

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured covers/
Couverture de couleur

Coloured pages/
Pages de couleur

Covers damaged/
Couverture endommagée

Pages damaged/
Pages endommagées

Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée

Pages restored and/or laminated/
Pages restaurées et/ou pelliculées

Cover title missing/
Le titre de couverture manque

Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées

Coloured maps/
Cartes géographiques en couleur

Pages detached/
Pages détachées

Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)

Showthrough/
Transparence

Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Quality of print varies/
Qualité inégale de l'impression

Bound with other material/
Relié avec d'autres documents

Continuous pagination/
Pagination continue

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Includes index(es)/
Comprend un (des) index

Title on header taken from:/
Le titre de l'en-tête provient:

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

Title page of issue/
Page de titre de la livraison

Caption of issue/
Titre de départ de la livraison

Masthead/
Générique (périodiques) de la livraison

Additional comments:/
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	12X	14X	16X	18X	20X	22X	24X	26X	28X	30X	32X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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. MARCH 22, 1894 No. 7

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 2299.
Information solicited from any part of the Dominion regarding contracts open to tender.
Advertising Rates on application.

At its Convention held in Toronto, Nov. 20 and 21, 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.

TENDERS.

Whole tenders (except excavation and masonry) will be received at the Financial Department S. A. Headquarters, Albert Street, Toronto, up to SATURDAY, 31ST MARCH, for the erection of a

Barracks and Officers' Quarters

at Orillia, Ont., according to plans and specifications prepared by Herbert G. Paull, Architect. Tenders to be addressed to HERBERT H. BOOTH, Commandant S. A. for Canada.
Plans may be seen at S. A. Building, Toronto, and at Officers' Quarters, Orillia.

TENDERS.

Whole or separate tenders will be received by the undersigned up to 6 o'clock p. m., THURSDAY, APRIL 5TH, 1894, for the erection of a

FOUR ROOM BRICK SCHOOL HOUSE

in the Town of Sudbury. Plans and specifications can be seen at the Post Office, Sudbury, or at the office of the Architects, Thos. Kennedy & Co., Barrie, Ont.
The lowest or any tender not necessarily accepted.
STEPHEN FOURNIER,
Chairman Sep. School Board.
Sudbury, March 12th, 1894.

TENDERS

for the erection of a Building for the Standard Bank of Canada at Chatham, Ont., will be received by the undersigned until

Saturday, 31st Inst.

Plans and specifications may be seen at the Standard Bank, Chatham, or at the office of the Architect.

The lowest or any tender will not necessarily be accepted.

DAVID B. DICK, Architect,
17 Toronto St., Toronto.
21st March, 1894.



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, MARCH 31ST, 1894, for the

DREDGING OF WATER SLIPS.

Tenders must be addressed to the undersigned and will be received through registered post at Plans may be seen and forms of tender obtained at the office of the City Engineer, on and after Saturday, March 24th, 1894.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2 1/2 per cent. for 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 Committee on Works.
Committee Room, Toronto, March 19, 1894.



Sealed tenders addressed to the undersigned, and endorsed "Tender for Hot Water Heating Apparatus Calgary, Alta." will be received until TUESDAY, 27TH MARCH, for the construction of a Hot Water Heating Apparatus at the Calgary, Alta., Post Office.

Plans and specification can be seen and form of tender and all necessary information obtained at this Department and at the Clerk of Works Office, Calgary, Alta., after MONDAY, 27TH MARCH, INSTANT.

Persons 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 accepted bank cheque, made payable to the order of the Honorable the Minister of Public Works, equal to five per cent. of the amount of the tender, which will be forfeited if the party decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

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

By order,
E. F. E. ROY,
Secretary.
Department of Public Works,
Ottawa, March 2nd, 1894.

NOTICE TO BUILDERS

Tenders will be received for the erection and completion of a

BRICK METHODIST CHURCH

in the Village of New Lowell, up to MONDAY, APRIL THE 2ND, 1894.

Plans and specifications can be seen at the residence of N. M. Squire, New Lowell, or at the office of the Architects, Messrs. Thos. Kennedy & Co., Barrie. Tenders to be addressed to N. M. Squire, New Lowell, Ont.

The lowest or any tender not necessarily accepted.

N. M. SQUIRE, Sec'y.
New Lowell, March 19, 1894.

CONTRACTS OPEN.

WOODSTOCK, N. B.—The woollen mills are to be enlarged.

COLLINGWOOD, ONT.—More dwelling houses are required to meet the demand.

TILSONBURG, ONT.—The Baptist congregation will build a new church this summer.

WOODBIDGE, ONT.—Tenders will shortly be called for the erection of a new public school here.

BERLIN, ONT.—Mr. Graybill, of Waterloo is, negotiating for the erection of a large carriage factory here.

KINGSTON, ONT.—Mr. Arthur Ellis, architect, is inviting tenders for erecting a brick detached house for Mr. T. Hewitt.

THURSO, QUE.—The Catholic congregation will take immediate steps to rebuild their church recently destroyed by fire.

KNOWLTON, QUE.—The Methodists will in all probability erect a new church.—A new iron bridge in the lower village is projected.

