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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.

DEGEMBER 27, 1894

No. 47

THE CANADIAN CONTRACT RECORD.

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At its Convention held in Toronto, Nov. 20 and 21, 1889, the Untario 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 Archtiscis, 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 CONTRACT RECORD affords us a direct sommunication with the Contractors,—Resolved, that we pleage our support to it by using its columns when calling for Ten-ders,"

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Notice to Contractors

CANADIAN CONTRACTOR'S HAND-BOOK

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The machinery and stock of the Barnum Wire and Iron Works, Toronto Junction, will be offered for sale by auction on the roth of January.

TO CONTRACTORS

Scaled tenders marked "Sewers" will be received by the undersigned on or before the 5TH DAY OF JANUARY, 1895, for the construction of a

MAIN SEWER IN THE TOWN OF SUDBURY, ONT.

Plans and specifications may be seen and form of tender had at the offices of Messrs. Gordon & Rorke, Engineers, Sudbury, Ont., Messrs. McPherson. Clark & Jarvis, Barristers, Toronto, Ont., Messrs. Perkins & Fraser, Barristers, Ottawa, Ont. "The Canadian Trade Review", Montreal, Que. The lowest or any tender not necessarily accepted.

ARTHIR FERRIS

ARTHUR FERRIS.
Clerk Town of Sudbury.



Notice is hereby given that sealed tenders addressed to the City Engineer and endorsed "Tenders for Borings" will be received by Registered Post only, up to the hour of 11 o'clock a.m. on

Saturday, the 5th of January, 1895,

for the work of boring test holes for the proposed new tunnel under Toronto Bay.

Plans and specifications may be seen at the City Engineer's Office. A deposit, cash or marked cheque, of \$100.00 must accompany each tender. The lowest or any tender not necessarily accepted.

DANIEL LAMB, Chairman Committee on Works.

City Hall, 24th December, 1894.

An unusual pipe-laying undertaking has recently been completed in Detroit, Mich. According to the local papers the pipe is to form part of a line by which gas will be brought into Detroit from the Canadian side of the river. The pipe is stated to have been coupled up in 600-foot sections on a launching way about 600 feet long. From the nose of the first section a heavy cable was taken across the river, passed through a block and then attached to the drawbar of a locomotive. The first 600 feet was pulled out into the river all right. but five locomotives failed to start the pipe again after the second 600 feet was attached. Finally the nose was raised up by grapples let down from boats, and after the pipe was freed in this way four loco-motives had no trouble in pulling it along. After this experience the pipe was kept suspended until it reached the Canadian shore, over half a mile from the launching

BUSINESS NOTES.

The assets of C. G. Brodeur, plumber, Montreal, has been sold.

Cusson & Thericu, plumbers, Montreal, have dissolved partnership.

Felix Mongeon, joiner, Quebec, has assigned, with liabilities of \$5,400.

The firm of Dill & O'Hearn, painters, Queen street west, Toronto, has been dissolved.

CONTRACTS OPEN.

ST. MARYS, ONT.—J. A. Johnston will erect a planing mill here.

BRIGDEN, ONT .- The question of constructing waterworks is under considera-

COLLINGWOOD, ONT. - The Globe Hotel here is to be enlarged and improved at once.

MOULINETTE, ONT.—Messrs. Gilbert & Lockwood contemplate erecting a saw mill here.

WOOLER, ONT.—An effort is being made to secure the erection of an Anglican church here.

KEENE, ONT .- John Gall is preparing the site for a new residence to be erected in the spring.

RENFREW, ONT.—A movement has been started here to secure the erection of an hospital.

KINGSVILLE, ONL-Duncan McDonald purposes erecting a new residence on McDonald street.

RIPLEY, ONT.-The purchase of an electric light plant for the village is under consideration by the Council.

QUEBEC, QUE.—An item of \$25,000 for repairs to the Beauport asylum has been passed by the local legislature.

PORT STANLEY, ONT.—Freight sheds for the Lake Erie and Detroit railway are to be built here at a cost of \$10,000.

HULL, QUE. The bill to incorporate the Hull Electric Railway Company has been passed by the Quebec Legislature.

STRATFORD, ONT. - On January 7th the ratepayers will vote on a by-law to raise the sum of \$16,000 to put in an electric light plant.

SHERBROOKE, QUE - The Jenckes Machine Co. have been granted a site by the City Council on which to erect their proposed new factory.

WINNIPEG, MAN .- The Lake of the Woods Milling Company state that they propose to erect twelve new elevators in this province next spring.

LISTOWELL, ONT.—Messrs. Binning & Baxter, architects, have prepared plans for new residence for F. W. Hay, of this town, and James Cumberland, of Wallace.

KINGSTON, ONT .- The new dredge to be built here this winter by Connolly Bros. will cost about \$75,000. The plans Bros. will cost about \$75,000. The plans have been prepared by their engineer, P. Hume.

ST. BONIFACE, MAN.—The by-law to expend the sum of \$75,000 on the construction of a new bridge between Winnipeg and this town, was defeated by the ratepayers.

LONDON, ONT.—The Water Commissioners will request the Ontario Government to decide at once whether authority will be granted the city to issue debentures for extending the waterworks without a vote of the ratepayers being taken.

