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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.

Fol. 2.

Toronto and Montreal, Canada, July 18, 1891.

No. 23

### THE CANADIAN CONTRACT RECORD,

A Weekly Journal of Advance Information and Public Works.

PUBLISHED EVERY SATURDAY As an Intermediate Fdition of the "Caradian Architect and Builder."

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

C. H. MORTIMER, Publisher,

14 KING ST. WEST, . TORONTO, CANADA. Telephone 2362.

64 Temple Building. - Montreal. Bell Telephone 2219.

Information solicited from any part of the Dominion regarding contracts open to tender.

ADVERTISING RATES ON APPLICATION

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

The following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of A: chiteets, held in Montreal, Oct. 10th and 1th, 1890: "Moved by M. Perrault, seconded by A. F. Dunlop, that we the Architects of the Province of Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors,-Resolved, that we pleage our support to it by using its columns when calling for Ten-ders."

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

### Tenders

For the erection of STONE ABUTMENTS to the Bridge over the Humber River about one mile above Weston, will be received up to FRIDAY. 24TH JULY. 1891, by the undersigned, at whose office plans, etc., can be seen.

No tender necessarily necepted.

JOHN T. STOKES, C.E., County Engineer. Court House, Toronto, July 7th. 1861.

# BRIDGE TENDERS.

Tenders will be received by the undersigned up to tao clock noon on SATURDAY, AUGUST 1. 1891, for the construction of a Steel Pile Trestle Bridge over Jeannette's Creek, on the town line between the Townships of Raleigh and Tilbury East, in the County of Kent, according to a plan and specifications on five in the County Clerk's office. Chatham, Ontario. No tender necessarily accepted. A copy of the specifications will be sent on application to parties wishing to tender.

J. C. FLEMING, County Clerk, Kent. July 2, 1291.

### TENDERS WANTED.

Tenders will be received at the office of the undersigned until SATURDAY, AUGUST 157, 1891, for the artizans works required in erection of TWO STONE FRONT HOUSES on Guy Street. The lowest or any tender not necessarily accepted.

J. A. P. BULMAN, Architect, 156 St. James Street, Montreal.

# TENDERS

Will be received until 5 p.m. on TUESDAY, THE 21ST INST., for the various works required in the erection and completion of a

### STONE CHURCH

On Avenue Road, Toronto.

The lowest or any tender will not necessarily be

GORDON & HELLIWELL, Architects, 26 King Street East.



NOTICE TO PAINTING CONTRACTORS.

## TENDERS

Will be received, addressed to the City Engineer, Toronto, on or before MONDAY, 2011 JULY, 1891, for

Scraping and Painting the Huntley Street and Glen Road Bridges.

Alternate prices must be given for one or two-

Any further particulars may be obtained on application at the office of the City Engineer.

City Engineer's office, Toronto, July 13, 1391.



### NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to Eleven o'clock a.m. of TUESDAY, 21ST JULY INST., for the construction of the following

INST., for the construction of the following work:

TRINIDAD ASPHALT PAVEMENT
On St. George Street, from College Street to Bloor Street.

Plans can be seen and forms of tender obtained on and after July 14th inst., at the City Engineer's office.

A deposit in the form of a marked cheque payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1.000 and 2½ per cent over that amount, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications), or they will be ruled out as informal.

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

the lowest or any tender.

JOHN SHAW.

Chairman Committee on Works.

Committee Rooms, Toronto, July 8th, 1891.

The Canadian Contractors' cents to RECORD subscribers. Hand-Book 50

## TENDERS WANTED

Sealed tenders will be received at the office of the undersigned up to 5 p. m.,

SATURDAY, AUGUST 15TH, 1891.
For the furnishing of materials and labor required in the restoration and improving of

## St. Paul's Cathedral, London, Ont.

Whole or separate tenders will be received for

Excavation and Drainage work, Execution and Drainage work, Rubble Stone Work, Cut Stone Work, Carpenter and Joiner Work, Wrought and Cast Iron Work, Painting and Glazing.