AYLMER, QUE.—A by-law will shortly be submitted to the ratepayers authorizing the construction of water works and sewerage systems.

PERTH, ONT.—Mr. James Spalding has had plans prepared for a two-story brick dwelling to be erected on Craig street this summer.

NICOLET, QUE.—The ratepayers will vote on a by-law on the 28th inst. to grant the sum of \$16,000 to the Episcopal corporation for repairs to the cathedral.

INGERSOLL, ONT.—Debentures will be issued to the amount of \$20,000 for the erection of a new Collegiate Institute.—The curlers of this place propose erecting a new rink.

GANANOQUE, ONT.—Preparations are being made for the erection of H. Wilson's new warehouse and Jos. Megg's residence, and in a short time the West End store will be rebuilt.

WINDSOR, ONT.—St. Andrew's Presbyterian church congregation has decided to put in a new \$3,000 pipe organ. The enlarging of the church will not be carried out until next year.

SHERBROOKE, Que.—Messrs. Holt &

Lukes will receive tenders until the 10th of April for the grading and other works required in the building of 50 miles of the Tring-Megantic branch of the Quebec Central Railway.

PORTAGE LA PRAIRIE, MAN.—A bill has been introduced in the Manitoba Legislature authorizing the town authorities to issue \$25,000 of debentures for the erection of a new court house at Portage la Prairie, and also \$500 for the erection of an addition to the jail.

GALT, ONT.—Plans are being prepared for a new school building to be built on the lot adjoining the present school.—Plans will be completed and contracts awarded in a few days for the power house for the Galt and Preston Street Railway to be built at Preston.

STE. HYACINTHE, QUE.—It has been decided to enlarge the church building, at a cost of \$14,000. The church is under the control of the Dominion Order.—Two bridges over the Yamaska river at this place have been condemned and are to be replaced by iron structures.

VICTORIA, B. C.—The City Council is considering the question of operating its own electric light plant, and a by-law will be submitted to the ratepayers authorizing the Council to issue debentures to the amount of \$50,000 to cover the cost of erecting buildings and purchasing the necessary machinery and apparatus.

CHATHAM, ONT.—The Town Engineer has been instructed to report on the construction of a sewerage system for the town.—In our issue of last week, we mentioned the fact that Mr. Rutley was preparing plans for the proposed new Standard Bank Building in this town. As will be seen by an advertisement in this issue, the architect is Mr. D. B. Dick, of Toronto.

BROCKVILLE, ONT.—The plans for the proposed International bridge across the St. Lawrence river from Brockville to Morrisstown, N. Y., have been approved of by the United States Secretary of State and will shortly be submitted to the authorities at Ottawa. It is expected that work on the carsons for the bridge will be commenced about the end of May. The bridge will be 5,064 feet in length from shore to shore, will be 150 feet above high water mark and will be built on the cantilever principle.

HAMILTON, ONT.—At a meeting of East Hamilton ratepayers held last week, it was decided to petition the Barton Council to form a new school section and erect a school in that neighborhood.—Tenders are invited by the City Clerk until to-day, Thursday, for the erection of a fever cottage on the city hospital grounds.—Building permits have been granted as follows. John T. Smith, two story brick dwelling on Duke street, between Hess and Caroline streets, cost \$1,000; Thomas Stow, two two story brick dwellings on Crooks street, cost \$1,800.

MONTREAL, QUE.—Jas. Nelson, archi-

tect, is calling for tenders for a residence on Upper Stanley street for Mr. Jas. A. Gillespie, to be built of pressed brick and sandstone.—Robt. Findlay, architect, is preparing plans for three houses on Metcalf ave. for Mr. J. A. Sheffield; also calling for tenders for a residence on Mountain ave., Cote St. Antoine, for Mr. Jas. Osborne.—The Building Inspector is preparing plans for the extension of the butchers' and poultry portion of Bonsecours market.—The Harbor Commissioners have extended the time for the reception of tenders for coal, steel rails and general supplies until Tuesday, the 27th inst.—The Water Committee will probably recommend the purchase of a new engine for the high level pumping station.—A new furnace will be placed in the city hall, to cost \$300.

WINNIPEG, MAN.—It is currently reported that the Canadian Pacific Railway Company will build a large block on the corner of Main street, opposite the post office, to include an opera house and a new office for the Free Press.—Extensive improvements will be made this spring to the Manitoba Medical College, at a cost of \$5,000. It is proposed to add another story to the present structure and put in a stone foundation.—At a recent meeting of the Board of Knox church, it was decided to place a stone foundation under the building, the cost not to exceed \$5,000.—Mr. West has applied to the City Council for permission to erect a brick and stone warehouse at the foot of Lombard street.—Messrs. Hughes & Horn contemplate making improvements to their building on Bannatyne street.—The congregation of Westminster church has decided to place stained glass windows in the building at a cost of \$400.

