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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 THROUGHOUT CANADA.

Vol. 5.

JUNE 28, 1894

No. 21

**THE CANADIAN CONTRACT RECORD,**  
PUBLISHED EVERY THURSDAY  
As an Intermediate Edition of the "Canadian Architect and Builder."

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

O. H. MORTIMER, Publisher,  
CONFEDERATION LIFE BUILDING, TORONTO.  
Telephone 2352.  
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.

At its Convention held in Toronto, Nov. 20 and 21, 1893, 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, 1893: "Resolved by M. Perrault, seconded by A. P. Duinton, 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."

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publisher of any irregularity in delivery of paper.

## BARTER AND EXCHANGE.

This department has been opened for the speedy barter and exchange of second-hand plant or material, or small lots of new or second-hand materials by builders and others who regularly engaged in the sale of such articles. Advertisements other than those of the above description will not be inserted.

RATES—12 words and under, 15 cents; each additional word, 1 cent (three figures count one word); on two or more subsequent insertions a discount of 10 per cent. will be allowed. Not more than four insertions of an advertisement can be granted.

Replies to advertisements may be addressed to a box at this office, in which case necessary stamps must be sent for re-mailing replies. Advertisements for this department must be prepaid.

**FOR SALE**—Wood and glass partition, 9 feet high, 18 1/2 feet long, including door 3 x 3 feet. Fine, natural finish, ground glass in panels. In use little more than a year. Cost over \$50. Will be sold at a sacrifice. Box 50, CONTRACT RECORD office.

## TENDERS FOR STEEL BRIDGE

Tenders will be received, up to July 4th, for the erection of a

### STEEL BRIDGE

1 1/2 miles north of Belmore, County Bruce. Bridge to be 33 ft. c. to c. of end pins. Roadway 16 ft. wide, moving load, 100 lbs. per square foot; factor of safety 4. Contractors to furnish their own plans and specifications. Tenders to state price separately. (1) for superstructure; (2) for stone abutments, per cubic yard; and (3) for stone abutments, per cubic yard. Tenders marked "Tender for Bridge," addressed to James Darling, Belleville P. O., will be opened at Belleville at 1 p. m., July 5th. Further information, if required, received from James Darling, Belleville, Joseph Welwood, Wingham; or James Warren, O. L. S., Walkerton.

## CHURCH SEATS FOR SALE

500 sitings, cast iron ends, black ash seat and black and cherry cap, all in first class order. Apply to Harry J. Powell, Architect, Stratford, or to F. A. Campbell, Mitchell, Ont.

## TENDERS FOR STEEL BRIDGE

Tenders will be received up to 12 o'clock noon, July 11th, for the erection of a

### STEEL BRIDGE

over the Teeswater River at Paisley, in 2 spans—one to be 120 feet c. to c., and one 50 or 60 feet under truss, price for each length required separately. The bridge to rest on cylinders filled with concrete on piles of 3, 4 and 3 1/2 feet diameter, and about 20 feet high. Separate tender wanted for the 3 foot cylinders. Roadway, 18 ft. clear; load 100 lbs. per square foot; factor of safety 4. Contractor to furnish temporary bridge on present street level. Needle beams to extend at each side for a 5 ft. sidewalk to be built by Corporation. The floor of bridge to have a grade of 4 feet on the length of bridge.

Tenders to be addressed to Dr. McArton, Reeve, Paisley. Further information received from James Warren, Engineer, Walkerton.

## TENDERS FOR FRASER RIVER BRIDGE

Separate sealed tenders, properly endorsed, will be received by D. Robson, City Clerk, at the City Hall, New Westminster, British Columbia, until 4 p. m. of the 1st of July, next, for the construction of a combined

### RAILWAY AND TRAFFIC IRON BRIDGE

Over Fraser River at New Westminster, B. C. Plans, specifications and forms of tender may be seen at the City Hall. A set of printed specifications and forms of tender and blue prints of plans will be furnished to any person applying on payment of \$50. Persons tendering may furnish alternate plans with tenders based thereon for the several parts of the work, but such plans must provide for a first-class combined railway and traffic bridge with steel and iron superstructure. The lowest or any tender not necessarily accepted.

A. M. HERRING,  
Chairman Bridge Committee.

New Westminster, B. C., June 5th, 1894.

## TENDERS

will be received up to July the 7th, at noon, at the undersigned office, for a

SELF CONTAINED RESIDENCE, COTE ST. ANTOINE.

