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

Vol. 5.

NOVEMBER 8, 1894

No. 40

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.

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At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the OANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for

The following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of Archstects, 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 Quebeo now assembled in Convention being satisfied that the CANADIAN OONTRACT RECORD affords us a direct communication with the Contractors,-Resolved, that we pleage our support to it bu using its columns when calling for Tendern'

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TENDERS

will be received until the 17th inst., for the Plumbing Plastering, Painting, Roofing and Heating of Six Houses.

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CONTRACTORS

The Committee of the House of Refuge, Co. Huron, will receive scaled tenders, bulk or separate, until noon on FRIDAY, NOVEMBER 30TH, 1894, for the erection of n

HOUSE OF REFUGE AT CLINTON. ONT.

Plans and specifications can be seen and all informa-tion obtained at the office of A. McMurchie, Esq., Reeve, at Clinton, Ont. or at the offices of Messrs. Fowler & Fowler, Toronto and Woodstock. Ienders are to be sent in on forms provided and to be addressed, marked "tender," to

W. PROUDFOOT, Chairman of Committee, House of Refuge, Goderich, Ont.

CONTRACTS OFEN.

MANOTICK, ONT .- P. Tevens is making preparations to erect a large general store.

MARKDALE, ONT.—The Council is discussing the question of constructing waterworks.

KNOWLTON, QUE.-The waterworks by-law will shortly be voted on by the ratepayers.

WINCHESTER, ONT.-The C P. R. may build a new line of railway from this place to Morrisburg.

GLENCOE, ONT.— James Stevenson will shortly commence the erection of a new building on his property on Main

SUMMERSIDE, P. E. I.—The Summerside Electric Light Company have purchased a site on which to erect their power station.

ST. JOHN, N. B.—The Minister of Militia advocates the selling of the drill shed and erecting a new one on a more central site.

WALKERVILLE, ONT .- Hiram Walker & Sens are considering the erection of an extensive creamery and cheese factory in

VICTORIAVILLE, QUE. — The Town Council has decided to build a large market building on the site occupied by the Foisy block.

HAMPSHIRE MILLS, ONT .- It is intended to erect a Methodist church on a lot given by Mr. Jas. Hallett. Work will not be commenced until spring.

BRANTFORD, ONT.—The G. T. R. is said to contemplate the construction of a spur line between Stratford and Copetown, and are negotiating with the City Council

FORT WILLIAM, ONT.—E. J. Rochon has decided to postpone the building of his proposed hotel on the old avenue hotel site until the spring.

BEAMSVILLE, ONT.—A by-law to provide the sum of \$13,500 for a system of waterworks was carried by the ratepayers being last week, and preparations are made to commence the work.

PHILIPSBURG, QUE.—The Phillipsburg Junction Railway and Quarry Company will make application to Parliament for power to construct a line of railway west-ward to a point on the Richelieu river.

PRESTON, ONT .- The Galt and Preston Street Railway Co., are said to have decided on the construction of a line from Preston to Berlin. John Fennell and T. M. Burt, of Berlin, are among the pro-.no ers.

PORT COLBORNE, ONT.—Plans are being prepared by the Department of Public Works, Ottawa, for the enlargement and remodelling of the customs and post-office building here. An additional storey will be added.

LONGUEUIL, QUE.—The Longueuil Boating Club propose erecting a club house next year.—Mr. Patterson is about to erect four cottages on St. Charles street on the old Trudrau property. Messrs. Morin are also thinking of building are recidenced. ing new residences.

ALMONTE, ONT.—On the 27th inst. the ratepayers of the township of Ramsay will vote on a by-law to take \$20,000 stock in the Carp, Almonte and Lanark railway. The line is to be built from Carp to the first concession line of Ramsay within two years from the passing of the by-law-

PORTAGE LA PRAIRIE, MAN,-Plans will shortly be prepared and tenders called for a new public building here, consisting of a combined post office, custom house and inland revenue offices. The esti mated cost is \$40,000.—The Northern Elevator Company's elevator, recently destroyed by fire, will not be rebuilt until next year.

HALIFAX, N. S .- The Minister of Militia has approved of the plans for the new drill shed.—American capitalists have expressed their willingness to erect a first class summer hotel in this city, provided a suitable site can be obtained. Further information may probably be obtained from H. L. Chipman, of this city.—The time for the reception of tenders for the erection of a brick, and stone building for the Deaf and Dumb Institute has been extended from the 15th to the 1st of December. J. G. Dumaresq, archi-

LONDON, ONT .- Plans have been prepared by Moore & Henry, architects, for a new wing, 52×76 feet, to be added to the east side of the City Hospital, at a cost of \$16,000. The City Council has not yet granted the necessary funds, which must be done before the work can be proceeded with.—The City Engineer has estimated the cost of paving two

blocks on Dundas street with vitrified brick at \$12,300. The question will be considered by the Council.

