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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 22, 1893

No. 18

**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.

C. H. MORTIMER, Publisher,  
CONFEDERATION LIFE BUILDING, TORONTO.  
Telephone 2362.  
64 Temple Building - Montreal.  
Bell Telephone 3299.

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, 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. Parvillat, 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.

## 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 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, 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.

**TO DRAUGHTSMEN.**—About 13 quires of Whatman's Drawing Paper for sale (Imperial size), only \$3.50 for the lot. Box 151 at this office.

FREDERICTON, N.B., June 10th, 1893.

## TENDERS

Will be received, addressed "City Clerk, Fredericton, N. B.," for lighting the streets of said city by electricity (arc lights), said tenders to be received up to the 14TH DAY OF JULY NEXT, at noon. Fifty arc lights will be required, to be run per "Moonlight Schedule." A contract will be entered into (if terms satisfactory) to run for ten years. The contractor will be required to furnish, put in and run dynamos, machinery, plant and materials at his own charges in all things. Any further information will be furnished on application. Each tender to state description of machinery and light proposed to be furnished. The lowest or any tender not necessarily accepted.

By order of Street Light Committee,  
CHAS. W. BECKWITH,  
City Clerk.

## NOTICE TO CONTRACTORS.

### PLUMBING.

Sealed tenders will be received, addressed to the undersigned at Igersoll, up to 12 o'clock noon on WEDNESDAY, THE 5TH OF JULY, INSTANT, for the plumbing required in Sheriff Brady's new residence in Woodstock, Ont.

Plans and specifications can be seen and any other information obtained at the office of Messrs. Cuthbertson & Fowler, Architects, Woodstock. The lowest or any tender not necessarily accepted. Address

R. LAYTON, Builder,  
Igersoll, Ont.

## TOWN OF WALKERTON.

### NOTICE TO BRIDGE BUILDERS

Sealed tenders will be received, addressed to the undersigned at Walkerton, up to 4 o'clock in the afternoon on MONDAY, THE 3RD DAY OF JULY, for the erection and construction of a

### STEEL BRIDGE

over the Saugeen river on Durham street. Length, 195 feet from centre to centre of end pieces; roadway, 16 feet clear, 1 sidewalk, 5 feet clear, moving load, 120 lbs. per foot, two steel cylinders at each end 13 feet above water line.

Complete drawings and specifications and strain sheets to accompany tender. Tenders to state earliest time at which the bridge can be completed.

Also tenders for stone abutments, containing about 300 cubic yards of masonry.

An accepted bank cheque payable to the order of the Treasurer of the Town of Walkerton, for the sum of Five Hundred Dollars to accompany each tender.

To be made "Tender for Bridge." The lowest or any tender not necessarily accepted.

GEO GOULD,  
Town Clerk

Walkerton, June 13th, 1893



## TENDERS FOR STEEL TANK

Sealed tenders addressed to the City Engineer and endorsed "Tender for Steel Tank" will be received by registered post only up to the hour of 11 o'clock a.m. on MONDAY, THE 3RD JULY, 1893, for a Steel Tank completed and placed in the Water Works connecting crib at Hanlan's Point.

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 24 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 Room, Toronto, June 20, 1893.

## TENDERS

Will be received until WEDNESDAY, JUNE 28, for the erection of a

### RESIDENCE IN PARKDALE.

CHAS J GIBSON, Architect,  
93 Adelaide St. East, Toronto.

## TO BUILDERS.

Whole and separate tenders will be received up to 5 o'clock p.m. of TUESDAY, JULY 4TH, for the erection of a

### Public School

in York Mills. The lowest or any tender not necessarily accepted. Plans may be seen on and after Tuesday, the 27th inst.

MANUEL WILLIAMS, Architect,  
828 Yonge Street, Toronto.



## TENDERS FOR VALVES

Notice is hereby given that sealed tenders addressed to the "City Engineer" Toronto, and endorsed "Tenders for Valves" will be received by registered post only up to the hour of eleven o'clock on MONDAY, 3RD JULY NEXT, for

- 1 24 inch check valve.
- 2 36 inch check valves.
- 3 30 inch check valves.
- 2 36 inch screw valves.

Specifications 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 2 1/2 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, June 21, 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.

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

## CONTRACTS OPEN.

HAWLOCK, ONT.—Messrs. Dawson Bros purpose erecting a large flour mill.

PILOT MOUND, MAN.—Messrs. Dow & Curry have decided to erect an oatmeal mill here.

CARDINAL, ONT.—The Methodists are asking for tenders for the erection of a new church.

SOREL, QUE.—The ratepayers have granted a bonus of \$50,000 for the erection of a large cotton mill.

MARYSVILLE, N. B.—Mr Alexander Gibson is arranging for the erection of twenty double houses.

CARLTON PLACE, ONT.—The agitation for a system of waterworks and sewerage is again being revived.

