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

AUGUST 17, 1893

Vol. 4.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY
As an Intermediate Edition of the "Cavadian Architect
and Builder."

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

C. H. MORIMER, Publisher,

CONFEDERATION LIFE BUILDING TORONTO
Telephone 2362.
64 Temple Building - Montreal.
Bell Telephone 2299.

the Dominion reguras...
tender.
Advertising rates on application.

Ben receptions 2299.
Information solicited from any part of is Dominion regarding contracts open to

At its Convention held in Toronto, Nov. 20 and 31, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal us their medium of communication with contractors with respect to advertisements for Tenders.

Tenders.

The following resolution was unanimously adopted at the First Annual Meeting of the First Annual Meeting of the Fronince 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 piedge 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 farter and exchange of second-hand materials by buildiers and others not 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, 2 cent (three figures count one word), on two or more subsequent invertions a discount of ro 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 cifice, in who case necessary stamps must be sent for re-mailing replies. Advertisements for this department must be prepaid.

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. I his 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.

TENDERS

Will be received by the undersigned for building a 4-foot Sidewalk on north side Davenport Road, between Buthurst and Duffer in Streets (about 134)

nules long. Plans, specifications, etc., can be examined and tenders will be received at office of undersigned up to 5 o'clock p.m. August 26, 1893. Lowest or any tender not necessarily accepted.

PETER S. GIBSON, C.E., York Township Engineer,

Willowdale, Aug. 10, 1893.



Notice to Contractors

ASHBRIDGE BAY IMPROVEMENT.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a. m. on FRIDAY, 25TH AUGUST, 1803 for the construction of a jetty In connection with the above improvement. Plans and specifications may be seen and forms of tender obwith the above improvement. Plans and specifications may be seen and forms of tender obtained on and after the 18th inst. 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 2½ per cent, of 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 or they will be ruled out as informal.

The Committee do not hind themselves to accomplished.

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

DANIEL LAMB. Chairman Committee on Works.

Committee Room, Toronto, August 15, 1893



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer. Foronto, up to 11 o clock a.m. on Friday, the 25th August, 1803, for the construction of the following pavements on track allowances, viz.

Parliament street, Carlton to Gerrard street,

brick on concrete,

fied brick on concrete

DANIEL LAMB, Chairman Committee on Works. Committee Room, Toronto, August 15, 1893.

Sealed tenders, addressed to the undersigned, and endorsed lender for Hot Water Heating Apparatus, Drill Hall, Toronto, Ont.," will be received until MONDAY, 28TH AUGUST, for the construction of a Hot Water Heating Apparatus at the Drill Hall, Toronto, Ont.

Plans and specifications can be seen and form of tender and all necessary information obtained at this Department and at the office of R. C. Windeyer, Esq., Architect, Toronto, Ont., after Monday, 18th inst.

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

Each tender must be accompanied by an a. 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 5 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 complete the work contracted for. If the tender be not accepted, this cheque will be returned. turned.

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, 11th August, 1892.

CONTRACTS OPEN.

ST. HYACINTHE, QUE,—The United Counties Railway Company is about to erect a new depot

WALKERTON, ONL. An agreeation has been commenced for a system of sewerage for the

PILOT MOUND, MAN - Mr. J. T. Gordon has had plans prepared for a large grain elevator to be erected here.

HARROW, ONT.—Mr. T. R. Quick has purchased a site on King street and proposes to build a house thereon.

a house thereon.

GANANOQUE, ONT.—Preparations are being made for laying the foundation of the new electric light building.

PORTAGE, LA PRAIRIE, MAN.—It is stated that the proposed Imperial bank building will not be erected this year.

STANSTEAD JUNCTION, QUE.—There is a prospect at present of securing a system of water works for this village.

THOMAS, GNT.-The City Council has

decided to have a new sewerage system constructed for the eastern part of the city.

VANCOUVER, B. C.—F. M. Rattenbury, architect, has been engaged to carry out some improvements to the Hotel Vancouver.

CHATHAM ONT.—Tenders are invited by Rev. R. McCosh for building a brick rectory for Christ Church, T. J. Rutley, architect.

STRATIORD, ONT.—The Board of Works has recommended to Council that a sewer be built on Cambria street, from Erie to Church street.

RENFREW, ONT — Mr. A. Barnet desires to receive tenders until the 1st of September for the heating and plumbing of his new building.

HALLEAN N S Specifications have been prepared and tenders will shortly be invited for lighting the streets of this city by electricity.

PRINCE ALBERT, N. W. T.—Mi. J. M. Coombs, Clerk, invites tenders until the 21st inst. for the purchase of \$3,000 worth of deben times.

