## 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.									
1 1	loured covers/ uverture de co	uleur							ed pages/ le couleur				
1 1	vers damaged/ uverture endo	nmagée					1/1	_	lamaged/ ndommagé	es			
1 1	vers restored a uverture restau					]	1	•	estored and estaurées e				
1 1	ver title missin titre de couve	_	ie				/	•	liscoloured lécolorées,				
1 1	loured maps/ rtes géographic	ques en cou	leur					_	letached/ létachées				
	loured ink (i.e.						1/1	Showth Transp	nrough/ arence				
1 1	loured plates a inches et/ou ill						. /	•	of print v inégale de		sion		
1 / 1	und with othe lié avec d'autro		ts				1		uous pagina ion contin				
alo La	ght binding ma ong interior ma reliure serrée (	rgin/ peut causer	de l'ombre					Compr	es index(es) end un (de n header ta	s) index	n: /		
	itorsion le long ank leaves adde			av appear					e de l'en-tê		=		
with	thin the text. The comments of	Whenever p m filming/	ossible, thes	se have			1	•	age of issue titre de la		า		
lor ma	es d'une restaur ais, lorsque cela s été filmées.	ration appar	aissent dans	le texte,				•	n of issue/ e départ de	e la livrais	son		
pu.								Masthe Généri	ad/ que (périoc	d (saupit	e la livrais	son	
	lditional comm inmentaires su		res:										
	n is filmed at tl ment est filmë												
10X	<del> </del>	14X		18X	·	22 X		<del> </del>	26×	· · · · · ·		30 ×	
	12 X		16X		20 X			24X		25	3x		<u> </u>

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

Vol. 5.

## AUGUST 9, 1894

No. 27

## 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.

New York Life Insurance Building, Montreal, Bell Telephone 2299.

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

Advertising Rates on application.

At its Convention held in Toronto, Nov. 90 and 21, 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 Province of Quebec Association of Architects, held in Noutreal, 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 LIECUND affords us a direct communication with the Contractors,—Resolved, that we pledge our support to it by using its columns when calling for Tenders."

## **Notice to Contractors**

## CANADIAN CONTRACTOR'S HAND-BOOK

A new and thoroughly revised edition of the Canadian Contractor's 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

Price, 51.50; to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address

C. H. MORTIMER, Publisher,
Confederation Life Building, TORONTO. Branch Office New York Life Building, Montreal

### 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 of more subsequent insertions a discount of 10 per cent, will be allowed. Not more than four insertions of an advenisement can be granted.

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

FOR SALE—Wood and glass partition, 9 feet high, 18½ feet long, including door 3×3 feet. Pine, natural finish, ground glass in panels. In use little more than a year. Cost over \$50, will be sold at a sacrifice. Box 50, CONTRACT

## **TENDERS**

for the Plumber work, Cas work and Drainage of Woodstock Hospital will be received until AUGUST 14TH

at the office of Alex. White, architect, where plans and specifications may be seen.

A. WHITE, Architect, Woodstock, Ont.

## TENDERS

Tenders will be received up to 5 p.m. on WEDNES-DAY, the 15th inst., for the whole of the various trades required in the erection of

## A STORE AND OFFICE BUILDING

at 144 Yonge Street, for Benjamin Kent, Esq.
Contractors will be required to furnish evidence as to
their ability financially and otherwise to carry out the

various works.

The lowest or any tender not necessarily accepted.

Plans and specifications may be seen and all particulars obtained at the offices of the undersigned

City & County Loan Building, Architect. 32 Queen St. E., Toronto.

## TENDERS WANTED

ucluding poles and wires, lamps, etc., etc. And for erecting a Power House on the water power owned by the Town of Trenton, to be owned and operated by the municipality.

Also a tender for lighting the Town of Trenton, the tender to state price separately, and to furnish their own plans and specifications.

Further information can be obtained from the undersigned. The lowest or any tender not necessarily accented.

GEO. CROWE, Chairman Fire, Market and Police Committee.

Trenton, 25th July, 1894.

## NEW COMPANIES.

NIAGARA FALLS, ONT. - Niagara Falls Company, incorporated, capital

Soo,000.

WEYMOUTH BRIDGE, N. S.—Sissibon Falls Pulp Company, seeking incorporation; capital, \$30.000; applicants, W. E. Palfrey, of Lawrencetown, F. M. Steadman, of Weymouth Bridge and others.

BRIDGEWATER, N. S.—E. D. Davison & Sons, Limited inco:porated, capital stock, \$250,000, to carry on a general lumber business; incorporators, C. H. Davison, E. D. Davison, A. F. Struthers and P. Dollwer. and R. Dolliver.

### BUSINESS NOTES.

N. Peladeau and A. Pilon, contracting masons, Montreal, have dissolved partner-

John Mills, builder, Hamilton, Ont., has assigned to S. C. Newburn.

E. A. Manny & Co., founders, Beauharnois and Montreal, have assigned.

It is reported that Stevens & Burns, brass founders and machinists, London, Ont., have assigned.

### CONTRACTS OPEN.

BEETON, ONI .- Tenders are being received for the new town hall.

NEW GLASGOW, N. S .- Sewerage debentures will be issued to the amount of \$8,000.

BELLEVILLE, ONT.—The Emmanuel Reformed Episcopal church is to be en-·larged.

BROCKVILLE, ONT .- The House of Refuge to be erected here will cost about \$16,000.

DUNDAS, ONT -The Council has decided to raise the sum of \$3,500 to repair bridges.

NORTON, N. B - The Roman Catholic congregation of this place are preparing to erect a new church.

NEW MARKET, ONT .- Tenders are invited by the Town Council for lighting the streets with electricity.

HALIFAN, N. S.—W. L. Brown, City Treasurer invites tenders until the 28th inst. for a loan of \$28,000 for sewerage purposes.

VICTORIA, B. C.—Several companies are figuring on the rebuilding of the C. P. R. bridges in this province swept away by the recent floods.

AYLMER, QUE.—The cost of the proposed waterworks system is estimated at The ratepayers will be asked to sanction the expenditure.

CALGARY, N. W. T.—The Hudson Bay

Company will erect a new brick block on the site of their present building. Work will be commenced at once.

YARMOUTH, N. S.-H. H. Mott, architect, of St. John, N. B., is preparing plans and will call for tenders in a few days for a new Baptist church to be erected in this

VANCOUVER, B. C.—The Canadian Pacific Railway Company is about to commence the crection of a new brick block on the corner of Granville and Dunsmuir streets.