TORONTO, ONT .- The City will next month advertise for tenders for the annual supply of lumber.—A meeting of the City Council will be held on Tuesday, the 13th inst., to consider the question of widening the Queen street subway, for which purpose a by-law was recently carried by the ratepayers to raise the sum of \$120,000. building permit has been granted to T. R. Morris, 120 Arthur street, for a 3 storey bk. dwelling, 120 Arthur st., cost

WINNIPEG, MAN .- Tenders for the supply of 1,000 feet of 12-1nch sewer pipe are invited by the Committee on Works until 8 p. in. on the 8th inst. J. C. Sproule, Chairman.—City Engineer Ruttan has presented a report to the City Council on the question of utilizing arte-sian wells for water supply, in which he recommends a combined system of reservoir wells and tube wells, and estimates the cost at \$25,000, exclusive of pumping machinery, softening plant, buildings, mains, etc. No action has as yet been taken by the Council in the matter.—
Mayor Garland, of Portage la Prairie, who is interested in the Hudson Bay Railway, states that 175 miles of the road will positively be constructed next year, and in the year following the road will be extended to the Saskatchewan.

HAMILTON, ONT. - Tenders for desks and seats required to furnish two tenand seats required to turnsh two ten-roomed schools are invited by the Board of Education until Wednesday the 14th inst. T. Beasley, Secretary.—The fol-lowing building permits have been granted: Archdale Wilson, two-storey brick dwelling on Homewood avenue, between Kent and Queen sts., cost \$2,400; Hannaford Bros., two storey brick dwelling on Hannah street, between bay and caroline streets, cost \$1,500. Efforts are being made to form a joint stock company to erect a building to be used as headquarters for the Royal Templar Society. The cost of a surable building containing large auditorium and source. containing large auditorium and music hall, is placed at \$40,000. Ald, Lees, who is one of the chief premoters, states that no difficulty is being experienced in secur-ing the necessary stock, and it is probable the building will be commenced next

OTTAWA, ONT.—The promoters of the proposed Ottawa and Brockville electric proposed Ottawa and Brockville electric railway are applying for a charter. It is said that a bonus of \$100,000 will be asked from the city.—The authorities of the Good Shepherd Monastry on St. Andrews reet have decided on the erection of a large addition to the building, plans for large addition to the building, plans for which are now in course of preparation and will be completed in a couple of weeks. The new addition will be four stories high, built of brick and stone, and 106 by 85 feet in size. The estimated cost is about \$50,000. Work will be commenced early in the spring E F E Roy, Secretary Department of Public Works, will receive tenders until Monday the 3rd of December, for the construction of a pier at Thessalon, Ont. Plans may be seen at the post-office, Thessalon, and at the above department in this city.

MONTREAL, QUE.- It is altogether probable that the Richelieu and Ontario Navigation Company will build a new steamer for next season's work. - Tenders are invited by the Road Committee until Wednesday, the 21st inst., for the steel superstructure and trestle bents for bridge over the C. P. R. Company's tracks on Notre Dame street. Plans may be seen and particulars obtained at the office of the City Surveyor.—Building permits have been granted as follows. Thos. Styles, three storey brick tenement building. ing, Conway st., cost \$3,000; P. Gillespie, three storey stone front residences, corner Dorchester st. and Seymour ave., cost \$24,000; Geo. Menmer, 4 two story brick tenement buildings on Berrist., cost \$4,800; P. Routhier, three storey brick tenement building. Charlevoix street, cost \$3,500. F. W. May, alterations and additions to building on St. Catherine st.. J. Laurie & Bros, machinery workshop, Tanseley st, cost \$10,000 The Town Council of Cote St. Antoine ha decided to build a city hall and fire station

FIRES.

The residence of C. Hall, at Regina, N W T, has been destroyed by fire S. J. Cherry's large five storey grist mill at Preston, Ont., was burned to the ground on the 4th mst. The loss will reach door \$30,000. At Lander, Man., on Sunday last, Hamlin's store and dwelling house was destroyed by fire, together with Ramsay's livery stable. Loss \$7,000. The paper mills of J. C. Wilson, at Lachute, Que, were damaged by fire recently to the extent of \$5,000, which is fully covered by insurance. The building occupied by Mootehouse & Snell, awning manufacturers, Preston, Ont., was consumed by fire on Tuesday last. Loss on building \$1,800.—Two houses at Redner-ville, Ont., owned by James Lowery and W. Reddock, were burned recently.—The residence of James Piper, at Port Lambton, Ont, was destroyed by fire recently. Insurance, \$1,300.—The ice house of H. Dutresne, on Lafontaine street, Montreal, was burned on Monday last. Loss, \$4,000, covered by insurance.—James Harcourt's carding mill and turning shop at New Glasgow, Que., was totally destroyed by fire on the 3rd inst. No insurance.

CONTRACTS AWARDED.

ST. JEROML, QUE.—The contract for the erection of a school house has been awarded to J. Lapointe.

OWEN SOUND, OND--Messis, John Harrison, and Manland, Rixon & Co., of this city, have been given the contract for timber for the extensive Esplanade improvements.

HAMILTON, ONT. - D. B. Campbell, of Strathroy, has secured the contract for all the pile driving, timber work and iron piping on the Toronto, Hamilton and Buffalo Railway.

BROCKVILLI, ONT. D. Derbyshire & Co., of this city, have been awarded the contract for supplying the furnishings for the new creamery at Renfrew. The cost will be about \$3,000.

MONTREAL, QUE Theo Dioust, architect, has awarded contracts for eleven tenement buildings to be erected on St. Denis street for Messrs, P. Larivieré, Jos. Jacob, A. Pallascio, Drapeau & Savignac and O. Cauchon, as fellows, stone and brickwork, A. Paquette; carpenter and joiners' work, J. Jacob; plumbing and roofing, Drapeau & Savignac; plastering, H. Contant; painting and glazing, O. Cauchon.