THERENY CENTRE, ONT.—It is expected that an electric light system will be established here shortly. Mr. Powell, Reeve, is looking into the

GALT, ONT.—The stock of the Galt and Pres-ton Street Railway Company is being rapidly taken up, and the work of building will be begun at an early date.

No. 26

WARWICK, ONT.—W. R. Fellows, Clerk, will receive tenders until to-morrow (Friday) for building a stone arch over Wolfe Creek, known as Wilson's bridge,

Windson, Ont.—The Canada Patent Brush Company will ask the City council to grant a bonus to aid in rebuilding their factory, de stroyed by fire a few weeks ago.

WATERLOO, ONE.—A by-law will shortly be submitted to the ratepayers authorizing the Council to risue debentures to the extent of \$16,000 to cover the cost of a system of sewerage.

CANNING, N. S.—A company has been formed to carry out the construction of a system of water supply from the North mountains, about 2 miles distant. Dr. Borden is one of the chief promot

Islandron, ONL-At the last meeting of the Etobicoke Township Council, it was decided to have the abutment lengthened at the Queen street bridge. Minuco, preparatory to erecting a new bridge, Min iron bridge.

SACKVILLE, N. B.—Mr. David Allison will receive tenders until Wednesday, the 23rd inst, for the effection of a residence for students in connection with Mount Allison University. Plans may be seen at the University library.

GUELPH, ONT.—Mr. H. J. Powell, architect, will receive tenders until the 1st of September for tearing down old buildings on site and exeavating for the proposed new opera house. Tenders are to be addressed to Mr. Powell, care of Mr. F. Dawler.

ALVINSTON, ONT Messrs M. J. Dudley and H. L. Binder have purchased the corner lot opposite the Grand Central and propose to erect a white brick hotel, three storeys high, and of the most modern style of architecture, estimated cost \$10,000.

PETROLEA, ONT.—Tenders will be received at the Town Clerk's office until Friday next for the construction of a cedar block pavement on Walnut and School streets in this town. Particulars may be obtained from John M. Moore, Town Engineer.

WINNIPEG, MAN.—Thos. Gifroy, Chairman Finance Committee, will receive tenders until Tuesday, the 24th inst., for the purchase of \$74,000 worth of park fund debentures, to run 30 years—The C. P. R. is making preparations to creek its large sorting elevator here.

PETERBORO, ONT The by law to raise the sum of \$13,000 for the crection of an other school building in the South ward, and making repairs to the Central school was defeated by the rate payers last week. A by-law to provide \$3,800 for constructing a drain for the Edison Co, was soled on and carried.

ORILLIA, ONT. - The Town Council desires to ORILLIA, ONT. - The Town Council desires to secure plans for a market building to be cree ted on the corner of West and Mississaga streets, the cost of execution not to exceed \$15,000. Plans to be sent in before the 28th inst. Particulars may be obtained from C. E. Grant, Town Clerk, or D. McNab, Chairman Property Committee.

DEER PARK, ONT. - A meeting of resuents was held a few evenings ago to discuss the proposal to construct water mains for the purpose of supplying water for fire and domestic purposes. A report was read from Peter Gibson, engineer, in which he stated that 5.466 ft of 84 inch pipe and 8,300 feet of 6-inch pipe would be required. Messes. Tait, Fisken, F. Baldwin, Dr. Bildwin and I. Gibson were appointed a committee to further the scheme. mittee to further the scheme.

KINGSTON, UNT.—Petitions have been pre-sented to council asking for the construction of granolithe walks on the following streets: On tano street, west side, between Clarence street and Johnson street, Princess street north, be-ween Bagot and Wellington streets; Clarence

TO ARCHITECTS,—About 1½ quires of Whatman's Drawing Paper for sale (Imperial size), only \$3.50 for the lot. Box 151 at this

asphalt with toothing on concrete.

College st., McCaul to Bathurst st., asphalt

with toothing on concrete.

College st., Bathurst to Dufferin st., vitrified

Dundas st., Arthur st. to Jamieson ave., vitre-

Specifications may be seen and forms of tender obtained on and after Saturday. August 19th, 1893, at the office of the City Engineer.

A deposit in the form of a marked cheque, ayable to the order of the City Treasurer, for the sum of 2½ per cent, of the value of the work tendered for, must accompany each and every tender, otherwise it will not be entertained.

The tenders must bear the bona fide signatures of the contractor and his sureties or they will be ruled out as informal.

DANIEL LAMB.