STRATFORD, ONT.—The sum of \$30,000 will be expended this year on sewers and permanent pavements.

DARTMOUTH, N. S.—The Water Commissioners will construct a sewer on the south end of King street.

PETERBORO, ONT.—The Auburn Woolen Company contemplate making further additions to their mill.

GRANDY, QUE.—The village council is prepared to negotiate for the construction of a water works system.

BLENHEIM, ONT.—Mr. Sheldon, proprietor of the Sheldon House, is about to commence the erection of a large brick hotel.

GLENCOR, ONT.—The plans for the new G. I. R. station here have been completed and are now in Montreal for approval.

DUNDAS, ONT.—The Council is considering the question of lighting the streets with electricity and tenders are now being received.

MEAFORD, ONT.—Mr. A. W. Corley will receive tenders until Wednesday, the 28th inst., for heating and ventilating the public school.

WINNIPEG, MAN.—Tenders are invited by G. H. West, Chairman Committee on Works, until to-day, for the construction of a sewer on Eleventh street.

COOKSHIRE, QUE.—A by law authorizing the Council to borrow the sum of \$30,000 for water works and sewerage purposes has been carried by the ratepayers.

MITCHELL, ONT.—Messrs. Jas. Watson and Thomas Stoneman will each erect new stores—Mr. Porteous is about to erect a new residence in the north ward.

BRADFORD, ONT.—Mr. J. D. Sher's saw mill was badly wrecked a few days ago by the bursting of a fly-wheel, much valuable machinery being destroyed.

BRADFORD, ONT.—It is rumored that a syndicate is to be formed here for the purpose of building a large hotel and a block of stores on the site of the burned buildings.

WILKESPORT, ONT.—Orra Bishop, Clerk of Sombra, will receive tenders until the 3rd of July for the construction of the O'Leary and McLennan drains in Sombra township.

WATERLOO, ONT.—The capital stock of the Waterloo Knitting Company is to be increased by \$10,000, part of which will be spent in the purchase of additional machinery.

PETERBORO, ONT.—Messrs. P. H. Green, Jas. A. Fife, Geo. Cochrane, H. C. Stabler, Jas. C. Smith and John White will each erect new residences this summer near Dixon Park.

KINGSTON, ONT.—Mr. Chamberlain, Jail Inspector, has written to the County Council urging the erection of a new residence for the jailer. A committee will inspect the present residence and report.

ARNPRIOR, ONT.—Mr. A. Chaine, Secretary Separate School Board, will receive tenders until Saturday, the 24th inst., for the erection of a convent in this town. Plans may be seen at the office of M. Calvin.

OWEN SOUND, ONT.—At the last meeting of

Keppel Council, plans and specifications of a scheme for draining Shallow Lake were presented, action on which was postponed until the next meeting of council.

**PAINLEY, ONT.**—The County Council has granted the sum of \$5,500 for the construction of Rae's bridge near this town. A grant of \$500 was also made to assist in the erection of a wooden bridge in Sauguen township.

**HULL, QUE.** At a special meeting of the Council held on Monday last, it was decided to issue debentures to the amount of \$40,000, to be expended in the extension of the waterworks system, and opening of streets, building and repairing sidewalks.

**VICTORIA, B.C.**—The ratepayers have rejected the \$700,000 sewerage loan by-law, also the electric lighting loan by-law and the park by-law. The only by-law approved was that of the \$85,000 loan for new school buildings.

**RICHMOND HILL, ONT.**—The Archbishop of Toronto recently visited the church here and expressed his opinion as unfavorable to the present building. He recommended that at no distant date a better building and site be secured.

**ORILLIA, ONT.**—At the last meeting of the Town Council Mr. J. H. Tool was appointed to prepare plans for a suitable town hall and market building. The sum of \$15,000 was granted by the ratepayers for this work some few days ago.

**YARMOUTH, N.S.**—Tenders will be received at the office of L. E. Baker until Monday, the 3rd of July, for building an hotel in this town. Plans may be seen at above office, and at the office of the architects, J. C. Dumaresq and H. H. Mott, Halifax.

**RICHMOND, QUE.**—Property owners have approved of the by-law granting a bonus for the proposed St. Francis river dam, the promoters of which are Messrs. Cleveland & Nunn.—The Government has accepted the Blais site for the new public building.

**DORSET, ONT.**—Tenders are invited until the 30th inst. for the erection of five buildings, consisting of boarding house, office, stable, store house and blacksmith shop. Plans may be seen at Gilmour & Co's office in Trenton, or at the store of N. Langford in this village.

**LONDON, ONT.**—Geo. Craddock, architect, invites tenders until the 28th inst. for furnishing the necessary gearing and electric motor for hoist for Robert Green's warehouse, Carling street.—The Salvation Army has finally decided to erect handsome new barracks here.

