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A Weekly Journal of Advance Information and Public Works.

ITS PURPOSE: TO SUPPLY TO CONTRACTORS ADVANCE INFORMATION RESPECTING CONTRACTS OPEN TO TEN-DER, AND TO ARCHITECTS, ENGINEERS, MUNICIPAL AND OTHER CORPORATIONS, A DIRECT MEDIUM OF COM MUNICATION WITH CONTRACTORS.

ITS MERIT: ECONOMICAL AND EFFECTIVE SERVICE.

Vol. 1.

Toronto and Montreal, Canada, October 4, 1890.

No. 34

THE CANADIAN CONTRACT RECORD,

A Weekly Journal of Advance Information and Public Works,

PUBLISHED EVERY SATURDAY

As an Intermediate Edition of the "Canadian Architect

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Temple Building. Bell Telephone 22,9.

Information from any part of the Do-minion regarding contracts open to tender sent exclusively to this journal for publication, will be liberally paid for.

~~ -- ADVERTISING ARATEL QN-APPLICATION --

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

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



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up till noon on Tuesday, October 7th, for the

CONSTRUCTION OF A SEWER

CONSTRUCTION OF A SEWER
On the North-West branch of the Garrison Creek, extending from Ossington Avenue to Bloor S.reet.
Plans can be seen, and forms of tender obtained at the City Engineer's office, on and after the 30th day of September.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1.000, and 2½ per cent. over that amount, must accompany each and every tender, otherwise it will not be entertained. All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications), or they will be ruled out as informal.

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

JOHN SHAW. Chairman Committee on Works. Committee Room, Toronto, Sept. 16th, 1890.

TO CONTRACTORS.

Tenders will be received at our office until SATUR-DAY, OCTOBER 117H. 189. for the various trades in connection with Alterations and Additions to a house on Carleton Street. The lowest nor any tender not necessarily accepted.

G1BSON & SIMPSON, Architects,

OM Adelaide St. East, Toronto.

TO FRESCO PAINTERS.

Scaled tenders for the Fresceing throughout, interiorly, of St. Michael's Cathedral (decorated English Gothic), Toronto, Ont., will be received by the undersigned till noon, Saturday, 11th prox. The plans, etc., can be seen at my office on and after Friday, 26th inst. The lowest nor any tender will not necessarily be accented.

JOSEPH CONNOLLY, R.C.A., Architect, 54 Church Street, Toronto, Ont.



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to noon on TUESDAY, OCTOBER 7, 1890, for the following works:—

GEDAR BLOCK PAVEMENT

on Dundas street, from Sorauren street to Bloor street.
Plays can be seen, quantities and forms of tender obtained on and after September 29th inst., at the City Engineer's office.

Engineer's office.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent, on the value of the work tendered for under \$1,000, and \$2\text{\$\frac{1}{2}\$}\$ per cent, over that amount, must accompany each and every tender, otherwise it will not be enter twined. All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications), or they will be ruled out as informal.

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

JOHN SHAW. Chairman Committee on Works.

Conmittee Room, Toronto, Sept. 27, 1890-

TENDERS WANTED.

Sealed tenders will be received at the office of the undersigned, or by registered post, up to 5 p. m. on

MONDAY, OCTOBER 20th, 1890.

for the doing of all the work and supplying

All the Material and Machinery for a Complete System of Water-Works,

including the erection of a Pump House with required machinery and appliances, in accordance with the plans and specifications of Willis Chipman, C. E. for the town of Gananoque.

Plans and specifications may be seen at the office of Willis Chipman, Esq., C.E., 103 Bay Street, Toronto, or at the office of Thos, Storey, Esq., Gananoque.

Form of tender can be had on application to the undersigned. I. necessarily accepted. Lowest or any tender not

S. McCAMMON. Town Clerk.

Gananoque, Sept. 24th, 1890.

A CONTRACTOR'S SINGULAR EX-PERIENCE.

