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A Weekly Journal of Advance Information and Public Works.

Vol. 1.

Toronto and Montreal, Canada, June 7, 1890.

17 No.

THE CANADIAN CONTRACT RECORD,

A Weekly Journal of Advance Information and Public Works.

PUBLISHED EVERY SATURDAY

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.

14 KING ST. WEST, Telephone 2362.

TORONTO, CANADA.

Temple Building,

Montreal.

Bell Telephone 2259.

The purpose of this journal is to supply Contractors, Manufacturers and Dealers throughout Canada, with advance information regarding contracts open to tender, and to furnish Architects, Municipal and other Corporations with a direct medium of communication with Contractors.

Information from any part of the Dominion regarding contracts open to tender will be gratefully received.

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 CON-TRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders.

The publisher of the " Canadian Contract Record" desires to ensure the regular and prompt delivery of this Journal to every subscriber, and requests that any cause of complaint in this particular be reported at once to the office of publication. Subscribers who may change their address should also give prompt notice of same, and in doing so, should give both old and new address,

BRICK PAVEMENTS.

R. OSCAR BRASHEAR, Mayor of Stebenville, Ohio, writes to the Western Architect and Building News as follows concerning the brick pavements of that city and the mode of making them:

In the spring of 1884 this city put down as an experiment one block of pavement made of hard burned firebrick, and after using it three years concluded to adopt it, and to-day our streets are all complete with brick pavement. The first block, now down five years, is to all appearances as good as those just completed. Now I will give you in detail our method of paving First-By all means know that your materials are good. Second -Excavate your street to a depth of twenty inches; put in a good foundation of gravel or broken stone and raise to within ten inches of surface of grade, allowing in this ten inches six inches of sand and four inches depth of brick. After foundation materials have been put in place, you should get a heavy roller, not less than twenty tons. Roll and reroll until made perfectly compact, then put on your sand to depth of six inches, and shape with a broad scraper from centre of elevation to curb line, then lay your brick, and before spreading any sand on them take and roll complete and then spread on sand to close cracks. The pavements are comparatively noiseless, very durable, clean, easy on horses and vehicles, and in this country, where fire-clay is plenty, our pavements cost, complete, \$1.25 per square yard.

The Canadian Contractor's Hand-Book, 50 cents to RECORD subscribers.

REMOVAL OF GREEN DISCOLORATION FROM BRICK-WORK.

An efficient method of removing green discoloration from brickwork is by the use of very weak solution of impure carbolic acid, as weak as 1 per cent., and in some cases, where the growths have just started, a still weaker solution. The mode of applying is about thus . A wineglass full of impure carbolic acid is placed in an ordinary bucket of water and thoroughly mixed before applying with a broom to all the affected surfaces. This then is allowed to remain for some little time, when the whole stoop or surface may be washed with a hose and the growths come off. The rubbing to remove the growth must not be done immediately after applying the solution, as the process going on is that of the solution destroying the growths, and thereby loosening their hold. Thus if the solution is applied a short time before a rain-storm, the rain when it arrives does the most of the after work. But should the solution be applied in the morning, for instance, the hose washing the next morning would be effectual. However, if the growths were very old and of long standing, it may require two or three such applications as the above, but in any case this operation will be found very success-

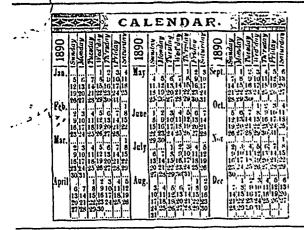
DISCHARGE OF STEAM THROUGH ORIFICES.

While the question of steam discharge through orifices has been ably investigated from a theoretical standpoint, there is a lamentable deficiency of experimental data on the subject. The following table calculated for steam pressures ranging from 10 to 150 pounds per square inch above the atmosphere will, therefore, prove valuable. It has been calculated by means of formula given in a Report on Safety Valves in the Transactions of the Institution of Engineers and Shipbuilders in Scotland, and stated to agree with the results of experiments for pressures not lower than 10 pounds per square inch with a surprising degree of evactness:

VELOCITY OF EFFICEN OF STEAM INTO THE ATMOSPHERE.