H. AUSTIN JONES,  
Architect, Montreal.

## CITY PUBLIC SCHOOLS

Tenders Wanted for Single School Desks and Seats.

Sealed tenders for Desks and Seats required during the present year will be received by the Secretary-Treasurer of the Toronto Public School Board until

FRIDAY NOON, JUNE 29TH.

Further information may be obtained on application at the office of the Superintendent of Buildings, Mr. C. H. Bishop. Each tender must be accompanied by an accepted bank cheque for 5 per cent. of the amount of tender, as per regulation of the Board.

The lowest or any tender will not necessarily be accepted.

J. C. CLARKE,  
Chairman of Committee.

W. C. WILKINSON,  
Sec. Treas. Public School Board.



SEALED TENDERS addressed to the undersigned and endorsed "Tender for Coal, Public Buildings," will be received until Wednesday, 18th July, next, for Coal supply for all or any of the Dominion Public Buildings.

Specification, form of Tender and all necessary information can be obtained at this Department on and after Wednesday, 27th inst.

Persons tendering are notified that tenders will not be considered unless made on the printed forms supplied, and signed with their actual signatures.

Each tender must be accompanied by an accepted bank cheque made payable to the order of the Honourable the Minister of Public Works, equal to five per cent. of the amount of the tender, which will be forfeited if the party decline to enter into a contract when called upon to do so, or if he fail to supply the coal contracted for. If the tender be not accepted the cheque will be returned.

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

By order,  
E. F. E. ROY,  
Secretary.

Department of Public Works,  
Ottawa, June 22nd, 1894.

## BUSINESS NOTES.

Archibald Dunlop, contractor, Halifax, N. S., has assigned to James Dempster.

The stock of Thomas Burrows, plumber, Hamilton, is advertised for sale on the 29th inst.

Decary, Decary & Beaudoin have formed a partnership in Montreal as plasterers.

Joseph Harrison, plumber, 136 King street West, Toronto, has assigned to Warden King & Son. Liabilities \$3,000.

The marble quarry at Phillipsburg, Que., owned by the Phillipsburg Junction Railway & Quarry Co., is offered for sale or lease.

The Vulcan Iron Works, of Winnipeg, will go into the hands of a receiver. The liabilities are \$70,000, with assets in excess of that amount.

## CONTRACTS OPEN.

MEDICINE HAT, N. W. T.—Abattoirs are to be erected here.

RAT PORTAGE, ONT.—An aerial bridge is to be built connecting Rat Portage with Coney Island, cost \$5,000.

SANDWICH, ONT.—The by-law for the extension of the waterworks has been defeated by the ratepayers.

WINCHESTER, ONT.—Debentures will be issued to the amount of \$4,000 for a fire engine and appliances.

WINGER, ONT.—Mr. D. J. Swayze will receive tenders until the 30th inst. for the erection of a brick church near this place.

LISTOWEL, ONT.—A new grist mill will shortly be erected here. Messrs. James Gray and W. G. Hay are among the promoters.

KINCARDINE, ONT.—The ratepayers will vote on a by-law on the 9th of July to provide the sum of \$10,000 for the installation of an electric light plant.

PETERBORO', ONT.—The Peterboro' County Council has decided on the erection of a House of Refuge. The Town Council will be asked to grant assistance.

ST. THOMAS, ONT.—Mr. James A. Bell, C. E., is preparing plans for the township of Yarmouth for a new bridge to replace the Tiger bridge across Catfish Creek.

WALKERVILLE, ONT.—Plans have been prepared by Mr. McLean, architect, for an \$8,000 residence on Second avenue, between Brant and Wyandotte streets, for Alderman Bott.

IBERVILLE, QUE.—The town has granted a bonus of \$600 per year for ten years to Mr. Black for the establishment of a pottery here to manufacture porcelain sinks and baths.

WARSAW, ONT.—Mr. Richard Tedford, of this place will receive tenders until the 6th of July, for the erection of a brick addition to school house, school section No. 1, Drummer.

HULL, QUE.—The City Council have passed a by-law giving Mr. Geo. Matthews the privilege of erecting a pork factory in the outskirts of the city. Building operations will be commenced at once.

FORT WILLIAM, ONT.—The Town Council has received a communication from Mr. John King, representing a company who desire to build a pulp mill at this place. The cost of the undertaking is estimated at \$300,000.

GUELPH, ONT.—Tenders are being received by the Rev. Mother at St. Joseph's Hospital in this city, for the excavating and masonry of an addition to the above hospital. The other trades will be let at a later date. The architect is Mr. Robert Clohocy, of Hamilton.