ARNPRIOR, ONT.—A. J. Campbell will rebuild his stables and sheds recently destroyed by fire. Substantial stone buildings will be erected, the roof of which will be covered with iron.

COLLINGWOOD, ONT .- It is said to be the intention of a company, of which Mi. W. S. Taylor, of the Don Valley Pressed Brick Works, Toronto, is at the head, to erect a saw mill at Jardines side read.

Brantford, Ont.—Mr. White, Chief Architect of the Militia Department, Ottawa, has decided that certain alterations be made to the drill shed, at a cost The work will be carried out of \$3,000. T immediately.

OWEN SOUND, ONT .- At a meeting of the stockholders of the Owen Sound Portland Cement Co., to be held on the 11th inst., the question of rebuilding the company's works at Shallow Lake will be

PETERBORO', ONT .- The primary survey of the Lakefield Peterborough section

of the Trent Valley canal has been completed. Plans are now being propared and as soon as these are completed the location survey will be made.

NIAGARA FALLS, ONT. - The by-law authorizing the Council to raise the sum of \$88,000 for the construction of a sewerage system was voted on by the rate ayers on Monday last and was defeated by a majority of eight votes.

GALT, ONT - It is reported that the projectors of the Galt and Preston electric railway have definitely decided upon the extension of their line to Hespeler. It is also said that the construction of a new line from Berlin to Preston is under consideration.

HULL, QUI... Mr. Viau, who has been granted a franchise for an electric railway through the streets of this town, will conmence the erection of the power house at once. It will be situated on the north of the Ottawa river near Tetreauville. A dam will also be constructed.

HAMILTON, ONL. W. A. Edwards, architect has prepared plans and is recening tenders for a brick warehouse in this city.
-- The Imperial Oil Company will build a barrelling station on the west side of the McKechnie property in the north-eastern part of the city.—Tenders for the erection of the proposed House of Refuge will be received by H. R. Barber, architect, until the 13th inst.

LONDON, ONT.—John Wilkey will erect a brick cottage on Queber street, at a cost of \$1,100.—Moore & Henry, architects, are inviting tenders until 5 p. m. to-day (Thursday for the altering and re-fitting of brickwork of boilers and steam fittings of heating apparatus at the City Hospital. Contractors are figuring on al terations to buildings on the Western Langrounds.— George Hammett has been granted a building permut for a brick cottage on Hewitt street, to cost \$1,000.

MONIREAL, QUE.-The French Chamber of Commerce has decided to erect a new building, at a cost of over \$100,000 The new structure will be built on the same plan as the Board of Trade building recently completed, with the exception that the basement and first floor will be fitted up for stores. The upper flats will be used as offices, halls, and telegraph and telephone departments. The lorance Commutee has made a stant of \$5,000 to the water Commutee for the parchase of water meters. Messrs Perrault & Lesage architects, are calling for tenders this week for all trades required in the election of four stores and dwellings on Notre Dame st. west for Mr. Jos. Versailles. Building permits have been granted as follows: Jas. Poustie, three story stone front residence on Peel street, cost \$7,000; Barbeau & Pounier, three storey stone front tenement building on Esplanade rront tenement building on Espianade avenue, cost \$6,000; L. Barre, three storey brick tenement building on St. Martin street, cost \$2,000; J. B. Durocher, two three storey stone front stores and dwellings on Notre Dame street, cost \$5,000; L. Langhag, and L. Banfark, three Langhog and J. Banfork, three

storey stone and brick front stores and dwellings on St. Catherine street, cost \$1,300.

OTTAWA, ONT.—It is expected work will shortly be commenced on the new Maternity Institute. The building is to be 40 by 56 feet and will contain four public and three private wards. The cost will be about \$6,000.—The department of Public Works for the Dominion will shortly call for tenders for the construction of a new steel dredge for salt water service. The appropriation for the vessel is \$40,000. The 'tull is to be built entirely of steel .--D. Ewart has been granted a building permit for a brick veneered residence on Besserei street, to cost \$1,800.- P. Baskerville has purchased the row of brick houses on Augusta street, near Rideau Street, and will make extensive repairs.— J. H. Bilderson, Secretary Department of Railways and Canals, will receive tenders until the 4th of September for the deepenmg of the canal prism between locks Nos. 3 and 5. Plans may be seen at the above department in this city and at the Superintendent Engineer's office in Montreal.-Tenders for hot water heating apparatus at the Lethbridge, Alta., public building, will be received by E. F. E. Roy, Secretary Public Works Department, until the 29th inst. Plans at Dominion Public Works office, Winnipeg and at Clerk of Works office, Lethbridge Works office, Lethbridge.

TORONTO, ONT. - The City Council has given notice of its intention to construct an asphalt pavement on Adelaide street, from Yonge street to Church street, at a cost of \$14,800.—The Warren Schaffe Asphalt Paving Co. contemplate the erection of a large factory in this city, and have applied to the Council for the lease of a site on the Don flats.-An effort is being made to by members of the City Council to have a breakwater constructed along the south shore of the Island. The Dominion Government agreed to protect the Island and improve the eastern gap on condition that the city paid \$100,ooo towards the cost. The city has paid the money, and the Government is to be asked to proceed with the work. — An agreement has been reached between Hon. Mr. Harty, Commissioner of Public Works, and Park Commissioner Chambers relative to the grading and improving of the portion of Queen's Park which surrounds the Parliament buildings, and an effort will be made to have the work done this fall. The improvements will cost the city about \$5,000 and the Government between \$7,000 and \$8,000.-The Toronto Street Railway Company are preparing the site for their car sheds on he corner of Roncesvalle avenue and Queen street.