Gauge Pressure.	Velocity of Dicharge in Feet per Second,	Pounds of Steam Dis- charged per Minute per Square Inch of Opening.
10	861	22,2
15	867	26.6
20	871	30.9
25	874 .	35 3
30	877	39 5
35	877 880	43.8
40	882	48.0
45	884	52.3
50	886	56.5
55 60	888	\$6.\$ 60.7
60	890	65.0
65	892	69.3
70	894	73.5
75 80	895	77.6
<u>8</u> 0	896 898	81.9
85	898	86.ò
90	899	. 90.3
95	Į 900	94.4
100	903	98.6
110	904	106.9
120	906	115.2
130	908	123.5
140	910	131.9
150	912	140.2

For obvious reasons no table can be calculated for the flow of steam through pipes since the element of pipe length there must be considered, and no two cases in practice would have the same length of pipe. In Robert Briggs' "American Practice in Warming Buildings by Steam," however, extensive tables are given for different conditions to which it may be interesting to refer.—Engineering and Building Record.





CONTRACTS OPEN.

BEALTON, ONT.—The Methodists will erect a new church.

COMBER, ONT. -A new brick block will be built this summer.

MIDLAND, ONT.—The Presbyterians have decided to build a manse.

STANLEYVILLE, ONT.—The Catholics are about to build a new church.

DELIH. ONT.—A new Presbyterian church is to be erected this summer. WAVERLY, ONT.—St. John's Parish are collecting funds for a new

church.

OTTAWA, ONT.—Tenders are asked for the construction of an electric

street railway.

ELORA, ONT.—Money is being subscribed for the erection of a tower for

St. John's Church.

Orillia, Ont.—Mr. Croker invites tenders for the erection of two brick

school houses in Section No. 1 South Orillia.

DARTMOUTH, N. S.—The sum of \$122,000 is to be borrowed for the establishment of a ferry and school purposes.

WOLSELY, N. W. T.—Tenders will be asked for the erection of a stone or concrete school building to cost about \$2,000.

Brantford, Ont.—Tenders are wanted for the erection of a telegraphic fire alarm system. Address Chairman Fire, Light and Sewers Committee of the council.

SMITH'S FALLS, ONT.—Subscriptions are being asked by the Anglican clergy towards the erection of a permanent residence for the Bishop, to cost about \$12,000.

GANANOQUE, ONT.—Mr. Wilhs Chipman has at the request of the council reported on the cost of a water-works system. His estimate is \$43,000; or \$19,000 for fire purposes only.

PORTAGE LA PRAIRIE, MAN.—E. F. Hutchins, of Winnipeg, will build a brick block.—The N. P. and M. Railway Co. will erect a brick depot.—The Bank of Montreal will build a business block.

WINCHESTER, ONT.—W. L. Palnier, Secretary Citizen's Committee, asks tenders for furnishing 30 incandescent lamps, 16 c. p. and 20 lamps, 32 c. p. and the necessary generating plant to be run by purchasers.

MONTREAL, QUE.—The water committee has been given an appropriation of \$181,000 for pipes and pipe laying.—The plans of Messrs. Power & Son, architects, Kingston, Ont., for the enlargement of Dominion Square Methodist church, have been accepted, and tenders will be asked for the work.

LONDON, ONT.—By-laws have been passed giving \$40,000 to the school board for building purposes, issuing debentures for \$130,000 for extension of water mains.—Plans have been accepted for additions to St. Paul's Cathedral to cost about \$35,000. Work will be commenced as scon as sufficient funds are available.—It has been decided to re-seat St. John's Church, put in a furnace and insert stained glass windows.

