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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. 4.

OCTOBER 5, 1893

No. 33

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

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C. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2362.
64 Temple Building - Montreal.
Bell Telephone 2199.

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

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 30 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."

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.



Notice to Contractors

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, OCTOBER 14TH, 1893, for the following works:

A SEWER

On Queen street, from Markham street to the Garrison Creek sewer.

ASPHALT PAVEMENTS

On Carlton street, from Jarvis street to Sherbourne street.

On Hoskin avenue, from St. George street to Queen's Park Crescent Drive.

Specifications may be seen and forms of tender obtained on and after Saturday, October 7, 1893, at the office of the City Engineer.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000, and 2½ per cent. on the value of the work tendered for over that amount, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal. The committee do not bind themselves to accept the lowest or any tender.

DANIEL LAMB,
Chairman Committee on Works,
Committee Room, Toronto, Sept. 30, 1893.

TO CONTRACTORS

Sealed Tenders, endorsed "New Parliament Buildings, Victoria, Contract No. 2," will be received by the Honourable Chief Commissioner of Lands and Works up to one o'clock p.m. of Thursday, 30th November, 1893, for the several trades required in the erection of New Parliament Buildings at James Bay, Victoria, B.C., viz.:

1. The excavator, mason and bricklayer's work.
2. The carpenter and joiner's work.
3. The slater's and plasterer's work.
4. The coppersmith's work.
5. The smith and ironfounder's work.
6. The plumber's work.
7. The painter's work.

Tenders will be received for any one trade or for the whole work.

The plans, details, &c., as prepared by F. M. Rattenbury, Architect, can be seen at the office of the undersigned on or after Monday, October 16th, 1893, and complete quantities clearly describing the whole of the work can be obtained on payment of \$20 for each trade. This sum will be returned to the contractors on receipt of a bona fide tender.

Each tender must be accompanied by an accepted bank cheque equal to two per cent. on the amount of each trade tendered for, which will be retained as part security for the due performance of the work. The cheque will be returned to unsuccessful competitors, but will be forfeited by any bidder who may decline to execute a contract if called upon to do so.

The lowest or any tender not necessarily accepted.

W. S. GORE,
Deputy Commissioner of Lands & Works,
Lands and Works Department,
Victoria, B. C., September 29th, 1893.



CEDAR POSTS WANTED.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on

Tuesday, October 10, 1893,

FOR THE SUPPLY OF

500 CORDS CEDAR POSTS,

(in lots of 50 cords and upwards), 9 feet in length and from 5½ to 9½ inches in diameter, peeled or unpeeled, l. o. b. at Frederick street siding, Toronto.

For further particulars and forms of tender apply at once to the City Engineer, Toronto.

DANIEL LAMB,
Chairman Committee on Works,
Committee Room, Toronto, Oct. 3, 1893.

The Toronto Plate Glass Importing Company, carrying on business at 137 Victoria street, Toronto, have assigned to E. R. C. Clarkson. The liabilities and assets are said to be about equal.

Messrs. C. B. Wright & Sons, cement manufacturers, of Hull, Que., have been asked to make an assignment. The liabilities of the firm are placed at \$96,632 and the assets \$226,303.



TENDERS FOR STEEL CONNECTION.

Sealed tenders addressed to the City Engineer, and endorsed "Tender for Steel Connection," will be received by registered post only, up to the hour of 11 o'clock a.m. on SATURDAY, 14TH OCTOBER, 1893, for a steel four way connection for 36 inch water main.

Specifications and plans may be seen, and forms of tender obtained, at the office of the City Engineer, Toronto.

A deposit, cash or marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal.

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

DANIEL LAMB,
Chairman of Committee on Works,
Committee Rooms, Toronto, Oct. 3rd, 1893.

Notice to Contractors

CANADIAN CONTRACTORS' HAND-BOOK

A new and thoroughly revised edition of the Canadian Contractors' Hand-Book, consisting of 150 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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BRASS COLORING.

A fine black color, which can be varied to a light brown, can be produced on brass by treatment with an ammoniacal copper solution made by dissolving one part of copper nitrate in two parts of ammonia of specific gravity 0.96, while keeping the solution cool. The brass articles, which must be carefully cleaned, acquire a light tone on first being immersed, but on exposure for some hours become deep black. The treatment can be interrupted when the desired tint is reached. A luster can be put on the articles by rubbing with a little wax or vaseline. The process can be varied and other color effects obtained by treatment of the article after the development of the black color with very dilute hydrochloric acid, which dissolves the coating gradually and thus modifies the tint. The composition of the brass also has an influence on the result, and the coloring produced recalls

that seen on Japanese bronze, which has possibly been obtained by a similar method.