**HALIFAX, N. S.**—W. B. McNutt, Clerk of Works, will receive tenders until Monday, the 26th inst., for trenching sewers on Lower Water street from Sackville street to Halifax Hotel, also for pile foundation for sewer outlets at foot of Prince street and De Wolf's wharf, Upper Water street.

**NIAGARA FALLS, ONT.**—The Cataract Loan Company, of Niagara Falls, Ont., is being incorporated, with a capital stock of \$50,000, to purchase lands, erect buildings, bridges, etc. Mr. W. L. Dorran, of the Dominion Suspender Company, of Niagara Falls, is one of the incorporators.

**REGINA, N. W. T.**—The M. L. A. has employed Mr. John Ried to prepare plans and specifications for two bridges on the Devils Lake or North Road, one across Cussif Creek and the other across the White Sand.—The Presbyterians have resolved to proceed at once with the erection of a church here and another in the Orkney settlement.—The Town Clerk will receive tenders until noon on Thursday, the 30th inst., for the construction of a tile pipe sewer on Twelfth avenue and Albert street.

**WILLOWDALE, ONT.**—Peter S. Gibson, York Township Engineer, will receive tenders until Tuesday, the 27th inst., for the following works: Building a bridge over Black Creek on the Weston Road; repairing bridge at Dunn's Corner, Lot 20, Con. 1, east of Yonge street; repairing bridge at Webster's, lot 15, con. 2, east of Yonge street; building a culvert at Henry Duncan's on the Don Road; building two culverts on Keele st., south of the Weston road; cutting hill at Whitaker's, lot 15, con. 3, east of Yonge st., and for other small contracts.

**TORONTO, ONT.**—Hon. W. E. Sanford invites separate tenders until Monday next for the erection of a new iron-fronted building on the present site of Oak hall, 115 King street east. Plans may be seen and information obtained from the architect, Mr. G. R. Harper, at Oak Hall.—The City Engineer has placed an item of \$25,000 in the estimates for the rebuilding of Arthur street bridge, and \$10,000 for a new crematory.—Building permits have been granted as follows: F. J. Phillips, brick casing to dwellings, 46, 48, 50 Gerrard street east, cost \$1,000; L. J. Hewitt, 3 story brick hotel, s. w. cor. Queen and Peter st., cost \$8,000; Wm. P. Hubbard, alterations to 57 and 59 Bathurst street, cost \$1,000; Misses Stewart, detached 2 story and attic brick dwelling, east side Madison avenue, just north of Bloor cost \$5,500.

**HAMILTON, ONT.**—The Sewers Committee has decided to construct a sewer on King William street, from James to John street, and on Pearl street, between Florence and King streets. A petition has been presented for a sewer on Ashley street.—It is the intention to remodel and improve St. Mary's church next year.—City Engineer Haskins has written to Chief Engineer Hobson,

of the Grand Trunk Railway Company, asking that the John street bridge be widened. The company intends to rebuild the Mary street bridge this year.—Bishop Dowling has decided to proceed with the erection of a new Roman Catholic church on the corner of Locke and Herkimer streets, the site for which was purchased last year. The cost of the proposed building will be about \$8,000.—A building permit has been granted to the Grant-Lottridge Brewing Company, for re-building the spring brewery, cost \$10,000.

**OTTAWA, ONT.**—Messrs. W. E. Edwards & Co. will shortly commence the erection of a new saw mill beside their present mill at New Edinburgh, over the Rideau Falls. This firm will also build a large sash and door factory on the island where their drying house used to be.—There seems to be a strong expectation that work on the Montreal and Ottawa railway will be commenced almost immediately, as only two weeks remain to begin in order to prevent the bonus from the Government being transferred to the proposed Canada Atlantic Railway. It is said that portion of the line from Rigand to Point Fortune is to be abandoned, and a new line run direct from Rigand. This line will probably pass at but a short distance from Vanleek Hill. From the latter place to Ottawa, the length of the road will be 45 miles.—Ald. Corry has started building four detached houses on McLaren street. The cost will be about \$25,000.—The Board of Health of this city invite competitive plans from architects for a contagious disease hospital.

**LISTOWEL, ONT.**—The Brethaupt Leather Co. are having plans prepared and will call for tenders shortly for the erection of a dry house on the grist mill site. The building will be a substantial frame structure, 84x40 ft., four and a half stories high, including basement, and will be constructed on the latest and most approved plan, with power hoist, steam heating and proper system of ventilation. The rolling mill will be placed in this building, with power supplied by small engine. Steam for this and heating purposes will be conveyed from the new boiler to be placed in old building. The firm intend next year to erect a new boiler and leech house.—Mr. Martin, of the firm of Gillies & Martin, has been visiting foundries at Seaford and Galt this week with a view of gaining information which may be of value in the construction of their new buildings here, the plans for which will now be proceeded with and contracts awarded shortly.—Mr. O. S. Clarke will receive tenders until Saturday next, the 24th inst., for making alterations and additions to the premises on corner of Main and Mill streets, in this town, to be occupied by the Bank of Hamilton. Plans may be seen at the office of Mr. W. E. Binning, architect.