WINNIPEG, MAN.—A test is now being made by the City Engineer to ascertain if an adequate water supply for the city could be obtained from artesian wells. Should the test prove successful, a number of wells will be sunk in close proximity

to each other, and a waterworks plant constructed.

**QUEBEC, QUE.**—It is proposed to erect a monument to the founder of Quebec, Samuel de Champlain.—A large deputation interviewed the Dominion Government, last week, to ask for a subsidy for bridges on the Lake St. John Railway, between Chambord and Chicoutimi, and for 88 miles of the Great Northern Railway yet to be constructed.

**BELLEVILLE, ONT.**—The County Council has decided to rebuild Wyman's bridge, at a cost of \$15,000, and Gordon's bridge. Mr. English is Chairman of the Roads and Bridges Committee.—The City Council has granted a franchise to Messrs. S. E. Legier & Sons to build and operate an electric railway on the streets of this city. The work will be begun at once.

**HALIFAX, N. S.**—Mr. A. N. Whitman has purchased a large lot on Pleasant st., on which he will erect a new residence.—Mr. R. J. Wilson, Secretary School Commissioners, will receive tenders until Monday, the 2nd of July, for the following works: The erection of an addition to the bloomfield school, from plans to be seen at the office of Mr. H. S. Tremaine, architect, Queen Building, and for erecting a class room in the lower story of the Yonge street school from plans prepared by Mr. Henry Busch, architect, 60 Bedford Row.

**LONDON, ONT.**—Mr. John M. Moore, Superintendent of Waterworks, will receive tenders until the 28th inst. for erecting a brick coal shed and workshop at Springbank.—Building permits have been issued at the City Engineer's office as follows: Judge E. Elliott, two-story brick residence on Wellington street; Mrs. Carrie E. Graham, double brick residence on Waterloo street between Hyman and Pall mall streets, cost \$3,000.

**HAMILTON, ONT.**—Interest in the project for the erection of a University for women in this city has again been revived. The Government will be asked to grant financial assistance.—The by-laws authorizing the City Council to issue debentures for \$150,000 for paving King and James streets with Trinidad asphalt, and for \$20,000 for a House of Refuge, were carried by the ratepayers on the 20th inst. The paving work will be proceeded with at once.—We understand that Mr. A. W. Peene, architect, has been commissioned to prepare plans for the proposed new opera house to be erected in this city by a company in which Mr. O. E. Konkle is interested.—Building permits have been granted as follows: Louis E. Chagnon, one two-story brick dwelling on Wentworth street, between Cannon and Barton streets, cost \$1,200; James Anderson, two-story brick dwelling on Maria street, between John and Hughson streets, cost \$2,000; M. Brennen estate, twelve two-story brick dwellings, southeast corner Cannon and Mary streets, cost \$12,000; O. E. Konkle, five two-story brick dwellings, northwest corner of John and Gore streets, cost \$9,000.

**TORONTO, ONT.**—Mr. A. R. Williams, machinery dealer, Esplanade street, contemplates the erection of a new warehouse, and is receiving quotations for the stone, lime, brick, lumber and dimension timber.—Mr. J. McDougall, Engineer for County of York, has taken measurements for the new bridge over the Highland Creek. It is likely that a stone arch bridge will be built.—Tenders are invited by the Public School Board until noon tomorrow (Friday) for desks and seats required during the present year. W. C. Wilkinson, Sec.-Treasurer.—The Parks and Gardens Committee will probably request the City Council to issue debentures for \$25,000 for improvements to Island Park, such as filling in the lagoons and deepening the channels leading to the wharves.—The City Engineer has been instructed to report on the cost of surveys and borings for a water supply by gravitation from Lake Simcoe.—The City Engineer in his report presented to the Board of Works on Monday last, recommended the construction of a waterworks system

for the Island, at a cost of \$15,000. The recommendation was approved of by the Board, and the work will in all probability be carried out. The engineer also recommended the construction of a sewer on Station street, an eleven foot cement sidewalk on both sides of same street, and a 43 foot asphalt pavement with scoria blocks or granite sets. The total cost of these works is estimated at \$16,581.—Building permits have been granted as follows: John Catto & Son, alterations and additions to stores, 57-61 King st. east, cost \$15,000; J. Moerschfelder, two-story and attic bk. dwelling, 24 South Drive, Rosedale, cost \$4,500.