Painting and Glazing,
Plastering,
Plastering,
Plumbing, Steam Heating and Ventilating,
Roofing, &c.,
Plans and specifications may be seen at the
office of John M. Moore, Architect, Albion Buildings, London, Ont.
A deposit in the form of a marked cheque, payable to the Church Warden, for the sum of 5 per
cent, of the value of the work tendered for to be
deposited with each and every tender, otherwise
it will not be entertained.
Lowest or any tender not necessarily accepted.
W. J. REID,

W. J. REID, Church Warden.

#### EXPERIMENTS IN PRESERVING TIMBER.

It is a matter of no little scientific interest that, for a considerable period of time, sufficient at least to make the work thorough, some of the German government officials, principally at the wellknown mine Attenwald, near Saarbrucken, have been employed in experiments to ascertain the best means for preserving and protecting mine timbers, both from decay and from fracture by pressure. In connection with the tests to prevent decay in mine timbering, especially such as is exposed to a great amount of pressure, report was made to lime, coal tar, tar and carbolineum, these being used in such a manner as to enable the evperimenters to definitely compare their relative protective value. The results show lime to be the weakest, coal tar preserved the outside of the timber, while the core was found completely decayed; carbolineum preving by far the most effective, leading to its adoption on all the timbering of the upcast in that mine. In carrying this out, the mine timbers made of wood pecled and dried are twice painted over with the carbolineum above the ground, and require each, when 2.5 meters long and of 0.25 meters diameter, a four-fifth kilogram in the first application, and three-fifth kilogram in the second. To prevent the premature breaking of the wall props, after experimenting for some time, it was found that when three or four notches, thirty centimetres deep, had been sawed in the top there was no breakage.

#### CONTRACTS OPEN.

PAISLEY, ONT.—A new bridge is to be erected here at a cost of \$5,000.

NAPINKA, MAN.—It is probable that a grist mill will be erected here.

ATHENS, ONT.—Arrangements will shortly be made to light the town by electricity.

FRELIGHSBURG, QUE.—An iron bridge is to be built across the river at this place,

MORDEN, MAN.—A site has been chosen for the erection of the new masonic hospital.

WALKERTON, ONT. —The Bruce County Council has granted the sum of \$1,500 for a new bridge here.

St. Albans. Que.—The Board of Trade is endeavoring to secure the erection of a straw goods factory.

CHILLIWHACK, B. C.—A large hotel, and a cannery, saw mill and box factory are about to be erected here.

HARWICH, ONT.—A number of drains are to constructed throughout the township of Harwich, at a cost of \$9.905.

Berlin, Ont.—A committee has been appointed to secure plans, specifications, etc., for a system of sewerage.

VICTORIA, B.C.—A number of salmon canning factories are to be erected in the Province by the Victoria Canning Co.

ST. HENRI, QUE,—A by-law has just been passed to borrow \$50,000 for waterworks and street improvements.

SIMCOE, ONT.—A new Roman Catholic Separate School is to be erected in Section No. 2, in he township of Tiny, to cost \$1,400.

WOODSTOCK, ONT.—A new exhibition building is to be erected, at a cost of \$1,500. The building is to be completed before the fall exhibition

DIGRY, N. S.—Mr. A. V. Wade, Town Treasurer, invites tenders for a loan of \$4,000, said sum to be expended in the erection of a school house.

ILDERTON, ONT.—The Episcopalians of this town have completed arrangements for the erection of a new church. Plans are now being prepared.

BROCKVILLE, ONT.—Messrs. H. Mooers & Co. are asking the Council what inducements they will give for the erection of a large flour and catmeal mill here.

MITCHELL, ONT.—Dr. A. D. Smith is about to build a fine new brick residence. It will be a two-story building, Queen Anne style, and will cost about \$2,000.

GODERICH, ONT.—A by-law has been passed by the Council authorizing the issuing of debentures to the amount of \$5,000, for the enlargement of the High School.

FORT WILLIAM, ONT.—Mr. E. Merault contemplates building a large new hotel on Victoria Ave. The main building will be 30 x 40 ft., three stories high, and brick veneered.