Price, \$1.50, to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address C. H. MORTIMER, Publisher, Confederation Life Building, TORONTO. Montreal Office: 64 Temple Building.

daily requirements.

street, south side, between Ontario and King streets; King street, east side, between Clarence and Johnston streets; Princess street, between King street and Wellington street.

King street and Wellington street.

HAMILTON, ONT.—The Hamilton and Toronto Sewer Pipe Co will make additions to their buildings. Two new kiths will also be erected.—The new Catholic church to be built in the west end will be begun this week. It is to cost \$15,000 and will have a seating capacity of \$500.—Satisfactory progress is being made with the establishment of the proposed smelting works in this city. The syndicate is meeting with opposition by reason of the extortionate demands of the owners of property through which the switch is to run, and the contracts for buildings cannot be let until the switch is arranged.

LONDON, ONT.—M. W. J. Clarke will erect a

let until the switch is arranged.

LONDON, ONT.—Mi. W. J. Clarke will erect a brick residence on Kent street.—Mr. Thomas Smallman contemplates erecting an addition to his Dunday street residence, at a cost of \$4,000. The water for the city is proving to be inadequate to meet the demands, and steps will be taken at once to provide additional plant. New steam pumps, with a pumping capacity of 4,000,000 gallons, will probably be constructed. Mr. Keefer, C. E., has been engaged to make an examination and report.—Messis. Jones, McBride & Farncombe will let contracts this week for two houses on Queen's avenue for Messis. Watson & Coles. Coles.

TORONTO, ONT.—Right Rev. Mgr. Rooney has purchased the property on the north-west corner of Buthurst and King streets. It is said a private hospital will be creeted on the site.—A petition is being circulated amongst the residents of Carlton street for the construction of an asphalt pavement from Parliament street to Yonge street.—The Board of Works has been grainted the sum of \$5,000 for the extension of the sewer emptying into Ashbridge's bay.—A petition has been prepared asking for an asphalt pavement on Front street.—Building permits have been granted as follows: A. Robinson, two story brick addition to rear of store, s. w. cor. Harbord and Borden streets, cost \$1,000; Land Security Co., 1 story bk. office building, 26 to 32 Victoria st.; Mr. Earls, pair semi-detached 2 story and mansard brick dwellings, e. side Markham st., near Ulter st., cost \$7,000; Jas Clifford Austin ave., two story bk. store and dwelling, s. e. corner Pape and Austin ave., cost \$1,400.—Tenders are invited by the Land Security Co. until Saturday next for the erection of a building on Victoria street, just south of their present offices. Plans may be seen at the office of G. M. Miller, architect.

MONTREAL, QUE.—The City Council has appropried of the nuchose of sixes for the proposed. TORONTO, ONT.-Right Rev. Mgr. Rooney

MONTREAL, Que.—The City Council has approved of the purchase of sites for the proposed memerators.—I wenty-five designs have been received by the Design Committee for the proposed monument to be erected on Dominion Square to monument to be erected on Dominion Square to the memory of the late Sir John A. Macdonald. We learn that the decision of the Committee is in favor of the design sent in by Mr. George E. Wade, the well known sculptor of London, Eng. The cost of the monument is estimated at \$20,000.—It is estimated that the harbor improve-ments will cost \$2,000.000, and that three was The cost of the monument is estimated at \$20,000.—It is estimated that the harbor improvements will cost \$3,000,000 and that three years more will be required to complete them —Two new elevators are shortly to be placed in the Central post office.—Mr. P. W. St. George, City Surveyor, will receive tenders until Wednesday, the 23td inst., for the construction of sewers in the following streets: Chenneville street, from Dorchester street to Lagauchetiere street; Duluth street, from Cadieux street to Hippolyte street; Duftenn estreet, from Logan street northward to end of existing sewer; St. Famille street, from Prince Arthur street to Pine avenue, St. Hubert street, from Roy street to Rachael street; \$1, Lean lane, from Fullum street to Archambault lane; Logan street, from Shaw street to deLorimier avenue; Metcalfe street, from Dorchester street to St. Catherine street; Pantaleon street, from end of existing sewers northward to Prince street to St. Catherine street; Pantaleon street, from end of existing sewers northward to Prince Arthur street; Rachael street, from St. Urbain street to Mitcheson or Clarke street.—Mr. W. Alexander, of Toronto, has purchased property at the corner of University and St. Catherine streets and will creet a large dry-goods store thereon.—Tenders will be received until the 19th inst. for the enlargement of No. 11 police and fire station, corner Ontario and "eaudry streets. Messrs Perrault & Lesage will have charge of the work.

the work.