**MONTREAL, QUE.**—The City Council is asked to make a grant of \$40,000 a year for twenty years for the construction of a bridge across the St. Lawrence river from a point in St. Mary's ward. The bridge is estimated to cost \$5,000,000. The promoters of the scheme are Messrs. H. Hogan, Hon. J. R. Thibault, A. F. Gault and Robert Watson.—Messrs. H. Joseph & Co. have purchased the property at the south-east corner of Notre Dame and Seigneurs streets and contemplate the erection of a fine new building thereon. The Merchants Bank of Halifax has secured the property on the southwest corner of these streets and will also erect a building for use as a branch office.—A sub-committee appointed to report on the advisability of extending the dyke along that portion of Verdun about to be annexed, has reported in favor of the work. Estimated cost, \$40,000.—Mr. C. St. Jean, architect, is calling for tenders for a three storey stone front house to be erected on Montana street for Mr. Latourelle.—Building permits have been granted as follows: L. Rivet, 2½ storey tenement building on Beaudry st., cor. Lagachetiere st., cost \$1,500; Andre Lapiere, two stone front three storey tenement buildings on St. James st., near Fulford st., cost \$7,500; E. Berthiaume 2 storey tenement brick building on Montana st., cost \$1,700; Archbishop of Montreal, two storey brick annex to his palace on Cathedral st., cost \$8,000; Charles Tafard, three storey tenement stone front building on Dorchester street, cost \$4,000; P. Pellerin, alteration to two storey brick building on De Salaberry st., P. Pellerin, 2½ storey tenement brick building on De Salaberry st., cost \$1,700; Isaac Collins, two storey tenement brick building on Ash avenue, cost \$2,000; M. Sallaz, alteration to two storey building on Bourgeois st.—A meeting of the directors of the Atlantic and Lake Superior Railway Company was held in this city a few days ago, at which Hon. J. R. Thibault was elected president. Arrangements are being made for the active construction of the line as soon as the bill before Parliament is passed, and it is expected work will be commenced on several sections of the line this year.—Tenders will be received at Messrs. Perrault & Lesage's office this week for all trades required in the erection of a Bank building and two stores and dwellings on Notre Dame street, corner Mountain street for Mrs. Jos. Theoret. The Bank building to be occupied by a branch of the Hochelaga Bank. The same architects will ask tenders next week for two stores and dwellings on Notre Dame street, for Mr. James Kelly, and one store and dwelling for Mr. D. Gallery, Notre Dame street.

#### FIRES.

The flour mills of W. B. McAllister & Son, at Pembroke, Ont., were badly damaged by fire last week, one wing of the building being completely destroyed. The loss is partially covered by an insurance of \$5,250.—The residence of Charles Patry, Hull, Que., was totally consumed by fire recently. Loss, \$3,000.—Knox church, Colville, Ont., has been destroyed by fire.—Col. Forester's large hotel and store at Sicamous, B. C., was destroyed by fire last week. Loss \$30,000; insurance, \$13,500.—Fire at Indian Head, N. W. T., on the 25th inst. destroyed the Assiniboine hotel, Orchard's drug store, Lee's butcher shop, Thomp-

son's implement warehouse and Bell's hardware store. Total loss, \$10,000.—J. R. Booth's large saw mill on the Chaudiere river, near Ottawa, was totally consumed by fire on Tuesday last. The mill and machinery were valued at \$200,000. Loss partially covered by insurance.

#### CONTRACTS AWARDED.

**HESPELER, ONT.**—The County Council has accepted the tender of the Hamilton Bridge Co. for a new bridge at this place, to consist of 3 spans, each about 40 feet long. Plans were prepared by Mr. H. J. Bowman, C. E., of Berlin.

**PORTAGE LA PRAIRIE, MAN.**—The contract for the erection of the new court house has been awarded to Mr. T. M. Beamish, of Brandon. Contract price, \$23,544.—The contract for a new ward school has been let to Messrs. Gray & McCaig, at \$7,787. Mr. George Browne, Winnipeg, architect.

**MONTREAL, QUE.**—The Market Committee has awarded the contract for rebuilding St. Antoine market to Mr. A. Chartrand, at the price of \$8,870. The plans were prepared by Messrs. Perrault & Mann.—Mr. C. E. Fournier, architect, has awarded contracts for a two story brick house on Mitcheson ave., for Mme. J. A. Denis, as follows: masonry, Elie Gauthier; brickwork, Mr. Rochon; carpenter and joiner's work, A. Amyot; other trades not let.—Mr. W. McLea Walbank, architect, has awarded contracts for two three-storey stone front stores and dwellings on Notre Dame street west for Mrs. Reineger as follows: masonry, Louis Hughes; brickwork, T. W. Peel; carpenter's and joiner's work, W. Swan.—Messrs. Perrault & Lesage, architects, have awarded contracts for two three storey stone front stores and dwellings on Notre Dame street west, for Mr. John Kane as follows: masonry, H. Dufort; steel work, Dominion Bridge Co.

