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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.

### OGTOBER 4, 1894

No. 35

### THE CANADIAN CONTRACT RECORD.

PUBLISHED EVERY THURSDAY

As an Intermediate Edition of the "Canadian Architect and Builder,"

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance.

C. II. MORTIMER, Publisher,

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Advertising Rates on application.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontarlo Association of Architects signified its approval of the CANA DIAN GONTRACT IECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders.

their medium of communication with contractors with respect to advertisements for Tenders.

The following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebeo Association of Architects, held in Montreal, Oct. 10th and 1th, 1899: "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 CONTINAT RECOND afords us a direct communication with the Contractors.—Resolved, that we pledge our support to it by using its columns when calling for Tenders."

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### CONTRACTS OPEN.

CARLETON PLACE, ONT.—The rate-payers have voted in favor of building a new town hall.

ATHERLEY, ONT.—The Methodisc congregation will commence the erection of a new church at once.

ST. PAUL DE CHESTER, QUE.—It has been decided to build a catholic church here, at a cost of \$30,000.

BRACEBRIDGE, ONT .- A new bridge is to be constructed over the river here next spring, at a cost of \$25,000.

BELLEVILLE, ONT. St. Andrews' congregation will build a new church to replace the one recently burned.

SIRATIOND, ONT.—The City Council has decided to proceed with the erection of a fire hall to accommodate also an electric light plant.

HUNTSVILLE, ONT.—Shaw, Cassils & Co. want 100,000 feet of hemlock logs, delivered on shores of Vernon, Fairy or Peninsular lakes.

EGANVILLE, ONT.—It is said that the C. P. R. will this fall survey a line of railway from Eganville to French river, and thence to Spanish river.

LOWVILLE, ONT .- The congregation of St. George's Anglican church has decided to erect a new church building, to cost between \$3,000 and \$4,000.

COLLINGWOOD, ONT.-Fred. T. Hodgson, architect, is preparing plans for a field-stone built stable and barn for Frank E Telfer; estimated cost \$1,200.

BRADFORD, ONT .- The Council is considering the question of submitting a bylaw to the ratepayers authorizing the construction of a system of waterworks.

FORT WILLIAM, ONT .- E. J. Rochon has been in Toronto during the past week with a view to completing arrangements for the erection of his proposed hotel.

TRENTON, ONT .- A by-law has been carried by the ratepayers making a grant of \$6,000 for the construction of an electric power house at the dam on the river north of the town.

ST. THOMAS, ONT .- The street railway is reported to have been purchased by Henry Everett, of Cleveland, who will convert it into an electric road in the

LONDON, ONT. -Hon. J. C. Patterson, Minister of Militia, recently inspected the Wolseley barracks in this city. It is stated to be his intention to have a new wing built to the drill hall for the use of the artillery.

VICTORIA, B. C .- The Dominion Government has commenced a survey of the banks of the Fraser river from Yale to its mouth, in order to devise a suitable diking scheme, that will prevent a repetition of the disastrous floods of last summer.

VANCOUVER, B. C.—Thos. F. McGuigan, City Clerk, will receive tenders until Thursday, the 11th inst., for the constitution of a block pavement on Granville street.

BURLINGTON, ONT.—The Town Council has decided to submit a by-law to the ratepayers to raise sufficient funds to defray the expenses of the proposed improvements along the lake front.

WINNIPEG, MAN .- At a recent meeting of the officials of the west end church, it was decided to recommend to the congregation that the church building be enlarged to twice its present size. The plans have already been prepared.

RAT PORTAGE, ONT .- A by-law is to be submitted to the ratepayers at an early date to raise the sum of \$60,000 for the construction of waterworks and a sewerage system. Plans for the work have been prepared by Messrs. Deacon and Wm. Kennedy, jr., of Owen Sound.

Sr. John, N. B.--The election of a large summer hotel here is under considration by a syndicate of outside capitalists. Charles A. Stockton, barrister, of this city is representing the company, and if a suitable site could be secured, the undertaking will likely be carried out.

KINGSTON, ONT .- W. Newlands, architect, is receiving tenders this week for alterations and additions to two dwellings on Division street.—Power & Son, architects, have prepared plans and are asking for tenders for the election of shops for the Kingston Vehicle Company.