EDMUNSTON, N. B.—Malcolm & Ross, solicitors, of this town, have given notice

that application will be made at the next session of the Dominion Parliament for the incorporation of a company to build bridges across the River St. John, at Claire, St. Hilaire, Edmunston and St. Leonards.

FRASERVILLE, QUE. - Louis H. Tache and J. O. Mignault, of Mignault, Belanger & Amos, civil engineeers, Montreal, have obtained exclusive privileges from the town for twenty-five years for the con-struction and maintenance of waterworks. Arrangements have also been made for the establishment of a system of lighting, electric power and drainage.

HALIFAN, N. S.—The members of the Main street Baptist church have decided on the erection of a new building. Plans have been submitted by W. M. Mott, but no selection has as yet been made.—
At a recent meeting of the City Council it was stated by the solicitors for the stock-holders of the present street railway franchise that arrangements were being made for the equipment of a first-class electric railway. The present service has proved unsatisfactory.

CALGARY, N. W. T.- Notice has been given that application will be made to the Dominion Parliament at its next session for an act to incorporate a company to construct a railway from a point near the town of Clearwater, to Baldur, Glenboro, Carberry and Neepawa and thence to the Hudson Bay; also to construct and operate telegraph and telephone lines along the railway. Gregory Barrett, of this town is solicitor for the applicants.— Ratcliffe Bros. will erect a creamery here.

MONTREAL, QUE - The Protestant School Commissioners have purchased the house and property on St. Denis street facing St. Louis square. It is intended to build an extension to the rear.—The rebuilding of the Montreal Stree, Railway Company's building is to be resumed under the supervision of Mr. Price, architect, of New York, with whom will be associated Mr. Hammond, of Cleveland. -Mr. C. St. Jean, architect, is calling for tenders for the erection of a Presbytery at St. Mathias.—The Road Committee has given notice that it is proposed to con-struct a sewer on Mount Royal avenue, from Amherst to Maple streets.

TORONTO, ONT Adeputation, among whom were Dr. McKay, of Ingersoll, G. W. Hare, of Tilsonburg, and S. S. Chilton, of Vienna, last week waited on the Provincial Government with the the Provincial Government with the object of revival of the provincial subsidy granted to the Brantford, Norfolk and Port Burwell railway, which was commenced in 1874 but was abandoned after 34 miles had been built. It is now desired to continue the road the remaining 18 miles to Lake Erie, for which a grant of Season per mile is asked—In the report 52000 per mile is asked.—In the report presented at the General Sessions last week, the Grand Jury recommended the enlargement of the Mimico asylum buildings.—Mr. Frank Turner, C. E., of Bracondale, has been appointed chief engineer of the Cobourg, Northumberland and Pacific Railway which is shortly to be built by English capitalists from Cobourg, via Campbellford, to a junction with the Central Ontario and C. P. R. systems, east of Peterboro'.—Building permits have been granted as follows: Consumers' Gas Co., two round brick towers, s. w. corner Berkeley and Front sts., cost \$5,000; C. H. Green, 2 story bk. dwelling, w. side st. George st., above Sussex ave., cost \$6,000, Mrs. Prittie, 2 story bk. addition to dwelling, 70 Terauley st., cost \$1,200.

FIRES.

The general store, post-office and residence of Geo. Mitchell, at Baltimore, Ont., was destroyed by fire last week. The loss is about \$6,000, partly covered by insurance.—Charles Fairbairn's residence at Verulam, Ont., with all contents, was burned last week. Loss \$10,000; insurance, \$4,000.—Ten buildings at Springhill, N. S., were destroyed by fire on the 21st inst. The losers are: W. E. Gilmour, J. F. Robertson, Johnson & Fraser, Frank Bird, W. Farrell and E. Langeville

CONTRACTS AWARDED.

MAIDSTONE, ONT.—John Wortley, of Essey, has been awarded the contract for the erection of a brick hotel in this village for James Hayes.

GUELPH, ONT. — Messrs. Feek & Phillips have secured the contract for the plumbing, etc., at St. Joseph's Hospital. It is the largest contract of the kind yet awarded in this city.

MONTREAL, QUE .-- At the last meeting of the St. Henri Town Council the contract for cement required for building purposes was awarded to Robert & Chouinard. - The Harbor Commissioners have accepted the following tenders for timber and deals required during the coming year round hemlock, hemlock face timber and hemlock deals, W. H. Kelly, Montreal; flat pine, round pine deals, coping pine and pine deals, Shearer & Brown. Montreal; pine face timber, & Brown, Montreal; pine face timber, Valleyfield Lumber Company, Valleyfield.

—A Gendron, architect, has awarded contracts as follows: four houses, corner Dorchester st. and Seymour ave., Gillespie; masonry, Beaucage & Vermette; brickwork, O. Degure; carpenter and joiners' work, Labrecque & Mercure; heating, plumbing and 100fing, Lessard, & Harris; plastering, St. Denis & Co.; painting, M. Bouthellier; ironwork, Canadian Bridge Co. Cottage at Notre Dame de Grace: masonry, T. Dufresne; carpenter and joiners' work, H. Mayer & Son; brickwork, E. Gauthier; painting, M. Bouthillier; plastering, Decary, Decary & Beaudoin; plumbing, heating and roofing, Lessard & Harris. Stable at Stable at St. Henri, for W. Clendenning & Son : carpenter and joiners work, D. plumbing, heating and roofing, J. Giroux; plastering, D. Cyr.