A despatch from Ottawa to the daily press says a novel point has been raised in connection with a Government contract. A few weeks ago tenders were asked for by the Marine Department for the removal of an obstruction, consisting of projective timbers or a part of a vessel lying 314 miles south of Point Pelee lighthouse, Lake Erie. This was done at the request of a number of mariners, who pointed out the dangerous character of the obstruction. The contract for removal was awarded to the lowest tenderer two weeks ago, but when the contractor went to carry out the work the obstruction was gone. Search as he would, no timbers could be found, and blank astonishment prevailed in the contractor's mind. When he had recovered from his surprise he sat down and wrote out his account, which he had forwarded to the department. The question now to be decided is. Can the contractor legally be paid? The obstruction is gone, but he did not remove it?

PROCESS FOR KEEPING WALLS DRY.

In a recent issue of the London Architeet, W. L. Dearborn explains Sylvesters process for keeping walls dry. It consists in using two washes or solutions for covering the surface of the walls-one composed of Castile soap and water, and one of alum and water. The proportions are three-quarters of a pound of soap to one gallon of water, both substances to be perfectly dissolved before being used. The walls should be perfectly clean and dry, and the temperature of the air not above 50° Fahr, when the compositions are applied. The first, or soap wash, should be laid on when boiling hot, with a flat brush, taking care to form a froth on the brickwork. This wash should remain 24 hours so as to become dry and hard before the second, or alum, wash is applied, which should be done in the same manner as the first. The temperature of this wash when applied may be 60 or 70° Fahr., and this also should remain 24 hours before a second coat of the soap wash is put on. These coats are to be applied alterna(ely until the walls are made impervious to water. The alum and soap thus combined form an insoluble compound, filling the pores of the masonry and entirely preventing the water from entering the walls.

'CONTRACTS OPEN.

Sr. Jours, Qua. - The town is negotiating for the purchase of the waterworks:

VICTORIA, B. C.—The first \$300,000 for a new system of sewerage has been voted by a large majority.

WOODSTOCK, ONT.—The present exhibition building has been found to be too small, and a new one will probably be erected.

MONTREAL JUNCTION. - Messrs. Cook & Armstrong will erect a \$10,000 modern hotel and restaurant on a site near the station.

KINGSTON, ONT.—Land has been purchased at Thousand Island Park for eighteen cottages and a large club house for the Rochester Club.

MARKHAM, ONT.—Tenders are invited for the debentures for the waterworks and electric light by-laws of the Municipal Council of Markham village.

St. John, N. B.—The Dominion Iron and Steel Company, just incorporated, intends to erect mills here.—The G. T. R. will probably extend their lines in the direction of this city and Halifax.

GANANOQUE, ONT.—The citizens will endeavor to raise \$5,000 to supplement the handsome donation offered by Mr. C. McDonald for the erection of a Mechanics' Institute building. A site near the post office will probably be chosen.

THREE RIVERS, QUE.—A by-law awarding a bonus of \$15,000 to the Basses-Laurentides rail-way company for the construction of a branch west of St. Maurice has been approved by the electors.

WINNIPEG, MAN.—Arrangements are said to have been completed for the erection next spring of a mammoth block, with opera house in rear, on the corner of Portage avenue and Main street. The building is to cost \$300,000.

PETROLIA, ONT.—The ratepayers are to be asked to vote on a bylaw for the purpose of raising \$15,000 to be given by way of a bonus to the Erie & Huron railway for the extension of their line from Dresden, through the village of Oil Springs, to a point in the town of Petrolia.

BROCKVILLE, ONT.—Archbishop Cleary has sanctioned the sale of St. Vincent de Paul hospital and the purchase of a portion of land at the rear of the church, on which to erect a new school; also to convert the present-convent into a hospital, and tuild a residence for the sisters beside the church in connection with the new school, the cost of which will be about \$16,000.

Hamilton, Ont.—The Bank of Hamilton intends efecting a building on the southwest corner of James and Barton streets, to be used as a branch establishment.—Thomas C. Watkins is having plans prepared for the erection of a four-storey building on the site of his present store, Plans will be ready by the first of next year. Mr. Stewart is the architect—The Council is looking about for a suitable site for new exhibition buildings.—As soon as the plans can be got into shape tenders will be asked for the construction of the proposed inclined railway.