LONDON, ONT.—The trustees of the Centennial Methodist church have decided to enlarge the school room.—Mr. John M. Moore, Engineer and Superintendent of Waterworks, invites tenders until Monday, the 29th inst. for the following supplies and work required for the year 1894: Cast iron pipe, laying pipe, lead pipe, brass work, hydrants, valves, iron castings, stop cock boxes, hardware, coal, lumber, oils and bookbinding.—A brick residence is to be erected on Craig street for Mrs. James Burns, to cost \$3,000.—Building permits have been granted by the City Engineer as follows: John Mortimer, Waterloo street, brick veneer cottage on north side of Grey street, between Waterloo and Colborne streets, cost \$1,200; Patrick Walsh, residence at 431 Piccadilly street, cost \$1,100.—Tenders are also invited by the Waterworks Superintendent until the 27th inst. for alterations and additions to the steam pumping machinery at Springbank.—At a recent meeting of the congregation of Chalmers church it was decided to procure plans for the erection of galleries and other necessary alterations and improvements to the interior of the church.

OTTAWA, ONT.—Tenders are invited by Mr. Wm J. Campbell, until Thursday, the 29th inst., for the supply of oils, lead pipe, brasswork, hydrants, valves, cast iron pipe, castings, and fire alarm supplies required by the Department for the current year. The Dominion estimates for the year ending 30th June, 1895, have been presented to Parliament. The following are the appropriations for public buildings in Ontario: Toronto drill hall, \$15,000; Smith's Falls post office, custom house, etc., \$16,000; Picton post office, custom house, etc., \$10,000; Dominion public buildings, renewals, improvements, repairs, etc., \$25,000. For Ontario harbors and rivers the following amounts are granted: Kingston harbor, \$6,000; Port Hope, repairs to piers, \$2,500; river Ottawa, improvement of steamboat channel through Narrows at Petawawa above Pembroke, \$4,000; Southampton, repairs to breakwater and landing piers, \$1,000; Thornbury, \$2,500; Hamilton harbor, dredging, \$6,000; Port Albert, dredging and extension of piers, \$10,000; Goderich harbor, piers and repairs, \$33,000; Port Rowan wharf, \$5,300; Owen Sound harbor, dredging, \$5,000; Belleville harbor,

\$3,000; Cobourg, repairs to breakwaters, \$1,000; Dyer's Bay, wharf extension, \$3,500; general repairs, harbor, river and bridge works, \$5,000. The amounts to be voted for the construction of canals are as follows: Soulanges, \$750,000; Cornwall, \$450,000; Rapide Plat, \$100,000; Galops, \$150,000; Sault Ste. Marie, \$200,000; Lachine, \$115,000; Lake St. Louis, \$125,000; Trent, \$73,000.

TORONTO, ONT.—The plans submitted to the City Engineer by the G. T. R. for the proposed John street bridge to be erected in conjunction with the new Union Station, have been approved of. The bridge will be constructed of iron, and will have six spans, two of which will be 140 feet, and the remainder 100 feet. The roadway will be 30 feet wide, with a six foot sidewalk on each side. The specifications for the York street bridge have also been handed to the City Engineer by the C. P. R.—The sum of \$3,300 has been subscribed towards the erection of the proposed Women's residence in connection with Toronto University.—The Cobban Mfg. Company have again written to the Property Committee asking consideration of their application for a lease of block "C" on the Esplanade, between Bay and York streets, as a site for their proposed new factory.—A deputation from Burk's Falls, consisting of Mr. E. O. Taylor, reeve, and nine others, recently interviewed the Ontario Government urging the granting of financial assistance towards building a railway one and a quarter miles long from Burk's Falls to the head of Navigation on Magnetawan river. The Government promised consideration.—A deputation from the University Senate last week waited on the Ontario Government urging the granting of some assistance towards the new buildings for the chemistry department.—Mr. W. B. Malcolm is contemplating the erection of a blast furnace and has applied to the Public Library Board for a lease of a lot on Lombard street adjoining the library as a site for the same.—In response to a request for a report regarding the cost of chemical purification of the city sewage, the City Engineer has reported that it could only be done after the construction of a trunk sewer. The cost of treatment would be \$63,000 yearly, and the first cost of the land, tanks pumps, and appliances would be \$325,000, to which would be added the cost of constructing the necessary trunk sewers to reach the precipitating tanks. With regard to the widening of the Queen street subway to the north street line, the Engineer has reported that the cost would be \$45,000, which would provide for the extension of the girders. In conjunction with the extension of Dufferin street, the combined work would cost \$150,000. At the last meeting of the Board of Works, it was decided to request the City Engineer to report on the widening of the subway to the full width of Queen street.—Mr. W. P. Atkinson, Acting Chairman Parks and Gardens Committee, invites tenders until Thursday the 29th inst. for the purchase and removal of a brick and stone building situated on the north side of Broadview avenue in Riverdale Park.