\* Springhill, N. S.—Tenders are invited by Mr. J. R. Cowans until the 25th inst. for the supply of stores of various kinds required by the Cumberland Railway and Coal Co.

Welland, Ont.—A company is being organned by Hon. R. W. Scott, of Ottawa, for the manufacture of glass. Should this town grant them a bonus of \$25,000, they will locate here.

NEEPAWA. MAN.—J. J. Richardson will erect a new hotel here. The building will be of brick, 30 x 70 ft., three stories, containing thirty bedrooms, and a basement the full size of the building.

WINNIPEG, MAN.—Messrs. Porter & Roland intend building two solid brick wholesale ware-houses fronting on Arthur and King Sts. Each warehouse will be 33 x 99 ft., and three stories in height.

PORTAGE LA PRAIRIE, MAN.—The residents of Oakville have instructed Mr. J. A. McDonald,

architect, to prepare plans for a new school house,

Mr. E. Hogan is building a large residence on
Louisa Ave.

ST. CATHARINES, ONT.—Tenders will be received by D. B. Rittenhouse, Reeve of South, until the 24th inst. for building a bridge over the river Jordan, on the Q. and G. road, near village of Jordan.

CHARLOTTETOWN, P. E. I.—Tenders are invited by Mr. N. Bell until the 22nd inst. for the erection of a new school house at Belle Creek.—Mr. James Stevenson invites tenders for the erection of a new church at New Glasgow.

INTERNATIONAL BRIDGE, ONT.—Tenders will be received until the 25th inst., by A. A. Coulthurst, Amigari, Ont., for the erection of a brick school house at this place. Plans at Vahey Bros. store, this place, and at the office of Mr. A. H. Mellish, Branttord, Ont.

OIL SPRINGS, ONT.—Tenders will be received by Mr. B. A. Evoy until 8'oclock of the 24th inst., for the erection of a brick church in this village. Plans may be seen at the residence of Mr. Williamson, Oil Springs, and at the office of J. E. Long, architect, St. Thomas, Ont.

GUELPH, ONT.—Mr. Chas. Schmuch will shortly commence the erection of an addition to the City Hotel.—The School Property Committee has been requested to obtain prices and samples of school desks, for the purpose of furnishing the new school rooms now nearing completion.

PETERBORO', ONT.—Plans have been prepared tor the erection of the new building for Messrs. Patterson & Corbin.—A company has been granted a charter for the construction of an electric street railway. The work of laying tracks, etc., is expected to commence at an early date.

HALIFAN, N. S.—The City Engineer has been instructed to have surveys made for the proposed duplicate main pipe line from the chain lakes to the city, and to prepare an estimate of the amount of pipe required.—Extensive repairs are to be made to the Boy's school building.—Tenders will be received by the City Clerk until the 24th inst. for the supply of 3,000 feet of fire hose.

HAMILTON, ONT.—The City Engineer will make an inspection of the territory recently annexed to the city, with a view to determining what sewers and water mains are required.—Water mains are to be constructed on a number of streets, at an estimated cost of \$10,000.—Building permits have been granted as follows: Hamilton Curling Club, bk. curling rink, corner of Robinson and Park streets, cost \$5,000; J. M. Peregrine, 3-storey bk. store, York street, between Queen and Hess Sts., cost \$2,400.

LONDON, ONT.—The Grand Trunk Railway Co, will commence the construction of their line from Glencoc to Kingscourt early in the fall.—The City Enginear has been instructed to call for tenders for block paving Dundas street and Queen's avenue.—Mr. Wm. Joanes invites tenders until this (Saturday) noon, for alterations and additions to the Huron & Erie Loan & Saving's Company's building.—Tenders will be received at the office of the Acting City Engineer until Friday, 24th inst., for the erection of a brick driving shed on the hospital grounds.—Alex. Wilson, Chairman Separate School Board, will receive tenders until the 21st inst. for pairang and kalsomining St. Peter's School.