The Hobbs Manufacturing Co., of London, Ont., are establishing works for the production of wire nails, barb-wire fencing and plumbers' and painters' supplies.

BUSINESS NOTES.

The stock of Oliver Bros., painters, Petrolea, is advertised for sale by tender.

L. Perusse, contractor, St. Alban, Que., is offering to compromise at 20c. on the dollar.

The Dominion Glass Co., of Montreal, has been incorporated, with a capital stock of \$100,000.

Cloris Roy has been registered proprie tor of the firm of Edmund Roy Co., plumbers, Montreal.

A. W. Glassford, brass goods and plumber's supplies, Montreal, is offering to compromise at 33% c. on the dollar.

P. A. Connally and Joseph A. Marier will carry on business in Montreal, as plumbers, under the style of Connally & Marier.

COMPARATIVE STRENGTH OF MATERIALS.

Cast-iron weighs 444 pounds to the abic foot, and a one-inch square bar will sustain a weight of 16,500 pounds, bronze, weight 525 pounds, tenacity 3.600; wrought-iron, weight 480, tenacity, 50,000, hard "struck" steel, weight 490, tenacity, 76,000, aluminum, weight 168, tenacity We are accustomed to think of metals as being stronger than wood, and so they are generally speaking, if only pieces of the same size be tested. But pieces of the same size be tested. But when equal veights of the two materials are compared, it is then found that several varieties of wood are stronger than ordinary steel. A bar of pine just as heavy as a bar of steel an inch square, will hold up 125,000 pounds; the bestach 175,000 pounds, and some hendock 200,000 pounds. Wood is bulky. It occupies ten or twelve times the space of steel. The best steel castings made for the United States Navy have a tenacity of 65,000 to 75,000 pounds to the square inch. By solidifying such castings under great pressure, a tensile strength of 80,000 to 150,000 pounds may be obtained. Railway Review.

MINING ROOFING SLATE.

Slate is not taken out in shafts. It is quarried out of big holes in the earth, blasted out in huge blocks and hoisted to the surface by steam. These big blocks are taken hold of by the workmen who cut a notch in one end. Then with a chisel and mallet they split the blocks in almost any way they please. Practice has made them very skillful at this. Another set of men take the smaller pieces thus produced and split them up into sheets of the proper thickness for roofing late with a long bladed instrument shaped something like a putty knife but many times larger. Here again the dexterity shown is marvellous, for some of the men can take a sheet of slate only an inch thick and split it thirty two times. The sheets are then taken and cut into squares by machinery, after which they are all ready for use.

WOODWORK THAT WILL NOT BURN.

In a London paper is published a letter from Mr. F. H. Gossage, who makes some very important statements. He says "I find that painting woodwork of any kind with several coats of solution of sili-Cate of soda, and finishing off with a mix-ture of this solution and sufficient coinmon uniting to make it about as thick as ordinary paint, is a most excellent pro-tection against fire. Wood treated in this way will not take are from mere conwith flame: it requires to be heated till destructive distillation begins. of course, gases are given out ignite, and the wood is gradually converted into charcoal, but until destructive dis-tillation takes place the coated wood will not support combustion. since I had some screens made like ordinary doors, some prepared as I have described, and some not. They were then placed over a fire of shavings, which was kept constantly renewed. In ten minutes the unprepared screens were blazing away, and so nearly consumed that they had to be supported by an iron bar. The flames continued to lick the prepared screens for thirty minutes before the distillation commenced. After forty-five minutes the coated screens were still intact, and able to support themselves; they held together for an hour, although pierced in many places with holes, and when the fire was removed they did not continue to burn. This was a splendid success, and I still have the remains of the screens. The experiments were made at my suggestion for the managers of the Liverpool Philharmonic Society, and the woodwork of their splendid hall at Liverpool was treated in this manner.

INFLUENCE OF INTENSE COLD ON STEEL AND IRON.

The correctness of the popular idea (strongly encouraged by railways) that intense cold renders iron or steel brittle, and may hence occasion the facture of the tires of wheels during severe frost which has caused many deplorable railway accidents, has long been doubted by practical physicists. The subject has now been again investigated, and from the experiments of Dr. Joule, it would appear to be satisfactorily determined that a low temperature has no effect in rendering iron more brittle. Dr. Joule's experiments were practically decisive, and consisted of applying weights suspended from the middle of steel needles at different temperatures, and letting the blunt edges of a steel chisel fall on cast iron nails under similar circumstances. His general conclusion is that frost does not make either iron (cast or wrought or steel brittle; and that accidents arise from the neglect of the ailways to submit wheels, axles, and all other parts of their rolling stock to a practical and sufficient test before using

Contractors find a great convenience, says the American Machinist, in being able to rent almost any kind of machinery they may require in most large cities. This is particularly true in regard to small jobs in outlying towns, taken by contrac-tors living, perhaps, a thousand or more miles away. A hoisting engine, for in-stance, is required for a short time, and it is cheaper and more convenient to rent one near at hand than to bring one from the distance. And so with other things that may be needed. Good, stiff prices are charged by those who keep such machinery for rent. example, we know a contractor who wanted a steam pump to use on a job a few miles away from New York. He readily found what he wanted in New York. When new this pump might have been listed at \$250, although that would have been a round price. At second hand, as it was, it would hardly sell for 50. It was rented one month for \$60. This looks like a high price, but such rented machinery is generally pretty hardly used, and this pump will be likely to go back in need of a rather thorough overhauling and the renewal of some of its parts, and perhaps not be rented again for a year, so that, after all, the rent was. probably, not exorbitant. Other machinery was charged for at proportionately rather lower rates, it apparently being taken into consideration that the pump would get the hardest usage, which was true enough, as it handled about as much sand as water.