RAISING A BRIDGE.

The raising of a bridge in Switzerland upon the line of the International Railway from Paris to Vienna, has attracted considerable attention from the methods pursued. The occasion for the change was that the river crossed, the Rhine, had lost in the sectional area of the passage between the piers about twenty five per cent, in thirteen years, owing to the deposition of gravel and sediment, while the high water level had risen to such an extent as to pile floating debris 6 ft. deep on the bridge floor in times of flood. The alterations included some re-infercements, besides the raising of the whole structure about 5 ft.

The bridge was continuous over a central pier, and had two main vertical posts there, and four vertical end posts. To each of these posts an inclined strut was attached in a tranverse vertical plane, presenting a surface for the top of a hydraulic jack to act upon. Eight special 100 ton jacks were used, with an 8 in. stroke, and a working pressure of 400

atmospheres, the piston being nearly 0.7 in diameter. The fluid used was a mixture of water, alcohol and glycerine. Sixteen men operated the jacks, their movements being synchronized by a code of signals, designed to secure uniformity The bridge was raised a foot of action. of action. The bringe was raised a noor or two by short litts, followed by thoroughly blocking, and then building under one course of cut stone masonry. The total load was 546 tons, and the maximum load on a single jack was 87 tons. The bridge was raised in four stages during intervals between trains. The longest interval between trains was about two The weight of trains was rigidly restricted during the time the bridge was undergoing repairs, and their speed was hmited to three miles an hour in crossing the bridge. In addition a special block ystem was organized upon that section of the line upon which the bridge is located, so hat operations could be suspended. and the track restored five minutes before the arrival of a train at the site.

PUTTY.

It is generally known that putty is a composition of whiting (carbonate of lime) and raw linseed oil; this, at least, is the commercial putty, such as house painters use. There are usually two grades of putty, one being made of a good quality of whiting and pure raw linseed oil, and the other a mixture that may contain a commercial or low grade whiting, marble dust, fish oil, resin, oil, linseed oil, these or some of these things, and is unworthy the honest name of putty. The best grade works nicely and wears well. The bogus article is short and coarse grained, making it difficult to glaze with, on account of its brittleness, and hard to putty up with, owing to its coarse texture. It does not dry well, does not work well, and does not wear well. It is lower in price than the better article, but the latter is so cheap that there is no excuse for buying marble dust and fish oil putty.

dust and fish oil putty.

The making of putty at the factory is a very simple process. There is a "chaser." a machine consisting of a huge pan and a pair of revolving heavy iron rollers, chasing each other around the pan crushing the lumpy whiting (which is chemically known as carbonate of lime), to which linseed oil is added, after the whiting has been pulverized some, and the whole mass is rolled until perfect and free of lumps. The whiting is weighed and the oil is measured, so much of each to a batch, and when the batch is done the chaser is stopped, and the putty, a good many pounds, is taken out and thrown on a table, to "sweat" out or ripen, an operation requiring about twenty four hours.

It is difficult to get whiting quite dry as it should be, and in the common "commercial," or low grade whiting, the percentage of moisture is quite large. The result of excess moisture is to make the putty flabby and sticky. It is a sort of cousin to pulp lead, which, by the way, is very good in its place. In cheap putty, moisture is not unwelcome, as it prevents the whiting from taking up as much oil as it should, oil being the costly ingredient in putty. Which gued in good putty is kept in a dry room, spread out, and an honest effort is made to have it as clear as possible of water.

I have said that the best putty is cheap enough, and so it is. Some manufacturers consider it utterly unprofitable to make, while others make quite a specialty of it, I infer, as a "leader" to sales of more profitable goods. I used to be amused by a very young and enthusiastic salesman who would tell of his "placing an order for ten tons of putty, to be delivered at stated periods, in lots," because his prices left a margin of profit insufficient to keep his firm from bankruptcy, if they had to depend upon such sales alone. It would pay better to sell one hundred pounds of a fancy coach color than twenty tons of putty, at his prices usual to such

Soft putty the coach and oar painters

tell us, is influenced by the atmosphere, which causes it to bulge out and impair a painted surface. A little litharge would harden the putty. For inside use on white work, a white lead putty must be used, as ordinary putty will show through several white coats. This is made with keg lead and whiting. Old work often requires a putty that will dry quick and sandpaper easily, and stay where it is put. Such a putty can be obtained by mixing dry white lead and brown japan together adding a little rubbing varnish to bind it, and a few drops of turpentine to harden it. Putty should always be dry, if not quite hard, before being covered over with paint, as the oil in the putty is apt to strike through.

Another hard putty might be mentioned however, and it is made from keg lead, boiled oil and spirit varnish, in due proportions. Red lead in place of white lead, will give a still harder putty, useful for brick walls, and such places. For skylights, etc., a little white lead should be added to ordinary putty, which hardens it, while the addition of a little commercial glycerine will make the putty elastic and prevent breakage of glass through contraction and expansion.

VALUABLE WOODS.