PETERBORO ONT.—Mr. J. E. Belcher, Town Engineer, has received instructions from the Edison General Electric Company to prepare the material for the erection of the following buildings here, at once:—Machine shop, 270 x 100 feet; office, 50 x 50 feet; storehouse, 108 x 50 feet; wire department, 270 x 50 feet; tube shop, 270 x 50 feet; pattern and machine shop, 270 x 50 feet. All are to be of brick, two storeys high, with stone foundations.

OTTAWA, ONT.—It has been definitely decided to change the plans and specifications for the Morrisburg canal improvements, and call for new tenders for the work.—It is stated that tenders will shortly be called for by the Railways and Canals Department for the deepening of the Lachine canal from 13 to 15 feet, and also for a system of draining the swamp tand along the canal.—It is understood to be the intention of the

C. P. R. to expend half a million dollars on the road between Ottawa and Port Arthur. The cribbing will be replaced by from work and the wooden culverts by stone.—The Deputy Minister of Marine will receive tenders until the 15th inst, for the construction of a wooden lighthouse tower with keeper's dwelling attached and outbuildings at Peninsula Harbor, Lake Superior.

TORONTO, ONT .- The proposed site for a new registry office on Osgoode Hall grounds, having been found unavailable, the civic authorities are on the lookout for another.-The Minister of Militia is authority for the statement that tenders will shortly be invited for the construction of the new drill shed. Construction will commence this fall.—A concrete bottom will be put in the Rose-dale reservoir.—It is said to be the intention to divide St. Mary's (R. C.) parish, in which event a new church will be built.—The following building permits have been granted: W. Brand, three attached 2-storey and attic bk. dwellings, n. side Victor ave., n. Howland ave., cost \$6,000; Geo. Griffin 134 storey bk. stable, rear cor. Parliament and Wilton ave., cost \$1,000; H. A. Knowles, 3-storey bk. hotel, and two 3-storey brick stores cor. Alexander and Yonge streets, cout \$20,000; Thos: Bailey, additions to shop 292 Queen street west, cost \$1,200, Mrs. Oatley, three 2-storey and attic bk. dwellings, Shannon St., cost \$5,400. -The Board of Health has been ordered to proceed at once with the work of selecting a site and the crection of the new crematory building.—The Sites and Buildings Committee have secured the approval of plans and specifications for four additional rooms at Dovercourt school at a cost of \$9,000, the s notion of a number of improvements to schools and the payment of a rental of \$300 to the managers of the Girls' Home for a new build-

MONTREAL, QUE,-The architects of the city have been invited to submit competitive designs tor an extension of the Montreal General Hospital buildings.-It is proposed to erect two pavilions two stories in height and connected by a third building to be used as an operating A re-arrangement of the existing buildtheatre ing will also be made. The management have in hand \$100,000 for the carrying out of the work .-It is the intention of the Victoria Rifles to erect a monument to the memory of one of their comrades who was accidently shot in 1885. The City has contributed \$250 to enable them to raise the necessary amount. - Sewers will be constructed on Beaudry and Panet streets.-The plans of the proposed Montreal Island Elevated Railway will be submitted for the inspection of the Roads Committee at an early day .- The Diamond Glass Company, recently incorporated, will erect a factory. -An appeal will be made to the city congregations to provide funds for the carrying out of the-work in connection with the proposed new Taylor church.-Soundings have been commenced on He Ronde in view of the projected bridge to Longueiul.-The following building permits have been granted. - Dominion Oil Cloth Company, brick office and factory, cost about \$10,000, Hutchinson & Steele, architects; Chas. H. Lawlor, two 21 storey, brick and stone dwell ings, cost about \$6,000, W. McLea Walbank, architect. Geo. A. Mace, one 3-storey brick and stone house, cost \$3.000, P. N. Picard, architect, Louis Labreeque, one 23 storey wood and brick liouse, cost \$3,000.

CONTRACTS AWARDED.

WINNIPEG, MAN.—The contract for a new emigration shed and offices has been awarded to Messis. Brydon & Charlesworth, of this city

FREDERICTON N. B.—The contract for supplying steam heating apparatus to the new public building has been awarded to Garth & Company, of Montreal.