#### NEW COMPANIES.

**PICTOU, N. S.**—Cairo Polish Co.; seeking incorporation; capital, \$12,000; to manufacture brick, tiles, pipes, paints, etc.

**HAMILTON, ONT.**—Young & Brother Co., seeking incorporation; capital \$150,000; to manufacture plumbers and steam fitters' supplies, lamp goods, etc.

**MONTREAL, QUE.**—North American Construction Company, seeking incorporation; capital stock, \$100,000; to deal in materials for pavements, roadways, buildings, etc., and to construct public and private works of all descriptions; first directors, N. Connolly, M. Connolly, James Swift, J. F. Coleman, and R. A. Dickson.

#### MUNICIPAL DEPARTMENT.

##### A SEWER ON PILES.

Owing to the soft mud great difficulty was found in building the new sewer which is to occupy the Aramingo Canal from the river to Huntingdon Street, Philadelphia. After considering other devices the plan was hit upon of using an extensive system of piling.

Great yellow pine timbers, twelve inches square, are to be driven to solid bottom, three feet apart. Transversely in these will rest yellow pine planks, 8x8 inches. Broken stone will be filled in two feet deep around the heads of the piles to brace them. On the transverse timbers is a plank flooring, six inches thick, and above this the sewer is built, secured at the bottom by a bed of heavy stones laid in concrete. The main sewer will be nine feet six inches in diameter. Below York Street there will be twin sewers, each eight feet in diameter.

The construction of the canal sewer necessitates the entire reconstruction of the ten-foot sewer on Huntingdon Street as far westward as Sepviva Street, in order to secure the proper slope for drainage. The work will cost nearly \$1,500,000, and will be completed under favorable conditions in about a year.

#### A NEW GULLY CLEANER.

A new machine for this purpose, invented by Mr. Pearson, the city hall engineer, Montreal, consists of an air-tight iron tank and an air-pump. The latter is operated by the revolution of the wheels of the carriage, and creates a vacuum in the tank, while the vehicle proceeds from one point to another. When the gully is reached a rubber hose is dropped down into it and the atmospheric pressure immediately forces the slush into the tank. Anything weighing less than 14 pounds to the square inch is pumped up. The new invention executes in a very neat manner what has heretofore been a long dirty job. Those who have operated the machine now being tested says that it has done all that was claimed for it.

#### DEBENTURES WANTED.

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to G. A. STYMON, 9 Toronto Street, Toronto. N.B.—Money to loan at lowest rates on first mortgage.

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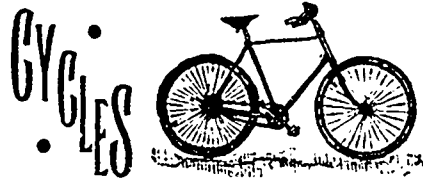
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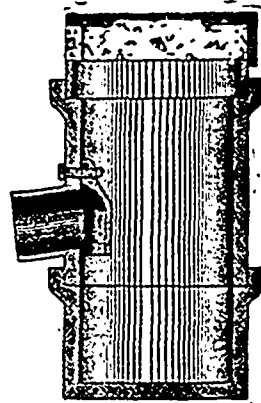
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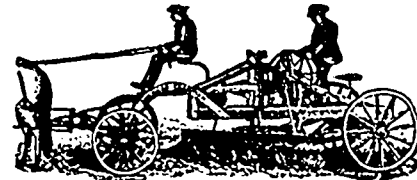
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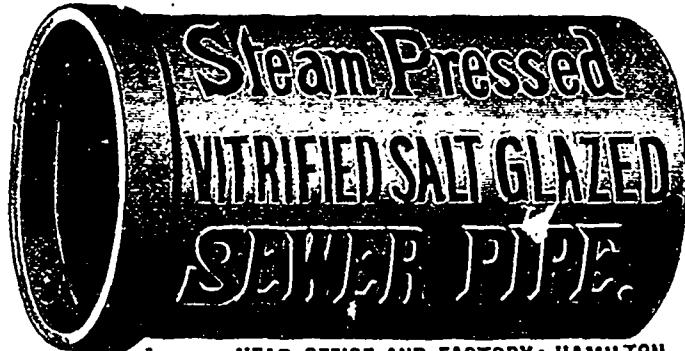
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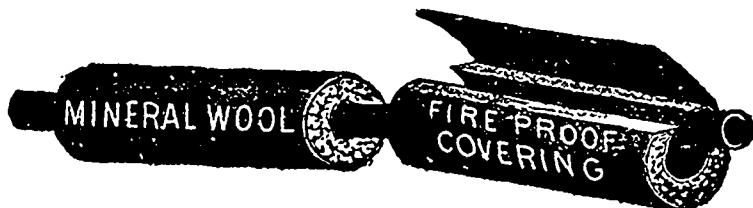
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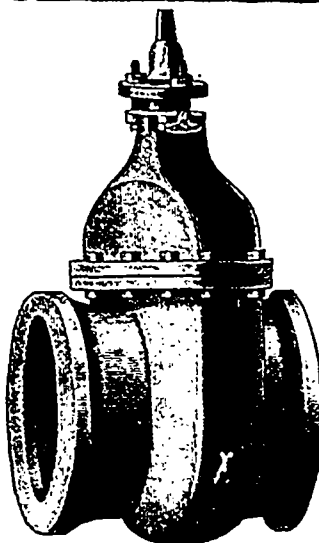
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Prices of Building Materials.