### FIRES.

The outbuildings of the Canadian Oil Company at Sarma, Ont., were consumed by five recently. The loss will reach \$17,000. The residence of Charles Beith was also destroyed. A brick block at Tweed, Ont., owned by Adam McGowan, was destroyed by me last week. Loss \$4,000, covered by insurance. Latour's hotel and the residences of R. Leck and S. Monette, at Gatineau Point, Ont., were burned a few days ago. Loss, \$5,000; no insurance. The residence of Prof. Harris at Bathurst, N. B., has been destroyed by fire. Insurance \$3,000 - W. Harrs & Co's pork factory on Pape Ave., Toronto, was destroyed by fire in Friday of last week. Loss, \$5,000; insurance small, —W. B. Kelly's saw mill at Bridgenorth. Ont., six miles north of Peterboro, was burned to the ground on the 2nd inst. Loss on mill, \$5,000; insurance, \$3,000. —Manning 5 grist mill at Balmoral, Man., was destroyed by fire on Monday last. Loss \$9,000: insurance, \$5,000.— Mitclaren's saw mill at Macleod N. W. T., was burned on the 9th inst. Lost \$2,000. Fire at Alton, Ont., on the 5th inst., de-stroyed Boggs & Rowcliffe's carriage works, Samuel Barber's residence, Dr. Algie's outbuildings and Barber & Bro.'s carriage shop. The loss will be about \$\$,000.— D. W. Grant & Co's, carriage

works, at Woodstock, N. B., was consumed by fire recently. Loss \$20,000; insurance, \$7,100.—A large portion of the village of Harrow, Ont., was destroyed by fire on Saturday last. Some of the burned buildings are: A. E. Sinasec's flour mill, the residence of J. S. Wright, Jos. Quick, G. Eorin, C. Bott, J. Smith and J. Drummand, P. R. Rumble's hardware store and residence and J. Stocker's grocery store. The loss will reached \$40,000.

#### CONTRACTS AWARDED.

EDGINGTON, ONT.—The contract for a Presbyterian church at this place has been let to Logan & Crockford, of Parry Sound.

OTTAWA, ONT.—The contract for section 11 of the Soulanges canal which was awarded to Thos. Feeney, has been transferred to W. J. Poupre & Co.

BROCKVILLE, ONT.—The Keith & Fitzsimmons Co., of Toronto, have been awarded the heating and plumbing contract at the new asylum. Fifteen boilers will be required.

DARTMOUTH, N. S.—Herbert E. Gates, architect, has let the contracts for the following work: Manse for St. James church, in this town; school house at Woodside, G. Gates, contractor residence for James Simmonds, Dartmouth, J. T. Walker, contractor.

WINNIPEG, MAN.—The school Board received the following tenders for some stone foundations and other improvements to the Carlton street and No. 1 Central schools: Rourke & Cass. Carlton street school, stone foundation, \$4.400: entras including brickwork, shiplap and raising, \$3.400: Central school No. 1, stone foundation. \$4.500: entras, \$2.100; C. W. Sharpe & Co., South Central School, foundation, \$3,570: entras, \$4.600, including raising, \$1.300: nine-inch brick and shiplap, \$2,600; concrete floor, \$700: Central School No. 1, \$4,500 for stone foundation; \$3,400 for brick work, shiplap and concrete floor; Daniel D. Wood, South Central, stone foundation, \$3,285: if the school be raised three feet higher, \$4,785. Central No. 1, stone foundation, \$3765. The tender of D. D. Wood has been accepted for the South Central school.

TORONTO, ONT .- A sub-committee of the Board of Works awarned contracts as follows on Saturday last: asphalt pave-ment on Cecil street, from Spadina ave. to Beverley street, Warren Scharffe Co. \$9,657; on Wellesley street, from Sherbourne to Parliament streets, Warren Scharffe Co., \$11,835; concrete sidewalks
—Wellesley street, south side, from
Church to Jarvis street, walk, per lineal
foot, \$1.05, re setting stone kerbing per
from lineal foot 28c; Carlton st, south side,
Sharbourne to Fariament streets, warren Sherbourne to Seaton, same puces, both to T. J. Whittard. Separate tenders were asked for an asphalt or scoria block pavement on McCaul street, and should the work be proceeded with the contract will be given to the Warren Scharffe Co., at the following figures: scoria blocks, in-cluding laying, \$3.25 per square yard; gravel under ties, and concrete, \$1.15 per cubic yard; concrete to include every-thing, \$5,20 per cubic yard; maintenance of pavement for additional five years, \$1 per square yard; 21 inch asphalt surface without concrete base, \$1.48 per square yard. The contract for the iron work of the new John Street bridge has been awarded to the Dominion Bridge Company, of Montreil. - The Parks and Gardens Committee have accepted the follow ing tenders for the construction of a con-servatory in the Horticultural Gardens: Masonry and concrete, William Hall, 5796; carpenter's work, Thomas McIlwain, \$910, painting and glazing, J. Berridge, \$673, galvanized iron work, A. J. McIntyre, \$119; heating J. & G. Gray, \$610

MONTREAL, QUE.—Messrs. Perrault & Lesage, architects, have awarded contracts for two three-storey stone front stores and dwellings and for a bank building for the Hochelaga bank as follows: masonly and excavation, H. Dufort; brickwork, Gagnon & Brosseau. Same architects have also awarded the following

contracts: steel work of two 3 storey stores and dwellings for E. Marcil to A. Lorgnon, carpenter and joiners' work of three storey stone front store and dwelling for D. Gallery, to John O'Leary; for two three storey stone front buildings for C. A. Briggs, roofing, G. W. Reed; plastering, E. Morache.—Mr. Robert plastering, E. Morache.—Mr. Robert Findlay, architect, has awarded contracts for a residence and stable to be erected on Mause st., for Mr. John Allan as follows: masonry, Heggie & Stuart; brickwork, W. McArthur & Son; carpenters and joiners' work, Joseph Lambert & Fils; roofing, Campbell & Co.; plumbing and heating, Geo. R. Woodburn; plastering, Hirsch Bros.; painting, A. Craig.—Mr. J. J. Browne, architect, has awarded contracts for a three storey stone school building to be erected at Valleyfield, Que., as follows: masonry and brickwork, John C. Hague; carpenter and joiners' work. Hugh G. Reid: painting, McAfee & Eaton, roofing, Geo. W. Reed. M. W. McLea Walbank, architect has awarded contracts as follows for the restoration of a store front on Notre Dame street, occupied by J. Palmer & Son: carpenter and joiners work, stone, brick, iron work, prismatic lights, plastering and marble work, Beckham & Scott; painting, plate and bevelled glass, W. P. Scott.

#### BIDS.

WOODSTOCK, ONT.—The following are the tenders received for the Hospital building: Thos. McClay, \$8,977; A. J. Brown, Hamilton, \$9,235; John B. McKay, \$9,535; Clarkson Bros., \$9,600; Griffith and McIntosh, \$9,735; Murray & Sons, \$10,185; C. Leader, \$13,000.