OTTAWA, ONT.—The Building Committee of OTTAWA, ONT.—The Building Committee of the Protestant Hospital will call for tenders for tinting the walls of the different wards.—Messrs. Arnoldi & Calderon, architects, invite tenders this week for the erection of a steam power house for the Chaudiere Electric Light and Power Company.—Mr. George Matthews, sr., who is engaged in the pork packing industry, is considering the erection of another large pork packing establishment somewhere in Canada, to cost about \$30,000, and should the City Council grant him sufficient inducements, will locate in this city.—A new Presbyterian manse will be erected in New Edinburgh. It will be solid brick, with stone foundations, 41×38 feet in size and two and one half stories high, cost \$4,000. Mr. M. C. Edey will be the architect.—J. H. Balderson, Secretary Department of Railways and Canala, will receive tenders until Tuesday, the 12th of September, for the supply of the following rails. 1,000 tons of 50-lb, steel rails, to be delivered e. i.f. on the Prince Edward Island railway wharf at Summerside; 300 tons of 50-lb, steel rails, to at Summerside; 300 tons of 56-lb. steel mils, to be delivered c.i.f. on the Intercolonial milway

wharf at Richmond. Halifax: 5,000 tons of 67-lb, steel rails, to be delivered on the Intercolonial railway, Princess pler, wharf, at Levis, opposite Quebec.—Major Muishead of the Royal Engineers is expected to reach Ottawa shortly on his way to Esquimalt to supervise the construction of the fortilications at Esquimalt Harbor, B. C. The Dominion Parliament voted \$70,000 for this purpose. Tenders are invited by E. F. E. Roy. Secretary Department of Public Works, until Monday the 28th Inst. for the construction of heating apparatus in the Toronto drill shed. Plans may be seen at the office of R. C. Windeyer, architect, Teronto.—A by-law to raise funds tor the construction of a sewer on Murray street has been passed in Council.—A granolithic sidewalk will be constructed on the south side of Rideau street, from Little Sussey to Nicholas street.

FIRES.

FIRES.

The Impenal Straw Works at the foot of Bay street, Hamilton, were damaged by fire last week to the extent of \$3,000. The roof of the building was burned off. Lee's opera house, the Cuy hotel, Dumphy's hotel, Palmer's tannery and Estey's warehouse, at Fredericton, N. B., were destroyed by fire on Saturday morning last. Several other buildings were badly damaged. Loss \$20,000; small insurance.—The residence of Hugh Cameron at Fingal, Ont., was burned to the ground recently, with all its contents. The loss is heavy, there being no insurance. McR is Co.'s saw mill at Calabogie, Ont., sixteen miles from Renfrew, was totally destroyed by fire on Saturday last. The loss will be about \$8,000.—A three-story furniture manufactory, with contents, including machinery, at Sie. Canegonde, Que., belonging to Messrs. Lajoie, was totally destroyed by fire on Monday last. Mr. Lajoie estimates the damage at \$15,000, and the insurance at \$5,000.—J. W. Green & Son's saw mill at Kingsville, Ont., was burned to the ground on Tuesday morning last, Loss, \$2,000; insurance, \$500.—The Clinton organ factory at Clinton, Ont., with all machinery, stock and tools, was destroyed by fire last week. The loss above the insurance, which is \$4,500, will be about \$5,000.—Mr. J. K. Page's residence, near Welland, Ont., in Pelham township, was burned recently.—The residences of Aaron Bul and James Harris, at Delaware, Ont., were destroyed by fire a few days ago. Loss about \$4,000, with very little insurance.—A disastrous fire occurred at Ottawa on the 13th inst., commencing in the rear of J. B. About's carriage factory at the corner of Wellington and Bay streets, a three-story wooden building, which was destroyed, J. Latremouelle's tailor shop and dwelling was entirely destroyed, and the stores of I F Grant and C W. Willemot were badly damaged. The loss is estimated at \$30,000—The residence of Mrs. Smith, situated on Wonham street, Ingersoll, was totally consumed by fire recently. The loss is partially co-ered by insurance.

CONTRACTS AWARDED.

TORONTO, ONT.—The sub-committee of the Parks and Gardens Committee has accepted the tender of R. Forsyth for a granolithic sidewalk on Queen street avenue, at \$1.57 per lineal foot.

HALIFAX, N.S.—The contract for trenching for the new pipe line has been awarded to Mr. A. McKinnon. The prices are: Earth, 28c per yard, \$1,333.92: rock, \$1.97c per yard, \$9,551.65; total, \$10.785.57.

ARNPRIOR, ONT .- The contract for constructing the road-bed of the Ottawa, Amprior & Parry Sound Railway from Brudenell ten miles aesterly has been awarded to Mr. William Heald, who will begin work at once.