**MONTREAL, QUE.**—The Civil Engineer of the Merchants Telephone Company is at present engaged in laying out their new line and tenders for poles will be asked at an early date.—The Fire Committee has decided to ask the City Council for an appropriation of \$8,500 with which to purchase a water-tower 75 feet in length, which will be located at No. 3 station.—The construction of the new building for the Dorval University will shortly be commenced. The building, which will be situated on St. Denis street, will be constructed of Montreal limestone, and will cost about \$200,000. The land has been presented by the Seminary of St. Sulpice, who have also subscribed money towards the building. It is expected that the work will be finished by January, 1895. There will be accommodation for 500 students and for the administration of the University. Since writing the above we learn that the plans submitted by Messrs. Perrault, Mesnard & Venne have been adopted.—Tenders were called a few days ago for the supply of iron pipes, but some of the alderman have taken exception to a clause in the specifications, and new tenders are asked for, to be sent in by the 27th inst. The quantity required is 1430 tons. The first delivery of 100 tons of 24-inch pipes to be made on or before July 15th. The 12, 10, 8 and 4 inch pipes are to be in two deliveries, on or before September 2nd and October 2nd.—A by-law has been carried by the ratepayers of St. Louis du Mile End authorizing the Council to borrow the sum of \$100,000 for sewers, roads and other improvements.—The Finance Committee has granted the request of the Fire Committee for an appropriation of \$7,000 for a water tower and \$5,000 for an aerial bamboo ladder.—A meeting of the Y. W. C. A. was held on Thursday of last week, for the purpose of examining the plans of the proposed new building. The new structure will cost over \$50,000. It will be erected on Drummond street, near Dorchester. There will be a frontage of 70 feet on Drummond street, and the south side situated on a lane will have a length of 127 feet. The building will have a large hall, 48x31; 8 class rooms; a library, 31x28 feet; 54 bedrooms, committee rooms, offices and laundry. It will be four stories in height, surmounted by a mansard roof. The building will be brick, with stone facings, Messrs. Hutchison & Steels are the architects. The plans are now on view at the rooms of the Association.—The recently destroyed buildings at the Villa Maria convent are to be restored, and the work of rebuilding will be commenced shortly. The \$100,000 which the sisters receive from the Insurance Co. will serve as a fund to start on, and the remainder of the expense will be met by means of subscriptions from friends of the order over the continent. The church destroyed will be replaced by a small chapel.—Mr. L. O. David, City Clerk, will receive tenders un-

til Tuesday, the 11th of July, for the laying of gas mains in the streets of the city and supplying of gas to the citizens.—A special general meeting of the shareholders of the Pontiac and Pacific Junction railway and the Ottawa and Gatineau Valley railway was held in this city on Saturday last. The business was the ratification of the agreement regarding the building of the bridge over the Ottawa river from Nepean point to what are called the piling grounds. The bridge is to be a steel cantilever railway and passenger bridge, built on stone piers, and negotiations regarding it are to be opened with the Government and the municipalities interested at once.

## FIRES.

The saw mills owned by Messrs. Weir & Lewis, situated at Easton, Ont., were destroyed by fire recently. Insurance \$1,000.—The wholesale boot and shoe factory of Thomson & Co., situated on Craig street, Montreal, was damaged by fire recently to the extent of \$35,000, the greater part of which was on the stock. The loss is fully covered by insurance.—Messrs. J. R. Lundy & Co's planing mill at Niagara Falls, Ont., was burned on Sunday morning last. The loss on building, stock and plant is about \$7,000, with only \$1,500 insurance.—The village of Cardinal, Ont., was visited by a disastrous fire on the 19th inst. Five buildings, business and residences, and about a dozen outbuildings and sheds were reduced to ashes. The principal losers are: John Birks, drug store and stock of drugs, owned by A. Dowsley & Co., building only covered by insurance; W. A. Casselman's grocery store and stock; W. Crowder's meat market; C. H. Thomson, dry goods, stock and household effects; J. D. Reid's vacant tailor store; John Sitt's brick residence; Dillon's large three-story brick hotel and house.—Fire at Gibson, N. S., recently destroyed eighty dwellings, six grocery and general stores, two churches, the station and round-house. The destruction to property will amount to \$200,000, while the insurance is only about \$90,000.—Schlehauf Bros' stove factory, in the village of West Lorne, Ont., was totally destroyed by fire on Tuesday last. The loss will be about \$4,000.