#### STONE WORKING IN ATHENS.

A writer in one of the London architectural papers, in discussing the above subject, says: It appears that the Athenians worked the marble to an even, but not very smooth, face with a toothed chisel before they placed the blocks in the work, and that they afterwards went over the whole exposed surface and finished it to the greatest smoothness and nicety, but without polish, taking off in this operation about one-fifth of an inch; and this has been the practice on the horizontal as well as the upright surfaces, for the columns of the Propylea are sunk in to about that depth below the general level. The place intended for their reception was sunk before the lower cylinders were placed, and lest any inconvenience should arise from the wet remaining there before the building was completed, a small channel has been cut from the recess to carry off In the steps the adjoining faces are carefully finished at the internal angles, but both are left rough at the external angles, by which means the accidents and wear which take place during the execution of the work would rarely be of any consequence.

#### SAFE SCAFFOLDING.

For the benefit of those contractors who carry on business in places where there are no regular scaffolding contractors, as we have in our larger cities, the Southern Architect suggests that they make decks only at stated intervals, using packed putlogs and allowing the putlogs to extend into the building through windows, where it is possible, and through the walls themselves, where there are no windows, and securely fasten them to a row of inner and outer scaffold poles, the putlog holes to be plugged up as the scaffold is taken down; lay a sound deck on these putlogs, and by use of portable three-legged bucks, say five feet high, set on these decks, you can build story on story of platforms, placing bucks, one on top of the other, until the next row of put-logs is reached. This would make the adjusting of scaffolds both quick and easy, and would also greatly climinate the danger of the present system. The idea of using pulleys for openings in buildings, and using a portable platform that can be raised or lowered at will in painting, etc., has already been put into use with success

and comparatively no danger. The main points of danger seem to come from the following. Flimsy poles, insecurely put together, putlogs having very little purchase in the walls, being badly attached to the poles, and often containing flaws.

## MUNICIPAL DEPARTMENT.

## EXAMINATION QUESTIONS FOR HEALTH INSPECTORS.

An examination for inspector of nuisances was held at Norwich, Eng., on July 6 and 7, when 18 candidates presented themselves. The following were the questions:

1. What procedure should be taken to obtain an inspection of premises to which permission to enter has been refused?

2. Give a short description of the business of a fat-melter, particularly mentioning the methods to be adopted to prevent the occurrence of nuisance.

the occurrence of nuisance.

3. What are the chief human diseases communicated by milk? In what circumstances does milk become infected? What precautions would you recommend to be carried out in any case of suspicion?

4. How would you take a sample of air from a sewer with the object of having it analysed? What conditions are liable to render brick sewers dangerous to the lives of those who enter them?

5. Give a short descriptive account of the proper sanitary construction of a stable for three horses.

6. What are the methods of disinfection you would recommend in a sparsely populated rural district of large area—(a) for rooms, (b) for clothing? Have fresh air and sunlight any germicidal properties?

7. Sketch the following traps, showing the water level when at rest. State the advantages and disadvantages of each kind: D trap, bell trap, P trap, S trap, Mason's trap.

8. Describe the proper method of constructing drains with stoneware pipes, and state the points to which you would give special attention in laying. Illustrate your answer by sketches.

9. Give the pressure per square inch at the bottom, and at 20 ft. from the bottom, on a water-pipe 35 ft. in length fixed vertically.

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

# DEBENTURES WANTED.

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

# TESTS OF OUR Thorold CENENT

Show it is the best Hydraulic Cement for Abutments and Piers for Bridges, Concrete for Foundations, Cisterns, Cement Drain Pipe, Floors for Cellars and Stables, Sewers, and all Mason Work in moist or wet places.

## 10,000 BARRELS

of Thorold Cement were used in the construction of the Great St. Clair Tunnel. Joseph Hobson, Esq., Grand Trunk Railway, chief engineer, Wm. Gibson. Esq., M. P., contractor.

ESTATE OF JOHN BATTLE,
Thorold, Ontario.

Send for a copy of the second edition of the Canadian Contractor's Hand-Book. Price, \$1.50; to subscribers, \$1.

## MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

J. M. SHANLY

M. CAN. SOC. C. R. SI. AM. SOC. C. R.

CIVII, ENGINEER.

STANDARD BUILDING - MONTREAL

Surveys, Plans, Estimates, &c., for Water Works,

Sewerage, Water power projects, Bridges, Railways, &c.

CONSTRUCTION SUPERISTENDED.

## WILLIS CHIPMAN, B. A. Sc., M. Can. Soc. C. E.; M. Am. Soc. C. E.; M. Am. W. W. Asin.

CIVIL AND SANITARY ENGINEER Newage 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, canitary, Hydraulic, and Mechanical Engineering.

SPECIALTIES: WATERW RES, SEWERAGE, ELECTRIC RAILWAYS

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

## ALAN MAGDOUGALL

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

## CONSULTING CIVIL, SANITARY AND HYDRAULIG ENGINEER

32 East Adelaide St. TORONTO

NOTE.-Mr. Alan Macdougall is NOT the engineer for the County of York.

## JOHN D. EVANS, O.L.S.

MEM. CAN. SOC. C. F. LAND SURVEYOR Civil Engineer : Architect

Special attention given to Consulting and Municipal Work.

GRASS' BLOCK, FRONT ST., TRENTON, ONT

## B. D. MORRIS

Direct Importer and Dealer in

Best English and Canadian

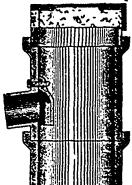
## PORTLAND CEMENTS

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

Offices: 36 Victoria St. - TORONTO

## THE "IMPROVED"

## **GEORGE GULLEY** OR STREET DRAINING WELL.



PATENTED 1885 AND 1893.

Made of cast iron ..and.. vitrified tile.

OVER 6,000 NOW . . IN USE .

Not ONE complaint.

For further paruculars, apply

LEWIS SKAIFE, Manager MONTREAL. New York Life Building

# Drummond McCall Pipe Foundry

MONTREAL

## AND GAS PIPES

Works: Lachine, Que.

PRICES ON APPLICATION.



– FOR – SEWERS,

CULVERTS. AND

WATER PIPES. INVERTS

Fire Brick Sewers

Write for Discount .

HEAD OFFICE AND FACTORY: HAMILTON, CANADA.