MUNICIPAL DEPARTMENT.

SLAG PAVEMENTS.

What is known as the Woodward street paving block, made of blast furnace slag, is said to be already in demand in England to the extent of 100,000 blocks per week, the success attending the use of the article calling for a supply constantly to meet the needs of streets in London and in foreign towns and cities as well. The

idea of utilizing furnace slag for the purpose is not wholly a recent one, but the method of production in this case appears to possess some decided advantages. slag is run into a ladle, from which it is poured into cast iron molds secured to the periphery of a horizontal wheel, each mold having a hinged bottom, and the wheel being slowly rotated, the bottoms of the molds are released in succession; the blocks, molten inside, but solid at the surface, drop upon a soft bed of granulated slag, and are quickly removed and stacked in an annealing stove; when full, the doors of the stove are closed, and the blocks allowed to anneal themselves without extraneous heat. In about eight hours the doors are opened and the blocks withdrawn, at which stage they are in a suitable condition for the use intended. It is stated, however, that without annealing they would soon crumble to pieces from internal stresses.

THE ANDERSON PROCESS OF GAR-BAGE CRENATION:

The method of burning brick on cars, which was devised by J. C. Anderson, President of the Anderson Coke, Gas, Power, and Reduction Company, having its head office in the Rookery Building, at Chicago, Ill., has been recently adopted by the designer for the cremation of garbage. A model of the brick kiln in the Government Building at the Columbian Exposition was accompanied by the following description: "This is a continuous kiln or double tunnel, through which two trains of five-proof cars, loaded with green brick to be burned, pass in opposite direc-tion, the heat from the burned brick at the outgoing end being transmitted to the green brick in the opposite tunnel in a sufficient degree to raise the water smoke and partially burn them before they reach the furnace. The water smoke being de-composed and utilized as hydrogen gas, is drawn forward to the furnace fires located in each of the side walls near the center of the tunnel and there burned. Crude oil is generally used as a fuel. The fireproof cars are sealed so as to protect them from the effect of the heat and to prevent the ingress of cold air to the burn-ing chamber. Whenever a car of green ing chamber. Whenever a car of green brick is forced into the tunnel a car of burned brick is ejected from the opposite end of the same tunnel, and thus the operation of burning may be continued indefinitely without interruption for cooling of the product."

The recent experiments for burning

The recent experiments for burning garbage were carried on in one of these tunnel kilns in Chicago, which had been in use for the past four years in the manufacture of fine pressed brick. Its construction was changed to adapt it to the new purpose, and temporary appliances for loading and unloading the cars automatically were supplied.

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Prices of Building Materials.

CONDITION OF THE MARKET.

TONONTO: The market remains steady, with possibly a slight improvement. In general hardware the demand is mostly for small lines, such as locks, nails, etc. A satisfactory trade is reported in tron pipe, but the prices are being cut very fine. Galvanized from it quiet the lighter gauges only being in demand. Nothing to report in lead pipe and discounts unchanged. Plumbing supplies are firmer, and a slight improvement is noticed in city trade. Business is brisk in window glass and paints and oils, as a result of the closing of the season's work. Cement remains the same.

Montreal: The market is quiet, with few changes to note. The cement season is about over, and all the large orders have been placed, consequently importered on of expect much activity. It is said to have been an unsatisfactory season for cement dealers, both a regards volume of business and low prices. The stock of English brands handled is fully so, one barrels, short of last year. Prices remain unchanged. Fire bricks are selling at \$16 to \$22. Window glass is firm at \$1.25 for first break. Paints and oils are steady, with no change in quotations.

LUMBER.

CAR OR CARGO LOTS.