CONTRACTS OPEN.

OSHAWA, ONT.—A new Methodist church is to be built here.

GALT, ONT.—There is some talk that the Y. M. C. A. contemplate the erection of a new building.

CALABOGIE, ONT.—Messrs. McKee Bros. & Co. are preparing the site for the rebuilding of their saw mill.

BEAMSVILLE, ONT. The Beamsville Pressed Brick Company are desirous of receiving quotations on two cars of fire brick.

DUITON, ONT.—At a recent meeting of the Trustees of Knox church, a committee was appointed to report on a suitable site for a manse.

TILBURY CENTRE, ONT. The by-law authorizing the Council to purchase an electric light plant was carried by the ratepayers on Monday last.

RENFREW, ONT.—Wm. O'Meara, Chairman Finance Committee, will receive proposals until the 21st inst. for the purchase of \$17,200 worth of debentures.

BRANTFORD, ONT.—The ratepayers will be asked to grant a bonus of \$15,000 towards purchasing a site for the proposed new works of the Waterous Engine Works Company.

CHARLOTTETOWN, P. E. I.—J. W. Morrison, Secretary of Public Works, will receive tenders until Wednesday, the 15th inst., for constructing a bridge across South Lake, in Kings County.

TRURO, N. S.—A company has been incorporated to build an electric railway in this town. Messrs. M. Dickie, F. A. Lawrence, Wm. Craig and S. G. Chambers are among the promoters.

LOCHWINNOCH, ONT.—Mr. Duncan Henderson will receive bids until the 25th inst. for building a brick church for the Castleford congregation. Plans may be seen at the office of Mr. George Eady, Renfrew.

CORNWALL, ONT.—Mr. T. S. Rubidge, Superintending Engineer, will receive tenders until the 14th inst. for the supply of timber, lumber, cast and wrought iron hardware, etc., required for the Cornwall, Williamsburg and Murray canals during the next twelve months.

VANCOUVER, B. C.—The Hudson Bay Company is about to erect a new warehouse in this city. It will be three stories high and built of brick, with stone trimmings.—Tenders are asked until October 10th for a quantity of cast iron pipe. Thos. P. McGuigan, City Clerk.

HALIFAX, N. S.—Philip Thompson, City Treasurer, invites tenders until the 27th inst., for a loan of \$5,000, the money to be used for paving streets.—It is understood that the plans for the new La Salle academy have been approved of by the authorities of that order in Paris, and Mr.

Justin, of New York, is expected here shortly to make arrangements for its erection.

WINNIPEG, MAN.—G. A. West, Chairman Committee on Works, invites tenders until Thursday, the 12th inst., for the construction of sewers on Cauchon street and 1st Avenue south.—Messrs. W. M. Ronald and Alex. Black have purchased a portion of the Logan estate fronting on Lilly street, and will erect new residences thereon in the spring. Part of this estate is being held for the sanction of the Government for a University site.

LONDON, ONT.—The bridge across the river Thames at Dorchester station has been condemned by the County Commissioner, Mr. F. B. Talbot, and it is probable that a new iron structure will have to be constructed.—Messrs. Robinson & Little have purchased the Connor property adjoining their wholesale establishment on Richmond street and will shortly erect a new building thereon.

HAMILTON, ONT.—At a recent meeting of the Parks Committee of the City Council, it was decided to build a monument to the late Robert Hamilton, and a sub-committee was appointed to get designs and estimates.—Building permits have been granted as follows: E. & W. Buscombe, three two-story brick dwellings on Locke street, north of Barton street, cost \$3,000.

MILWAUKEE, WIS.—The joint boards of the Public Library and the Public Museum of this city invite plans and specifications until the 15th of November next for the public library and museum building to be erected in the Fourth ward in this city. The cost of erecting the building in accordance with the plans submitted must not exceed the sum of \$500,000. Mr. Matthew Keenan is President of the Public Library Board and Mr. George W. Packham of the Public Museum Board.

STRATFORD, ONT.—David G. Baxter, architect, is calling for tenders for the following works: Presbyterian church at Avonton, Ont., cost \$15,000; \$5,000 pipe organ, and water, electric or gas motive power, cost \$800; also for steel construction to support organ and spire, cost \$1,200, and for heating A. Beattie & Co.'s offices in new Myers Block with hot water. The same architect is preparing plans for a stone Methodist Episcopal church at Kalso, Mich., to cost \$3,500, and extensive additions and alterations to A. Beattie & Co.'s store; water power, hoist, etc., cost \$3,000.