MINERAL WOOL

Should see to it that in the erection of town and city PUBLIC BUILD.
INGS, the installation of water works plant, etc., the advantages of . . .



are made use of for dead-ning 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 St., TORONTO. Montreal Agent: LEWIS SKAIFE

UNICIPAL

707 NEW YORK LIFE BUILDING

## 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. Price, lower than ever.

# F. HYDE & CO. Wellington Street, - MONTREAL,

31 Wellington Street, - MONTREAL
Sole Agents for
THE "GRAHTRYX" SMOKE TEST AND DISINFECTING MACHINE.

## Artificial . . **Granite Stone** .. Pavements

STREETS, SIDEWALKS, BASEMENT FLOORS, LTC.

The attention of municipalities and others interested is called to the excellence of this material.

. GRAHAM Sole Proprietor and Patentee

226 Picadilly St., - LONDON, ONT.

THE STRONGEST, LIGHTEST, FASTEST AND MOST DURABLE



# King of Scorchers Helical Premier

Pneumatic Cycles from \$60 upwards All Wheels from \$75 up, fully guaranteed

## CEO. F. BOSTWICK

24 WEST FRONT ST. - TORONTO E. C. HILL, Magr. Cycle Department.

## ORTLAN EMENT

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.

A. E. S. Smythe & Co., ~ 25 George St., Toronto. Telephone 1948 or call and see us.

#### MACHINE CO. AMERICAN ROAD



CHAMPION ROAD MACHINES CHAMPION ROCK CRUSHER CHAMPION STEEL ROAD ROLLER

Catalogues Free. Correspondence Solicited Address: 124 York St., - HAMILTON, ONT.

## ANADA PIPE AND FOUNDRY CO....

MANUFACTURERS OF

# Sast Iron Pipes and Special Castings

Works: MONTREAL AND ST. HENRI, QUE. CORRESPONDENCE SOLICITED.

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



Manufacturers of

Salt-Glazed Vitrified

Double Strength Railway Cul-vert Pipes, Inverts, Vents,

## & J. BROWN MFG. CO.

Railway and Contractors' Plant.

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. F veting done by hydraulic or compressed air machives. Specialties: Good workmanship and strict adherence to specifications and drawings.

CAPACITY: 2,000 TONS PER ANNUM.

# D. BAER & GO.

... Bear Patent ...

## COMBINATION - BRIDGE DOON, ONT.

All communications promptly answered.

Prices of Building Materials.

CONDITION OF THE MARKET.

With the country trade the demand for builders supplies is keeping up fairly well, but there has been no marked improvement in the city trade. General hardware is moving freely, the demand being mostly for shelf goods. A moderate jobbing improvement is reported in lead pupe and galvanized iron. Iron pipe is quiet and prices remain unchanged. The arrivals of cement in Montreal for last week were 2,000 harrels of Belgian. The total receipts at that port for the season up to date are 36,750 barrels of English and 15,025 Belgian, as against 68,800 and 15,075 barrels last year. Business in that line is very limited. The price of glass is unsatisfactory, and cutting is being practiced. We

is unsatisfactory	and c	utting	is b	eing p	ractice	d. We
dnote \$1.30 to \$		UMB)				
		R CARO				
					<b>u</b>	two ol
			OLC	min.		treal.
1 1 to 2 clear pick	ks. Am	ins3	3 00(	\$ (x26.00	\$	_ <b>Ş</b> ×@45 ∞
i ⅓ to ≈ three up	pers, Ar	m ins.	,	37 00	4000	
t to 2, picking	s, Ami	ns		26 တ	27 C	30 ∞
r inch clear	dressins	and			52 50	60 50
t better	1	2	000	35 00	18 ∞	
1 x 10 and 13 die	ssing		000	17 00 22 00		19 00 18 00
IX to and 12 con	nmon	1	3 ∞	14 00	8 oc	
i x to and 12 sp	ruce cu		0 00 00	11 00	10 00	
1 x 10 and 12 cull 1 inch clear and 1	icks	2	5 oc	32 20	33 ∞	9 ∞
t inch dressing a t inch siding, ini					18 ∞	20 00
inch siding, cor	mmon	1	200	130)		
i inch siding, shi	p culis.	1	100	1200	1000	11 00
inch siding, mil	u cuiis.	•••••	200	10 00 9 00	8 oc	
t% and thicker	cuttin	Z up				900
Cull scantling  134 and thicker plank  1 inch strips, 4 in	106		00	26 ∞	33 OC	5. ∞
100		3 <b>4</b>	∞	15 ∞	14 (0	15 05
i inch strips, com	mor .		co	120)	11 00	12 00
inch flooring. inch flooring. XXX shingles, so	••••	16	02	17 CO 17 OO	14 (0	
XXX shingles, s	awr, pe	er M	••	., 05	., .,	
16 in				3 (0	2 60	
Lath	· · · · · · · ·	2	10	1 60	1 63	1 70
	YALD	OHOTA		NS.		
Mill cull boards a Shipping cull in	nd scar	itling		10 00		10 00
uniscuous winir	15			13 00		13 00
Shipping cull be	ards, s	tocks		16 ∞		16 ∞
Hemlock scantlin	ag and	. 11	00	12 00		10 00
up to 16 ft Hemlock scantlin	ng and	joist				
Hemlock scantli	ne and	10:42	w	3 ∞	15 00	3 (0
up to 20 ft Cedar for block		13	00	14 00	13 00	14 CO
cond	paving	, per			-	
cord Cedar for Kerb	ing, 4	X 14,		5 00		5 ∞
per M				14 00		14 ∞
occurring and jo	up ti	3 8 4		14 00 15 00		14 CO 25 CO
••	**	20.11		16 (0		600
Scantling and join	st, up t	0 22 ft 24 ft		17 00		17 00
4. 44	4.	:6 ft		19 00		10 o
••	**	26 ft		53.70		23 (C
41	44	30 ft		74 00 27 00		25 00 27 00
41	••	54 ft		22.50		20.50
11		36 ft 38 ft		31 0)		31 00
<b></b>						:3 00 36 0
Cutting up plant thicker, dry Cutting up plant thicker board	KS, 1½	and	^^	-0		
Cutting up plant	(5, 1%	and	w	25 OC	25 00	26 ∞
thicker, board	•••••	31	လ	24 >-	1\$ 00	22 00
z 1/2 in . flooring, dr	essed.	в. м. F М. 26	တ	10.00	28.00	
x 1/2 in flooring, dr x 1/2 inch flooring, dr x 1/2 inch flooring, und x 1/2 in dr x 1/2 in undr	rough,	B M. 18	00	33 CC	18 00	33 00
ıxı " dı ıxı " undr	essed.	F M.25 B M.18	00	28 30 19 03	27 00 18 00	30 00
z¼a " dre	ssed	R	~	20 05	18 ∞	19 OC
Eleaded sheeting	dearen.	12		25 ~	15 00	1500
Clapboarding, drex XXX sawn shing	ssed		w	35 ∞ 12 ∞	33 <b>0</b> 0	35 00 12 00
XXX sawn shing	gles, pe	er M	۷.			
18 in Sawn lath			60 50	270	2 **	3 co 3 60
				2 90	2 50	2 00
Red oak White	• • • • • •	30	<u>∞</u>	40 OC	30 ∞	40 00
Rasswood, No. 1 a	and 2	28	<b>∞</b>	45 00 30 00	35 ∞ 18 ∞	45 00 20 00
White	2	70	00	92 oc	70 00	80 00