18 to 2 clear picks. Am ins 33 006360		Toronto.	Mont	real.
18 to 2 clear picks. Am ins		s s		
1	1 1 to 2 clear picks. Am ins	.22 00(d:6 00	40 000	945 on
1 to teter	1 X to 2 three uppers, Am ins	. 37 00		45 00
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1 to teter	t to and to dressing and	i	32 50	00 00
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Cull scantling	inch siding, mill culls	900 10 00	8 00	
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Shipping cull boards, promiscuous widths				
miscuous widths				10 00
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Hemlock scantling and joist up to 18 ft	Shipping cull boards, stocks	1000		16 00
Hemlock scantling and joist up to 18 ft	Hemlock scantling and joist			
Cedar for block paving, per cord	up to 16 ft	11 00 12 00		10 00
Cedar for block paving, per cord	up to 18 ft	1240 200	12.00	7.0
Cedar for block paving, per cord	Hemlock scantling and joist	1		310
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Cedar for Kerbing, 4x 14, per M				
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" 33 ft 33 00 33 00 35 00 44 ft 34 00 36 0 Cetting up planks, 1½ and thicker, dry		1 27 00		27 (>)
Cutting up planks, 1½ and thicker, dry		(210)		31 00
Catting up planks, 1½ and thicker, dry	" " 331	१ ३२००		22 00
B. M. 1 ½ in. flooring, dressed, F M. 26 00 30 00 28 00 31 00 1½ in. flooring, rough, B M. 18 00 22 00 18 00 22 00 1¼ " dressed, F M. 25 00 28 00 27 00 30 00 1½ " dressed, B M. 18 00 19 00 18 00 19 00 1½ " dressed	• • • • • • • • • • • • • • • • • • • •	24.00		36 O
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1% " undressed	136 in. flooring, dressed, F M.	26.00 30.00	28 00	11 00
1% " undressed	11% inch flooring, rough, B.M.	18 00 22 00	18 00	22 00
1% " undressed	" dressed, F M.	25 00 28 0	27 ∞	30 00
1% " undressed	w undressed, B.M.	18 00 19 00		
Beaued Streeting, dressed	1½ " undressed	1200 160		
Red oak	Beaded sheeting, dressed	20 00 35 00		35 00
Red oak	Clapboarding, dressed	15 00		12 00
Red oak	AXA sawn shingles, per M	a 60		
Red oak	Sawn lath	200 270	2 50	310
Red oak 2000 4000 2000 4000			2 30	
White	Red oak	20.00 40.00	30 ∞	
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70 00 Co	Cherry, No. 1 and 2	78 60 70 60	18 00	20 00 Pa
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		ito. I			
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Pressed Brick, Per Red, No. 1, f.o.b. Beamsvil	le	16 0			Calci Fire
" " 3	• •	14 00 9 20			Lime
Biff Brown		21 00 24 CO			Plast
Brown Roman Red Buff Brown	•	30 ∞ 35 ∞			Hair,
Sewer Hard Building		40 00 7 50 6 0			Cut r
Roof Tiles		22 00			Steel
Hip Tile (each Ridge Tile	••	66			40d, 1 30d,
Red "A" f. o. b. Don Valle Red "B" " " " " " Red "C" " " " "	y	18 <i>0</i> 0		25 00 20 00	20d, :
trojan and Corinthian		31 00 13 00		17 00 28 00	10d, l
Pompeiian		22 00 25 00		29 00 31 00	6d, 70
Tyrian		35 00 40 00		41 00 45 00	3d, 2d,
Roman		35 00 40 00		40 00 45 00	4d to or t
Ornamental		14 00	30 00 1	3800	3d to or b
.rd !! !! !!	14	12 00 8 00		15 00	3d, pe
Hard building brick Ornamental, per 100	. 100	6 50			Zd, CASIN
SAN		1000			12d to
Per Load o 15 Cubic Yard		1 25		1 25	rod, 8d an
Common Rubble, per totse					6d an
delivered		14 60		14 00	3d,
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nioncion. N. b., per co					2 to 2
ft., fo.b	1	00 1			13% to
Freestone, per cu.ft., f.o.b. Ballochmyle		95	65	75	sd, pe
Granife (Stansfead) Ashlar, 6)			1 05	4d, 3d,
in, to 12 in., rise 910., per ft. Moat Freestone Thomson's Gatelawbridge, co			70	25 80	2d,
Cradit Valley Rubble, per car	•	8 00	75	80	
of 15 tons, at quarry Credit Valley Brown Cours- ing, up to 10 inch, per sup.		• • • •			
ing, up to 10 inch, per sup- yard, at quarry		1 75			
sion, per cu. ft. at quarry Credit Valley Grey Coursing,		60			
sion, per cu. ft. at quarry Credit Valley Grey Coursing, per superficial yard Credit Valley Grey Dimen-	1 50	2 00		2 15	Ontari
MadocRubhle, delivered, per		60		75	Queoc
Madoc dimension floating, f.	14 00	14 50	14 00	14 50	Arch
o. b. Toronto, per cubic ft. Ohio Freestone, No. 1 Blue Promiscuous, f.o.b	२०	32			Holbriton.
No. 1 Buff Promiscuous		60 65			Wagn Co.
No. 1 Buff Dimension		80 85			drch
The above prices means freight and duty paid. 2 in sawed flagging per sq.ft					B. Gre
2) 11. 52 Wed tragging per squit		1334 1634			Domir Iron
32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		22 273/2			Domin Meado
Duty to be added to these		33			Shipw. Whith
brices.					Ar
Quebec and Vermont rough granite for building pur- poses, per c.ft. f.o.b. quarry	33	1 50			Knech Wagne
For ornamental work, cu. ft. Granite paving blocks, 8 in. to	35	20			Bri
12 in. x6 in. x4 12 in., per M Granite curbing stone, 6 in.x		20 00			Beam Bric
20 in., per lineal foot		70			Morris Port
Rocfing (V square).					Bric Co.,
red		9 00		10 CO 30 00	Taylor
untading green black		8 50 8 00		6 00 7 50	Bull Bremn
Terra Cotta Tile, per sq Ornamental Black Slate Roof-		25 00 8 00			Currie Clatwo
PAINTS. (la oil,	29 25.			Magui
White lead, Can., per 100 lbs. inc, Can., "" Red lead, Eng" venetian, per 100 lbs	6 25	5 50 7 50	6 ∞ 7 50	6 25 8 00	Rice I Vokes
Red lead, Eng venetian, per 100 lbs	4 00 1 60	500	1 60	6	Bu
" Indian, Eng	y.	1 40	90	100	Carrol
		10	4 15	6	But
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		20	12	25 18	Cre Cabot,
filue, ultramanne	14 57	59 63	63 66	68	Chu:
bosted refined, Putty Whiting, dry, per 100 lbs Paris white, Eng., dry	78 274	21/2	75 234	232	Cap.
Whiting, dry, per 100 lbs Paris white, hing., dry	75 90	1 00	60	75	Fun Globe
Sienna, burnt.	. 4	15	61/2	15	Office Snider
Umber, "	852	.,	12	15	Chi
Cement, Portland, per bbl " German. "	2 3	2 50	. 4-	3 50	Frink,
u London	250	7 25 2 75	2 65 2 45	2 85 2 90	GIL