QUEBEC, QUE - The City Council has decided on the erection of a new city hall, to cost \$125,000. It is reported that Mr. Tanguay will prepare the plans.—It is languay will prepare the plans.—It is stated that American capitalists propose to erect a large pulp and paper null at Notre Dame des Anges, on the Lower Laurentian railway. It is further reported that English capitalists will erect another and still more commodious mill a few miles to the west of it, on the projected line of the Great Northern Railway.—Mr. Bruce Price, of New York, has prepared plans for extensive additions and alterations to the Chateau Frontenac hotel.

OTTAWA, ONT.-A petition has been presented to the Board of Works asking for the construction of an asphalt pave-ment on Sparks street. - A representative of the R. H. Smith Manufacturing Com pany, of St. Catharines, was in the city recently looking for a suitable site on which to erect a branch saw factory. Tenders for repairs to the canal at St. Peters, C. B., will be received at the Department of Railways and Canals until Monday the 15th inst. Plans may be seen at the office of the Chief Engineer in this city and at the Superistantian English. this city, and at the Superintending Engineer's office, C. B.—A new school is required for St. George's Ward, and an effort will be made by the representatives to have the necessary amount placed in the civic estimates for 1895.

MONTREAL QUE—The Bell Tele-phone Company have purchased the old

building and lot at the corner of Notre Dame and St John streets, and will erect a large building on the site. The Mon-treal Island Belt Railway has been granted permission by the City Council to construct an elevated railway along the inver-front. - Fenders for the election of additions to the axe factory at Cote St. Paul are invited until the 5th inst. Plans may be seen at the factory. At the last meeting of the Road Committee, the City Surveyor presented a report recommending the construction of a main sewer three miles in length, to drain St. Denis ward and the Northern part of St. Jean Baptiste ward. The cost of the sewer is placed at \$132,000. It was decided to recommend to Council that the work be carried out.— Mr. C. St. Jean, architect, is calling for tenders for a five storey stone workshop to be erected at Outremont for the deaf and dumb institute.

HAMILTON, ONT. The residents of Bartonville will petition the City Council to provide a water supply from the city to that suburb. The cost of the necessary mains is estimated at \$5,000. The East Hamilton Improvement Company will rereamitton Improvement Company will receive tenders for the Carth Cutting and mason work for the Mount Hamilton Incline railway at Wentworth street, up to 10 a.m. on Wednesday, 10th inst. Plans may be seen at the office of C. Carroll, Surveyor and Engineer, 612 James st. south.—Building permits have been granted as follows: Wm. Ayers, two-story brick dwelling in Finer Idd street, but ago brick dwelling on Emerald street, between Barton and South streets, cost \$1,200; Thomas Connors, brick dwelling on Bay street, cost \$1,400.

TORONTO, ONL. R. L. Denison, architect, has completed plans for the enlarge-ment of the church building at Island Park, and the work will be carried out before next spring. Messis, Post & Holmes, architects, of this city, are preparing plans for a R. C. church at Nugara Falls, to cost about \$20,000. They are also carrying out alterations and additions to St. Michael's College. Mr. Ardagh, Chief of the Fire Provide him. the Fire Brigade has again recommended to the Fire and Light Committee the purto the Fite and Light Committee the purchase of a powerful steam fire engine and a chemical engine. He has also recommended that the fire half site on Bay street be disposed of and a suitable location selected for a new central fire station.

At a meeting of the Board of Works held on Monday last the City Engineer reported in favor of laying a number of new sidewalks, at a cost of about \$3,300. Granolithic sidewalks were recommended on Adelaide street, north side, from the Post-office to Church street, cost \$708; Lombard street, north side, from Church street to Victoria street, cost \$1,280; Queen street, south side, from John street to Spadma Avenue, cost \$5,275. In con-nection with the extension of the railway tracks on Avenue road, the City Engineer recommends that the track allowance between Bloor and Davenport road be paved with asphalt or vitrified brick, at a cost of \$15,000, and the track allowance between Davenport road and the C. P. R. tracks

be paved with cedar and granite on concrete, at a cost of \$5,000.—Building permits have been granted as follows. W. H. Essery, det. 2 storey and attic brick dwelling, 150 Cowan ave., cost \$4,000; Copp, Clark & Co., additions to factory, 67 Colborne street, cost \$5,000.