TORONTO, ONT.—The Toronto Construction and Paying Co. has been given the contract for the laying of an asphalt pavement in Sf. Lawrence Market-square at a cost of \$6,740.

PETERBORO, ONT.—Mr. Arthur Rutherford has been awarded the contract for building a new Church of England mission church in the South ward. The contract price is \$1,850.

PRINCE ALBERT, N. W. T.—S. Meleod has secured a monopoly for ten years of the right to light Prince Albert with electricity, and he purposes establishing electric light works shortly.

Brandon, Man.—Major Stewart, of Otlawa, has refused to sign the contract for the erection of the new city hall and market building and the contract has been let to the next lowest tenderer, F. Cope, of that place.

MONTREAL, QUE.—The Sicilian Asphalt Paving Company has been given the contract to lay took asphalt one inch thick upon a four-inch concrete foundation on the west side of St. Lawrence street, between Craig and Lagauchetiere streets, at \$2.23 per square yard and 49 cents for the curb stone. Messrs, Henry Morgan & Co. were given leave to put down a Val de Travers sidewalk in front of their new block on St. Catharine street, Montreal.

RESONANCE A MEASURE OF ELASTICITY.

Stones having the greatest crushing strength are not always the best for building purposes. The composition of the material, ratio of absorption and elasticity are quite as important. The weakest of stones (limestone, Caen, France,) shows a sustaining capacity equal to the height of 4,253 feet of its own substance; yet some other stones having a crushing strength of four or five times the amount named are nearly worthless for structure above ground, on account of the perishable materials in the composition and the lack of elasticity.

The last-named quality is of vital importance in a climate that has a range of temperature from 20 deg, below zero to 120 deg, above, and which may be subjected to a temperature of 20 deg, below zero on the outside and 70 deg, above on the inside in winter, and in the summer to 65 deg, in the shade on one side, and 120

deg. in the sun on the other.

The presence of carbonate of magnesia is objectionable in stones that are to be used above ground in cities where it can be attacked by the sulphurous gases liberated in the burning of common coal, turning the carbonate into the sulphate of magnesia, which being soluble in water, soon washes out by the moisture absorbed from the atmosphere, first staining the entire wall. But for foundations where they are not exposed to great variations of temperature, or to action of sulphurous gases, they are invaluable, both on account of their great strength and their non-absorbent properties.

The elasticity of a stone and the con-

The elasticity of a stone and the continuity or intimate connection of the particles of which it is composed, is shown in a greater or less degree by its resonant properties, those stones showing the greatest elasticity and transverse strength show also the greatest degree of resonance. Another point worthy of careful inquiry is the effect that tool-dressing has upon the integrity of the stone; from the data given it is evident that tool-dressing has much the same effect upon stone-that repeated hammering has upon rolled or forged iron, reducing the iron from a laminated to apparently a crystaline character.

Droving, bush-hammering and planing by machinery deaden the surface of the stone from which a thin scale is lifted by frost, leaving the sound stone then exposed; and it may be possible to materially injure the strength (transverse), and elasticity of lintels, etc., by an excess of cutting and hammering.—Contractor and Builder.

SIZES-OF LIGHTNING RODS.

Speaking of lightning rods, the Verkehrs Zeitung points out the desirability of making them of sufficient diameter to preclude the possibility of excessive heating. Arago has determined that an iron rod or wire of a diameter of 0.5416 inch will meet this requirement even with the heaviest electrical discharges. In view of the fact, however, that copper, zinc, and even lead wire is sometimes used in the manufacture of lightning rods, the appended table is presented, giving the diameter which should be used for wires of different metals and alloys. It was prepared by Dr. Rothen of the Swiss Telegraph Bureau:

Diameter in inches.

Copper	.384
Platinum	.512
Iron	.494
Zinc	.592
Brass	2.624
Lead c	.848

A FEW WORDS ON FOUNDATIONS AND CHIMNEYS.

The relative merits of brick and stone as materials for cellar walls and foundations have recently been the subject of considerable newspaper discussion, says a writer in the *Building World*.