LONDON, ONT. - Messrs. Jones, McBride & Farncombe, architects, have awarded the following contracts. Hardwood fittings for store in St. Thomas, Messrs. Pennington & Baker, Hamilton, house for Murray Anderson, Ed. Martyn, brickwork; I. Sergednit, carpenter work: J. Lucas, painting; Gould & Stratfold, plastering; Smith Bros., plumbing.

MONTREAL, QUE.—The following tenders were received for the construction of the Collectte ladder: E. Chameloup, \$4,336; Messrs. Lariviere, \$4,500, Mr. Ledoux, \$4,400. The contract has been awarded to Mr. Chanteloup.—Messrs. Permult & Lesage, architects, have awarded the contract for alterations to residence for Mr. Alex. Bourgeau to Mr. Louis Beaudry, at the price of

OTTAWA, ONT.-Contracts have been awarded OTTAWA, ONT.—Contracts have been awarded as follows for additions and improvements to the Stewarton Presbyterian Church. Masonry and brickwork, W. Stewart; carpenter work, H. Reynolds; painting and glazing, J. Shepperd; heating and plumbing, Douglas Bros. The contracts for electric lighting, seals and furniture have not yet been let, estimated cost of proposed improvements, \$2,500.

WINNIPEG, MAN.—The contracts for the new building for the Canadian Rubber Co., of Montreal, have been awarded. Messrs Rourke & Cass will do the masonry, and Mr. Melvin the carpenter work; cost \$12,000. S. Frank Peters, architect.—Work has been commenced on the new manse for St. Andrews' church, to be erected on the corner of Jemima and Ellen streets. The contractors are, stonework. I. Reunell supercontractors are. stonework, J. Brunell, super-structure, W. A. Charlesworth; estimated cost,

New (ASILE, N. B.—The contract for the erection of the new academy building has been awarded to Messrs. J. K. McDonald & Co., of New Glasgow. The building, with heating and ventilation and furniture, is estimated to cost \$18,-co.. It will be 50x50 feet in size, two stories and basement, with a tower in front, the top of which will be 68 feet from the ground. The architects are Messrs. J. C. Dumaiesq and H. H. Mott, of Hallfax.

MUNICIPAL DEPARTMENT.

THE DISINFECTION OF TOWN **SEWAGE WATER BY MEANS** OF LIME.

By Prof. Pruil.

Many towns, in default of irrigation farms, are compelled to purify their sewage by chemical means before its discharge into rivers; and it would seem from the transactions of the German Public Health Society that, as a rule, more attention has hitherto been paid to clarification than to disinfection. The author temarks that in certain cases, as for instance, where typhoid fever or cholera may be present, it is most important that the sewage water should be disinfected, as it might otherwise communicate the germs of those diseases to persons using the river water mingled with the effluent for drinking or for domestic purposes. Among the chemical substances most largely used in sewage treatment is lime, itself an excellent disinfectant; but it seemed doubtful whether this material, in the way in which it is now employed, really serves to destroy the bacilli of typhoid fever and cholera. In order to determine the question, the author investigated the proportions in which lime must be added so as to effect object. Attention is directed to his previous experiments with lime, in which he found that the addition of 1 per cent. of milk of lime (which was equivalent to 1.37 per mille of slaked lime) was sufficient to disinfect the Berlin sewage water containing the bacilli of typhoid fever. It was, how ever, necessary to complete the investigation of this subject, and to carry out the experiments more fully. Previous tests had shown bouillon to be more favorable to the development of the germs than either gelatine or agar-agar, and the cultivations therefore took place at blood-heat in bouillon. The Berlin sewage water, when in a fresh condition, is dark grey in color, and has a sickly, disagreeable smell. It was, in all cases, slightly alkaline, and needed 1 per mille of normal acid to render it neutral. After sterilisation of the sewage water, at a temperature of 160 deg. and at a pressure of five atmospheres, the alkalinity was slightly increased. In each case 50 cubic centimetres of sewage water received one quarter of a cubic centimetre of a 24 hours' old bouillon-culture of typhoid fever or cholera bacilli. The liquid thus contained about the same number of germs as did the fresh sewage water. It was necessary first to sterilize the sewage water, in order to study the behaviour of these special bacillia without the interference of the numerous other species usually present. For reasons given, the lime was used in the form of a dry powder, obtained by calcining marble, and slaking 100 grammes of the same with 60 per cent. of distilled water. After the introduction of the lime, the flask, with its contents, was kept in constant movement, to prevent the settling of the suspended matters and the precipitate. Several flasks of each test were filled simultaneously to give parallel results. The lime was used in the proportion of 1-5, 1-2 and 1 per mille. To determine the rapidity with which the lime did its work, the author withdrew samples for culture at stated intervals. From the first set of tests, which are recorded in the form of a table, it is seen that only the 1-per-mille dose of lime was fatal to the germs under all conditions, though the 1/2-per-mille solution destroyed all germs after two hours' exposure, and subsequent experiments proved that even 11/2 hours' action of the lime was sufficient. In a second

