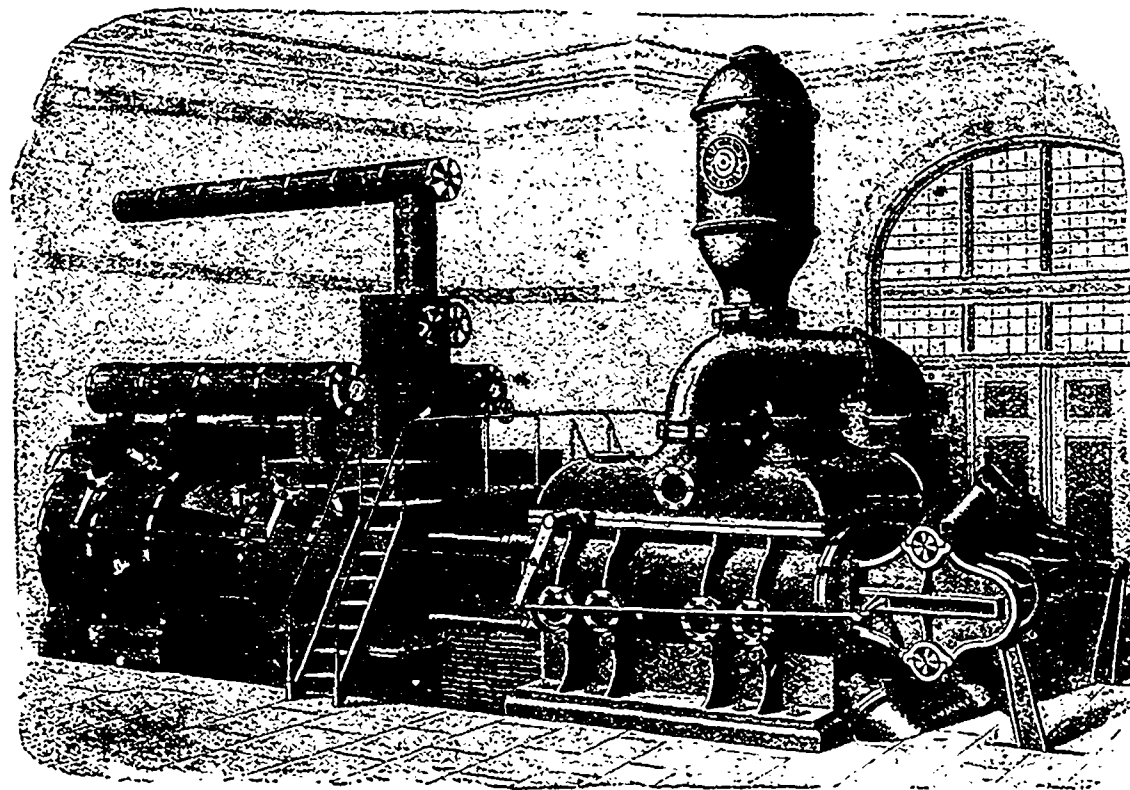
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CAR OR CARGO LOTS.

Toronto. Montreal.

Table listing lumber prices for various grades and sizes, including 1 1/2 inch clear picks, 1 inch clear, and various mill runs.

VAID QUOTATIONS.

Table listing mill cull boards and scantling prices for various sizes and quantities.

Table listing floor prices for dressed and undressed lumber in various sizes.

Table listing building materials like Beaded sheeting, Clapboarding, and various types of sawn lath.

Table listing BRICK prices for Common Walling, Good Facing, and Sewer.

Table listing Pressed Brick prices for Red, Buff, Roman Red, and other varieties.

Table listing SAND prices for 1st quality and 2nd quality.

Table listing STONE prices for Common Rubble, Large flat Rubble, and various types of Freestone.

Table listing Slate prices for Roofing and Ornamental Black Slate.

Table listing PAINTS prices for White lead, Zinc, and various colors.

Table listing CEEMENT, LIMK, etc. prices for Portland Cement and other materials.

Table listing Cement prices for Canadian, Roman, and other brands.

Table listing Lime and Plaster prices for various types.

Table listing HARDWARE prices for Cut nails, Steel, and various types of nails.

Table listing CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX prices.

Table listing FINISHING NAILS and SLATING NAILS prices.

Table listing COMMON BARREL NAILS and CLINCH NAILS prices.

Table listing SHARP AND FLAT PRESSED NAILS prices.

Table listing STEEL WIRE NAILS and Iron Pipe prices.

Table listing Galvanized Iron prices for various gauges and types.

Table listing Structural Iron prices for Steel Beams and other materials.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table listing various categories of advertisements such as Architects, Cements, Heating, Roofers, etc.