Many of the finest woods in existence are yet unknown, or only slightly known, to the manufacturers of wood in the civilized world. The woods of Central and South America are, perhaps, the most remarkable as well as the least known. In the yet untouched forests of this conunent are many woods far finer than any of those now in use. These woods range from pure white to jet black in colour, and many of them are most beautifully marked and veined. Some of them are so hard that they turn the edges of axes, chisels, and tools, while the bands w cuts them only slowly. In the American Exhibition there were many displays of little known woods, and the finest of them were those from Argentine Republic, Brazil, and other South American countries. Some of these southern woods yielded to the teeth of the bandsaw, not the ordinary sawdust but fine powder, fine as the finest flour, so hard were the woods. Some of them burnt but slowly. Others possess qualities that keep them free from Some of them seem to be practically indestructible by air and water. All along the eastern slopes of the Andes, up to the snow line of those great elevations, throughout all the great river valleys, and in some of the wide areas of level country in South America are great forests of fine woods that are specially fit for the finest cabinet and furniture work, and also for shipbuilding, carpentry, and other industrial arts in which wood is the raw material." These great forests are now an unknown quantity in the commercial world but they will come rapidly into the knowledge of men and into the industrial use when once the railroad has reached them. Before many years, it is safe to predict, the South American and American republics will be threaded by railroads, and then those wonderful woods will be drawn upon to supply the demand for new and fine woods in all the civilized countries.

A GERMAN DREDGER.

A pneumatic dredge, used on the lower part of the Weser river during the past summer, is described in a recent number of the Centralblatt der Bauverwaltung. The apparatus has two forms. In one the earth at the bottom of the river is stirred up by a kind of harrow, drawn by a boat, and is forced up from the bottom by means of jets of compressed air which emerge from a cylinder attached to the rear of the harrow and fed through a rubber pipe by a compressor in the boat. The depth to which the teeth of the harrow enter the bottom is regulated by a kind of float. In the second form of dredge, used only for removing very soft bottoms, there is no harrow, and the jets emerge from a cylind-

er provided at the bottom with a scraper to stir up the earth. The principle on which the apparatus works is that after fine material has been driven up from the bottom of a stream flowing with any considerable velocity it will not settle for so long a time that the current will have removed it to a place where it will cause no inconvenience. The use of air for such an apparatus has only been adopted once before, we believe, when it was successfully employed in the harbor of Algiers. Water has been applied for this end a number of times, and the cost of dredging the Tidbury docks is said to have been reduced from £100 to £27 a week by replacing three steam dredges by a pressure water excavator.

POROUS GLASS.—The latest hygienic craze in Paris is the use of porous glass for windows. This is declared to possess all the advantages of the ordinary window framing, and, while light is as freely admitted as through the medium of common glass, the "porous" further admits air, too, the minute holes with which it is intersected being too fine to permit of any draft, while they provide a healthy, continuous ventilation through the apartment.

MUNIGIPAL DEPARTMENT.

REMOVAL OF SURFACE SOIL ON RESERVOIR SITES.

Among the important subjects covered by the last report of the Massachusetts State Board of Health, says the Engineering Record, is that of the effect of surface soil on the waters of a newly-constructed reservoir, in reference to which investigations were made by Prof. Thomas M. Drown. The conditions under which Professor Drown's work was prosecuted were not precisely the same as those which would exist in a reservoir, yet any experi mental work of this character cannot fail to be of much value. Reservoir sites occasionally, or perhaps frequently, include swamp or wooded lands or other ground on which much organic matter has accumulated and it becomes a serious question just how much of such surface a good condition of the water will require to be removed. It is of course evident that the organic earth, so to speak, of the character found in such circumstances as those just named should be wholly removed, as is always done in good engineering practice, but there are other conditions under which the cost of clearing soil may be considerably reduced, if not largely eliminated, by a less thorough removal. Professor Drown made some examinations in a swampy ground in which at a depth of approximately 3 feet the organic matter was reduced to about 2 per cent., which he considers a safe limit in our present state of knowledge regarding the matter.

In the case of clean, dry meadow land, or in such hard and dry soil as is found at many reservoir sites, it is a question whether the surface soil might not safely and properly remain undisturbed except possibly in the shallow portions of the impounded water, and, indeed, as few shallows as possible ought to exist in any reservoir. The safe and proper method of procedure usually is that which involves no hazard, and on that ground it may perhaps reasonably be stated that all surface soil ought always to be removed to such a depth as may be necessary to reach all organic matter. In sparsely populated districts, however, and under circumstances which produce only such organic matter as is found in many thin, and what may be termed healthful, soils free from every-thing of a swampy character, it is difficult to see what pathogenic condition the water over it would suffer from its presence. It is much to be desired that the investigations of the Massachusetts State Board of Health be so extended in this special field as to cover the particular conditions which

have just been considered.

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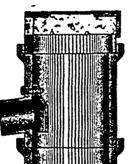
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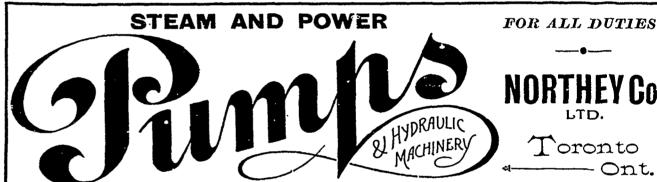
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The only Manufacturers in Canada and Sole Owners of the Canadian Patents of the American CHAMPION ROAD MACHINES CHAMPION ROCK CRUSHER CHAMPION SGEEL ROAD ROLLER

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Viaducts, Piers, Roofs, Turntables and Girders in Steel and Iron.