## CONTRACTS AWARDED.

**PRESOTT, ONT.**—The contract for the erection of the High School building has been let to Messrs. Ward & Steel, of this town.

**LENNOXVILLE, QUE.**—The corporation has entered into an agreement with Messrs. James Peyton & Co. by which the latter are to construct a system of waterworks for the village.

**MONTREAL, QUE.**—The contract for the supply of special castings required by the Water Committee has been equally divided between Messrs. Rodden & Co. and Mr. P. Amasse, each of whom tendered at \$61.60 per gross ton.

**BRIDGEPORT, ONT.**—The Waterloo Township Council has accepted the tender of the Central Bridge and Engineering Co., of Peterboro, for a steel bridge with steel joists to be built across the Grand river at this place. The contract price is \$3,965.25.

**OTTAWA, ONT.**—Ex-alderman John Heney has received the contract for the new pier at Point du Chenes. The price is in the neighborhood of \$56,000.—The Baptist congregation of the western portion of the city have awarded the contract for erecting a new church to Mr. Lister.

**KINGSTON, ONT.**—The waterworks Committee has awarded the contract for the construction of the suction pipe to replace that laid by A. Rousseau to the Canadian Locomotive and Engine Co., at \$4,560, and the laying of it to the Collins-Brylating Co. at \$3,950 in summer and \$3,000 in winter.

## CORRECTION.

Editor CANADIAN CONTRACT RECORD.

DEAR SIR,—We notice in your issue of the 15th inst., relative to contracts let at the City Hall, you mention the price as \$1.19 per yard for the cement sidewalk to be laid on the east side of Sherbourne street, from Gerrard to Wellesley streets. The price is not \$1.19 per yard, but per lineal foot run of the sidewalk, which is 6 feet wide.

Yours truly,

A. GARDNER & Co.

**GLASS FROSTING.**—Dissolve Rochelle salts in gum arabic water; let it stand over night, and after cleaning the glass off well, flow the solution on so that it will not run; lay the glass flat, if convenient, and when it commences to set take a pointed stick and dot it in rows to suit the taste; put the dots about 1½ inches apart. If you wish it colored use analines—red, blue or green, and gamboge for yellow or gold color; then flow on a thin coat of damar varnish, and it is finished.

## MUNICIPAL DEPARTMENT.

### MUNICIPAL IMPROVEMENTS.

One of the greatest problems of the day, says the *Contract Journal*, is how to obtain the necessary funds to carry out the improvements which the march of civilization press upon municipal authorities. Of course the cost ultimately comes upon the ratepayers however the money be obtained, but it is seldom that the incidence of taxation can be just. Take example, the laying out of parks and pleasure grounds. The necessary funds may be raised by a loan spread over a number of years, but repayments are made, and the capital account gradually dwindles to nothing; but the grounds are there, and the inhabitants still benefit by them, paying the annual upkeep. Thus one generation benefits at the expense of another. Other cases might easily be cited where perhaps the present generation benefits at, or partly at the cost of a future generation. There seems to be no possible way of making those people who benefit the sole paymasters. Hence the best solution of the problem is perhaps to be found in some method of indirect payments. For years, nay, for centuries, London benefited from the coal dues, till modern ignorance and desire for notoriety abolished them. The very people who did most of their abolition are now the people who see how unwise was their action. There was an indirect mode of taxation which nobody felt, but which permitted many improvements. Similar improvements, if entered into now, mean a direct addition to the rates—that is, not distributing the payment upon the whole of the population benefited. Many municipalities have looked around for some method of obtaining funds indirectly, and in a manner hardly felt by the townspeople. This, in some instances, is managed by controlling the gas and water works—the profits from which undertakings go in relief of the rates, or, what comes to the same thing, the carrying out of the improvements. We think in these days of heavy direct taxation and rating that all municipalities not having yet acquired the control of water and of artificial light should carefully enquire into the circumstances of the case, and, if possible, acquire these undertakings. The ordinary prices which no one objects to pay to companies would, of course, be paid to the municipality, and the profits of the business fixes the amount of indirect rating for use in effecting desirable improvements. We take it that water and light, being required by every member of the community, are just those things which the municipality might provide without interfering at all with ordinary business pursuits and developments.

## 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.

GRAND TRUNK RAILWAY,  
CANADIAN PACIFIC RAILWAY,  
CREDIT VALLEY RAILWAY,  
ONTARIO AND QUEBEC RAILWAY,  
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GREAT WESTERN RAILWAY,  
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JUNCTION RAILWAY,  
NIAGARA FALLS AND  
QUEENSTON ELECTRIC RAILWAY,

All Used  
**Thorold Cement**  
in construction.

MANUFACTURED BY  
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## CEMENT.