"Abstract of a paper from "Zeitschrift fur Hygiene" n the *Proceedings* of the Institution of Civil Engineers.

table are shown the results of adding lime to sterilized sewage water into which a proportion of typhoid and cholera germs had been introduced on agar-agar, and therefore in the absence of nutritive bouillon. In this case also the lime proved as efficacious as before.

In a further series of experiments the author investigated the influence of lime upon sewage water not previously sterilized. For this purpose 12 samples of fresh sewage were collected in flasks, and the contents of six of these flasks were sterilized, the others remaining untreated. four of the sterilized flasks 1 2 per mille of lime was added, and to the other two I per mille. The six flasks of untreated sewage had in each case 1-2 per mille more time than the former ones—namely, four of them 1 per mille, and two of them 1.1 2 per mille of the lime. The contents of all the 12 flasks having received a frag-ment of agar-culture of typhoid of bacilli, were examined at intervals of one hour and 1.1-2 hour, and from these tests also it appeared that a dose of 1 per mille of lime was needed to destroy all germs of cholera and typhoid fever in from 1 to 113 hours; it being a condition, moreover, that the liquid should remain throughout this time in motion. For sewage at rest, the author's experiments led him to the conclusion that not less than 3 per mile of lime would be needed. At no existing sewage works is the lime employed at present in sufficient quantities to destroy the pathogenic germs, and its value as a disinfectant is often partially neutralised by the use with it of sulphate of alumina. The author points out that a valuable index of the sufficiency or otherwise of the lime treatment is afforded by the alkalinity as tested by titration of the effluent with normal acid, and he has calculated a scale for this purpose.

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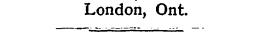


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Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b. River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	50 50 1 00 1 00 1 00 1 00 1 00 1 00 2 5 70 80 75 80 0 14 00 0 3 00 2 90 90 90 2 200 2 15 75 80 14 50 14 00 14 50 6 3 80 8 5 80 8 5 80 8 7 70 16 00 20 00 10 00 8 50 7 50 8 50 7 70 16 00 20 00 9 00 10 00 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 6 50 6 00 8 50 7 50 8 50 7 50 8 50 7 50 8 50 6 50 6 00 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50 7 50 8 50	
Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b. River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	50 50 1 00 1 00 1 00 95 65 75 70 80 75 80 1 105 70 80 75 80 1 14 00 9 90 9 90 1 2 00 2 15 75 80 1 14 50 14 00 14 50 3 2 60 65 80 65 85 11 13 13 16 16 22 27 27 33 3 1 50 5 20 7 0 16 00 9 00 9 00 9 00 7 00 16 00 9 00 7 00 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 7 50 8 00 8 00 8 00 7 50 8 00 8 00 8 00 7 50 8 00 8 00 8 00 7 50 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8	
Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b. River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	50 50 1 00 1 00 1 00 95 65 75 70 80 75 80 0 14 00 0 300 2 90 90 90 2 200 2 15 75 80 0 14 50 14 00 14 50 0 32 60 65 80 65 80 65 80 70 16 00 20 00 90 10 00 8 50 60 8 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 7 50 8 00 8 00 7 50 8 00 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9 01 9	
Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b. River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	50 50 1 00 1 00 95 65 75 70 80 75 80 0 14 00 0 3 00 2 90 90 90 1 2 00 2 15 75 80 1 4 50 14 00 14 50 1 32 60 65 80 85 11 13 4 10 22 23 4 60 65 85 85 11 13 4 10 23 23 4 60 65 85 85 11 13 4 10 23 24 24 25 27 26 60 65 80 70 16 00 20 00 90 10 00 8 50 70 16 00 20 00 90 70 16 00 20 00 90 70 16 00 20 00 90 70 16 00 20 00 90 70 16 00 20 00 90 70 16 00 20 00 90 70 17 18 19 10 10 10 11 11 11 11 11 11	
Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b. River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	50 50 1 00 1 00 95 65 75 70 80 75 80 0 14 00 0 3 00 2 90 90 90 2 200 2 15 75 80 14 50 14 00 14 50 3 2 60 65 85 11 13 4 16 10 20 00 90 10 00 8 50 60 70 16 10 20 00 90 10 00 8 50 60 7 50 8 50 7 50 8 50 7 50 8 60 7 50 8 7 50 8 7 50 8 7 50 8 7 50 8 7 50 8 7 50 8 7 50 8 7 50 8 7 50 8 8 7 50 8 8 7 50 8 8 8 7 50 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu ft., f.o.b. River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	50 50 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	