### FIRES.

The residence of S. MacMiers, barrister, of Winnipeg, Man., was destroyed by fire last week. Loss, \$10,000.—J. J. Wood, sash and door factory, Maxville, Ont., has been burned out; no msurance.—J. S. Roddy & Bros. large div goods store at Bradford, Ont., was consumed by fire on the 27th ultimo. The building was owned by Mrs. Edmonson, and was valued at \$3,500: insurance \$1,500. The Royal hotel at Nanamo, B. C., has been destroyed by fire—The grist mill of McIntyre & Cameron, at Clarence, Ont., was burned a few days ago. Loss, \$5,000; partially covered by insurance.

### CONTRACTS AWARDED.

PARRY SOUND, ON1.— Logan & Crodford, of this town, have been given the contract to erect a new hotel at Edgington for John Orr.

BRANDON, MAN.—Alexander Kelly & Co., have let contracts for their new mill as follows: stonework, Chas. Hill; brickwork, Lidster & Bell.

WINNIPEG, MAN.—Charles Wheeler, architect, has let the contract for the new waterworks buildings to Rourke & Ciss. The cost will be about \$5,000.

S1 ANDREWS, N. B.—Stephenson & McKenzie, of St. Stephen, have been awarded the contract for a large addition to the Algonquin hotel. The plans were prepared by Henry W. Nourse, architect, of Boston.

QUEBEC, QUF. -Contracts for the new building of the Montmorency Electric Power Company were last week awarded as follows stonework, Mr. Sharpe, wood and iron work, S. Peters; painting and glazing, Gautier & Freie.

PETERBORO', ONT.—The joint committee of Peterborough and Northumberland counties have awarded the contract for the building of the Wallace Point bridge to the Central Bridge Company, of this place, at \$6,350.—The Town Council has awarded the contract for the construction of an outfall sewer to Robert Grant, of Toronto, at the tender of \$11,270.

MONTREAL, QUL.—The Water Committee has awarded the contract to Garth & Co. for one inch Crown meters, \$22.39, and for six inch at \$785.48. It was also decided to try the Nash meters, at the following prices one inch, \$27.94; six inch \$588.55.—Messrs, Peirault, Mesnard & Venne, architects, have awarded the contract for a wrought iron grille for the entrance to the Banque du Peuple building to J. L. holies & Co., Detroit, Mich.—Mr Elic Minn, architect, has awarded contracts for the erection of stores and dwellings on Common street for Judge Bury as follows: masonry, brickwork and plastering, Dubé & Son; carpenter and joners work, Robr Neville, roofing, Montreal Roofing Co., parlating and blazing, Poirier & Accand.

OTLAWA, ONT. The following are the accepted tenders for the erection of the new Maternity Hospital masonry and brickwork, Mr. Garvock. carpentry, Wm. Ashe; plumbing, McKinley& Northwood; painting, George Howe; electric lighting, Chaudiere Electric Light Co. Torney and Georgeson were the lowest tender for heating, but this matter was left over until a later date. The contracts awarded aggregate about \$7,000, and work will be commenced immediately.—The Weddell Dredging Company, of Trenton are said to be the lowest tenderers for the Lake St. Louis dredging work, and the contract will in all probability be given to that firm.—D. Porter, of Wiarton, has received the contract for improvements in Owen Sound harbor, for which the sum of \$10,000 was voted last session.—The contract for putting in the hot water heating apparatus at

Rideau Hall has been secured by D. Onimet, of Montreal.

### BUSINESS NOTES.

Edmond Roy, plumber, Montreal, has assigned, with habilities of \$8,145.

Webb & Newman, builders, Niagara Falls, Ont., have dissolved partnership.

The stock of J. C. Campbell & Co., painters, of Hamilton, has been sold at 32 cents on the dollar.

The stock of E. A. Maung & Co., founders, Beauharnois and Montreal, is advertised for sale by tender.