Tenders are invited until Thursday, the 29th inst., for the erection of an addition to St. Francis separate school on Manning avenue. Plans may be seen at the office of Messrs. Post & Holmes, architects, Manning Arcade, and tenders are to be addressed to the Chairman of the Sites and Building Committee, 28 Duke street.—Tenders are invited by Mr. Edmund Wragge, local manager Grand Trunk Railway, until noon on the 28th inst. for the grading, concrete, asphalt, and stone kerbing required in the construction of platforms at the Union Station. Plans may be seen at the office of Messrs. Strickland & Symons, architects, 18 Toronto street.—The Toronto Lacrosse and Athletic Association have decided on the reconstruction of the bicycle track at Rosedale, and tenders for supplying and teaming about 2000 yards of clean earth are now being invited by Mr. H. Crewe, Civil Engineer, Canada

Life Building.—It is reported that plans have been prepared and will shortly be considered for a building to serve as a winter garden at the Horticultural Gardens.—Messrs. Post & Holmes, architects are about to award contracts for a R. C. Church at Oshawa, Ont., to cost \$15,000. They are also preparing plans for a church at Toronto Gore, near Kleinburg, Ont.—A building permit has been granted to Geo. Pears, 15 Grosvenor street, alterations and additions to warehouses, 36-38 Front st. w., cost \$20,000.

FIRES.

The residence of Mr. LeVique, at South Edmonton, Man., was destroyed by fire on Friday of last week.—John C. Hanley's dwelling at Read, Ont., was burned on the 17th inst.—Chisholm and McKenzie's general store at Morris, Man., was totally destroyed by fire last week.—W. A. Matthew's tinsmith shop at North Augusta, Ont., was burned to the ground on the 14th inst. Loss, \$2,000; no insurance.—A large green house at O'Connell's conservatories, Guelph, Ont., was destroyed by fire recently. Loss, \$1,000; no insurance. Barrett's large frame flour mill at Port Hope, Ont., was completely destroyed by fire a few days ago. Insurance \$7,000.—Mr. Deacon's hotel at Hawkeston, Ont., was burned on Monday last; loss, \$1,000; insurance, \$500.—A three-story brick block on King street, Bowmanville, Ont., owned by Messrs. T. G. & J. J. Mason, was almost completely destroyed by fire on Tuesday last. The loss is covered by insurance.

CONTRACTS AWARDED.

AURORA, ONT.—The contract for the erection of the electric light station and power house has been awarded to Mr. Walter Machel.

HULL, QUE.—Messrs. Richard & Black have been given the contract for the erection of the E. B. Eddy Co's new pail factory at this place.

ARNPRIOR, ONT.—The contract for the erection of the Methodist church in this town has been awarded to Mr. B. V. Stafford, at the price of \$8,332.

CONSTANCE, ONT.—Messrs. Cuff & Bennett, of Seaforth, have been awarded the contract for the erection of the new Presbyterian church in this village.

GALT, ONT.—The contract for engines, boilers, etc., for the Galt and Preston Street Railway, has been awarded to Messrs. Goldie & McCulloch, of this town, at the price of \$6,000.

WINNIPEG, MAN.—The Building Committee of the Wesley College have accepted the following tenders for the erection of the new buildings: masonry, J. G. McCallum, of Calgary, who will use Calgary sand stone; carpenter work, J. C. Gilker; tinsmithing and slating, John Wallace; painting and glazing, James A. Payne; plumbing, Messrs. McPherson & McMullen. The aggregate of the tenders was a little over \$60,000, exclusive of heating. The joint architects are Messrs. George Browne and S. Frank Peters.

LONDON, ONT.—The contract for the supply of the new pumps for the water works has been awarded to the London Machine Tool Co., and the Geo. Blake Manufacturing Co., of Boston, Mass., for the sum of \$17,616. The engines are to have a capacity of 4,000,000 imperial gallons in 24 hours, and to give a duty of 110,000,000 foot pounds of work for each 1,000,000 heat units consumed. The two new boilers will be furnished by Messrs. E. Leonard & Sons, and will cost \$2,325. Each of the boilers will be 72 inches in diameter and 15 feet long, with 122 three inch tubes.

MONTREAL, QUE.—The following tenders were received by the Road Committee for the paving of Notre Dame street: Asphalt per square yard—Sicilian Asphalt Company, \$3.93; F. D. Lawrence, \$4.05; Bastien & Valiquette, \$3.99; hauling and laying new York flags—Sicilian Company, 23 cents; F. D. Lawrence, 18 cents;

Bastien & Valiquette, 24 cents; hauling and laying blocks at intersections of streets—Sicilian Company, \$1.79; F. D. Lawrence, \$1.20; Bastien & Valiquette, 1.90; hauling and laying scoria blocks from Beaudry to Amherst street—Sicilian Company, \$1.79; F. D. Lawrence, 1.85; Bastien & Valiquette, 1.90. The contract for the whole work has been awarded to the Sicilian Asphalt Company, at the prices above quoted.

Myette & St. Aubin, plumbers, Montreal, have dissolved partnership.

Mr. W. H. Radenhurst, town clerk of Perth, died in that town on the 11th inst.

Konkle & Gelejan, of Hamilton, trading as the Hamilton Lumber Company, have dissolved partnership. The business will be conducted under the old name, with Oscar E. Konkle as sole proprietor.

J. M. SHANLY,
M. AM. SOC. C. E.
M. CAN. SOC. C. E.

J. M. MCCARTHY,
B. A. S. C.
A. M. CAN. SOC. C. E.

SHANLY & MCCARTHY,
CIVIL ENGINEERS.
STANDARD BUILDING - MONTREAL.
Bridges, Waterworks, Sewerage, Railways, &c.