7,000 Barrels of the best  
London brand in stock and  
to arrive; also Fire Brick, and  
Drain Pipes, best quality and  
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31 Wellington Street, MONTREAL.  
Sole Agents for  
"The Grahtrix" Smoke Test Machine, for  
applying the smoke-test to defective drains, soil  
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ISAAC USHER & SON,  
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Manufacturers of

QUEENSTON CEMENT

Proved by Government tests to be the best Canadian natural cement. Write for prices, &c.

WILLIS CHIPMAN, B. A. Sc.,

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Water Works - Sewerage  
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103 BAY STREET - TORONTO.

J. McDOUGALL, C. E.,

ENGINEER COUNTY OF YORK,

Consulting Engineer for Municipal Work.

Electric Railways and Bridges.

COURT HOUSE, - TORONTO.

Municipal officers, contractors and others, are requested to mention the CONTRACT RECORD when corresponding with advertisers

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WATERWORKS, SEWERAGE, ETC.

Twenty five years practical experience in Great Britain, United States and Canada.

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Steel Beams kept in stock.

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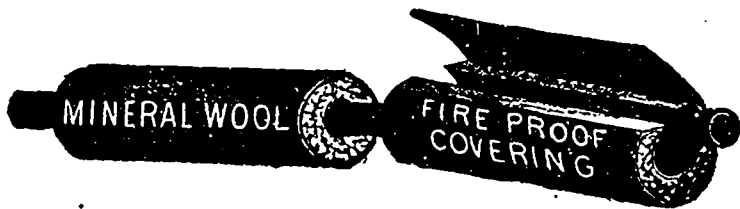
This improvement marks an era in sanitary reform. Universal certificates in its favor from Architects, plumbing inspectors, master plumber associations, and others. Costs no more: more economical to use.

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MUNICIPAL OFFICIALS

should see to it that in the erection of town and city PUBLIC BUILDINGS, the installation of water works plant, etc., the advantages of . . . MINERAL WOOL



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.

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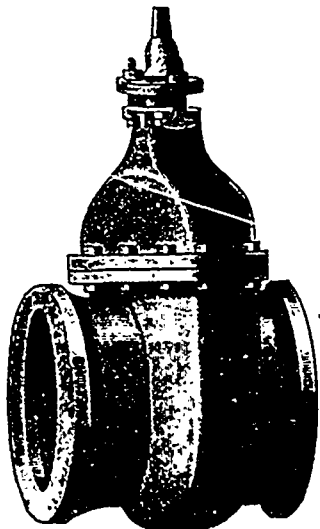
... WE MANUFACTURE ...

Hydrants, Valves, Valve Boxes

and Water Works Supplies generally,

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Tools for tapping mains under pressure  
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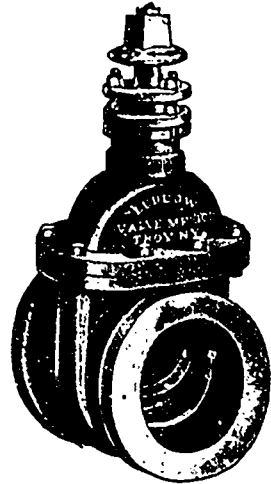
A quantity of coal tar made from the best bituminous coal.

THE STRATFORD GAS CO.  
John Read, Manager.

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LUDLOW VALVES



Double Stuffing Box.

Compound Wedge,

Double Disk,

made in the most modern principles and of the best material.

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MATTHEWS AND LUDLOW

Hydrants, Valve and Service Boxes at bottom prices.

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PORTLAND CEMENT

23,353 Barrels of Burham Brand were sold in Toronto in 1892, amounting to two thirds of our total sales

Nichols, Smythe & Co., - 25 George St., Toronto.

CEMENT CONTRACTORS TO THE CITY OF TORONTO.

Telephone 1948 or call and see us.

HAMILTON AND TORONTO SEWER PIPE CO.

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SEWERS, CULVERTS,

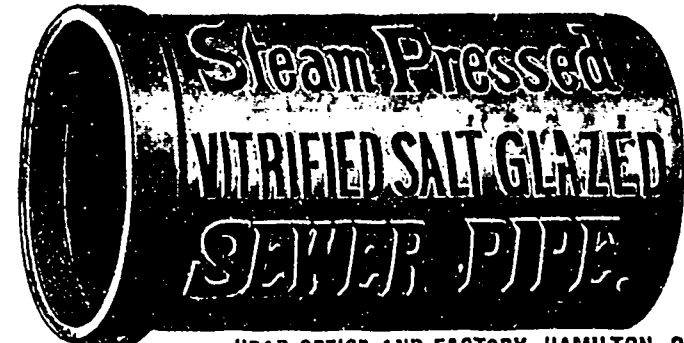
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WATER PIPES.

INVERTS

Fire Brick Sewers

Write for Discounts.



HEAD OFFICE AND FACTORY, HAMILTON, CANADA.

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MANUFACTURERS OF

CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE.