With respect to the strength of these materials, there is little if any room for preference. A well-built hard brick foundation wall will sustain any superstructure that can be placed upon it. And the same may be said of a first-class stone toundation. The only drawback to the latter is the difficulty which has heretofore prevailed of quarrying stone suitably shaped to make a good bed and bond. If the stones placed in such walls are angular in shape they are rather a source of weakness than strength to the structure. Another reason for the disfavor with which stone foundations have been regarded has been the carelessness of the masons in laying and filling in with stones of all shapes and too much mortar. But it is undoubtedly possible to get suitable stone and labor to lay it so that foundations which cannot be surpassed may be made of that material.

As to the exclusion of moisture, where both kinds of walls are well laid, there is no advantage between brick and stone. If the brick is laid in first-class cement and solidly flushed joints no water can pass, and a good stone wall is equally impervious to moisture, the only problem in this respect being one of honest workmanship.

The best method of constructing chimneys is to build them of hard brick outside and salmon brick lining. The salmon brick should be laid with as small joints as may be to secure proper adhesion of the courses. This may be done by laying eight courses inside to seven outside. Salmon bricks are rather benefitted than injured by the action of heat.

It is a common practice to top off chimneys by a course of stone or a stone cap composed of one or more pieces. So far as the object of this practice is to prevent

the disfigurement of the chimney top by the displacement of bricks in consequence of the disintegration of the mortar by the gases of combustion, it is an unnecessary expense, as the laying of the top course and a few courses below it in Portland cement will make a finish as unsusceptible as stone to the action of those gases or the elements.

In calculating the strength of shop bressummers, care should be taken to allow for the manner in which the load is distributed. When the load is concentrated upon the middle of the bressummer the latter will only carry half as much as it will when its load is uniformly distributed over the whole span. The load upon a shop, bressummer is often assumed to be evenly distributed, whereas the greater portion of the brickwork may be concentrated at or near the middle.

In such cases, a safe and expeditious plan, avoiding elaborate calculations, is to take the weight of the brickwork as an evenly distributed load, without deducting the openings. When closer accuracy is required, it will be convenient to remember the following particulars of stress. Let s = the stress caused by a certain load when concentrated at the middle of a beam; then, if the same load be evenly distributed over the span, this will give a stress equivalent to f on the middle. If the load be divided into two equal parts, and each part be concentrated at one-third of the span, the stress at each of these points will be 4. and the total stress upon the beam will be equivalent to 64 s on the middle. If the load be divided into three equal parts, one part being placed on the middle and one at each side, halfway between the middle and the supports, the stress on the middle will be 4 the stress at each of the other points will be 4 and the beam will be equivalent to 17.5. Building World.

Prices of Building Materials.

AK OR CARGO LOTS.

CAR OR CARGO LOTS.				
13/2 and thicker clear picks. Am. ins	\$30	00/	333	00
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1 x 10 and 12 dressing and better	:8	00	30	00
. x to and 12 mill run	13	∞	14	00
1 x 10 and 12 dressing	14	∞	16	00
1 x 10 and 12 common	12	00	13	00
1 x 10 and 12 spruce culls	10	∞	11	00
1 x 10 and 12 maple culls			9	00
1 inch clear and picks	23	00	30	00
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shingles, per sq			0	00
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square				00
Manitoba painted steel siding, per sq.				50
Painted sheet steel pressed brick			3	50 40
Painted crimped steel sheeting			3	40
Price of Copper shingles according to w	eigi	π.		