John Braden has retired from the firm of John Braden & Sons, plumbers, Victona, B. C. The business will be continued under the style of Braden Bros.

The Stevens & Burns foundry at London, Ont., is again in operation. Mr. Burns has retued, and the firm will be known in future as the Stevens Manufacturing Company.

### COLOURING DRAWINGS.

A correspondent writes as follows: "There still seems to exist among the correspondents of your valuable paper some misunderstanding as to the best and neatest way of colouring architectural drawings; and having a little experience in the matter a few remarks on the manin the matter, a few remarks on the man-ner in which I have been accustomed to colour my drawings may not be amiss, as I think that we should all help each other to the best of our ability. Use as large a brush as possible, as you will then be more likely to succeed in getting a pure wash; whilst with a small brush the colour will be likely to be in streaks. Before mixing any colours, see that the slab is not dusty. Drop some water on the slab from a large brush. Do not rub the paint too heavily or the colour will not be smooth. The colour should be mixed rather thin, as by so doing it will flow easily and evenly. When you have laid on one coat of colour last it don't before pattern on another as you let it dry before putting on another, as you will be likely to make it worse by stirring about in the wet colour. In colouring over a large surface, let your brush be full of thin colour, and wash over the work as rapidly as possible, so as to prevent one part drying before the whole work has been coloured. Colours should not be put in the colour box or case directly after mring colour, as they will stick to the box if put in when wet. Neather should any of the colours be left on the ledge of the box whilst the box is opened, as the cover might fall, by accident, and would then be likely to cruck the colours to pieces. The likely to crush the colours to pieces. The colours most used are crimson lake, light red, Indian red, raw sienna, burnt sienna, indigo, and burnt umber.

### MUNICIPAL DEPARTMENT.

## VENTILATING AND FLUSHING OF SEWERS.

(Continued )

The result aimed at by the use of the sewer ventilators, which are placed purposely at the different elevations, is to freely dilute any noxious vapors that may be generated in them "by causing uncering motion and interchange between the outer aii and the inner sewer," and had we only to deal with the evil-smelling and

poisonous gases generated by the purification of the sewer contents, there can be no question that the creation of constant currents of fresh air through the sewers would, in conjunction with copious flushing, be the correct and only remedy. The less movement of the air of sewers we create the less likelihood will there be of any disease-germs being carried into the outer atmosphere; and one of the greatest faults of the modern system of sewer ventilation is the persistent creation of draughts throughout the length of our sewers. We must aim at comparative stillness of the sewer air and be content to provide small outlets here and there, at high elevations, which shall act solely as safety valves, giving exit to the sewer gas when the internal pressure is greater than that of the atmosphere, and vice versa, admitting air to the sewers when the internal pressure becomes negative. The result of this will probably be that the sewer gas will be more concentrated and therefore more poisonous, resembling, in fact, the gas at the bottom of a deep well, but as it is continued in the course and here but as it is contained in the sewer and has no tendency to leave the sewer, so long as the internal and the external pressures are equalized by these "safety valves" no harm will accrue, provided that when sewer-men wish to enter the sewer they do first flush that portion which they wish to enter, opening at least two adjacent manholes while they flush. Surely it were better to give the sewer-men a little more trouble before entering a sewer, less trouble, in fact, than they would have to take before descending a well, than to persistently mingle with the air we breathe, sewer gases which may and often do carry with them the germs of disease. I know it will be argued that under such circumstances the concentrated sewery ases will be sucked into houses from faulty drains by the aspiration of fires, &c., but if the by-laws relative to the use of the interceptors and all the other restrictions imposed upon builders, whenever drains pass under the houses, are obeyed no such danger could arise; and I can moreover point with confidence to the mortality statistics of those towns which do not ventilate their sewers, as a powerful argu-

ment against this theory.

I may add also that the experience of the recent outhreak of diptheria in this borough, which is practically dependent entirely upon the storm water for the flushing of the sewers, has demonstrated to me the fact that fresh cases occur almost invariably after two or three days of fine dry weather, the germs presumably drying on on the sides of the sewer and being carried by the draughts through the sewers into the atmosphere, and that the occurrence of rainy weather is marked by a temporary cessation of the cases, in spite of the fact that the entrance of the storm water into the sewers forces out some of the gases into the streets and possibly even into some of the houses.