MONTREAL, QUE.—The Finance Committee has decided to recommend to Council the purchase of a new pumping engine with a capacity of 10,000 gallons, at an estimated cost of \$55,000.—The Road Committee have been granted the following amounts: \$9,200 for additional paving on Centre street; \$6,000 for paving on Murray street; \$5,100 for paving the streets surrounding the Grand Trunk offices with asphalt, and to macadamize Cedar avenue.—Ernest Marceau, Acting Superintending Engineer, Department of Railways and Canals, will receive tenders until Monday next, the 9th inst., for the construction of a sewer pipe drain along the south side of the Lachine canal above Cote St. Paul bridge.

OTTAWA, ONT.—The Board of Works, at a meeting held last week, decided to report to Council in favor of the Engineers' scheme for a trunk sewer to drain Dalhousie and Wellington wards, the estimated cost of which is \$165,000. The Board also recommended that a by-law be submitted to the ratepayers in January next authorizing the expenditure.—W. J. Code, Barrister, 25 Sparks street, invites tenders on behalf of the County of Carleton Agricultural Society until the 16th inst. for the removal of the Agricultural buildings, fences, etc., from the present site at Bell's corners to the village of Richmond and the erection of the same on the new grounds.—The Minister of Public Works has stated that the Government has in contemplation the widening of the Suspension bridge between Ottawa

and Hull, also of the roadway leading from the bridge to Hull, which is now 16 feet wide. With regard to the erection of a new Custom House and Inland Revenue offices, it has been decided to arrange a conference between the Minister of Customs, the Post-master General, the Controller of Inland Revenue and the Minister of Public Works to consider the question.—At a meeting of the Board of Trade held on Tuesday last, a resolution was passed asking the city to submit a by-law to the ratepayers for the purpose of granting a bonus of \$150,000 to the Gatineau Valley and the Pontiac and Pacific Junction railways to aid in building an inter-provincial bridge across the Ottawa river from Hull to Nepean Point on the Ottawa side of the river.

TORONTO, ONT.—It is again rumored that a syndicate is being formed to erect a new palace hotel, and that negotiations are in progress for the purchase of the old palace boarding house on Front street, between York and Simcoe streets, as the proposed site. The affairs of the syndicate are being looked after by Mark H. Irish, formerly of the Rossin House.—Rev. Mr. Carruthers, on behalf of the Dovercourt mission, recently asked the Toronto Presbytery for permission to build a \$3,000 church on Dovercourt Road near Bloor street. The matter was postponed for further information.—The City Engineer has recommended the construction of a cedar block pavement on Carr street, from Esther street to end of Carr street, also that the sewer on Bathurst street under the railway tracks be constructed by day labor, at an estimated cost of \$5,000.—The Board of Works will ask for an appropriation of \$6,000 to improve the discharge mains at the new pumping station.—Tenders are wanted for excavating for addition to Toronto Brewing and Malting Co's premises. Particulars at Brewery office on Simcoe street.—The Medical Health officer has recommended to the Board of Health that the Yonge street sewer be extended out into the bay to the edge of the windmill line.—It has been decided to enlarge the Argonaut Club House by an addition of 60 feet to the north side of the building.—The following building permits have been granted: B. McGregor, 755 Dufferin st., pr. det. 2 story brick dwellings, and four det. 2 story r. c., s. side Lindsay ave., w. of Gladstone ave., cost \$4,800; Henry Hodson, 2 story boat house, s. w. cor. Esplanade and Brock st., cost \$7,000.

FIRES.

The large glue factory of J. T. Huber & Co., at Berlin, Ont., was completely destroyed by fire on Monday last. Loss, \$20,000; insurance \$3,000.—L. J. Shroud's & Co.'s evaporator at Wellington, Ont., was burned last week. Loss, \$3,000; insurance, \$1,600.—The County Academy at Lunenburg, N. S., was completely destroyed by fire on the 27th ultimo. Loss, \$10,000; insurance, \$5,000.—John McConachie's saw mill at Peninsular Portage, Ont., was burned last week. Loss, \$3,000; no insurance.—S. M. Elliott's saw mill situated about two miles from Port Elgin, Ont., was destroyed by fire on Wednesday last. Loss, \$2,000.—The axe factory at Canning, N. S., owned by Blinkhorn & Sons, was burned on the 29th ultimo. Loss, \$7,000; insurance, \$1,000.—The main exhibition building of the North Simcoe Industrial Association, situated at Stayner, Ont., was destroyed by fire last week.

CONTRACTS AWARDED.

WINNIPEG, MAN.—The Board of Works have awarded the contract for paving Albert street, from Notre Dame to Bannatyne streets, to Messrs. Doidge & Co., at the price of \$5,250.

CHATHAM, ONT.—The contract for dredging the Little Bear Creek, on the town line bridge between Chatham and Doyer, has been awarded to the Chatham Dredging Company, at the price of \$18,250.