WINNIPEG, MAN.—A by-law appropriating \$30,000 for buildings, etc., for a Provincial Exhibition will be submitted to a vote of the ratepayers on July 9th.—An electric railway is proposed for Fort Rouge.—The Y. M. C. A. have purchased a lot at the corner of Smith street and Portage avenue on which to erect a new building.—A committee has been appointed to secure information as to designs suitable for the proposed exhibition buildings.

TORONTO, ONT.—It is the intention of the Safety Barb Wire Company to erect steel and wire mills in this vicinity.—The City Engineer recommends the construction of sewers on the following streets: Drummond place, Jemima street, Perth avenue, Richmond street and Jordan street.—New tenders will be asked for the erection of a conservatory at the Horti-

cultural Gardens.—The Academy of Music is to be refurnished.—The following building permits have been issued: Jewell & Kinnear, additions to 60 Colborne st., cost \$2,500; J. C. Noble, pr. one-storey dwells., Sydenham st., cost \$12,000; Disciples of Christ church, cor. Spadina ave, and Cecil st.; Munes & Booth, 2 storey and attic dwelling, Jamleson ave., cost \$5,000.

CONTRACTS AWARDED.

WINDSOR, ONT.—The contract for the first ward school has been awarded to Sutherland & Co., for \$13.977.

BOWMANVILLE, ONT.—Mr. John Gand has secured the contract for the new Disciple Church, for the sum of \$4,100.

LONDON, ONT.—Mr. James Drummond has been given the contract for block paving Mailland street at \$1.73 per yard.—The contract for stone paving Queen's ave. has been given to G. Powell & Sons, at 22 cents per square foot,

ST. THOMAS, ONT.—Cowan & Co., of Galt, have been given the contract for boilers, etc., for the new water works pumping station. The contracts for the erection of the necessary buildings were awarded to Messrs. Jas. Finney, W. P. O'Donnell, W. Davis and John Riddell.

W. TORONTO JUNCTION.—The Board of Works recommend the acceptance of the tender of the Dominion Bridge Co., of Montreal, amounting to \$10,250, for the iron work necessary for the construction of the Keele St. subway, and the tender of Mr. Barnabas Gibson, of Toronto, amounting to \$54,772 for excavating and masonry.

SIZE OF NAILS.

The following table will show any one at a glance the length of the various sizes and the number of nails in a pound; they are rated "3-penny" up to "20-penny." The first column gives the name, the second the length in inches, and the third the number per pound.--

3-p	enny,	ı inch,	557	nails	per	lb.
4	"	11/4 "	353	"	"	61
	46	13/3 "	232	"	"	44
5 6	"	2 "	167	"	"	"
7	**	21/4 "	141	"	"	"
8	"	21/2 "	IOI	"	"	"
10	46	-	98	"	"	44
12	cc .	2¾ " 3 "	54	"	"	"
20	**	3½ "	34	"	"	**
Spil	«es	4 "	16	44	"	"
٠.		41/2 "	12	"	"	"
**	:	5 "	10	"	"	ш
66	:	6 "	7	"	"	"
**	•	7 "	5	"	"	"

From this table an estimate of quality and suitable sizes for any job can be easily made.

PAINTS THAT PROTECT.

HE Dutch State Railways have recently carried on a series of interesting experiments for the purpose of ascertaining the relative resistance of various pigments to atmospheric changes and to the corrosice action of sea water. The results have proved that the red lead paints are less affected by atmosspheric influences than those which are composed of the brown oxides of iron, on account of their adhering more closely to the metal, and of their possession of great elasticity. It was also discovered that any sort of paint afforded an increased protection if the plates were pickled in hydrochloric acid before its application. The prevention of corrosion by salt water was found to be possible by the the admixture of the oxide of some electropositive metal, such as caustic lime and soda; but the efficiency of such a covering diminished when its alkaline properties have been neutralized by the absorption of carbonic acid. Magnesia, however, was proved to be the most serviceable, seeing that it does not absorb carbonic acid; and not only does it protect the iron from galvanic action, but it also does not affect the antifouling qualities of the paint.