Dr Sidney Davies, medical officer of health for Plumstead, has pointed out a striking comparison between the incidence of diphthetia upon the two sanitary districts of Woolwich and Plumstead. It appears that these two districts are contiguous, Plumstead being in reality merely an extension of Woolwich: the former has a population of 55,000 and the latter 41,000. They are on the same soil, have the same water supply and practically the same milk supply, while the sewage of both

districts is discharged into the Southern London Outfall Sewer. Woolwich has, however, a large proportion of old brick sewers with insufficient fall, while Plumstead has pipe sewers, and is built on the side of a steep hill. The bulk of the houses in each are four or five-roomed, with water-closets outside. Woolwich has a good many slums, and its sanitary arrangements are more in keeping with modern requirements. These two districts are under different sanitary authorities, and consequently while Woolwich has no grid ventilators, and very little sewer ventila-tion of any kind, Plumstead has grid ventilators in every street, and the sewers are also ventilated by shafts. Such being the condition of the two districts, Dr. Davies proceeds to point out that during the past four years, Plumstead with its better sanitary arrangements (bar the grid ventilators) has had three times as many deaths and four times as many cases of diphtheria as Woolwich. Scarlet fever and typhoid fever appear to be equally preva-lent in the two parishes, while diarrhoa, which is due not so much to sewer gases and their constituents as to sewage contaminated soil, is, as would be expected, more prevalent in the Woolwich district where the old brick sewers still exist. Dr. Davies shows that increase of diphtheria in Plumstead is contemporaneous with the introduction of the grid ventilators, while in that part of the district in which exist shafts as well as the grid ventilators, the number of cases is less than where no shafts exist.

The remedy suggested by many for the purification of sewers and the abolition of the nuisance arising from surface gratings flushing with water, and there can be no questions that in addition to the cleaning effects of a sudden rush of water in a closed conduit, that water has immense capabilities of absorption of the sewer gases, and where practicable this is undoubtedly an integral part of the duty of every sanuary authority, although to judge from the re-port of Mr. Mansergh, it cannot be relied upon to abolish the nuisance of surface ventilators. I cannot, however, disregard the fact that this flushing is most essential in hot dry weather, and it is just at such times that many towns are put to great straits to secure a sufficiency for drinking and domestic purposes, and when we see great cities compelled to cut off their water supply for more than half of every twenty-four hours, as several did during the drought of last year, it seems hopeless to rely solely upon flushing for the harmlessness of our sewers, since it is obvious that when most needed the system almost invariable breaks down.

There is less excuse in this respect for such towns as are contiguous to the sea, and I have very little doubt that in years to come these towns will value their potable water far too highly to pour it into their closets and sewers, and that a separate service of sea water, which can be had for the pumping, will be utilized for all such purposes.

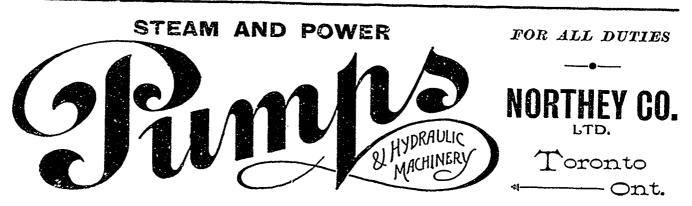
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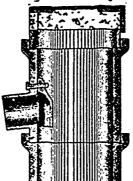
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Tension members forged without welds. Riveting done by hydraulic or compressed air machines. Specialities: Good workmanship and strict adherence to specifications and drawings.

CAPACITY: 2,000 TONS PER ANNUM.

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All communications promptly answered.

### Prices of Building Materials.

CONDITION OF THE MARKET.

Builders supplies for the past week have been somewhat active, and prices are firm. In general hardware a very satisfactory business is reported. The receipts for cement at Montreal for the week ending Sept. 22 were 4,750 batrels. Orders are being received principally for car bits, and prices remain unchanged. Firebricas are steady at from \$15,50 to \$22 per thousand. The mand for iron pipe and galvanired iron is passification in the supplies of the property of the property

LUMBER.