WILLIS CHIPMAN, B. A. Sc.,

M. Can. Soc. C. E.; M. Am. Soc. C. E.;
M. Am. W. W. Ass'n.

CIVIL AND SANITARY ENGINEER

Water Works - Sewerage
Sewage Disposal

103 BAY STREET - TORONTO.

J. McDOUGALL, C. E.,
ENGINEER COUNTY OF YORK,
Consulting Engineer for Municipal Work.

Electric Railways and Bridges.

COURT HOUSE, - TORONTO.

JOHN GALT

C. E. AND M. E., M. CAN. SOC. C. E.,
Consulting Engineer.

20 Years' Practical Experience in England, United States and Canada in Civil, Sanitary, Hydraulic, and Mechanical Engineering.

SPECIALTIES:
WATERWORKS, SEWERAGE, ELECTRIC RAILWAYS.

Office: Rooms 99 and 100,
CANADA LIFE BUILDING, - TORONTO.

ALAN MACDOUGALL

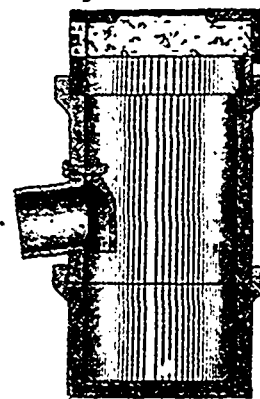
M. Can. Soc. C. E. M. Inst. C. E.

Telephone 1838. Cable Address: M. I. C. E.

CONSULTING CIVIL, SANITARY AND HYDRAULIC ENGINEER

32 East Adelaide St. - TORONTO

THE "IMPROVED"
ST. GEORGE GULLEY
OR STREET DRAINING WELL.



PATENTED 1885
AND 1893.

Made of cast iron
and
vitrified tile.

OVER 1000 NOW
IN USE.

Not ONE com-
plaint.

For further par-
ticulars, apply

LEWIS SKAIFE, Manager
707 New York Life Bldg. - MONTREAL.

MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

E. D. MORRIS

Direct Importer and Dealer in
Best English and Canadian
PORTLAND CEMENTS

Vitrified, Paving and Fire Bricks,
Fire Clay, &c.

Offices: 36 Victoria St. - TORONTO

13,540 BARRELS

of our Thorold Cement were used in the construction of the Sault Ste. Marie Canal. W. G. Thompson, Esq., Chief Engineer. Messrs. Hugh Ryan & Co., Contractors.

MY TESTS

of the Thorold Hydraulic Cement have extended over a period of twenty-eight years, and I have been afforded abundant evidence of the reliability of this cement, both in masonry and concrete above and under water.—W. G. THOMPSON, Esq., engineer in charge of the new Welland Canal and Sault Ste. Marie Canal.

Estate of John Battle - Thorold, Ont.

DEBENTURES WANTED.

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

ISAAC USHER & SON,
THOROLD, ONT.

Manufacturers of

QUEENSTON CEMENT

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

Municipal Officers, Contractors and others are requested to mention the CONTRACT RECORD when corresponding with advertisers.

Fire Bricks and Cement

DRAIN AND WATER PIPES

SANITARY EARTHENWARE

LONDON PORTLAND CEMENT

GUARANTEED GENUINE.

Paving and Scoria Bricks for Stables, Sidewalks, Yards, etc.

Large quantities on hand and to arrive. We handle only the best quality. Prices lower than ever

F. HYDE & CO.

31 Wellington Street, - MONTREAL,

Sole Agents for

THE "GRAHTRYX" SMOKE TEST AND DISINFECTING MACHINE.

Drummond McCall Pipe Foundry Company,

MONTREAL

MANUFACTURERS OF

CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE.

PRICES ON APPLICATION.

Ontario Water Meter Co., Ltd.

MANUFACTURERS OF

WATER METERS

Meter Supports, Dial Extensions, Fixture Locks, Water Cart Registers, Strainers, Coupling Seals and Reservoir Indicators.

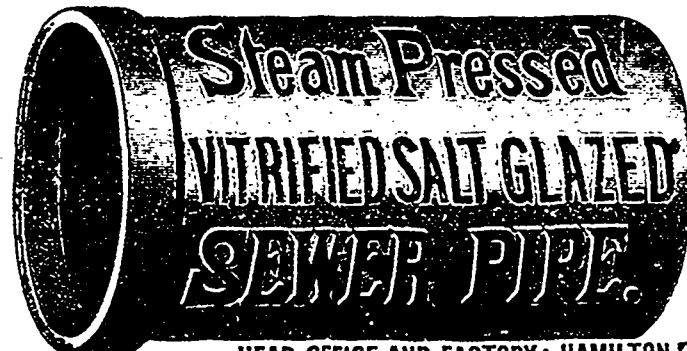
Send for Price Lists and Testimonials. Highly endorsed by leading Engineers. All information furnished on application to

OFFICE: 23 TORONTO STREET, TORONTO.

A. C. WINTON, Secretary-Treas.

HAMILTON AND TORONTO SEWER PIPE CO.

- FOR -



SEWERS,
CULVERTS,
AND
WATER PIPES.
INVERTS
Fire Brick Sewers

Write for Discounts.