Silicified wood, which is found in vast quantities in Arizona, is said to be a new material which is coming into use for ornamental, fancy and interior work and house finish, taking the place of marble and slate.

TENDERS

Will be received until SATURDAY, THE 14TH OF JUNE, for the different trades required in erecting a School Heuse and Assembly Hall at Mimico for the Industrial School Association.

Plans, specifications and all information to be had at our office.

GIBSON & SIMPSON, Architects. 914 Adelaide St. East, Toronto.

TENDERS

Will be received from the 10th day of June until the 14th, for a brick house to be erected on Grosvenor Street, Toronto. The lowest or any tender not necessarily accepted.

CHAS F. WAGNER, Architect, 4 King Street East, Toronto.

TENDERS

Will be received at the office of the undersigned until noon of THURSDAY, THE 12TH JUNE, for the several trades (including hot water heating) of a brick residence at Manico for E. Stock, Esq.

No tender necessarily accepted.

GIBSON & SIMPSON, Architects, 914 Adelaide Street East.

TENDERS

Will be received by the undersigned up to noon

SATURDAY, JUNE 14TH,

for Plastering the Hospital for Children on College Avenue.
The lowest or any tender not necessarily ac-

cepted.

DARLING & CURRY, Mail Building.

TO CONTRACTORS.

Tenders will be received at the office of the renders will be received at the office of the undersigned, where plans and specifications may be seen, on or before SATURDAY, JUNE 14711, at 12 o'clock noon, for the several works required in the alterations and additions to dwellings on Robinson Street.

The lowest or any tender not necessarily accepted.

cepted.

JAMES BALFOUR, Architect, James and Main Sts., Hamilton.

TENDERS

Will be received by the undersigned up to noon 16TH JUNE, for the several works required in the erection of two houses on Jarvis Street. Plans may be seen on and after the 7th instant.

The lowest or any tender not necessarily accepted.

R. C. WINDEYER, Architect, 20 Canada Permanent Buildings, Toronto Street, Toronto.

TO BUILDERS

Tenders wanted from parties wishing to contract for the erection of a PRESBYTERIAN CHURCH to be built of stone at Arnprior, Ont.

Plans and specifications can be seen on application to C. McLachlin, Esq., Arnprior, also at the office of W. T. Thomas, architect, Montreal, P. Q., on and after MONDAY, 2ND JUNE next.

Tenders for any of the separate trades or for the whole building to be sent in on or before the 16TH OF JUNE, scaled and addressed to C. McLachlin, Esq., Chairman of the Building Committee, Arnprior, The lowest or any tender not necessarily accepted.

PUBLIC LIBRARY.

To Carpenters and Cabinet Makers.

Tenders are invited for the supply of Bookcases, Newspaper Stands, etc., for the new tranch on College Street. The conditions of tender, specifications and plans may be seen on application at the Secretary office, Public Library, comer of Church and Adelaid Streets. Tenders, in accordance with the condition, must be delivered at the Secretary's office previous to 2 o'clock p. m. on TUESDAY, tornt INST. The lowest or any tender not necessarily accepted.

EDWIN P. PEARSON,
Chairman Building Committee.

IOHN DAVY, Secretary

JOHN DAVY, Secretary

Toronto, June 5th, 1800.

PUBLIC LIBRARY

To Builders, Iron Roof Manufacturers and Contractors.

Tenders are requested for the several works required in the erection of a branch library adjoining the fire-hall on College street.