Toro	nto. Mon	treal.	Toror	ito.	Montreal.
Black lamp	25 2	2 25	3d to 5d cold cut, not polished		
Blue, ultramarine	20 1:		or blued, per 100 lbs	90	90
Oil, linseed, raw, & Imp. A.zl. 65 boiled 68	68 5		FINE BLUED NAILS	, ,	•
" boiled " 68	71 64 85 7		3d, per 1:0 lbs	1 50	1 50
Putty	δς 7: 2% 2	375	2d, '" "	2 00	
Whiting, dry, per 100 lbs 75	100 0		CASING AND BOX, FLOORING, SHOOK	AND.	TOBACCO BOX
Paris white, Eng., dry 90		1 10	MAILS.		
Litharge, Am		5 % 8	12d to 3od, per 100 lbs	50	50
Sienna, burnt	21 1		tod, " " 8d and gd, " "	60	
	19 1	3 15	6d and 7d, " "	75 99	75 90
Cement, Portland, per bbl			ad to sd. " "	1 10	
English	2 50		3d, " "	1 50	1 50
Belgium	2 75 3 25		FINISHING NAILS.	, -	-
" Thorold, "	15		3 inch, per 100 lbs	85	85
" Queenston, "	2 2;		21/2 10 -1/2	100	100
" Napanee, "	1 50		2 to 2 % " " "	11-	1 15
n Hull, n	1 53	_	1% 16 1%	I 35	1 35
I derina.	26		1%	1 75	I 75
" Newcastle "	2 4		SLATING NAILS.	2 25	2 25
" Belgian "	23		5d, per 100 lbs	8<	85
u Caradian "	2 3		4d, "	85	85
u koman "	2 7		3d, " "	1 25	, ,
Parian "	4 ! 0		žď, " "	1 75	15
n appenne	6 50		COMMON BARREL NAI	LS.	
Keene's Coarse" Whites" Calcined plaster, per barrel	4 51		1 inch, per 100 lbs	1 50	1 50
Fire Bricks, Newcastle, per M	2010		74 · · · · · · · · · · · · · · · · · · ·	2 75	75
Scotch	30 00		¥ " " "	2 25	2 25
Lime, Per Barrel, Grey	40	33-0	CLINCIL NAILS.		
" White	55		inch, per 10 ; lbs.	85	85
Plaster, Calcined, N. B	2 00		275 and 274	1 00	100
Heir Plantage N. S	2 00		3 800 3%	1 15	115
Hair, Plasterers', per bag 80	100		11 and 11 "	1 35	1 35
HARDWARE			· "	2 50	250
Cut nails, 5 d & 6cd, per keg Steel " " "	2 40 2 50	2 25	SHARP AND PLAT PRESSEI	-	•
CUT NAILS, PENCE AND CU		2 35	3 inch, per 100 lbs.	1 35	1 35
40d, hot cut, per 10 lbs	5	5	21/2 and 21/2 " " "	1 50	1 50
30d, 11 11 11	10	10	2 and 2% (1 11 11	1 65	1 65
20d, 16d and 12d, hot cut, per			172 800 174	1 85	1 85
100 lbs	25	15	;¥ ." "	3 00	2 50 3 (0
10d, ho: cut, per 100 lbs 8d, od, 11 11 "	20	20			310
66, 76,	25 40	25 40	Structural Iron Stee, beams, per 100 lbs	1 : 2 75	2 50
ad to sd." " "	86	60	channels, "	285	2 60
3d. " " "	1 (0	1 00	" angles. "	2 50	2 30
žď, " " "	1 50	150	' tees, ''	2 80	2 65
4d to 5d cold cut, not polished			plates,	2 55	2 35
or blued, per 100 lbs,	50	50	Sheared steel bridge plate	2 25	2 35
INDEX	ΓΟ Α	AD7	VERTISEMEN'	TS	5

In the "Canadian Architect and Builder."