When all Married	Toront				
White ash, No. 1 and 2 Black ash, No. 1 and 2 Dressing stocks Picks, American inspection Three uppers, Am. inspect	16 00	31 00 30 00 22 00 30 01 50 01	30 00 18 00 16 00	35 00 30 00 22 00 40 00 50 00	Ce
Common Walling	••	6 .0 8 ou		6 ∞ 8 50	
Pressed Brick, Per Red, No. 1, f.o.b. Beamsvi	M:	16 0 14 0	8 50	9∞	Ke Ca Fii
t) Ar 3	• •	9 0: 21 00 24 00 30 00			Lir Pla
Brown Roman Red Buff Brown Sewer Hard Huilding Roof Tiles	••	35 00 40 00 7 50 6 0			Ha Cu
Hip Tile(eac Ridge Tile	h)	23 ON 20 60			Ste 40d
Red "A" f. o. b. Don Valle Red "B" " " " " Red "C" " " " " Trojan and Corinthian		18 00 16 00 18 00		25 00 20 00 17 00 28 00	30d
Athenian and Egyptian Tyrian Sicilian	•	22 00 25 00 35 00 40 00		29 00 31 00 41 00 45 00	8d, 6d, 4d ( 3d, 2d,
Carthaginian. Ornamental.	30 00 10	35 00 40 00 10 00		40 00	4d ( o: 3d (
rst quality, f.o.b. at Port Cr and """ ard """ Hard building brick		4 00 2 00 8 00 6 50		18 00 15 00 12 00	3d, 2d,
Ornamental, per 100  SAN Per Load o 11/2 Cubic Yard	D.	1 21		I 25	22d 12d
STO. Common Rubble, per toise delivered		4 ( 0		14 00	8d a 6d a 4d t 3d,
delivered  Foundation Blocks, per c ft Kent Freestone Quarries Moncton, N. B., per cu		5 oc	;	18 ∞ 50	3 2½ 2 to
River John, N. S., brown	)	t 00 95			: X
Ballochmyle  New York Blue Stone  Granite (Stanstead) Ashlar, e in, to 12 in, rise 9 in, per ft	)	90	65	75 1 05 25 80	5d, 1 4d, 3d, 2d,
Moat Freestone	7	3 ∞	70 75	80 80	
yard, at quarry		75	,	•	_
sion, per cu. ft. at quarry Credit Valley Grey Coursing, per superficial yard Credit Valley Grey Dimen- sion, per cubic foot MadocRubhle, delive ed, per	150 2	60 100		2 15	Onta Que
Madoc Rubble, delive ed, per toise	14 30 1	60 4 50 :	14∞ 1	75 4 50	Arc tor Holk
Ohio Freestone, No. 1 Blue Promiscuous, f.o.b. No. 1 Blue Dimension No. 1 Buff Promiscuous	. 10	50 65 80			Wag Co Arc
No. 1 Blue Dimension No. 1 Buff Promiscuous No. 1 Buff Dimension The above prices means freight and duty paid. 2 In. sawed flagging perso.ft		85			B. G Denr W Dom
2 in. sawed flagging persq.ft 2 iii iii iii 3 iii ii ii ii 4 iii ii ii 5 ii ii ii ii 6 ii ii ii ii Duisto ba addad a abaa		13½ 16½ 22 27½			Dom: Mead Ships
prices.  Ouebec and Vermont rough		33			Whit A Knec
granite for building pur- poses, per c.ft. f.o.b. quarry For ornamental work, cu. ft. Granite paying blocks, 8 in. to	33 1 35 2				Bran Bean
Granite curbing stone, 6 in.x 20 in., per lineal foot		∞ 70			Morr Port Bri
Rocting (* square).  red purple	16	00	10	000	Taylo Bui Brem
untading green black Terra Cotta Tile, per sq Omamental Black Slate Roof-	22			5 00 7 50	Curri Clatv Magu Morr
PAINTS. (1) White lead, Can., per 100 lbs.	m oil. 22			i 25	Rice Rowe Toros Voke
White lead, Can., per 100 lbs.  "zinc, Can., " "  Red lead, Eng. "venetian, per 100 lbs "vermillion "lodian, Eng.	400 5 160 1 90 1	75 60	2 60 ; 90 ;	6 75 00	B: Carro
Yellow ochre	\$ 15 7	10 20 12	10 4 15 7	15 50 6 15	Rice Toros
venetian, per 100 lbs vermillion Indian, Eng. Yellow ochre Yellow chrome Green, chrome Paris. Black lamp. Blue, ultramarine Oil, linseed, raw, # Imp. s.l. boiled refined, Putty	15 15 14 57	25 26 20 59 63	20 12 •2 63 66	70 25 18 65 68	Voke: Cr Cabor
refined, Putty Whiting, dry, per 200 lbs Paris white, Eng., dry Litharge, Eng Sicana, burnt	78 23/4 75 1 90 1	85 85 85 85 85	75 21/4 60 00 1	75 232 75 75	McR. Chia
• • • • • • • • • • • • • • • • • • • •	9%	'7	61/5	\$ 15 15,	Can. Fur Globe Office
CEMENT, L. Cement, Portland, per bbl German. London Newcastle	2 24 3 3 3 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	75	245 2	50 85 90	Penni Snide Ch Frink
	- •		-, 2	3*	e sonk