PRICES ON APPLICATION.

Ontario Water Meter Co., Ltd.

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WATER METERS



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

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Works: MONTREAL AND ST. HENRI, QUE.

CORRESPONDENCE SOLICITED.

THE STANDARD DRAIN PIPE CO.

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Manufacturers of

Salt-Glazed,

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SEWER

PIPES

Double Strength Railway Culvert Pipes, Inverts, Vents,



AND ALL KINDS OF FIRE CLAY GOODS.

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Railway and Contractors' Plant.

BRIDGE BUILDERS

BELLEVILLE, ONT.

**CENTRAL BRIDGE AND - -  
- - ENGINEERING COMPANY,  
(LIMITED)**  
Peterborough, Ont.  
WM. H. LAW, Manager and Engineer.  
MANUFACTURER OF

**RAILWAY AND HIGHWAY BRIDGES**

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

OUR SALES OF  
**"BURHAM"**

**Portland Cement.**

for the past 8 months have been  
**25,499 CASKS.**  
"Burham" Brand outranks all others.  
Try it and be convinced. . . . .

Sole Consignees for Canada:  
**MCRAE & CO., OTTAWA**

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ALEX. GARTSHORE, - Proprietor.  
Manufacturer of  
**CAST IRON WATER, GAS AND SEWER PIPES.**

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	30	00	30	00		
3 inch clear			27	50	60	60			
1 x 10 and 12 dressing and better.		20	00	22	00	18	00	20	00
1 x 10 and 12 mill run.		13	00	14	00	10	00	10	00
1 x 10 and 12 dressing.		15	00	16	00	12	00	12	00
1 x 10 and 12 common.		12	00	13	00	8	00	10	00
1 x 10 and 12 spruce culls.		10	00	11	00	10	00	11	00
1 x 10 and 12 maple culls.		9	00	9	00	9	00	9	00
1 inch clear and picks.		23	00	23	00	33	00	35	00
1 inch dressing and better.		18	00	18	00	20	00	20	00
1 inch siding, mill run.		14	00	16	00	14	00	16	00
1 inch siding, common.		13	00	13	00	13	00	14	00
1 inch siding, ship culls.		12	00	12	00	12	00	11	00
1 inch siding, mill culls.		8	00	9	00	8	00	9	00
Cull scantling.		8	00	9	00	8	00	9	00
1 1/2 and thicker cutting up plank.		22	00	25	00	22	00	25	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.		15	00	16	00	14	00	15	00
1 1/2 inch flooring.		15	00	16	00	14	00	15	00
XXX shingles, sawn, per M.		2	50	2	60	2	70	2	70
26 in.		1	50	1	60	1	60	1	70
XX shingles, sawn.		1	50	1	60	1	60	1	70

**YARD QUOTATIONS.**

Mill cull boards and scantling	10	00	10	00
Shipping cull boards, promiscuous 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.	13	00	13	00
Hemlock scantling and joist up to 20 ft.	14	00	14	00
" " " " " " " "	15	00	15	00
" " " " " " " "	16	00	16	00
" " " " " " " "	17	00	17	00
" " " " " " " "	19	00	19	00
" " " " " " " "	21	00	21	00
" " " " " " " "	23	00	23	00
" " " " " " " "	25	00	25	00
" " " " " " " "	27	00	27	00
" " " " " " " "	29	00	29	00
" " " " " " " "	31	00	31	00
" " " " " " " "	33	00	33	00
" " " " " " " "	35	00	35	00
" " " " " " " "	37	00	37	00
" " " " " " " "	39	00	39	00
" " " " " " " "	41	00	41	00
" " " " " " " "	43	00	43	00
" " " " " " " "	45	00	45	00

Toronto. Montreal.

Cutting up planks, 1 1/2 and thicker, dry.	25	00	25	00	
Cutting up planks, 1 1/2 and thicker, board.	18	00	18	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	28	00	
1 1/2 inch flooring, rough, F.M.	18	00	18	00	
1 1/2 " " dressed, F.M.	27	00	27	00	
1 1/2 " " undressed, B.M.	18	00	18	00	
1 1/2 " " dressed.	18	00	18	00	
1 1/2 " " undressed.	12	00	15	00	
1 1/2 " " dressed.	22	00	22	00	
1 1/2 " " undressed.	15	00	15	00	
Clapboarding, dressed.		35	00	35	00
XXX sawn shingles, per M.	2	60	2	60	
Sawn lath.	2	50	2	50	
Cedar.	3	00	3	00	
Red oak.	30	00	30	00	
White.	45	00	45	00	
Basswood, No. 1 and 2.	18	00	18	00	
Cherry, No. 2 and 3.	70	00	70	00	
White ash, No. 1 and 2.	25	00	25	00	
Black ash, No. 1 and 2.	18	00	18	00	
Dressing stocks.	16	00	16	00	
Picks, American inspection.	40	00	40	00	
Three uppers, Am. inspection.	50	00	50	00	