Tension members forged without welds. Riveting done by hydraulic or compressed air machines. Specialties: Good workmanship and strict adherence to specifications and drawings.

CAPACITY: 2,000 TONS PER ANNUM.

Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: The improvement noted in the hardware business has been maintained, and numerous orders are reported from the upper lakes, to be shipped by boats before the close of Navigation. Trade has fallen off in plumber's supplies, window glass and paints and oils. Galvanized iron is noving freely, and prices are being well maintained at \$4.25 for 38 gauge. A few ton lots of lead pipe have changed hands during the past week, but in general the demand is only for small quantities. Cement quotations are unchanged.

Montreal: The market for builders' supplies remains quiet, and no renewed activity is looked for until the spring. Small lines of hardware are moving freely, and travellers report a brighter feeling among the country dealers. The arrivals of cement at this port for the week ending November 23 were 5,700 casks of English brands, which completes the importations for the present season of navigation. Business is quiet and no large sales are reported. Firebricks are reported in

	Toron		Iontr	eal.
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Buff	900		Lime, Per Barrel, Grey White
Brown	24 00		Plaster, Calcined, N. B
Roman Red	30 00		Hair, Plasterers', per bag.
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Hard building brick	. 6 50	12 00	3d, per 100 lbs
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Credit Valley Grey Coursel per superficial yard Credit Valley Grey Dimer ston, per cubic foot MadocRubbe, delivered, pe toise Madoc dimension floating, o. b. Toronto, per cubic foot Matoc dimension floating, o. b. Toronto, per cubic fo Dhio Freestocae, No. 1 Blu Promiscuous, f.o.b. No. 1 Buff Dimension No. 1 Buff Promiscuous. No. 2 Buff Promiscuous. No. 1 Buff Promiscuous. No. 2 Buff Promiscuous. No.	14 00 14 50 1.	75 14 00 14 50 14 00 14 50 20 00 10 00 6 00 7 50 6 0 6 25 7 50 8 00 10 00 10 12 12 14 6 15 10 12 20 20 12 21 21 21 21 21 20 20 20 12 21 21 21 20 20 20 20 21 21 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Ontario Directory III Queocc Directory ii Architectural Sculptors and Carvers. Holbrook & Molling. ton
Credit Valley Grey Coursel per superficial yard Credit Valley Grey Dimer ston, per cubic foot MadocRubble, delivered, pe toise Madoc dimension floating, o. b. Toronto, per cubic foot Madoc dimension floating, o. b. Toronto, per cubic fo Dhio Freestoes, No. 1 Blu Promiscuous, fo.b. No. 1 Buff Promiscuous. No. 1 Buff Promiscuous. No. 1 Buff Promiscuous. No. 1 Buff Dimension The above prices meat freight and duty paid. 2 in. sawed flagging per 40, 2 in. sawed flagging per 40, 2 in. sawed flagging per 40, 3 in grain to granite for bnilding pu poces, per c.ft. fo.b. quart Granite paving blocks, Sin., per 1 Granite curbing stone, 6 in. 20 in., per lineal foot "purple "ladian, Eng "yellow chrome "Paris Black lamp. Blue, ultramarine Oil, linsced, raw, & Imp. 16 "putty "boiled" "refined, "purty Paris Market, Eng., dry Litharge, Eng "Cement Portland, per hol	14 00 14 50 1. 14 00 14 50 1. 20 32 1. 30 32 1. 11 1. 88 1. 11 1. 13 1.	75 14 00 14 50 14 00 14 50 10 00 10 00 10 00 10 00 10 00 10 17 90 1 00 10 17 10 12 10 10 10 10 17 10	Ontario Directory III Queoce Directory ii Architectural Sculptors and Carvers. Holbrook & Molling. ton
Credit Valley Grey Coursing per superficial yard Credit Valley Grey Dimer ston, per cubic foot MadocRubble, delivered, per toise Madoc Mubble, delivered, per toise Madoc dimension floating, o. b. Toronto, per cubic foot No. : Buf Dimension floating, No. : Buf Promiscuous No. : Buf Promiscuous No. : Buf Promiscuous No. : Buff Promiscuous In a duty paid. 2 : " " " " " " " " " " " " " " " " " "	14 00 14 50 1.	75 14 00 14 50 20 00 10 00 10 00 6 00 7 50 6 00 6 25 7 50 6 00 10 175 90 1 00 10 12 12 13 16 15 20 17 12 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	Ontario Directory III Queocc Directory ii Architectural Sculptors and Carvers. Holbrook & Molling. ton
Credit Valley Grey Coursing per superficial yard Credit Valley Grey Dimer ston, per cubic foot MadocRubble, delivered, per toise Madoc dimension floating, o. b. Toronto, per cubic for the folial promiscuous. f.o.b. No. 1 Blue Dimension No. 1 Blue Dimension The above prices meat freight and duty paid. 2 in. sawed flagging per so, freight and duty paid. 2 in. sawed flagging per so, freight and duty paid. 3 in. """""""""""""""""""""""""""""""""""	14 00 14 50 1. 14 00 14 50 1. 20 32 1. 32 1. 11 1. 85 1. 13	75 14 00 14 50 14 00 14 50 10 00 6 00 10 00 6 00 7 50 6 0 6 25 7 50 8 00 10 00 10 12 14 6 15 20 7 7 12 20 20 12 21 21 36 66 63 75 75 20 12 21 21 36 66 63 75 75 20 12 25 21 21 38 63 65 26 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Ontario Directory III Queocc Directory ii Architectural Sculptors and Carvers. Holbrook & Molling. ton
Credit Valley Grey Coursing per superficial yard Credit Valley Grey Dimer ston, per cobic foot MadocRubble, delivered, per toise Madoc dimension floating, o. b. Toronto, per cubic? Ohio Freestone, No. 1 Blu Promiscuous, f.o.b No. 1 Bluf Dimension The above prices mean freight and duty paid. 2 in. sawed flagging per sq. 2 in. 3	14 00 14 50 15	75 14 00 14 50 14 00 14 50 20 00 10 00 6 00 7 50 6 0 6 25 7 50 8 00 10 00 10 12 12 13 63 65 66 68 75,75 90 10 12 12 18 63 65 66 68 75,75 90 10 12 13 13 15 12 15 12 15 26 285 285 245 290	Ontario Directory III Queocc Directory ii Architectural Sculptors and Carvers. Holbrook & Molling. ton