· <del></del>							
Toron	to. Montre	al.			T	oronto.	Montrea
Cement, Belgian, per bbl	230 20 :	2 57		COMMO	N BARREL	NAILS.	
" Canadian " 20 a			nch, per 16	o lbs		1 50	1 50
o Koman		2 75 3%	4. 44	**		1 75	79
Farian 450 4		4 75 %	11 11	**		2 25	3 2
n superine o to s		7 00		CLI	NCH NAI		•
			:	nch, per ic			
Succession,	. 0	¥.	and :14	icii, pei te	, ius.	35 1 00	89
a Hull o '		2 a	nd 2½	** **	**	1 15	1 00
Keene's Coarse "Whites" 4 to 4	75 450 4	75 1%	and i 1/4	**	44	1 35	1 15 1 35
Calcined plaster, per barrel.	1 44 1	70 14	•-	•	**	2 00	2 00
Fire Bricks, Newcastle, per M 23 00 3	0 00 17 (0 2	1 00		•	**	2 50	2 50
" Scotch " 23 00 6	000 400 30	CO	SH	ARP AND P	LAT PRE	SSED NAILS	
Lime, Fer Barrel, Grev	.0						
" White	<b>5</b> ·	314	and 11/4"	nch, per o	0 105.	1 35	1 35
Plaster, Calcined, N. H	1 0%	2 31	id 21/4			1 50	1 50 1 6 <u>8</u>
	<b>?</b> •>		aid 1 4	**	**	1 65 1 83	: 85
Hair, Plasterers', per bag 8,	1 30	17		44 41	**	2 50	2 50
HARDWARE.		1			**	3 00	3 40
0 . 11. 10.41	3 40 3	25		STERI	WIRE S	-	•
		35 S	teel Wire	Nails. 7	t. 10 ar	d C du	count from
CUT NAILS, FENCE AND CUT	SPIKES.	prir	ted lise.	,	<b>J</b> ,		
40d, hot cut, per 10 lbs	5	5		Ire	on Pipe	e :	
30d, " " "	1	10 1101	pipe. ¾ i	inch, per fo		6c.	
20d, 16d and 12d, hot cut, per			3	11 11		7	
100 lbs	15	15	1/2			634	
tod, ho: cut, per too lbs	20	20 .,	, XX			12	
8d, 9d, 11 11 11 6d, 7d, 11 11 11	25	25	. 1			17	
od, 7d,	40 60	60 "	- " - 1 <u>%</u>		••	21	
4d to 5d, " " " 1			" 11/2			3.)	
		50 Blad	da umanah		i:1/4.	43	•.
4d to 5d cold cut, not polished		Gal	e wrough	r tou bite	, 07 <i>75</i> /4 (	off above pr	ices.
or blued, per too lbs	50	50 Cas	and soil	44	40%	14	44
3d to 5d cold cut, not po ished	•			<b>Y</b>	31/6 2 13/		
or blued, per 100 lbs	90	90			id Pipe	7.5	
FINR BLUED NAILS.		Lea	d p:pe. per	r Ib		7C.	
3d, per 1 o lbs 1	50 t	50 Wat	te pipe, pe	er lb	::::	71/2	æ
2d, "" " 2	0) 3	00 lots	oo and r	oronto an	a the we	et, 30 / ∩	ff in small
CASING AND BOX, FLOORING, SHOOK AT	ND TOBACCO B	ox 35 a	nd 10 , of	T.	011 1015 ,	Minns cast	of Toronto,
12d to 30d, per 100 lbs	50	50		Galvai	vized I	ron:	
10d, " "			m's-Mar	s Best and			
8d and 9d, '' ''		75 6	to 24 gua	ge, per lb.		Sc. A.C.	
6d and 7d, " "			guage.	- 11	4	Kc. 4 Kc. K 5	
4d to 5d, " " 1	10 1	to 28		**	٠ غ	51/2	
3d, " " 1	50 1		ion Crown		· .		
FINISHING NAILS.	_			ge, per lb.	4	k 4%	
inch, per roolbs	85		guage	4.	4	4 4 3/4	
2½ 10 2½ """"	<b>∞</b> 1	∞ √,38				٠ ١	
2 10 2%			е.—Спеар	er grades :	roont A c	per lb. les	is.
173 10 174	35 1	35		Struct	ural Is	·011 :	
***	75 1	75 Stee	Re.me. o	er 100 lbs		2 75	2 50
SLATING NAILS.	25 2:	··	channels,		••	285	260
5d, per 100 lbs	85	85 .:	engles,	•		2 50	2 30
4d. " ":	85		tees,			280	215
30, " " 1	25 1	44	plates,	<b>"</b>	••••	2 55	2 35
		50 Shea	red steel b	ridge plat	e.	2 25	2 35
والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج		_					
TAIL DAY OF				~ *		7.650.00	
INDEX T	() Al	) V F.	$RTT^{G}$	$\sim$ H $\sim$	1 + 1	J.T.C	
						, , ,	
In the "	Canadian	Archit	ect and	d Bullo	ter."		
~							

5d, per 100 lbs	85 85
3d, " "	125
INDF	X TO A
	n the "Canad
Architects. Ontario DirectoryIII Quesec Directory ii	Cements. Bremner, Alex.
Quesec Directory is  Architectural Sculp-	Bremner, Alex Currie&Co,W.&FI Estate of John Bat Maguire Br s Morrie F D
tors and Carrers.	Morris, E. D. Owen Sound Portla Cement Co
Wagner, Zeidler & Co IV	Vokes Hardware C
Architectural Iron- Work.	Contractors' Pand Machine
Architectural Iron- Work. B. Greening Wire Co. xii Dennis Wire & Iron Works	Rice Lewis & Son Rowe, Geo
Dominion Ornamental Iron Co vi	Cut Stone Co tractors. Isaac Bros
Dominion Bridge Co. 1 Meadows, Geo.B ii Shipway Mfg co iv	Oakley & Holmes Chimney Topps
Whitfield, John 1  Art Woodscork.	Bremner, Alex Currie&Co.,W &F.
Knechtel, S vii Wagner, Zeidler & Co. IV	Drain Pine
Bricks (Pressed). Beamsville Pressed Brick Cox	Currie & Co., W&F. Hamilton and Toron
Brick Co x Morris, E. D vi Port Credit Pressed Brick & Terra Cotta	Bremner, Alex Currie & Co., W&F. Hamilton and Toror Sewer Pipe Co Maguire Bros Standard Drain Pi
Co x Taylor Bros x	Co Vokes Hardware Co
	Dumb Waite King & Son, Wards
Clatworthy, Geo ix Magnire Bros i	Electric and (
Morris, E D vi Rice Lewis & Son IV	Electric Wirl
Buttaers' Supplies. Brenner, Alex vii Currie & Co., W & FP. xii Clatworthy, Geo ix Maguire Bros i Morris, E. D vi Rice Lewis & Son IV Rowe, Geo III Toronto Lock Co 1 Vokes Hardware Co vii	Rogers & Doss
Building Stone Dealers. Carroll, Vick & Co vii	Fensom, John Leitch & Turnbull
Ruilders' Hard.	Engravers. Can. Photo-Eng B
reare. Rice Lewis & Son IV Toronto Lock Co i Vokes Hardware Co vii	Fire Brick and
Creosoto Stains Cabot, Samuel IV	Bremner, Alex Currie& Co.W &F P
Ced ir Shingles McRae & Co 11	Bremner, Alex Currie& Co.W & F.P. Magu.re Bros Morris. E. D Standard Drain Pio
	Co Galvanized Ir
Furniture. Bostwick, Geo. F II Can. Office & School Furniture Co ix Globe Furniture Co ix Office Specialty Co III Penningron & Baker. iv	Workers. Tucker & Dillon
Office Specialty Co IX Pennington & Baker ix	Douglas Bros
Pennington & Baker ix Snider, J. B ix Church Reflectors Frink, I. P ix	Grates and Til Bostwick, G. F Holbrook Mollingto
rnnk, I. Fix	Rice Lewis & Son