Toronto.	Montreal.	Toronto. Montreal
Cement, Belgian, per bbl 2 30	2 (0 25)	COMMON BARREL NAILS.
" Canadian " 2,0 250	2 25 2 30	1 inch, per 100 lbs 1 50 1 50
" Koman	2 75	36 " " " ····· 175 75
Farian 450 47		74 225 235
" Thorold, " 6 50 7 60		CLINCH NAILS.
" Queenston, " 1 *C		inch, persoalls. 85 85
" Napanee, " . 1 30		75 4110 274
Keene's Coarse 'Whites" 4 50 4 75		114 and 114 " 125 126
Calcined plaster, per barrel.	1 55 1 70	11/4 " 200 200
Fire Bricks, Newcastle, per M 23 00 30 0	C 16 50 22 00	1 250 250
" Scotch " 23 00 ,0 0		SHARP AND PLAT PRESSED NAILS.
Lime, Per Barrel, Grey 3		3 inch, per 100 lbs. 1 35 1 35
Plaster, Calcined, N. B 200		21/2 and 21/4 " " 1 50 1 50
" " N. S 2 o		2 11 10 10 10 10 10 10 10 10 10 10 10 10
Hair, Plasterers', per bag 80 1 or	•	129 400 174 105 105
HARDWARE.		1½ " " 250 250 1 " " " 300 310
Cut nails, 5.d & 6.d, per keg 2 40	2 2 2 5	STEEL WIRE NAILS,
Steel 11 11 11 11 2 50		Steel Wire Nails, 75, 10 and 5 % discount from
CUT NAILS, FENCE AND CUT SPI		printed list.
40d, hot cut, per 10 lbs	5 5	Iron Pipe:
god, ii ii ii z	. 10	Iron pipe, 🐰 inch. per foot 6c.
20d, 16d and 12d, hot cut, per 100 lbs	3 15	" " ½ " " 7 " " ½ " " (½
10d, ho; cut, per 100 lbs 20		" " ½ " · · · · ½ " · · · · · · · · · ·
8d, gd, 11 11 11 24		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6d, 7d, " " "	40	11 11 11/4 11 1 24
44 10 30,		и и 1½ и и 3э
391		71 1 2 1 11 43
4d to 5d cold cut, not polished	1 50	Black wrought from pipe, 671/2% off above prices. Galvanized 40% Cast and soil 47%
or blued, per 100 lbs 50	50	Cast and soil " " 12" "
3d to 5d cold cut, not polished	•	Lead Pipe:
or blued, per 100 lbs 90	90	-
PINE BLUED HAILS.		Lead pipe, per lb
3d, per 100 lbs 1 50		Discount, Toronto and the West, so % off in small
2d, " " 2 00		Waste pipe, per lb
CASING AND BOX, FLOORING, SHOOK AND	TOBACCO BOX	as and to % off.
12d to 30d, per 100 lbs 50	50	Galvanized Iron:
10d, *" " 60		Adam's-Mar's Best and Queen's Head:
8d and od, " " 75	75	16 to 24 guage, per lb 4%c. 4%c
6d and 7d, " " 90		26 guage, " 41/4 5
44.030, 1.0		28 " 5 5½ Gordon Crown—
	r 50	16 to 24 guage, per lb 4½ 4½
inch, per 100 lbs 85	85	26 guage. " 45 434
2½ to 2¾ " " " " o		28 " " 4¾ 5
2 to 2½ " " " " "		Note.—Cheaper grades about 1/2 c. per lb. less
13/4 to 13/4 " " 35		Structural Iron:
173		Steel Beams, per too lbs 2 75 2 50
SLATING NAILS.	2 25	" channels. " 285 260
5d, per 100 lbs 85	85	"angles, " 2 50 2 30
4d, " " 85	85	" tees, " 280 205
3d, " " T 25	1 25	_ plates, 23
2d, " " 1 75	150	Sheared steel bridge plate 2 25 2 35
INDEX TO) VDI	VERTISEMENTS