CONDITION OF THE MARKET. Some improvement in the demand for builder's supplies for the country trade is noted, but the city trade remains quiet, as it has been for some time past.

LUMBER CAR OR CARGO LOTS.

Table with columns for Toronto and Montreal prices for various lumber types like 1x2 clear picks, 1x4 clear, etc.

YARD QUOTATIONS.

Table listing yard quotations for mill cull boards, shipping cull boards, hemlock scantling, etc.

Table listing prices for B.M. materials like 1 1/2 inch flooring, 1 1/2 inch siding, etc.

Toronto. Montreal.

Table listing prices for ash, dressing stocks, picks, and three uppers.

BRICK - M

Table listing prices for common walling, good facing, and sewer bricks.

Pressed Brick, Per M:

Table listing prices for various pressed brick types like Red, Buff, Roman, etc.

Table listing prices for 1st quality, 2nd, and 3rd brick, and ornamental brick.

SAND.

Table listing price for per load of 1 1/2 cubic yards.

STONE.

Table listing prices for common rubble, large flat rubble, foundation blocks, etc.

SLATE.

Table listing prices for roofing slate in red, purple, and unlading green.

PAINTS. (In oil, per lb.)

Table listing prices for white lead, red lead, venetian, vermilion, and Indian paints.

CEMENT, LIME, etc.

Table listing prices for Portland cement and various limes.

Toronto. Montreal.

Table listing prices for Belgian, Canadian, Roman, and Superfine cements.

Lime, Per Barrel, Grey.

Table listing prices for various lime types like White, N.S., and Hair Plaster.

HARDWARE.

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

CUT NAILS, FENCE AND CUT SPIKES.

Table listing prices for various cut nails and spikes.

FINE BLUE NAILS.

Table listing prices for fine blue nails.

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

Table listing prices for casing, flooring, and tobacco box nails.

FINISHING NAILS.

Table listing prices for finishing nails.

SLATING NAILS.

Table listing prices for slating nails.

Architects.

Table listing architectural services and iron works.

Bricks (Pressed).

Table listing brick pressing services.

Builders' Supplies.

Table listing various building supply stores.

Builders' Hardware.

Table listing hardware stores like Rice Lewis & Son.

Cedar Shingles.

Table listing cedar shingle suppliers.

Church and School Furniture.

Table listing furniture stores.

Hydraulic Engines.

Table listing hydraulic engine suppliers.

Toronto. Montreal.

Table listing prices for common barrel nails.

CLINCH NAILS.

Table listing prices for various clinch nail sizes.

SHARP AND FLAT PRESSED NAILS.

Table listing prices for sharp and flat pressed nails.

STEEL WIRE NAILS.

Table listing prices for steel wire nails.

Iron Pipe.

Table listing prices for various iron pipe sizes.

Lead Pipe.

Table listing prices for lead pipe.

Galvanized Iron.

Table listing prices for galvanized iron products.

Structural Iron.

Table listing prices for structural iron beams and plates.

INDEX TO ADVERTISEMENTS In the "Canadian Architect and Builder."

Large index table listing various trades and companies including Architects, Cements, Heating, Roofers, etc.