Toronto. Montre	al.	Toronto. Montreal
Cement, Belgian, per bbl 230 180 2	8 00	Common Barrel Mails.
u Canadian " 230 250 225 2	30	t inch, per 100 lbs 1 50 1 50
" Noman	75	光 !! !! !! 175 75
Earson : 450 475 450 4	75	¥ " " " 2 25 2 23
7011.3	00	CLINCH NAILS.
" Queenston, " 150		inch, per too lbs. 85 85
ii Napanee, ii		3/2 and 23/4 44 44 1 100 100
" Hull, " 1 50 Keene's Coarse "Whites" 4 50 4 75 4 50 4	•	
	75	11/2 and 13/2 " " 1 35 1 35 1 35 1 35 1 35 1 35 1 35
Calcined pluster, per barrel 1 55 1 Fire Bricks, Newcastle, per M 23 00 30 00 16 50 22	70	1 4 250 250
" Scotch " 23 00 50 00 34 00 30		SHARP AND FLAT PRESSED HAILS.
Line, Fer Darrei, Grey 30		3 inch, per 100 lbs. 2 35 2 35
" " White 40		2½ and 1¾ "" " 1 50 I 50
Plaster, Calcined, N. B 200		2 and 2 1 1 1 1 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5
Hair, Planterers', per bag 80 100		1½ and 1½ " " 1 85 1 85 1 85 1 85 1 85 1 85 1 85
		250 250
HARDWARE.		1 300 300
Cut nails, 5cd & 6cd, per keg 2 40 2	25	Steel Wire Nails, 75, 10 and 5 % discount from
Steel 11 11 11 2 50 2	35	printed list.
CUT NAILS, PENCE AND CUT SPIKES.	5	Iron Pipe:
32d. (I II II TA	10	Iron pipe, 3f inch, per foot 6c.
20d, 16d and 12d, hot cut, per		1) 11 95 11 11 7
100 lbs 15	15	11 11 36 11 12 7 11 11 35 11 11 835 11 11 35 11 11 12
rod, ho: cut, per too lbs 20	20	
8d, 9d, 11 11 11 25 6d, 7d, 11 11 11 40	25 40	11 11 12 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4d to sd. " " " 60	60	11 11 135 11 1 . 24 11 11 135 11 11 . 30
TU, 100 1	00	
2d, " " " 150 1	50	Black wrought iron pipe, 671% off above prices. Galvanized 40% Cast and soil 57%
4d to 5d cold cut, not polished		Galvanized 40%
or blued, per 100 lbs 50 3d to 5d cold cut, not polished	50	Cast and soil " 57%
or blued, per 100 lbs 90	go	Lead Pipe:
FINE BLUED NAILS.	•-	Lead pipe, per lb
	50	Waste pipe, per lb
	i ŏo	lots; 30 and 10 % off in ton lots; points east of Toronto,
CASING AND BOX, FLOORING, SHOOK AND TOBACCO E	Box	35 and 10 % off.
NAILS.		Galvanized Iron:
12d to 3od, per 100 lbs 50	ŞO	
100,	60	Adam's—Mar's Best and Queen's Head: 16 to 24 guage, per lb 4½c. 4½c
6d and 7d, " " 00	75 90	26 guage, " 4½ 5
4d to 5d, " " 1 10 1	10	28 " 5 5%
	50	Gordon Crown—
PINISHING NAILS.	_	16 10 24 guage, per lb 4% 4% 26 guage, 4% 4% 4% 4% 4% 4% 4% 4% 4% 4% 4% 4% 4%
inch, per 100 lbs 85	85	26 guage, " 4½ 4¼ 28 " 4½ 5
	1 00	NoteCheaper grades about %c. per lb. less
21027	35	Structural Iron:
175 175 1	75	
1 " " 225 2	25	Steel Beams, per 100 lbs 275 250 11 channels, 11 285 260
SLATING NAILS.	٥.	" angles, " 250 #30
5d, per 100 lbs	85 85	" tees, " 280 205
	25	" plates, " 255 235
	150	Sheared steel bridge plate 225 235
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INDEX TO A1) ()	ERTISEMENTS
In the "Canadian	Arc	chitect and Builder."
	_	