HEAD OFFICE AND FACTORY: HAMILTON, CANADA.

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.

CANADIAN MINERAL WOOL CO., Limited, 122 Bay Street, Toronto.

Montreal Agent:

GEO. A. COWAN, Room 23, 204 St. James St.

GEO. R. THOMPSON & CO.,

Agents, Winnipeg, Man.

PORTLAND CEMENT

BEST AND CHEAPEST IN TORONTO.

JOSSON, PETERS and BURHAM Brands for highest class work.

WHITE HORSE, R. W., IMPERIAL, &c., FROM \$2.00 PER BARREL.

Nichols, Smythe & Co., - 25 George St., Toronto.
CEMENT CONTRACTORS TO THE CITY OF TORONTO.
Telephone 1948 or call and see us.

CANADA PIPE AND FOUNDRY CO.

MANUFACTURERS OF

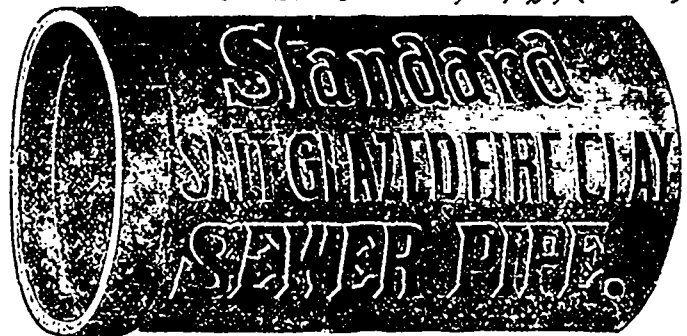
. Cast Iron Pipes and Special Castings

Works: MONTREAL AND ST. HENRI, QUE.

CORRESPONDENCE SOLICITED.

THE STANDARD DRAIN PIPE CO.

OF ST. JOHNS, P. Q., (LIM.)



Manufacturers of

Salt-Glazed,
Vitrified

SEWER PIPES

Double Strength
Railway Culvert Pipes,
Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS.

STEVENS & BURNS

London, Ont.

To Municipal Corporations and Contractors:

... WE MANUFACTURE ...

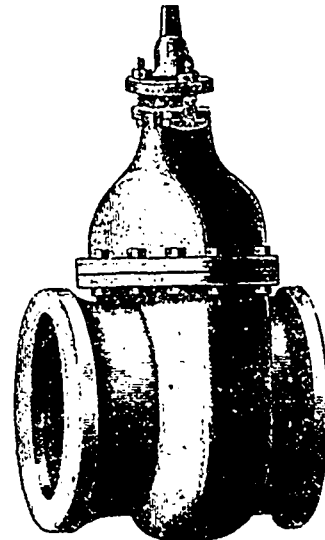
Hydrants, Valves, Valve Boxes

and Water Works Supplies generally,

INCLUDING

Tools for tapping mains under pressure

and Service Brass Work of all descriptions.



TORONTO FURNACE & CREMATORY CO., LTD.

8 & 10 Queen St. East, TORONTO.

Telephone 1907.

Sole Agents and Manufacturers in Canada of the

— ENGLE —

GARBAGE AND REFUSE CREMATORIES

.. FOR ..

Towns, Cities, Summer Resorts, Hospitals, etc.

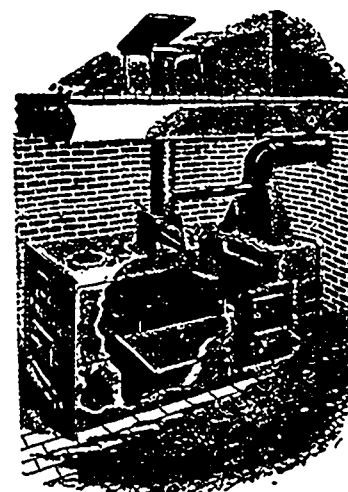
Acknowledged the most complete, sanitary and economical method of destroying night soil garbage, dead animals and all deleterious matter.

THE ENGLE FIRE CLOSET

A perfect substitute for open privies and earth closets. Sizes suitable to Dwellings, Stores, Factories, Schools and Hotels.

As sanitary and convenient as any other water closet.

Write for catalogue containing fullest information.



THE G. & J. BROWN MFG. CO.

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.

D. BAER & CO.
BUILDERS OF THE
... Bear Patent ...
**COMBINATION - BRIDGE
DOON, ONT.**
All communications promptly answered.

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:
MORAE & CO., OTTAWA

Prices of Building Materials.
CONDITION OF THE MARKET.
Trade in builders' supplies is assuming an
aspect of brightness. The prospects for the lum-
ber business are said to be fairly good. The
feature of the cement market has been the sale of
5,000 casks of English brand for shipment during
the coming season. A fair local demand is
also reported. Business in paints and oils is
somewhat brisk and is gradually improving, as
is also the case with plumbers' supplies. A fair
amount of business is reported in fire bricks, at
\$18.00 to \$22.50 per thousand. Hardware and
window glass are quiet, with no special feature
to announce.

LUMBER.
CAR OR CARCO LOTS.

Toronto. Montreal.