The plans and specifications may be seen and all information obtained on application at the office of Messrs. Denison & King, No. 20 King St. west. The tenders are to be sealed, marked "tender," addressed to the Charman of the Building Committee and delivered at the Secretary's office, Public Library, corner of Church and Adelaide streets east, on or before two o'clock p.m. on two o'clock p.m. on

Tuesday, the 10th Day of June Next,

Each and every tender must be accompanied by a marked cheque, made payable to the Toronto Public Library, or a cash deposit, equal to 5 per cent. of the amount of the said tender, which will oe forfeited to the said Library in the event of the party or parties whose tender is accepted failing to execute the necessary contract and bond.

The lowest or any tender not necessarily accepted.

EDWIN P. PEARSON, Chairman of Building Com.

Toronto, May 26, 1893. JOHN DAVY, Sec.



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to noon on the 17th of June, 1850, for the construction of the following works:

STONE FLAG SIDEWALKS.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to noon on the 17th of June, 1890, for the construction of the following works:

works:—
Yonge Street, west side, from College Street to Bloor
Street: Front Street and York Street, being on two
sides of the Walker House premises; Queen Street,
north s'de, from John Street easterly to street on west
side of St. Patrick's market; Queen Street, north side,
from McCaul Street easterly 40 feet, and on McCaul
Street oz (est.

from McCaul Street easterly 40 feet, and on McCaul Street 92 feet.

Plans can be seen, quantities and forms of tender obtained on and after Tuesday, the 10th day of June, 1890, at the City Engineer's office.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000, and 2½ per cent. over that amount, must accompany each and every tender, otherwise it will not be entertained. All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal.

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

JOHN SHAW, Chairman Committee on Works.

Committee Rooms, Toronto, June 4, 1890.



DEPARTMENT

PUBLIC WORKS.

QUEBEC, 29TH MAY, 1890.

QUEBEC, 29TH MAY, 1890.

Sealed tenders, addressed to the undersigned, will be received at this office up to SATURDAY, THE 14TH OF JUNE NENT, at noon, for the construction of an additional storey to the Court House, Montreal, and for other work in connection with the same building. Plans and specifications of the work required may be seen at this Department, and at the office of Messrs. Perrault & Messiand, Architects, Montreal, every day, from to a. m. to 4 p. m.

Each tender must be accompanied by a cheque for seven thousand dollars, drawn on a duly char.

Each tender must be accompanied by a cheque for seven thousand dollars, drawn on a duly chartered bank, and accepted by the same. Such cheque to be made payable to the order of the Commissioner of Public Works, and to become forfeit to the Government should the tenderer refuse to fulfil the conditions of his tender. The other cheques will be returned to those entitled to them, not later than the 2nd of July next.

By order.

ERNEST GAGNON, Secretary.

-No reproduction of this notice without special order in writing from this Department.

E. G., Sec.



Toronto Water Works.

TENDERS FOR PUMPING ENGINE.

The Committee on Water Works of the Municipal Council of the city of Toronto, will receive tenders addressed to the undersigned, and endorsed "Tender for Pumping Engine," by registered post only, up to the hour of 12 o'clock noon on

MONDAY, 30TH JUNE, 1890

MONDAY, 30TH JUNE, 1890

For an improved PUMPING ENGINE of ten million gallons capacity daily, giving a guaranteed duty of 110,000,000 foot pounds, with boilers, etc., complete, the engine to be placed in the position now occupied by a 4,000,000 gallon Worthington engine (which is to be removed and become the property of the contractor, as per plans and specifications to be obtained at the office of the Superintendent, City Hall, Toronto.

All tenders must be made in accordance with

All tenders must be made in accordance with the specifications issued by the Department. The lowest or any tender not necessarily ac-

cepted.

WM. J. HILL, Chairman Committee on Water Works.

Water Works Department, City Hall, Toronto, June 6th, 1890.

Prices of Building Materials.

LUMBER.