The arrivals of cement at this port f	or Per Load o 11/2 Cubic Yards 1 25 1 25
country dealers. The arrivals of cement at this port is the week ending November 23 were 5,700 casks	of STONE.
English brands, which completes the importations t	or Common Bubble and Asian
the week ending November 23 week 3,700 cashs English brands, which completes the importations in the present season of navigation. Business is quiet as no large sales are reported. Firebricks are reported good demand at prices quoted below. Glass is stead the control lead and into nine, and cut nails a price and cut nails and cut nails.	d Common Rubble, per toise,
to large sales are reported. Firebricks are reported	in delivered
good demand at prices quoted helow. Olass is stead Salvanized iron, lead and iron pipe, and cut nails r	e delivered 18 00 18 00
nain unchanged.	
	Kent Freestone Quarries
LUMBER.	Moncton, N. B., per Cu
CAN OR CARGO LOTS.	ft., f.o.b too
	River John, N. S., brown Freestone, per cu. it., f.o.b. 95
Toronto. Montrea	Ballochmyle 80 90 65 75
2 2 2 2	New York Blue Stone 105
154 to 2 clear picks. Am ins33 00@36 00 40 00@45	co Granite (Stanstead) Ashlar, 6
to 2 three uppers, Am ins. 37 00 40 00 45	23
16 to 2, pickings, Amins 26 00 27 00 30	oo Most Preestone 70 80
inch cleat 52 50 00	Thomson's Gatelawbridge, cu. ft. 75 80
x to and 12 dressing and	Credit Valley Rubble, per car of 15 tons, at quarry 8 00
	C- 12 17-11 15 C
1 x 10 and 12 mill run16 00 17 00 19 18 x 10 and 12 dressing20 00 22 00 18	oo ing, up to to inch, per sup.
2 10 and 12 common	
7 10 and 12 sprice culls 10 00 11 00 10 00 11	∞ Credit Valley Brown Dimen-
t x to and tactills god to oc y	
L. al an u and nicke	oo creat valley Grey Coursing,
inch directing and better2000 2200 1000 20	oo per superficial yard 1 50 2 00 2 15 Credit Valley Grey Dimen
inch siding, common	
inch siding, mill culls 9 00 10 00 8 00 9	toise
Tall scantling 8 00 9 00 8 00 9	Madoc dimension floating, f.
W and thicker cutting UD	o. b. Toronto, per cubic it. 30 32
nlank24 00 20 00 22 00 22	∞ Ohio Freestone, No. 1 Bibe
inchierme I in to H in. Mill	
7mm	No. 1 Blue Dimension 65 No. 1 Buff Promiscuous 80
inch strips, common	M ::
## inch flooring	The above prices means
Se inch nooning	freight and duty paid.
XX shingles, sawn, per M 16 in250 260 260 2	60 2 in. sawed flagging persq.ft. 22
	₇₀ 2∱ u "
ath2 40	
	49 11 11 11 11 22
YALD QUOTATIONS.	55 II II II II 27 1/2 00 65 II II II II II 33
Mill cull boards and scantling 10 00 10	Duty to be added to three
Shipping cull boards, pro-	
miscuous widths	Quebec and Vermont rough
Hemlock scantling and joist	granite for building pur-
up to 16 ft	poses, per c.ft. f.o.b. quarry 33 1 50
Temlock scantling and joist	For ornamental work, cu. it. 35 20
up to 18 ft	co Granite paving blocks, 8 in. to zain. x 6 in. x 4 ½ in., per M 50 00
Hemlock scantling and joist	
up to 20 ft	20 in., per lineal foot 70
edar for block paving, per	∞ SLATE.
cord	. ~
per M	Recting (*9 square).
per M	
	oo untading green 6 50 6 00
" " 20 ft 16 co 16	· hlack 800 760
Scantling and joist, up to 22 ft 17 00 17	Terra Cotta Tile, per 5q 25 00
24 % 900 17	
" " 26 ft 22 00 23 1	20
" " 30 ft 24 00 25	
" " 32 (t 27 00 27	White lead, Can., per 100 llis, 6 25 5 50 6 00 6 25
" " 34 ft 29 50 29	50 " zinc. Can., 11 11 650 750 750 800
" " 361t 3100 311	~ Reg lead, Elik 400 500
" " 18 ft 33 00 33 °	oo " venetian per 100 lbs 160 175 160 175
" " 44 ft 34 00 36 i	0 " vermilion 00 100 00 100
atting up planks, 11/2 and	" Indian, Edg 10 12 10 13
thicker, dry 25 00 28 00 25 00 26	20 Yellow ochre 5 10 4
Dutting up planks, 1% and thicker, board 18 00 24 02 18 00 22	
	90 Green, chrome
В. М.	Black lamp 15 25 12 25
¼ in.flooring, dressed, F M.26 ∞ 30 00 28 00 31	
2 inch thooming, rough, is \$1.18 00 22 00 18 00 22	Oil, linseed, raw, & Imp. gal. 54 59 63 66 68
71 undressed R M 12 co 10 co 12 co 10	oo " " boiled " 57 63 66 68
# # dressed18 co 20 00 18 co 22	00 " " refined, " 78 85 75 75 00 Putty 21/2 21/2 21/2
% inch flooring, rough, B M.18 oo 22 oo 18 oo 22 % inch flooring, rough, B M.18 oo 22 oo 18 oo 22 % inchessed, F M.25 oo 28 oo 27 oo 30 % indressed, B M.18 oo 19 oo 18 oo 19 % if dressed	Putty 2½ 2½ 2½ 2½ 2½ 2½
Seaded sheeting, dressed 20 00 35 00 22 00 35	Whiting, dry, per 100 lbs 75 100 60 75 Paris white, Eng., dry 90 125 90 116
Seaded sheeting, dressed 20 00 35 00 22 00 35 Dapboarding, dressed 12 00 12	Paris white, Eng., dry 90 1 25 90 1 26 Control of the State of th
CXX sawn shingles, per M	Sienna huent.
18 in 260 270 3	00 limber 4
	O OFSERVE LIME etc.
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tors and Carvers.	Owen Sound Portland
Holbrook & Molling-	Cement Co v
Wagner, Zeidler &	Cut Stone Con- tractors.
Architectural Iron- Work.	Isaac Bros II Oakley & Holmes II
B. Greening Wire Co. xii	Chimney Topping.
Dominion Ornamental	Bremner, Alex y
Dominion Bridge Co. I	Carrie&Co.,W &F.P. xii
Meadows, Geo.Bii	Drain Pips
Shipway Mfg Co iv	Bremner, Alex v
Whitfield, John I	Currie &Co., W&F.P. xii
Art Woodwork.	Hamilton and Toronto
Carnovsky Wood Mfg	Sewer Pipe Co ix
Co,*	Maguire Bros i Standard Drain Pipe
Knechtel, SIII	Co II
Wagner, Zeidler & Co.	w
Bricks (Pressed).	Dumb Walters
Beamsville Pressed	Dumb Watters King & Son, Warden xi
Beamsville Pressed	King & Son, Warden xi  Electric and Gas
Beamsville Pressed Brick Co	King & Son, Warden xi
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas
Beamsville Pressed Brick Co	King & Son, Warden xi Electric and Gas Fixtures
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas  Fixtures  Barwell, James 1V
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas Fixtures  Barwell, James
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas  Fixtures  Barwell, James IV  Electric Wiring  Rogers & Doss IV  Elevators
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas  Fixtures  Barwell, James IV  Electric Wiring  Rogers & Doss IV  Elevators  Fenson, John IV
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas Fixtures  Barwell, James
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas Fixtures  Barwell, James
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas Fixtures  Barwell, James
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas Fixtures  Barwell, James
Beamsville Pressed Brick Co	King & Son, Warden xi  Electric and Gas Fixtures  Barwell, James