1 1/2 to 2 clear picks. Am ins...	33 00	35 00	40 00	45 00
1 1/2 to 2 three uppers, Am ins.	37 00	40 00	45 00	50 00
1/2 to 2, pickings, Am ins.	25 00	27 00	30 00	35 00
1 inch clear	52 50	60 00		
3 x 10 and 12 dressing and 1 better	20 00	22 00	18 00	20 00
1 x 10 and 12 mill run	16 00	17 00	14 00	16 00
1 x 10 and 12 dressing	20 00	22 00	18 00	20 00
1 x 10 and 12 common	11 00	12 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 culls	9 00	10 00	9 00	10 00
1 inch clear and picks	28 00	32 00	33 00	35 00
1 inch dressing and better	22 00	22 00	18 00	20 00
1 inch siding, mill run	14 00	15 00	14 00	16 00
1 inch siding, common	12 00	13 00	12 00	14 00
1 inch siding, ship culls	11 00	12 00	10 00	11 00
1 inch siding, mill culls	9 00	10 00	8 00	9 00
Cull scantling	8 00	9 00	8 00	9 00
1 1/2 and thicker cutting up plank	24 00	26 00	22 00	25 00
1 inch strips, 4 in to 8 in. mill run	14 00	15 00	12 00	13 00
1 inch strips, common	11 00	12 00	10 00	11 00
1 1/2 inch flooring	16 00	17 00	14 00	15 00
1 3/4 inch flooring	16 00	17 00	14 00	15 00
XXX shingles, sawt, per M	2 00	2 00	2 00	2 00
XX shingles, sawt, per M	1 50	1 50	1 50	1 70
Lath	2 40			

VALID QUOTATIONS.

Mill cull boards and scantling	10 00	10 00
Shipping cull boards, prom- iscuous widths	13 00	13 00
Shipping cull boards, stock	16 00	16 00
Hemlock scantling and joist up to 6 ft	11 00	12 00
Hemlock scantling and joist up to 8 ft	12 00	13 00
Hemlock scantling and joist up to 10 ft	13 00	14 00
Cedar for block paving, per cord	5 00	5 00
Cedar for Kerbing, 4 x 14, per M	14 00	14 00

Toronto. Montreal.

Scantling and joist, up to 16 ft	14 00	14 00
" " " " 8 ft	15 00	15 00
" " " " 2 ft	16 00	16 00
" " " " 17 ft	17 00	17 00
" " " " 24 ft	19 00	19 00
" " " " 16 ft	21 00	21 00
" " " " 26 ft	23 00	23 00
" " " " 18 ft	24 00	24 00
" " " " 32 ft	27 00	27 00
" " " " 4 ft	29 50	29 50
" " " " 36 ft	31 00	31 00
" " " " 33 ft	33 00	33 00
" " " " 44 ft	34 00	34 00
Cutting up planks, 1 1/2 in thicker, dry	25 00	28 00
Cutting up planks, 1 1/2 in thicker, board	18 00	24 00
1 1/2 in. flooring, dressed, F M	26 00	30 00
1 1/2 inch flooring, rough, F M	18 00	22 00
1 1/2 " " " " " " " "	28 00	30 00
1 1/2 " " " " " " " "	19 00	19 00
1 1/2 " " " " " " " "	18 00	22 00
1 1/2 " " " " " " " "	12 00	15 00
1 1/2 " " " " " " " "	35 00	35 00
Clapboarding, dressed	12 00	12 00
XXX sawn shingles, per M	2 60	2 70
18 in.	2 50	2 60
Sawnlath	2 50	2 60
Cedar	2 90	2 90
Red oak	30 00	40 00
White	37 00	45 00
Basswood, No. 1 and 2	38 00	40 00
Cherry, No. 1 and 2	70 00	80 00
White ash, No. 1 and 2	40 00	35 00
Black ash, No. 1 and 2	30 00	18 00
Dressing stocks	16 00	22 00
Picks, American inspection	30 00	40 00
Three uppers, Am. inspection	50 00	50 00
BRICK - M		
Common Walling	7 10	6 00
Good Facing	9 00	8 50
Sewer	8 50	8 50
Pressed Brick, Per M:		
Plain brick, f. o. b. at Milton	16 00	
" " " " and quality	14 00	
" " " " 3rd	8 00	
Hard Building	4 50	
Moulded and Ornamental, per 100	3 00	10 00
Roof Tiles	24 00	
Diamond locking tile	16 00	
First quality, f. o. b. at Camp- bellville	18 00	25 00
and 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	18 00	
" " " " and quality	13 00	
" " " " 3rd	10 00	
Hard Building	8 00	
Ornamental, per 100	3 00	10 00
1st quality, f. o. b. at Port Credit	14 00	18 00
and	12 00	15 00
rd	8 00	12 00
Hard building brick	0 50	
Ornamental, per 100	1 00	10 00
SAND.		
Per Load of 1 1/2 Cubic Yards	1 25	1 25
STONE.		
Common Rubble, per ton, toise, delivered	14 00	14 00
Large flat Rubble, per ton, 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	
Balochmyle	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 Gatelawbridge, cu. ft		75 80
Credit Valley Rubble, per car of 15 tons, at quarry	8 00	
Credit Valley Brown Cours- ing, up to 10 inch, per sup- yard, at quarry	1 75	
Credit Valley Brown Dimen- sion, per cu. ft. at quarry	60	
Credit Valley Grey Coursing, per superficial yard	1 50	2 00
Credit Valley Grey Dimen- sion, per cubic foot	75	80
Madoc Rubble, deliv ed, per toise	14 00	14 50
Madoc dimension floating f. o. b. Toronto, per cubic ft.	30	
Ohio Freestone, No. 1 Blue Promiscuous, f. o. b.	60	
No. 1 Blue Dimension	65	
No. 1 Buff Promiscuous	60	
No. 1 Buff Dimension	55	
The above prices means freight and duty paid.		
2 in sawed flagging per sq ft	11	
2 1/2 " " " "	13 1/2	
3 " " " "	16 1/2	
4 " " " "	22	
5 " " " "	27 1/2	
6 " " " "	33	
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. 5 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 50	20 00
" purple	9 00	10 00
" unlading green	8 50	6 00
" black	8 00	7 50