Mill cull boards and scantling
Hemlock cantling and joist up to 10 11 11 00 12 00
Scantling and joist, up to 16 ft 14 00
11 14 18 R 13 00 14 14 20 R 17 00 14 14 27 R 19 00
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Cutting up planks, 1 % and thicker, dry 25 00 26 00
Cedar for block paving, per cord 5 00 Cedar for Kerbing, 4 x 14, per M 14 00
1 1/2 inch flooring, dressed, F. M 28 00 31 00 11/2 inch flooring rough, B. M 18 00 22 co
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" undressed 12 00 15 09
Beaded sheeting, dressed
Dad oak as as as as
Cherry, No. 1 and 2
Black ash, No. 2 and 2
Three uppers, American inspection 50 00 BRICK—W M
Common Walling
Sewer
Plain brick, f. o. b. at Milton, per M
Hard Building 8 00 Moulded and Ornamental, per 100 \$3 to 10 00
First quality, f.o.b. at Campbellville, per M 16 00 2nd " 13 00 2rd " 19 00 2r
ard " 10 00 Hard Building 8 00 Ornamental, per 100
Title
Tiles 24 00 Stone.
Common Rubble, Per Toise, delivered 14 00 Large flat " " 18 00 Foundation Blocks, " Cubic Foot 35
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MONTREAL PRICES.	BUILDING STONE DEALERS.		METALLIC LATH.	
Lumber, Etc.	Britnell & Co	II	B. Greening Wire Co	viii
Ash, z to 4 in , N	Bristow Bros	11	MINERAL WOOL	
Basswood	Lyall, Peter	×	Gast & Atchison	
Walnut, per M	Rathbun Co	vi	ORNAMENTAL PLASTERERS.	
Cedar, flat	'Savage, R. D	viii 11	Baker, J. D.	ii
Cherry, per M	Vokes Malcolm Stone Co	ii	riynes Terra Colla & Brick Co	Vi
Elm, Rock 25 00 30 00	CEMENTS.		Whetter, Henry R Wright, Jas	Si ii
Maple, hard, M	Adamant Mfg. Co	yi	Painters.	•
Oak, M 40 00 05 00	McNally & Co., Wm	ix	Dill & O'Hearn	111
Pine, select, M	Maguire, William.,	iv iv	Dunham, Frank T	111
Shipping Culls	Rathbun Co.	vi	Gilmor & Casey	
Mill Culls	Savage, R. D	viii	Polito, T	
Spruce, 1 to 2 inch, M 10 00 12 00	Terry, Edward	iv iii	Taylor, W. J.	iii
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and 11 1 25 1 50	CHURCH AND SCHOOL FURNITURE.	717	Cottingham, Walter H	IV
Cement, etc.	Bennet Furnishing Co	IV ix	Muirhead, Andrew	107
	Pennington & Baker	x	PAVING.	
Portland Cement, per barrel	CHIMNEY TOPPING.		Excelsior Pavement Co	
	Hansen, Harald M	107	Gardner & Co., A	ΪÝ
Cut Nails:	CONTRACTORS AND BUILDERS.		Durous Cement Concrete Pavement Co	×
Hot-cut Am. or Can. pattern, 3 inch and above	Andrews, Francis	11	The Colman-Hamilton Co	106
Hot-cut Am. or Can. pattern, 21/2 inch'	Davidson & Kelly	H	PLASTERERS.	••
and above	Davis, H	11	Dayton, William H	II II
	Davie, George]]]]	Hynes, W. J.	i.
Am. pattern, 1½ and 1½ inch hot-cut 3 5 5 5 60 1½ inch " 4 25 5 80 Can. Pattern, cold-cut, 1½ and 1½ inch 3 23 4 45 "1½ inch	Hood & Co., H	ii	Magill, E. T	- 11
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Finishing Nails, per 100 lb. keg 134 75 cents to 134 inch	Hannah Bros.	ii	Lyon, N. T.	111
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and up	Marshall, John	11 11	PLUMBERS, Bennett & Wright	11
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White Lead, pure, 25 to 100 lb. kegs. 6 50 7 00 No. 1 5 25 5 50	Pudifin, Win	11	PLUMBING SUPPLIES,	::
" No. 2 # 56 5 00	Redmond, Joseph	11	Booth & Son	ii V
" No. 3	Stevens, Chas. H. Thomas & Howell.] [] [Malcolm, W. B	i
Venetian Red, English 1 50 1 75	Webb, John E.	ii	Mitchell & Co., Robert	lV
Yellow Uchre, French 1 25 3 00	CUT STONE CONTRACTORS.		Roofing Materials.	
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" extra, qt., per case 3 00 3 25	ELECTRIC LIGHTING.			
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