YARD QUOTATIONS.				
Mill cull boards and scantling Shipping cull boards, promiscuous				∞
widths Shipping call boards, stocks			14	∞ ∞
		00		00
		00		00
Scantling and joist, up to 16 ft	13	w		00
" 18 ft				8
" " 20 II				∞
9 (1 22 ft			18	00
" " " 24 <u>1</u> €				00
n n 26 ft			22	00
11 11 20 11			74	90
" " 30 ft				00
			30	00
B. M.				
B. M. 1½ inch flooring, dressed, F. M. 1½ inch flooring rough, B. M. dressed, F. M. undressed, B. M. dressed, B. M.	28	00 00	32	00
134 inch flooring rough, B. M	18	00	22	∞
rx " dressed, F. M	25	∞ ∞		
u dressed, B. M	ıĸ	∞		00
undal		∞ ∞		00
Beaded sheeting, dressed		00	35	∞
Clapboarding, dressed	22	•	35	00 00
Readed sheeting, dressed	2	65		75
	2	00	,	75 20
	30	∞ ∞ ∞	40	œ
White Basswood, No. 1 and 2 Cherry, No. 2 and 2 White ash, No. 1 and 2 Black ash, No. 1 and 2 Dressing tools	35	00	45	co
Dasswood, No. 1 and 2	18	00	20	05
White ark No. 1 and 2	70	00	70	oc.
Black ash. No. 1 and 2	25	00	25	00
Dressing stocks	7O	00	30	00
Dressing stocks		w	40	00
Three uppers, American inspection				8
BRICK-P M			,-	
Common Walling			\$7	"
Good Facing				
Sewer			á	25 ∞
Presed Brick:			٠	
Plain brick, f. o. b. at Milton, per M			\$ 18	
" " and quality, per M		,	***	~
" " 3rd " "			13 10	00
Hard Building			8	œ
" 2nd quality, per M	S	3 to	10	0)
First quality, i.o.b. at Campbellville, per	м		16	∞
C namental and an			13	00
Tiles	. 3	\$3 ta	10	90
Stone.	•		24	G
Common Rubble, Per Toise, delivered				
Large flat " " "			14 18	00
Foundation Blocks, " Cubic Foot			10	
State: Roofing (# square).				35
n red			16	
redpurple			10	00
			ž	8
black slate			ź	50
Terra Cotta Tile, per sq			7 25	õ
Ornamental Black State Rooming			8	00
Sand:				
Per Load of 11/2 Cubic Yards			z	25
PAINTS, (1- 40 20 DA				-
	6	6XX 5X8	6	50
" zinc, Can	Ī	65	7	50
Ked lead, Eng		514	- (30
" vermillion	1	60	1	75
" vermillion " Indian, Eng		ю	I	90
	•	0		12