TORONTO, ONT.—On Saturday last the Board of Works awarded the contract for the paving of Broadview ave., from Queen

street to Gerrard street, with cedar blocks on concrete, to Messrs. Burns & McCormick, at the price of \$6,849.

LIMOILOU, QUE.—On Saturday last the village council awarded the contract to Messrs. E. L. de la Vallee & Co., of Montreal, for building a system of waterworks for Limoilou, Hedleyville and Stadacona. This firm was \$17,000 lower than the next tenderer.

OTTAWA, ONT.—Only two tenders have been received by the Department of Railways and Canals for the construction of lock gates at the Sault Ste Marie canal. Messrs. Hugh Ryan & Co. are the lowest tenderers, and will in all probability be awarded the contract.—The construction for the steel superstructure of the railway bridge across the above canal has been awarded to the Hamilton Bridge Company. The contract price is understood to be in the neighborhood of \$25,000.

MONTREAL, QUE.—Dunlop & Heriot, architects, have let contracts for two 2 story residences on Sherbrooke street for C. J. Brown, as follows: Masonry, Wighton & Morrison; carpentry, M. Folmie; plumbing and heating, McCrae & Watson; brickwork, A. Wand; plastering, J. Bremner; painting, G. Blackwell.—Perrault & Lesage, architects, have let contracts for a three story building containing three stores and three dwellings, on Notre Dame street west for Stanley C. Bagg Estate as follows: Masonry, Plante & Dunlop; brickwork N. Racette; carpentry, L. Beaudry; roofing, Montreal Roofing Co.; plastering, Lesage & Frere; ironwork, Dominion Bridge Co.—W. McLea Walbank, architect, has awarded contracts as follows for a residence on Elm ave., for G. R. Lighthall: Masonry, G. Turner & Co.; carpentry, James Shearer; roofing, Drapeau & Savignac; Brickwork, H. Boon; plastering, F. Decary & Co.; painting, L. Z. Mathieu, also for three story building on St. Catherine street, for H. H. Lyman: Masonry, P. Lyall & Son; carpentry, James Shearer; roofing, Geo. W. Reed; plumbing and heating, McCrae & Watson; brickwork, Jas. Brunet & Son; plastering, John McLean; painting, J. B. Owens.

MUNICIPAL DEPARTMENT.

THE FILTRATION OF WATER.*

The Imperial Board of Health in Berlin was led by the violent epidemic of cholera in Hamburg to compile, some months ago, the principles derived from the experience of waterworks employing sand filtration. The most important of these principles are as follows:—

(1) Sand filters do not deliver the water totally free from microbes; they restrain only a certain number of them, including the microbes of the cholera; therefore the filters should never be overworked.

(2) The velocity of filtration ought not to exceed 4 inches (100 mm.) per hour.

(3) The stratum of the filtering sand should never be less than 12 inches (30 cm.) thick.

(4) When a filter has been cleaned, or filled up with new sand, it is necessary to waste the first filtered water with its high number of germs.

(5) The effect of filtration must be daily controlled by bacteriological tests of each filter. If the bacteriologist finds suddenly a greater number of germs or unusual species of microbes in the filtered water, such water should not be used at all.

(6) If these principles are carefully followed the danger of the microbes of cholera passing through the filtering sand stratum is exceedingly small, as has recently been proved by the Altona waterworks compared with Hamburg.

The author of this publication is believed to be Dr. Robert Koch, of Berlin, the discoverer of the microbes of phthisis and of cholera, who has for many years been making inquiries into the effect of filtration, and these rules are, therefore, the result of a large experience. The writer is sure that the majority of his colleagues who are busy with filtration will,

in conformity with their own experience, accept most of them, but some will be in doubt whether all the rules are exactly correct.

The publication of the Board, really a governmental order in Germany, limits the maximum velocity of filtration to 4 inches per hour, or 8 feet per day, or 60 U.S. gallons per square foot per day. As far as the writer is instructed about the rate of filtration now used in English waterworks, he finds these numbers corresponding with those in use there, as an average in some works, but as a maximum in others. It is not very many years ago that in England the average quantity of filtration was about 50 per cent. more than 8 cubic feet per square foot of the filtering area; and this quantity has been delivered in Germany, too, chiefly by waterworks having a water with few earthly ingredients. Why shall we take the 4-inch velocity as a standard for a safe and sure filtration?

Mr. Bertschinger, chemist and bacteriologist of the corporation of Zurich, published a paper in 1889 concerning "The Working of Sand Filters in Zurich." In this paper he approves, after a long series of trials, velocities of from 9 to 44 feet per day.