up to 10 inch, per sup.	_		n the "Canadian A
valley Brown Dimen-	5	•	in tile Canadian A
per cu. ft. at quarry 6 Valley Grey Coursing,	•		
Valley Grey Coursing, superficial yard 150 20		Architectr	_ Coments.
Valley Grey Dimen.	2 15	Ontario Directory III	Bremner, Alex y
Valley Grey Dimen- per cubic foot 6: Rubble, delivered, per	75	Queoec Directory ii	Bremner, Alex v Currie&Co, W.&F P xii Estate of John Battle viii Maguire Br.s
	0 14 00 14 50	Architectural Sculp-	Maguire Br.s i
dimension floating, f.		tors and Carvers.	Morris, E. D vi Owen Sound Portland
Toronto, per cubic ft. 30 3 reestone, No. x Blue siscuous, f.o.b	3	Holbrook & Molling-	Cement Co v
riscuous, f.o.b 66	,	ton i Wagner, Zeid'er &	Vokes Hardware Co i
		CoIII	Cut Stone Con-
Buff Promiscuous 8			tractors.
Buff Dimension 89 above prices means	•	drchitectural Iron-	Isaac Bros II
and duty paid.		Work.	Oakley & Holmes II
wed flagging persq.ft 11	• /	B. Greening Wire Co. xii Dominion Ornamental	Chimney Topping.
" " " " I	** **	Iron Co vi	Bremner, Alex v
11 11 11 22	1	Dominion Bridge Co. I	Currie&Co.,W &F.P. xii
	134	Meadows, Geo.B ii Shipway Mfg . o iv	Drain Pipe
to be added to these	1	Whitfield, John I	Bremner, Alex v Currie &Co., W&F.P. xii Hamilton and Toronto
10 00 40000 10 130		Art Woodwork.	Hamilton and Tompto
and Vermont rough		Knechtel, SIII	Sewer Pipe Co xi
te for building pur- , per c.ft. f.o.b. quarry 33 1 50		Wagner, Zeidler & Co. 111	Maguire Bros
amental work, cu. ft. 35 20	•		Standard Drain Pipe Co
paving blocks, 8 in. to		Bricks (Pressed).	Vokes Hardware Co., ii
x6in.x41/2in., per M 50 00 curbing stone, 6 in.x	•	Beamsville Pressed Brick Coviii	Dumb Waiters
, per lineal foot 70	•	Morris, E. D vi	King & Son, Warden x
SLATE.		Morris, E. D vi Port Credit Pressed	
(# square).		Brick & Terra Cotta	Electric and Gas Fixtures
" red 18.0		Co., Limited vini Taylor Brosviii	Barwell, James IV
untading green 8 50		Builders' Supplies.	· · · · · · · · · · · · · · · · · · ·
· black 8 oc	7 50	Bremner, Alex y	Electric Wiring
Cotta Tile, per sq 25 00 ental Black Slate Roof-	•	Currie & Co., W & F P. xii	Rogers & Doss IV
8 oc		Clatworthy, Geo ix	Elevators
PAINTS. (In oil, Wib.		Maguire Bros i Morris, E. D vi	Fensom, John 1V
		Rice Lewis & Son IV	Leitch & Turnbull I Williams, A. R xii
ead, Can., per 100 lbs. 6 25 5 50 inc., Can., 11 11 6 50 7 50		Vokes Hardware Co i	
d, Eng 400 500		Building Stone	Engravers.
ietian, per 100 lbs 1 60 17		Dealers.	Can. Photo-Eng Bu-
million go 100 lian, Eng 10 1	,	Carroll, Vick & Co vii	reau iv
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Paris 10 2	,	Vokes Hardware Co i	Currie& Co, W &F P., xii Maguire Bros
lamp	12 25	Creosote Stains	Morns, E. D vi
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t, dry, per 100 lbs 75 1 0 hite, Eng., dry 90 1 2		Furniture Co ix Globe Furniture Co	Tucker & Dillon II Douglas Bros II
e, Eng 4	\$ 61/4 8	Office Specialty Co	Ormsby & Co., A. B 1
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·-	. 12 15	Church Reflectors	Biunet, Jos ii
CESSIONT, LIME, etc.		Frink, I. P iv	Grates and Tiles.
Portland, per bbl. 2 23 2 50 German " . 3 25		Contractors' Plant	Bostwick, G. F vii
London 250 275	245 290	and Hackinery	Holbrook&Mollington i
Newcastle " 250		Rice Lewis & Son IV	Rice Lewis & SonIV

	/EKIISEWI
Coments. Bremner, Alex v Currie&Co, W.&F P xii Estate of John Battle viii Maguire Br. s. ii Morris, E. D. vi Owen Sound Portland Cement Co v Vokes Hardware Co. i Cut Stone Contractors. Isaac Bros II Oakley & Holmes II Chimney Topping, Bremner, Alex v Currie&Co, W &F.P. xii Drain Pipe	Heating. Clare Bros. & Co xi Gurney Foundry Co xii King & Son, Warden x Ormsby & Co., A. B I Pease Furnace Co xii Toronto Radater Mfg Co iii Williams, A. R xii Lime. Curric & Co, W & F P. xii Morris, E. D vi Leyal. Denton & Dods II Metallic Lath. B. Greening Wire Co xii Metallic Roofing Co vii Metallic Roofing Co vii
Bremner, Alex v Currie & Co., W&F. P. xi Hamilton and Toronto Sewer Pipe Co xi Maguire Bros xi Standard Drain Pipe Co II Vokes Hardware Co ii Dunib Watters	Mortar Colors and Shingle Stains. Cabot Samuel, IV Maguire Bros i Murhead, Andrew i Ornamental Plas- terers.
King & Son, Warden x Electric and Gas Fixtures Barwell, James	Baker, J. D vi Hynes, W J 11 Paints & Varnishes. Harris Co., The E vi Muirhead, Andrew i Painters. Gilmor & Casey v
Elevators Fensom, John 1V Leitch & Turnbull 1 Williams, A. R xii Engravers.	Paving. The Guelich Silica Barytic Stone Co IV Plasterers Hynes, W. J
Can. Photo-Eng Bureau iv Fire Briek and Clay Bremner, Alex v Currie& Co.W &F P xi Maguire Bros i Morns. E. D vi Standard Dra's Pice Co II Galeanized Iron Workers. Tucker & Dillon II Douglas Bros, II Ormsty & Ce., A. B I Granito Branet, Jos ii Grates and Tiles. Bostwick, G. F vii Holbrook& Mollington Rice Lewis & Son IV	Plumbing Supplies Barwell, Jam-s