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Rice Lewis & Son IV	Currie& Co, W &F P xii
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	Standard Drain Pipe Co II
Church and School	
Furniture. Can. Office & School	Gal <u>va</u> nized Iron
Furniture Co ×	Workers.
Carnovsky Wood Mig.	Tucker & Dillon II
Co ×	Douglas Bros II
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Snider, J. B x	Granite
Church Reflectors	Brunet, JosIII
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& Metal Co..... vii
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Plate Glass
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The Consolidated Plate
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Parquetry Floors
Elliott & Son...... 1 Plumbers Ballantyne, James.... ii

Reproduction of Drawings New Color Process Co. vii

TT 42-4 =	Dastona
Heating.	Youleas
Gurney Foundry Co xii King & Son, Warden x	Roofers Douglas Bros II
King & Son, Warden. x	Duthie & Sons. G IT
Ormsby & Co., A. B. I	Hutson, W. D II
Toronto Radiator Mfg	Hutson, W. D II Metallic Roofing Co., vii
	Rennie & Son, R II
Williams, A. R xii	Stewart, W. T II
¥2	Williams & Co., H I
Limo.	Warren Chemical &
Carrie & Co, W &F P. xii	Mfg. Co 11
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•	Roofing Materials Danville Slate Co iv
Legal	Danville Slate Co iv
Legal. Denton & Dods 11	Merchant & Co ii
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п с принципа	Warren Chemical &
B. Greening Wire Co. xii	Mfg. Co I
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	Sanitary Appli-
Mortar Colors and	ances
Shingle Stains.	Dominion Sanitary
	Pottery Co ix
Cabot Samuel, IV	McRae & Co II
Maguire Bros	Sanitas Mfg. Co II
Muirhead, Andrew i	Toronto Steel Clad Bath
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Gilmor & Casey iv	
Paving.	
Cust be Cities	Elliott & Son 1

tree Gimes	
Castle & Son	٧
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	•
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Glass Works	₹
Grimson, G. & J. E	v
Hobbs Mfg. Co	Ÿ
Horwood & Sons, H.	v
McCausland & Son	×
Longhurst, H	¥
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Quesnel, Sharpe & Co.	¥
Ramsay & Son, A	*
Spence & Son, J. C	٧
DP1000 00 400) J. 0111	•
Terra Cotta	
The Raritan Hollow	
THE KERTIER HOLLOW A	

The I	\ar	tan	Cotta Hollow & Co	: ,
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Wall Tie. Mac Machine Co	i
Window Hilade Clatworthy, Ge Lea & Seaman	×
Lea & Scamen	ij,