KINGSTON, ONT .- A new Anglican church will be erected at Clarendon station, on the K. & P. railway.-Sewers will be construsted on the following streets: - Alma street, between A. Herod's lot and York street; Albert street, between Princess and York; James street, between Patrick and Montreal; King street, between William and Earl; Victoria street, from second concession road to Princess.-It is rumored that the University and Metropolitan Clubs of Washington will erect club houses on Channel Grove. The Separate School Board have approved of the plans of Mr. Kelly, of Rochester, N. Y., for the erection of a new school building containing four rooms and a large hall. Tenders will shortly be called for.-The ratepayers will vote on a by-law at an early date to grant the sum of \$42,000 for the proposed new school buildings.—
It is probable that Messrs, Chown & Cunningham will make extensive additions to their works,

MONTREAL, QUE. - The City Clerk will receive tenders until noon of the 29th inst. for the construction of sewers on the following streets:-Lane off No. 230 Dufresne street (projected Nonancourt street): McCord street, from William street to Wellington street; Paterson street, from Burnett street southward about 40 yards: Papineau avenue, from end of existing sewer near the old line of the city limits to Mount Royal Ave. -A petition will be presented to the Dominion Government asking for the erection of a deep water pier at Father Point. The Exhibition Association will erect an addition to the poultry shed .-It is expected that the Sisters Gadbois Convent near Beloiel village, which was destroyed by fire. will be rebuilt .- Permanent sidewalks will be constructed on the following streets:-Place D'Armes Hill on both sides, from St. James street to-Craig street; St. Lambert Hill on both sides, from St. James street to Craig street; Lacroix street on both sides, from Notre Dame street to Craig street; St. Vincent street on both sides. from Notre Dame street to St. Paul street: St. Lawrence street on west side, from Craig street to Lagauchetiere street; St. Lawrence street. east side, widening from Craig street to Lagauchetiere street.-Beaudry street is to be widened to a width of seventy-seven feet between Craig and Notre Dame streets.-Vigar Square is to be extended easterly as far as Campeau street and westerley as far as south line of said square, in St. James and St. Louis Wards.-Mr. J. A. P. Bulman invites tenders in this issue of the RECORD until 1st August for the erection of two sandstone front houses on Guy street, to cost \$12,000. Owing to a typographical error, the cost of these buildings was stated as \$2,000 in last week's RECORD.-Plans are now awaiting the approval of the Governor-in-Council for the construction of the bridge for the Montreal Bridge Company. The bridge will begin in St. Mary's Ward, and the height above water mark is not to be less than 150 feet.

TORONTO, ONT.-It is said to be the intention of Mr. John Douglas, of Huron street, to erect a row of solid brick stores and dwellings in the east end of the city.-The Board of Works have decided to pave thirty-five lanes with cobble stone, at a cost of \$29.503.—Sewers have been recommended on Edmund and Springhurst avenues, stone sidewalks on Albert and Terauley streets, and a grapolithic walk on the east side of Yonge street, from Carlton to Wood street, and on the south side of King street for 75 feet westerly. - Mr. Babbington, architect, Queen street west, has plans ready for several houses on Walmer road and vicinity.-A Committee has been appointed by the Board of Trade to proceed to Montreal to interview the railway companies with respect to the establishment of joint elevators in this city.-Mr. H. Simpson, architect, has sketches made for alterations and enlargement of 914 Adelaide street east.—The city council has notified the ratepayers of their intention to construct the following works: Extension of Queen street west into High Park, cost \$46,000; block pavements on Marion street, from Lansdowne avenue to Macdonnell avenue, cost \$900; Duncan street, from Macdonnell avenue to Sorauren avenue, cost \$2,500; Sulley street, from present north terminus of pavement to College street. cost \$1,300; Henderson avenue, from Clinton street to Grace street, cost \$1,170; widening of present cedar block pavement on King street, from Straeban avenue to Armour street, cost \$2,300; wooden sidewalk on both sides Grosvenor street, from Yonge street to St. Vincent street, cost \$1,800 ; private drains on Dupont street, from Manning avenue to Bathurst street. cost \$1,440.-Mr. Geo. Harper, architect, has completed plans for a large warehouse for Mr. Carlaw.-Mr. C. F. Fraser, Commissioner of Public Works for Ontario, will receive tenders until the 4th day of August next, for the grand