Architects.	Church and School
Ontario Directory 111	Furniture.
Quebec Directory vi	Bostwick, Geo. F
Architectural Sculp- tors and Carvers.	Can. Office & School Furniture Co Office Specialty Co
Carnovsky, B. H IV Hicks, W. StivensIII	Cements.
Holbrook & Molling-	Adamant Mfg. Co
Wagner, Zeidler & Co., xii	Bremner, Alex Currie&Co.W.&F P
******	Estate of John Battle
Architectural Iron- Work,	McNally & Co., Wm.
	Maguire Br s
Bostwick, Geo. F xv B. Greening Wire Co.III	Morris, E. D
B. Greening Wire Co.III	Rathbun Co
Dennis R	Usher & Son, Isaac
Dennis R	Webster Bros. & Parkes
Lez, Joseph xvi	Contractors and
Meadows, Geo.B 11	Builders.
Whitfield, John II	
	Davidson & Kelly
Architects' Supplies	Tumer & Co., G. W
Hearn & Harrison vi	Contractors' Plan
Art Woodwork.	and Machinery

Cut Stone Con-Bricks (Pressed).

Builders' Supplies. Builders' Supplies.
Adamant Mfg Co...viii
Bremner, Alex....iv
Copland & Co.... 11
Currie & Co., W& F P. xvi
Maguire Bros....i
Morris, E. D....viii
McNally & Co...iv
Rathbun Co...viii
Rice Lewis & Son... 1V
Rowe, Geo...... 1V
Vakes, M. & I. L... xvi Rowe, Geo...... II Vokes, M. & J. L... xvi Webster Bros. & Parkes i

Boiler Covering. Can Mineral Wool Co vii

Bullding Stone
Dealers.
Carroll, Vick & Co... IV
Canadian Granite Co. iv
Longford Quarry and
Lime Co...... ii
Owen Sound Stone Co IV
Samuel & Sons, Thos. II
The Oneida Quarry Co. x
The Toronto & Orillia
Stone Quarry Co... xi
Builders' Hand.

Builders' Hard-

iv iv iv i viii viii

d

Copland & Co. Rice Lewis & Son Rowe, Geo

tractors. Curtis & Rowe..... 11 Isaac Bros...... 11 Oakley & Holmes... 11 Chimney Topping. Bremner, Alex..... iv Currie&Co., W &F.P. xvi

Drain Pipo Bremner, Alex... iv
Currie &Co., W&F.P.xvi
Hamilton and Toronto
Sewer Pipe Co... xii
McNaily & Co., W... iv
Maguire Bros... iii
The Colman - Hamilton Co... iii
Webster Bros. & Parkes 1 Dumb Waiters

Elevators
Fensom, John....... II
Miller Bros. & Tonss. vii
Otis Brothers & Co... I
Leitch & Turnbull.... I

King & Son, Warden xv

Elevator Motors
Ball Electric Co.....IV Engravers.

Fire Brick and Clay Premner, Alex... iv Colman-Hamilton Co.. iii Currie& Co, W & F P.. xvi McNally & Co. W.. iv Morrus, E. D... viii Webster Bros & Parkes i

Galvanized Iron Horkers. Tucker & Dillon..... 11

Bostwick, G. F. . . . xv Holbrook&Mollington i Webster Bros. & Parkes i Rice Lewis & Son . . IV

Iron Pipe. King & Son, Warden.. xv

Legal.
Denton & Dods.... IV

Mantela Batwick, Geo. F. xv Webster Bros. & Parkes i Metallic Lath. Boswick Metal Lath Mortar Colors and Shingle Stains.

Cabot Samuel, ... Il
Maguire Bros ... i
Muirhead, Andrew ... iv
Turonto Pressed Brick
Co... iii Ornamental Plas Alluisi & Son, D ... vi Baker, J. D ... I Ilynes, W J ... I Paints & Varnishes. Muirhead, Andrew... iv Painters. Delage, Theo ... vi Gilmor & Casey ... II Tourville, Chas ... vi

Paving. he Guelich Silica Barytic Stone Co.... vii

Plumbers McCrae & Watson.... vi Parquetry Floors
Elliott & Son..... I
Johnson, S. C.....

Roofing Materials
Merchant & Co 11
Metallic Roofing Co . ix

Williams & Co., H., II

Sanitary Appliances

Malcolm, W. B., ... ii

St. Johns Stone Chinaware Co. ... iii

Toronto Steel Clad Bath

& Metal Co. ... II

Shingle Stains
Cabot, Samuel...... II Sliding Blinds

Lea & Seaman..... xvi Stained and Decora-tive Glass

Terra Cotta Fire-proofing

Rathbun Co.....viii The Raritan Hollow & Porous Brick Co....viii

Wall Paper and Ceiling Decorations Elliott & Son..... II
Faircloth Bros..... v
Staunton & Co.,.... ix

Wall Plaster
Adamant Mfg. Co. of
America.... viii
Nowell & Co., B.L... xii