Valley asker		i	Champs and There	
Yellow ochre	ARCHITECTURAL SCULPTORS AND CARVERS. Beaumont, H'	ıv	GRATES AND THES.	
Green, chrome	Carnovsky, B. H.	x	Holbrook & Mollington	
Black, lamp 13 24	Gullet, F. B.	X	Rice Lewis & Son	۱V
Rius ultramarine	Hicks, W. Stivens	n l	Scott & Son, Wm	
1 boiled 73 75	Johnson & Son, Wm	ix	IRON PIPE. Ives & Co., H. R	ΙV
Oil, linseed, raw (a Imp. gallon). 68 70 1 boiled 71 75 1 refined, 78 80 Putty 234 234	Mowbray, Thos	x	LEGAL.	1 4
Whiting, dry 75 1 00	Turner Frederic	X	Denton & Dods	v
Paris white Eng., dry	ART FURNITURE.	· 1	Mantels and Overmantels. Earl & Co., Edward	
Sienna, burnt		H	Wright & Co.	11
	BRASS WORKS.	ıv	Scott & Son, Wm	••
CRMENT, LIME, etc. Lime, Per Barrel of 2 bushels, Grey 40 White 55	Mitchell & Co., Robt	1	METALLIC LATH.	
" " White 55 Plaster, Calcined, New Brunswick 200	Hynes Term Cotta & Brick Co	vi [B. Greening Wire Co	II iii
" Nova Scotia 2 00		viii	MINERAL WOOL	113
Hair, Plasterers, per bag	Toronto Pressed Brick & Term Cotta Co. The Ontario Term Cotta, Brick & Sewer	11 }	Gast & Atchison	iii
Cement, Portland, per bbl 3 00 3 23		xi :	Savage, R. D Ornamental Plasterers.	viii
" Queenston, " 1 50	BUILDERS' SUPPLIES.	. 1	Baker, J. D.	×
" Napanee, " 1 50 " Hull, " 1 50	Adamant Mfg. Co	vi	Hynes Terra Cotta & Brick Co	vi
HARDITARE.	Hall & Son		Whetter, Henry R	X
Cut Nails:	Rathbun Co	vi	Wright, JasPAINTERS.	×
American Pattern, 11/2 inch, per keg 4 25 "11/2 to 11/2 inch, per keg 3 50 Canadian Pattern, 11/2 inch, per keg 3 75	BUILDING STONE DRALERS.	,	Dill & O'Hearn	ix
Canadian Pattern, 13/2 inch, per keg 3 75	Britnell & Co. Bristow Bros.	ix	Gilmor & Casey	ix
" " 1½ to 1½ inch, per keg 3 15 " " 2 to 2½ inch, " 3 35 " " 2½ to 2½ inch, " 3 00		ix	Dunham, H. Taylor, W. J.	ix ix
" " 2½ to 2½ inch, " 3 00	Lyall, Peter	11	PAINTS, VARNISHES, &C.	ıx
Steel nails 200, per keg extra.		vi riii	Cottingham, Walter H	vii
Finishing nails tinch per beg see		ix	Muirhead, Andrew	11
" 1½ inch, " 5 05 " 1½ " 4 50 " 1½ "	BUILDERS' HARDWARE.	. !	PAVING. Foreyth Roburt	,
11 11 11 11 11 11 11 11 11 11 11 11 11	Aikenhead & Crombie	.:	Forsyth, Robert	xi IV
and larger 4 00		II IV	Durcus Cement Concrete Pavement Co	IV
MONTREAL PRICES	CEMENTS.	. j	The Colman-Hamilton Co	vii 11
Lumber, Etc.		yi (Whittard, T Plasterers.	11
Ash rea am M Siz model an		II iv	Dayton, William H	ix
Birch, 1 to 4 inch, M	McRae & Co	iv	Hynes, W. J	I
Walnut, per M 50 00 100 00		<u>vi 1</u>	Watson Bros	ix
Butterpnt, per M		iii	PLATE GLASS.	
Cherry, per M 60 00 80 00		ii	Lyon, N. TMcCausland & Son.	III iii
Elm, Soft, 1st	CONTRACTORS AND BUILDERS.	.	Toronto Plate Glass Importing Co	iii
Maple, hard, M		ix ix	PLUMBERS.	***
Maple, Soft	Davie, George	" [Bennett & Wright, PLUMBING SUPPLIES.	IV
Pine, select, M	Dearing, Geo	ix	Booth & Son	ii
Shipping Culls		ix ix	Higman, O	Ÿ
Lath. M		ix	Mitchell & Co., Robert	ıv
Spruce, 1 to 2 inch. M 10 00 12 00		ix	ROOFING MATERIALS.	