**BRICK—M**

Common Walling.	7	00	6	00
Good Facing.	9	00	8	50
Sewer.	8	50	9	00

**Pressed Brick, Per M:**

Plain brick, f. o. b. at Milton	16	00		
" " 2nd 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 Campbellville.	18	00	25	00
2nd quality, f. o. b.	14	00	20	00
3rd	11	00	17	00
Ornamental, per 100.	3	00	10	00
Tiles.	24	00	26	00

Plain brick, "A" f. o. b. Don Valley

" " " " " "	18	00	25	00
" " " " " "	16	00	22	00
" " " " " "	15	00	18	00
Trojan or Buff.	24	00	30	00
Ornamental, per 100.	3	00	60	00

Plain brick, f. o. b. Port Credit

" " 2nd quality	18	00	13	00
" " 3rd	10	00	10	00
Hard Building.	8	00		
Ornamental, per 100.	3	00	10	00

**SAND.**

Per Load of 1 1/2 Cubic Yards

Common Rubble, per ton, delivered.	14	00	14	00	
Large flat Rubble, per ton, delivered.	18	00	18	00	
Foundation Blocks, per c. ft.		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.		80	95	65	75
Balochmyle					
New York Blue Stone				1	00
Granite (Stanstead) Ashlar, 6 in. to 22 in., rise 9 in., per ft.		70	85	25	85
Moat Freestone		75	80		
Thomson's Gatelawbridge, cu. ft.					
Credit Valley Rubble, per ton, delivered.	13	00	14	00	
Credit Valley Brown Coursing, per superficial yard.	2	50	3	00	
Credit Valley Brown Dimension, per cubic foot.		90		90	
Credit Valley Grey Coursing, per superficial yard.	1	50	2	00	
Credit Valley Grey Dimension, per cubic foot.		75		20	
Madoc Rubble, delivered, per ton.	14	00	14	50	
Madoc dimension floating, f. o. b. Toronto, per cubic ft.	30	30			
Ohio Freestone, No. 1 Blue Promiscuous, f. o. b.		60		65	
No. 1 Blue Dimension		65		60	
No. 1 Buff Promiscuous		80		85	
No. 1 Buff Dimension		85		80	
The above prices means freight and duty paid.					
2 in. sawed flagging per sq. ft.		11		13	
3 1/2 " " " "		12		14	
4 " " " "		13		15	
5 " " " "		14		16	
6 " " " "		15		17	
Duty to be added to these prices.					
Quebec and Vermont rough granite for building purposes, 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		50	
Granite curbing stone, 6 in. x 20 in., per lineal foot.		70			

**SLATE.**

Roofing (per square).				
" red.	16	00	20	00
" purple.	9	00	10	00
" untanned green	8	50	6	00
" black	8	00	7	50
Terra Cotta Tile, per sq.		22		20
Ornamental Black Slate Roofing.		8		00

**PAINTS. (In oil, 1/2 lb.)**

White lead, Can., per 100 lbs.	6	25	6	00	6	25
" zinc, Can.	5	50	7	50	8	00
Red lead, Eng.	5	50	6	50	6	00
" venetian, per 100 lbs.	1	60	1	75	1	75
" vermilion.	90	1	90	1	90	1
" Indian, Eng.	70	12	70	12	70	12
Yellow ochre.	5	10	4	75		
Yellow chrome.	15	20	15	20		
Green, chrome.	7	12	7	12		
" Paris.	25	40		20		

Toronto. Montreal.

Black, lamp.	15	25	15	25
Blue, ultramarine	15	20	15	18
Oil, linseed, raw, 1/2 gal.	65	65	65	65
" " refined.	65	71	68	68
" " boiled.	25	84	75	75
Putty.	2 1/2	2 1/2	2 1/2	2 1/2
Whiting, dry, per 100 lbs.	75	1	60	75
Paris white, Eng., dry.	90	1	90	1
Litharge, Am.	6 1/2	3	6 1/2	3
Sienna, burnt.	15	2	15	2
Umber.	8 1/2	12	12	15

**CEMENT, LIME, etc.**

Cement, Portland, per bbl.	2	50			
" English	2	75			
" Belgium	3	25			
" Thorold	1	50			
" Queenston	2	23			
" Napanee	1	50			
" Hull	1	50			
" German		2	65	2	85
" London		2	45	2	90
" Newcastle		2	35	2	50
" Belgian		2	3	2	40
" Co-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
Calced plaster, per barrel.		15	1	17	
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	

**HAIRWARE.**

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 100 lbs.		5		5	
30d, " " "		5		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	

3d to 3d cold cut, not polished or blued, per 100 lbs. 90 90

**PINK BLUED 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