Mr. Piefke, engineer of the Stralau station, Berlin Waterworks, writes in 1887 that his filter delivers the water nearly sterile at a velocity of 30 inches per day; that the velocity of 4 feet 9 inches to 6 feet 4 inches per day would be for his works tolerable; but 8 feet per day should be the maximum for new works. Notwithstanding, it is stated in another paper, issued by Dr. C. Fraenkel and Mr. Piefke, that on March 12th, 1889, the Stralau works filtered with a velocity of 17 feet 11½ inches per day. The bad working of the filters caused the authors named to make a series of trials with pathogenic and non-pathogenic microbes, from which they stated that the pathogenic microbes pass the filter even at a very low velocity of filtration; but, it may be added, under the supposition that the raw, unfiltered water be mixed with the microbes at the rate of 500 to 700 cu. cm., and the filter be ill-treated, as it was by the authors of these tests. Messrs. Fraenkel and Piefke conclude from their experiments that filters should not be worked with a velocity exceeding 4 feet per day.

Mr. Piefke two years later repeated the experiments, without repeating the mistakes of the first series. The result was nearly the same; but he worked again with a water containing a number of pathogenic microbes such as we absolutely cannot find in a polluted river or pond used for water delivery.

The writer himself has also made a great number of trials to find the best velocity for the filtration of water. To avoid every error or mistake resulting from the difference in the quality of the unfiltered water he built three experimental filters, filled with the same filtering materials, all conditions being exactly the same, only the velocity of filtration being different. As soon as the three filters were in good condition the experiment began, the water running through the filters at a velocity of 4, 8 and 16 feet per day. The number of the microbes varied with a 4-foot velocity from 11 to 97; with an 8-foot velocity from 5 to 79; and with a 16-foot velocity from 7 to 72 per cu. cm. The difference is not sufficient to declare the one velocity better than the other, and therefore the writer cannot agree that the velocity of 8 feet is, beyond doubt, the maximum of safe filtration. Notwithstanding, the writer accepts this standard as long as better experiments do not prove it to be false, because he believes the danger of a trespassing pathogenic microbe is much more trifling at the lower than at the higher velocity; and, besides, that the best velocity is not the same for different qualities of water. He is sure that the difference in the mineral, vegetable and animal admixtures is of high importance in this connection, and that we should endeavor to find out the best velocity for each waterworks.

[To be Continued.]

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I am, sir, your obedient servant,
THOMAS MONRO,
Engineer in charge of Welland Canal Enlargement.

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are made use of for deadening sound in floors and partitions, insulation of heat and cold, fireproofing, etc., also SECTIONAL MINERAL WOOL COVERING for steam pipes, boilers, exposed water pipes, etc.

CANADIAN MINERAL WOOL CO., Limited, 122 Bay Street, Toronto.
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Meter Supports, Dial Extensions, Fixture Locks, Water Cart Registers, Strainers, Coupling Seals and Reservoir Indicators.

Send for Price Lists and Testimonials. Our meters are adopted and in use in over 500 cities and towns in Canada and the United States. Highly endorsed by leading Engineers. A guarantee for five years given with all Meters. All information furnished on application to

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Manufacturers of
Salt-Glazed,
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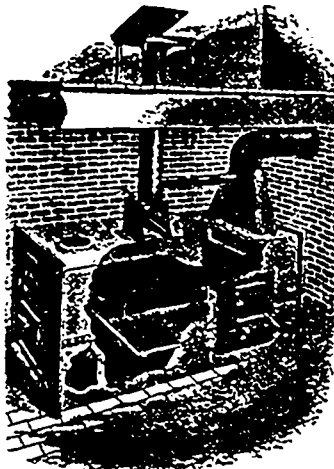
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A SUBSTITUTE FOR PRIVY VAULTS AND CESS POOLS.

A PERFECT SANITARY TRIUMPH,

Applicable to the uses of schools, colleges, hospitals, factories, asylums and dwellings.

This closet is invaluable where sewer and water privileges are not obtainable, possessing all the convenience of the modern water closet.

Manufactured and erected in sizes suitable to any number of persons, by

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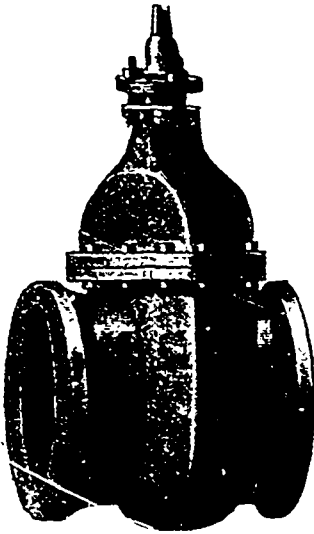
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Hydrants, Valves, Valve Boxes

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Tools for tapping mains under pressure
and Service Brass Work of all descriptions.