Spruce Culls 4 50 6 00 Shingles, 1st quality 2 00 3 00 2 nd 1 25 1 50		ix ix	Can. Galvanizing & Steel Roofing Co Merchant & Co	III
	Lyall, Peter	ii [Metallic Roofing Co	, X
Cerneut, etc.		ix	Roofers.	
Portland Cement, per barrel \$ 2 70@ ; 00 Roman " 2 70 3 00 Fire Bricks, per M 20 00 30 00		ix ix	Baird Bros	ix
Cut Nails:	Moss, Wm	ix	Forbes, Duncan	ix
Hot-cut Am, or Can, pattern, 3 inch		ix	Hutson, W. D	x
and above		ix ix	Metallic Roofing Co	ix
and above	Thomas & Howell	ix	Saulter, Wm. Sjewart, W. T.	ix
Hot-Cut Am. or Can. pattern, 21/2 and 2 inch		ix	Stewart, W. T.	ix
Am. pattern, 1% and 1% inch hot cut 3 50 5 60	CHIMNEY TOPPING. Hansen, Harald M	50	The Parmalee Roofing & Paving Co	ix
Can. Pattern, cold-cut, 11/2 and 11/2 inch 3 25 4 45	CHURCH AND SCHOOL FURNITURE.		Toronto Roofing Co	
Finishing Nails per south the all		V	SAFES.	
rinishing Mails, per 100 lb. keg 124 75 cents	Canadian Office & School Furniture Co Pennington & Baker 1	v	Kimball, S	ix
to 2 1/2 inch	CUT STONE CONTRACTORS.	.]	Booth & Son	ii
Finishing Nails, per 100 lb keg, 2 inch Nails.		ix	Earl & Co., Edward	
and up		ix ix	Higman, O	ΙΫ
White Lead, pure, 25 to 100 lb. kegs. 6 50 7 00	Johnson & Son, Wm	ix	Malcolm, W. B	i
" No. 1 5 25 5 50	Oakley & Holmes	ix }	SEWER PIPE	•
	Canadian Electric Mfg. Co	- 1	Hamilton and Toronto Sewer Pipe Co McNally & Co., W	iv II
Venetian Red. English	ELEVATORS.	1	McRae & Co	iv
Yellow Ochre, French 25 3 00	Ives & Co., H. R	, [Terry, Edward	iv
Yellow Ochre, French 1 25 3 00 Whiting, London, washed 0 50 0 65 Paris, 1 15 1 25	Leach & Turnbull	I	The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co	χí
Olls:	Engravers.	- 1	The Colman-Hamilton Co	vii
Linseed, raw 0 3 0 55 boiled 0 66 0 58		iii	SLIDING BLINDS.	_
Olive, pure 1 10 1 15		iii	Clatworthy, Geo	χi
" machinery os zos	Laidlaw, R	iii [STAINED AND DECORATIVE GLASS. Castle & Son	iii
" pts., " 2 50 2 60	Toronto Engraving Co	iii	Dominion Stained Glass Co	iii
32 pts., " 2 75 3:10 Spirits turpentine 0 67 0 70	Wiseman, James L		Dominion Stained Glass Works	¥
	Douglas Bros	vii	Elliott & Son	viii
INDEX TO ADVERTISEMENTS		di	Longhurst & Co., H	ıii
	Douglas & Co., John	rii	Lyon, N. T	III
IN THE CANADIAN ARCHITECT AND BUILDER.	Hedges & Lankinx	cii	McCausland & Son	iii [.] iii
ADAMANT WALL PLASTER. Page		vi cii	The Bell Art Stained Glass Works	iii
Adamant Mig. Co vi	HEATING.	`" [TERRA COTTA.	•
ARCHITECTS. Directory III		ai	The Hynes Terra Cotta & Brick Co Toronto Pressed Brick & Terra Cotta Co.	vi iš
ARCHITECTURAL IRON WORK.	Clare Bros, & Co	ii	The Ontario Terra Cotta, Brick & Sewer	11
Barnum Wire & Iron Works	Howard Furnace Co v	;;;	· Pipe Co	xi
B. Greening Wire Co II	King & Son, Warden x	di	TERRA COTTA LUMBER.	•
Dennis, R		rii xii	Rathbun Co	vi
Toronto Drop Forge Co vii	Toronto Radiator Mig Co	× l	Elliott & Son	I
Whitfield, John 1V		xi l	Staunton & Co., M	Ī'