TO ADV	/ERTISEM
e "Canadian A	rchitect and Bullo
Cements. mner. Alex vii ric&Co,W.&F P xii ate of John Battleviii guine Br s i rris. E. D vi en Sound Portland	Heating.  Clare Bos. & Co xi McClary Mfg. Co xi Gurney Foundry Co xii King & Son, Warden McDougall & Cc., R. xii Toronto Radiator Mfg
es Hardware Co vii	·
ntractors' Plant and Machinery	Lime. Currie & Co, W & F P. xii Morris, E. D vi Legal.
e Lewis & Son IV we, GeoIII Cut Stone Con-	Legal.  Denton & Dods II  Morgan, Godfrey St V II
tractors.  ic Bros	Mantels Bostwick, Geo. F II  Metallio Lath. B. Greening Wire Co. xii
ilmney Topping. mner, Alex vii rie&Co.,W &F.P. xii	B. Greening Wire Co. xii Metallic Roofing Co vii Mortar Colors and
Drain Pipe	Shingle Stains. Cabot Samuel, IV Maguire Bros i
nner, Alex vii rie & Co., W&F.P. xii nilton and Toronto wer Pipe Co xi	Ornamental Plas.
guire Bros i ndard Drain Pipe	Hynes, W J i
o	Paints & Varnishes. Harris Co., The E vi Muirhead, Andrew i  Painters.
lectric and Gas Fixtures well, James IV	Gilmor & Casey 11  Paving. The Guelich Silica
Electric Wiring ers & Doss IV	Barytic Stone Co 1V  Plasterers Hynes, W. J vii
Elevators som, John II ch & Turnbull I	Plumbles Sumulton
Engravers. Photo-Eng Bu-	Barwell, James IV Dominion Sanitary Pottery Co iv Sanitas Mfg. Co II Toronto Steel Clad Bath & Metal Co vit
re Brick and Clay	McKae & Co 11
nner, Alex vii nie& Co. W & F P xxi nu.re Bros i ns. E. D vi ndard Drain Pioe	Plate Glass Harris C., The E vi Hobb. Míg. Co v McCausland & Son ii The Cosso idated Plate Glass Co ii
alcanized Iron Workers.	Parquetry Floors Ellion & Son I
ker & Dillon 1 glas Bros 11	Plumbers Ballantyne, James ii
rates and Tiles. wick, G. F II prook&Mollington i Lewis & Son IV	Itoofing Materials Merchant & Co ii Metallic Roofing Co vii Warren Chemical & Msg. Co

SEMEN 15					
d Bullde	r.''				
ոց.	Roofers				
Co xi Co xi	Douglas Bros I 1				
Co xi	Douglas Bros I 1 Duthie & Sons, G I 1 Hutson, W. D I 1 Metalic Roofing Co vii				
ry Co. xii	Hutson, W. D Ij				
Varden x Cc., R. xii tor Mfg	Rennie & Son, K II				
tor Mfg	Rennie & Son, K. II Stewart, W. T. II Williams & Co., H. II Warren Chemical &				
, iii	Williams & Co., H 11				
e.	Warren Chemical &				
ÆF P. xii	Mfg. Co 11				
	Reproduction of				
il.	Dramina				
s II ey St V II	New Color Process Co. vii				
els	Sanitary Appli-				
. F II	Dominion Sanitary				
_	Pottery Co iv				
<i>Lath.</i> 'ire Co. xii	McRae & Co II				
ire Co. xii g Co vii	Sanitas Mfg. Co II				
	LOTODIO Steel Clad Rath				
ors and	& Metal Co vi;				
tains.	Shingle Stains				
IV	Cabot, Samuel IV				
drew 1	Sliding Blinds				
al Plas-	Lea & Seaman 11				
8.	Stained and Decora.				
vi	tive Glass				
i	Castle & Son v				
rnishes.	Dominion Glass Co v				
e E vi	Drake, W y				
rew i	Cilcon Poor C I				
rs.	Glass Works				
···· II	Stained and Decora- tire Glass Castle & Son				
	Hobbs Mfg. Co v				
Silica	McCausland & Sons, H. v				
: Co 1V	McCausland & Son ii				
	Overnel Shames C.				
ers	Quesnel, Sharpe & Co. v Kamsay & Son, A v				
vii	Longhurs, H v Quesnel, Sharpe & Co. v Ramsay & Son, A v Spence & Son, J. C v				
Supplica					
IV	Temperature Regu-				
nitary	T. ronto Radiator Co. iii				
o iv O II Clad Bath					
Jad Roth	Terra Cotta The Raritan Hollow & Porous Brick Co vi				
vii	Porous Brick Co vi				
11					
lass	Wall Paper and Ceiling Decorations				
e E vi	Ediott & Son 11				
D v					
Son ii	WireManufacturers				
ed Plate	B. Greeting Wire Co. xii				
ii					
Floors	Meadows, Geo. B ii				
I	Works iv Meadows. Geo. B ii Shipway Mfg Co iv				
ers	R'all m-				
mes ii	B'all Plaster Nowell & Co. B. L vi				
terlals_	Wall Tie				
g Co., vii	Mac Machine Co vii				
ical &					
1	Window Blinds				
	Clatworthy, Geo ix				