**CENTRAL BRIDGE AND - -
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RAILWAY AND HIGHWAY BRIDGES

*Viaducts, Piers, Roofs, Turntables and
Girders in Steel and Iron.*
Tension members forged without welds. Riveting
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Specialties: Good workmanship and strict adherence
to specifications and drawings.
CAPACITY: 2,000 TONS PER ANNUM.

OUR SALES OF
"BURHAM"
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Cement..**

for the past 8 months have been
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Try it and be convinced.

Sole Consignees for Canada:
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**CAST IRON WATER, GAS AND
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- ALSO -
Special Castings of every description.
CAPACITY: 50 TONS PER DAY.
In use from Vancouver to Sydney, Cape Breton.
Correspondence solicited.

Prices of Building Materials.

LUMBER.
CAR OR CARGO LOTS.

	Toronto.	Montreal.
1 1/2 to 2 clear picks, Am ins.	34 00 @ 36 00	40 00 @ 45 00
1 1/2 to 2 three uppers, Am ins.	37 00	40 00 45 00
1 1/2 to 2, pickings, Am ins.	27 00	27 00 30 00
1 inch clear	25 00	30 00 60 00
1 x 20 and 22 dressing and better.	20 00	23 00 28 00 20 00
1 x 20 and 22 mill run.	17 00	14 00 19 00
1 x 20 and 22 dressing.	13 00	18 00
1 x 20 and 22 common.	14 00	15 00 8 00 10 00
1 x 20 and 22 spruce culls.	10 00	11 00 10 00 11 00
1 x 20 and 22 culls.	9 00	10 00 9 00
1 inch clear and picks.	38 00	30 00 33 00 35 00
1 inch dressing and better.	18 00	20 00 18 00 20 00
1 inch siding, mill run.	14 00	16 00 14 00 16 00
1 inch siding, common.	13 00	13 00 12 00 14 00
1 inch siding, ship culls.	12 00	12 00 10 00 11 00
1 inch siding, mill culls.	8 00	9 00 8 00 9 00
Cull siding.	8 00	9 00 8 00 9 00
1 1/2 and thicker cutting up plank.	22 00	25 00 22 00 21 00
1 inch strips, 4 in. to 8 in. mill run.	14 00	15 00 14 00 15 00
1 inch strips, common.	11 00	12 00 11 00 12 00
1 1/2 inch flooring.	16 00	17 00 14 00 15 00
1 1/2 inch flooring.	16 00	17 00 14 00 16 00
XXX shingles, sawn, per M 26 in.	2 50	2 60 50 2 70
XX shingles, sawn.	1 50	1 60 1 60 1 70
Lath.	2 40	

YARD QUOTATIONS.

	Toronto.	Montreal.
Mill cull boards and scantling	10 00	10 00
Shipping cull boards, prom- iscuous widths.	13 00	13 00
Shipping cull boards, stocks	16 00	16 00
Hemlock scantling and joist up to 16 ft.	11 00	12 00
Hemlock scantling and joist up to 18 ft.	12 00	13 00 13 00
Hemlock scantling and joist up to 20 ft.	13 00	14 00 14 00
Scantling and joist, up to 16 ft	15 00	14 00
" " " 18 ft	16 00	15 00
" " " 20 ft	17 00	16 00
" " " 22 ft	18 00	17 00
" " " 24 ft	19 00	18 00
" " " 26 ft	20 00	19 00
" " " 28 ft	21 00	20 00
" " " 30 ft	22 00	21 00
" " " 32 ft	23 00	22 00
" " " 34 ft	24 00	23 00
" " " 36 ft	25 00	24 00
" " " 38 ft	26 00	25 00
" " " 40 ft	27 00	26 00
" " " 42 ft	28 00	27 00
" " " 44 ft	29 00	28 00