Toronto. Montreal.

Terra Cotta Tile, per sq...	28 00	
Ornamental Black Slate Roof- ing	8 00	
PAINTS. (In oil, 1/2 B.)		
White lead, Can., per 100 lbs.	6 25	6 50
zinc, Can., " "	6 50	7 50
Red lead, Eng.	5 75	6 75
venetian, per 100 lbs.	1 60	1 75
vermillion	90	1 00
Indian, Eng.	10	12
Yellow ochre	5	10
Yellow chrome	15	20
Green, chrome	7	12
Paris	2	40
Black lamp	15	25
Blue, ultramarine	15	20
Oil, linseed, raw, & Imp. S. I.	65	68
boiled	68	71
" refined	78	85
Putty	2 1/2	2 1/2
Whiting, dry, per 100 lbs.	75	1 00
Paris white, Eng., dry	90	1 25
Litharge, Am.	6 1/2	8
Sienna, burnt	15	20
Umber, "	8 1/2	12
CEMENT, LIME, etc.		
Cement, Portland, per bbl.	2 50	
" English	2 75	2 05
" Belgium	3 25	1 50
" Thorold	1 50	
" Queenston	1 50	
" Napanee	1 50	
" Hull	1 50	
" Gemar	2 65	2 85
" London	2 45	2 90
" Newcastle	2 35	2 50
" Belgian	2 31	2 40
" Canadian	2 25	2 30
" Roman	2 75	
" Parian	4 10	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	17 50	22 00
Scotch	24 00	30 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

Toronto. Montreal.

rod, 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 5d cold cut, not polished or blued, per 100 lbs.	90	90
VINE 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
rod, " "	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.		
3/4 inch, per 100 lbs.	85	85
2 1/2 to 2 3/4 " " "	1 00	1 00
2 to 2 1/2 " " "	1 15	1 15
1 1/2 to 1 3/4 " " "	1 35	1 35
1 1/4 " " "	1 75	1 75
1 " " "	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
3/8 " " "	2 25	2 25
CLINCH NAILS.		
1/2 and 3/4 inch, per 100 lbs.	85	85
2 and 2 1/2 " " "	1 00	1 00
1 1/2 and 1 3/4 " " "	1 15	1 15
1 1/4 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.		
3/4 inch, per 100 lbs.	1 35	1 35
2 1/2 and 2 3/4 " " "	1 50	1 50
2 and 2 1/2 " " "	1 65	1 65
1 1/2 and 1 3/4 " " "	1 85	1 85
1 1/4 " " "	2 50	2 50
1 " " "	3 00	3 00
Structural Iron:		
Steel, cam, per 100 lbs.	2 75	2 50
" channels, " "	2 85	2 60
" angles, " "	2 50	2 30
" tees, " "	2 80	2 65
" plates, " "	2 55	2 35
Sheared steel bridge plate	2 25	2 35

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

Architects.	Cements.	Grates and Tiles.	Roofing Materials.
Ontario Directory... III	Bremner, Alex. iv	Bostwick, G. F. II	Merchant & Co. ii
Quebec Directory ... II	Currie & Co. W & F P. ... xii	Holbrook & McIlhenny ... II	Metallic Roofing Co. ... vii
Architectural Sculptors and Carvers.	Estate of John Battle iv	Rice Lewis & Son ... IV	Warren Chemical & Mfg. Co. ii
Carnovsky, B. H. IV	McNally & Co., Wm. ii	Hydraulic Engines	Roofers
Holbrook & Molling- ton ... i	Maguire Br. s. i	Guest & C. xii	Douglas Bros. II
Wagner, Zeidler & Co. IV	Morris, E. D. vi	Heating.	Duthie & Sons, G. II
Architectural Iron- Work.	Church Reflectors	Gurney Foundry Co. xii	Hutson, W. D. II
B. Greening Wire Co. IV	Frink, I. P. ix	King & Son, Warden. xi	Metallic Roofing Co. vii
Dominion Ornamental Iron Co. vi	Contractors' Plant and Machinery	Miller Bros. & Tomas. xii	Rennie & Son, K. II
Dominion Bridge Co. I			