CAR OR CARGO LOTS.

	Toponto	Hantmant
	Toronto.	muntreal.
1 to 2 clear picks. Am ins. 1 to 2 three uppers, Am in 1 to 2, pickings, Amins. 1 inch clear	\$ S	\$ \$
11/2 to 2 clear picks. Am ins.	33 OO(#36 OO	40 00€45 00
13/ to 2 three uppers, Am in	37 00	40 00 45 00
11/2 to 2, pickings, Amins	26 00	40 00 45 00 27 00 30 00
inch clear		52 50 60 00
3 x 10 and 12 dressing an	d	3-30 00 00
t better	. 20 00 22 00	1800 2000
t better	.16 00 17 00	1800 2000
1 x 10 and 12 dressing	20 00 22 00	19 00
		18 00
1 x 10 and 12 sprice culls	13 00 14 00	800 1000
1 x 10 and 12 spruce culls 1 x 10 and 12 culls 1 inch clear and picks	10 00 11 00	10 00 11 00
I inch clear and picks	.900 1000	9 ∞
		33,∞ 35,00
inch siding, mill run	.20 00 22 00	18 00 20 00
inch siding common	.14 00 15 00	1400 1600
inch siding, common	.1200 1300	12 00 14 00
t inch siding, ship culls	.11 00 12 00	10 00 11 00
Cull scartling	9 00 10 00	800 900
all and shirten and	.8co goo	800 goo
t inch siding, ship culls tinch siding, mill culls Cull scantling the and thicker cutting up plank	)	
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inch assiss	1400 1500 1	4 CO 15 00
inch strips, commor	11 00 12 00 1	100 1200
in inch flooring	1600 1700 1	4 00 15 00
inch flooring	1600 1700 1	4 00 16 00
ix inch flooring ix inch flooring ix shingles, sawr, per M	•	
XX shingles, sawn	250 260	260 260
XX shingles, sawn	150 160	160 170
Lath	140	/ .
VALUE ONCE		
Mill cull boards and scantling	ATIONS.	
		10 00
miscuous widths.  Shipping cull boards, stocks Hemlock scantling and joist up to 15 ft.		
Shipping cull boards seeds	13 00	13 00 16 00
Hemlock contline and initial	16 00	16 ∞
and joist		
Hemlock constinu	1 00 12 00	10 00
tremock scatting and joist		
Hemiosk constinue and	200 300 12	100 3 €0
up to 15 ft		•
		300 14 00
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Cedar for Kashina	\$ ∞	500
the Mr. Kerbing, 4 x 14,		•
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Scanning and lost, up to 16 ft	14 00	14 00
18 18	15 00 16 CO	15 00
Santing and the 20 ft	16 CO	6 00
Scantling and joist, up to 22 ft	17 00	17 00
24 ft 16 ft	19 00	10 (0
36 ft	20 00	21 00
26 ft	22 00	33 CO
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32 1t	27 00	27 00
	29 40	29 50
30 18	31 00	31 00
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ed oak	∞ 40 00 30 0 ∞ 45 00 35 0 ∞ 30 00 18 0 ∞ 90 00 70 0	0 30 00

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	Good Facing	6 50 8 00	6 oo 8 so	" Napanee.		
re		8 50 8 00	850 900	Keene's Coarse " Wh	ites"	
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	Pompenan	55 00 51 00	28 00 29 00	8d, 9d, " " " " 4d to 5d, " " " " " 3d, " " " "	× 20	
ŀΕ	Athenian and Egyptian Tyrian	25 00	31 00	4d to 5d, " " "	40	
	olcinan	35 00 40 00	41 00 45 00	3d, " " " "	100	
d.	Roman Carthaginian	35 ↔ 40 00	40 00	4d to 5d cold cut, not no	lished	•
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	1st quality, f.o.b. at Port Credit	14 00	18 00	or blued, per 100 lbs	••••• 90	
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l.	New York Blue Stone Granite (Stanstead) Ashlar, 6	o 60	<sup>6</sup> 5 75 2 05	3d, per 100 lbs		8
00	in. to 12 in., rise oin., per ft.			3d, " "	Rr	8
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