	Toronto.	Montreal.
Cutting up planks, 1 1/2 and thicker, dry.	25 00	26 00 25 00 26 00
Cutting up planks, 1 1/2 and thicker, board.	18 00	18 00 22 00
Cedar for block paving, per cord.	5 00	5 00
Cedar for Kerbing, 4 x 14, per M.	14 00	14 00
1 1/2 in. flooring, dressed, F.M.	28 00	31 00 28 00 31 00
1 1/2 inch flooring, rough, B.M.	18 00	22 00 18 00 22 00
1 1/2 " " dressed, F.M.	27 00	30 00 27 00 30 00
1 1/2 " " undressed, B.M.	19 00	18 00 19 00
1 1/2 " " dressed	18 00	22 00 18 00 22 00
1 1/2 " " undressed	12 00	15 00 12 00 15 00
Beaded sheeting, dressed.	22 00	22 00 25 00
Clapboarding, dressed.	12 00	12 00
XXX sawn shingles, per M	2 65	2 75 3 00
Sawn lath.	2 50	2 60 2 50 2 60
Cedar.	2 90	2 90
Red oak.	30 00	40 00 30 00 40 00
White.	35 00	45 00 35 00 45 00
Basswood, No. 1 and 2.	18 00	20 00 18 00 20 00
Cherry, No. 1 and 2.	70 00	70 00 80 00
White ash, No. 1 and 2.	25 00	25 00 30 00 35 00
Black ash, No. 1 and 2.	18 00	30 00 18 00 30 00
Dressing stocks.	16 00	22 00 16 00 22 00
Picks, American inspection.	40 00	40 00
Three uppers, Am. inspection	50 00	50 00
BLICK-M		
Common Walling.	7 50	6 00
Good Facing.	9 00	8 50
Sewer.	8 50	9 00 8 50 9 00
Pressed Brick, Per M:		
Plain brick, f. o. b. at Milton	16 10	
" " and quality	14 00	
" " 3rd	8 00	
Hard Building.	4 50	
Moulded and Ornamental, per 100.	3 00	10 00
Roof Tiles.	74 00	
Diamond locking tile.	16 00	
First quality, f. o. b. at Camp- bellville.	18 00	25 00
2nd quality, f. o. b.	14 00	20 00
3rd	12 00	17 00
Ornamental, per 100.	3 00	10 00 3 00 10 00
Tiles.	24 00	26 00
Plain brick, "A" f. o. b. Don Valley	18 00	25 00
" " "B"	16 00	22 00
" " "C"	15 00	18 00
Trojan or Buff.	24 00	30 00
Ornamental, per 100.	3 00	60 00 3 00 60 00
Plain brick, f. o. b. Port Credit	18 00	
" " and quality	13 00	
" " 3rd	10 00	
Hard Building.	8 00	
Ornamental, per 100.	3 00	10 00
SAND.		
Per Load of 1 1/2 Cubic Yards	1 25	1 25
STONE.		
Common Rubble, per toise, delivered.	14 00	14 00
Large flat Rubble, per toise, delivered.	18 00	18 00
Foundation Blocks, per c. ft.	50	50
Kent Freestone Quarries Moncton, N. B., per cu ft., f. o. b.	1 00	
River John, N. S., brown Freestone, per cu. ft., f. o. b.	95	
Ballochmyle	80	65 75
New York Blue Stone.		1 05
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft.		25
Moat Freestone.		70 80
Thomson's Gatlawbridge, cu. ft.		75 80
Credit Valley Rubble, per toise, delivered.	13 00	14 00
Credit Valley Brown Cours- ing, per superficial yard.	2 50	3 00 2 90
Credit Valley Brown Dimen- sion, per cubic foot.	90	90
Credit Valley Grey Coursing, per superficial yard.	1 50	2 00 2 15
Credit Valley Grey Dimen- sion, per cubic foot.	75	8
Madoc Rubble, delivered, per toise.	14 00	14 50 14 00 14 50
Madoc dimension floating, f. o. b. Toronto, per cubic ft.	30	32
Ohio Freestone, No. 1 Blue Promiscuous, f. o. b.	60	
No. 1 Blue Dimension.	65	
No. 1 Buff Promiscuous.	80	
No. 1 Buff Dimension.	85	
The above prices means freight and duty paid.		
2 in. sawed flagg per sq. ft	11	
3 1/2 " " " "	13 1/2	
4 1/2 " " " "	16 1/2	
5 1/2 " " " "	22	
6 1/2 " " " "	27 1/2	
Duty to be added to these prices.		
Quebec and Vermont rough granite for building pur- poses, per c. ft. f. o. b. quarry	33	1 50
For ornamental work, cu. ft.	35	2 00
Granite paving blocks, 8 in. to 12 in. x 6 in. x 4 1/2 in., per M		50 00
Granite curbing stone, 6 in. x 20 in., per lineal foot.	70	
SLATE.		
Roofing (per square).		
" " red.	16 10	20 00
" " purple.	9 00	10 00
" " unslating green	7 50	6 00
" " black	8 00	7 50
Terra Cotta Tile, per sq.	22 00	
Ornamental Black Slate Roof- ing.	8 00	
PAINTS. (In oil, per lb.)		
White lead, Can., per 100 lbs.	6 25	6 00 6 25
" zinc, Can., " "	6 50	7 50 8 00
Red lead, Eng.	5 1/2	6 1/2
" venetian, per 100 lbs.	1 60	1 75 1 60 1 75
" vermilion.	90	1 00 90 1 00
" Indian, Eng.	10	12 10 12
Yellow ochre.	5	10 4 6
Yellow chrome.	15	20 15 20
Green, chrome.	7	12 7 12
" Paris.	25	40 25 40