dlan	Architect and Build	er."
	Weating	Roofers
	Heating.	Douglas Bros II Duthie & Sons. G. If Hutson, W. D. If Hutson, W. D. If Heatallic Roofing Co vii Rennie & Son. R. II Stewart, W. T. II Williams & Co H. II Warren Chemical & Mrg. Co. II
P xii	Clare Bros. & Co xi	Durkie & Sees C 1
P XII	Gurney Foundry Co., XII	Dunie & Sons. G If
ittle viii	King & Son, Warden.	riuson, w. D 11
vi	Ormsby & Co., A. B., I	Metallic Rooting Co., vii
vi	Gurney Foundry Co xii King & Son, Warden x Ormsby & Co., A. B 1 Pease Furnace Co xii	Rennie & Son, R II
land	Toronto Radiator Mig	Stewart, W. T II
v	Co 111	Williams & Co., H II
Co i	Williams, A. R xii	Warren Chemical &
		Mfg. Co 11
on-	LAme. Currie & Co, W & F P. xii Morris, F. D	Panka Mataulata
	Curre & Co, w &r F. xii	Roofing Materials Denville Slate Co iv
!!	Morris, E. D vi	Danville Slate Co iv
11	Legal.	Merchant & Co ii
ping.	Denton & Dods II	Metallic Roofing Co., vii
pinig.	Delical & Dods 11	Warren Chemical &
···· ¥	Metallia Tash	Mfg. Co I
P. xii	Metallio Lath. B. Greening Wire Co. xii	Sanitary Appli-
		ances
96	Metallic Roofing Co vii	The desired Contracts
v	Manten Oalons 3	Pottery Coiv
F.P. xii	Mortar Colors and	McRae & Co II
onto	Shingle Stains.	Pottery Co iv McRae & Co II Sanitas Mfg. Co II Toronto Steel Clad Bath
xi	Cabot Samuel, IV	Toronto Steel Clad Bath
	Maguire Bros i	& Metal Co vii
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Co ii	Ornamental Plas	Cabot, Samuel IV
	terers.	CH 41 1011 3 -
crs	Baker, J. D vi Hynes, W J II	Sidding Blinds
den x	Hynes, W J II	Clatworthy, Geo ix
	Paints & Varnishes.	Lea & Seaman 11
Gas		Stained and Decora-
	Harris Co., The E vi	tive Glass
3V	Muirhead, Andrew i	Carola & San
	Painters.	Dominion Glass Co v Drake, W v Elliott & Son I Gilson Bros. Stained
ing	Gilmar & Carett	Drake W
IV	Gilmor & Casey 1v	Elliott & Son I
	Paving.	Gilson Reve Steined
	The Guelich Silica	Clare Works
17	Barytic Stone Co IV	Grimson, G. & I. E v
1	24,700 5,000 50000 1	Glass Works v Grimson, G. & J. E v Hobbs Mfg. Co v Horwood & Sons, H v
zii	Plasterers	Hamusari & Cana U
	Hynes, W. J II	McCourland & Com. "
9.		arceausianio et sou… il
Bu-	Plumbing Supplies	Longhurs, H v Quesnel, Sharpe & Co. v
iv	Barwell, James IV	Quesnel, Sharpe & Co. v
10	Dominion Sanitary	Ramsay & Son, A v Spence & Son, J. C v
l Clay	Pottery Co iv Sanitas Mfg. Co II	opence a son, j. C Y
_	Sanitas Mfg. Co II	Terra Cotta
P., x1i	Toronto St. el Clad Bath	The Raritan Hollow &
I XII	& Metal Co vii	Porous Brick Co vi
1	McRae & Co Il	
vi		Wall Paper and
ipe II	Plate Glass	Celling Decorations
11	Harris C., The E vi	Elliott & Son 3
ron	Plate Glass Harris C., The E vi Hobb. Mfg. Co v McCausland & Son ii	WireManufacturers
	McCausland & Son ii	
17	The Conso idated Plate	B. Greening Wire Co. xii Meadows, Geo. B ii Shipway Mfg Co iv
]]	Glass Co ii	Meadows, Geo. B ii
II	75	Shipway Mfg Co iv
в і	Parquetry Floors	Wall Plaster
	Elliott & Son I	Nowell & Co. B. L vi
ii	Plumbers	
	Ballantyne, James ii	Wall Tie
ilcs.	Panantyne, James (1	Mac Machine Co ix
	Reproduction of	Window Blinds

Window Blinds
Clatworthy, Geo.... iLea & Seaman.... II