	Toronto.	Montreal.
Black lamp.	15	25 12 25
Blue, ultramarine.	15	20 12 18
Oil, linseed, raw, 1/2 Imp. 1/2.	65	68 61 65
" " boiled.	68	71 66 68
" " refined.	78	85 75 75
Putty.	2 1/2	2 1/2 2 1/2
Whiting, dry, per 100 lbs.	75	1 00 60 75
Paris white, Eng., dry.	90	1 25 90 1 10
Litharge, Am.	6 1/2	8 6 1/2 8
Sienna, burnt.	15	20 12 15
Umber.	15	12 12 15
CEMENT, LIMK, etc.		
Cement, Portland, per bbl.	2 50	
" English	2 75	
" Belgium	3 25	
" Thorold,	1 50	
" Queenston,	2 25	
" Napanee,	1 50	
" Hull,	1 50	
" German.	2 65	2 85
" London	2 45	2 90
" Newcastle	2 35	2 50
" Belgian	2 30	2 40
" Ca-adian	2 25	2 30
" Roman	2 75	
" Parian	4 50	4 75
" Superfine	6 50	7 00
Keene's Coarse "Whites"	4 50	4 75
Calcined plaster, per barrel.	1 55	1 70
Fire Bricks, Newcastle, per M	20 00	24 00
" Scotch	30 00	35 00
Lime, Per Barrel, Grey.	40	
" " White.	55	
Plaster, Calcined, N. B.	2 00	
" " N. S.	2 00	
Hair, Plasterers', per bag.	80	1 00
HARDWARE.		
Cut nails, 5 d & 6 d, per keg	2 40	2 25
Steel " "	2 50	2 35
CUT NAILS, FENCE AND CUT SPIKES.		
40d, hot cut, per 10 lbs.	5	5
30d, " "	10	10
20d, 16d and 12d, hot cut, per 100 lbs.	15	15
10d, hot cut, per 100 lbs.	20	20
8d, 9d, " " "	25	25
6d, 7d, " " "	40	40
4d to 5d, " " "	60	60
3d, " " "	1 00	1 00
2d, " " "	1 50	1 50
4d to 5d cold cut, not polished or blued, per 100 lbs.	50	50

	Toronto.	Montreal.
3d to 5d cold cut, not polished or blued, per 100 lbs.	90	90
PINK BLIND NAILS.		
3d, per 100 lbs.	1 50	1 50
2d, " "	2 00	2 00
CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.		
12d to 30d, per 100 lbs.	50	50
10d, " "	60	60
8d and 9d, " "	75	75
6d and 7d, " "	90	90
4d to 5d, " "	1 10	1 10
3d, " "	1 50	1 50
FINISHING NAILS.		
3 1/2 to 2 1/2 inch, per 100 lbs.	85	85
2 to 2 1/2 " " "	1 00	1 00
1 1/2 to 1 3/4 " " "	1 15	1 15
1 1/4 to 1 1/2 " " "	35	35
1 1/2 " " "	1 75	1 75
1 1/4 " " "	2 25	2 25
SLATING NAILS.		
5d, per 100 lbs.	85	85
4d, " "	85	85
3d, " "	1 25	1 25
2d, " "	1 75	1 75
COMMON BARREL NAILS.		
1 inch, per 100 lbs.	1 50	1 50
3/4 " " "	1 75	1 75
1/2 " " "	2 25	2 25
CLINCH NAILS.		
1 1/2 inch, per 100 lbs.	85	85
2 1/2 and 2 3/4 " " "	1 00	1 00
2 and 2 1/4 " " "	1 15	1 15
1 3/4 and 1 1/2 " " "	1 35	1 35
1 1/2 " " "	2 00	2 00
1 " " "	2 50	2 50
SHARP AND FLAT PRESSED NAILS.		
3 1/2 and 2 1/2 inch, per 100 lbs.	1 35	1 35
2 1/2 and 2 1/4 " " "	1 50	1 50
2 and 1 3/4 " " "	1 65	1 65
1 3/4 and 1 1/2 " " "	1 85	1 85
1 1/2 " " "	2 50	2 50
1 " " "	3 00	3 00
Structural Iron:		
Steel beam, per 100 lbs.	2 75	2 50
" channels,	2 85	2 60
" angles,	2 50	2 30
" tees,	2 80	2 55
" plates,	2 55	2 35
Sheared steel bridge plate.	2 25	2 35

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