staircase and ornamental galle work, for the interior woodwork and hardware, and for the painting, hardwood finishing, glazing, etc., renuired for new Parliament and Departmental Buildings.-Plans have been prepared by Mr. J. A. Fowler, architect, for a residence in Parkdale for Mr. Kinnear,-The city council has accepted the proposition of Messrs. Marchment & Co. to build a crematory on the Island for the destruction of refuse and night soil.-Mr. W. R. Gregg. architect, is preparing plans for a block of stores on Spadina avenue for Mr. Wantess .- The City Enginee will receive tenders until the 20th inst., for scraping and painting the Huntley street and Glen road bridges.-Mr. Geo. M. Miller has prepared plans for a hotel for Mrs. Devaney, corner Bathurst and Bloor streets.-The Property Committe has recommended that a site be purchased on Pape avenue for the erection of a new fire station.-Messrs. Post & Holmes, architects, of this city, have prepared plans for an Episcopal Church at Muskegon, Mich. - Tenders are wanted for carpenter work of four houses. Plans at 141 Yorkville avenue. - On the 16th inst. the citizens sanctioned the by-law to expend the sum of \$300,000 on the improvement of the Esplanade, including the erection of a large Union Station.-Royce avenue, St. Mark's Ward, is to be opened out to a width of 65 feet .- The following building permits have been granted: W. S. Thompson, additional 3rd storey of brick and mansard roof, 914 Adelaide St. e., cost \$10,000; Edgar A. Wills, det. 2-storey residence, cor, Gwynne and Collier Sts., cost \$4,200; Edgar, Williams & Edgar, three att. 2-storey bk. dwellings, c. side Lippincott St., between Nassau and Oxford Sts., cost \$3,600; Wm. Luke, 2-storey and attic bk. dwelling, w. side Dowling Ave., n. of King St., cost \$4,000 ( Ino Brickley, det. 2-storey and attic bk. store and dwelling, and 1-storey and mansard bk, stable, n. w. cor. Ossington, Ave. and Hepbourne Sts., cost \$7,000; Temperance League Coffee House Co., 3-storey bk. coffee house, s.w. cor. Elm and Tentuley Sts., cost \$19,000; Ferguson Bros., five att. 2-storey b. f. dwellings, w. side Bolton Ave., next to fire hall, cost \$7,000; W. R. Clarke, to bk. case 61 and 63 Hazelton Ave., and stone foundations under same, cost \$2,800. J. Baker, four att. 2. storey bk, stores, e. side Dundas St., nr. Arthur St., cost \$12,800; Wm. Totton, pr. s.d. 2-storey and attic bk. dwellings, n. side Harvard Ave., nr. west end, cost \$6,000.

### CONTRACTS AWARDED.

LISTOWEL, ONT.—The contract for the erection of the new furniture factory has been awarded to Mr. J. Large, of this town. Mr. Large's tender was \$8,000.

TORONTO, ONT.—The Board of Works has awarded contracts for cedar block pavements on Kensington avenue to A. J. Brown, for \$1,150, and on Christie street to Robert Grant, for \$6,247.

WATFORD, ONT.—The contract for the heating apparatus for the High School has been awarded to Dodds Bros., at the price of \$270. The furnaces to be supplied are manufactured by Clare Bros. & Co., of Preston, Ont.

KINGSTON, ONT.—Mr. Brooks has been awarded the contract for the carpenter work for the extension to the House of Providence, and Mr. Geo. Newlands the masonry.—Contracts in connection with the improvements to the city buildings have been awarded as follows: Plumbing, Messrs. Nugent & Taylor; painting, S. J. Kelly.

### INFLUENCE OF TITANIC ACID UPON THE FUSIBILITY OF REFRAC-TORY CLAYS.

According to H. Seger, 100 parts of zettlitz kaolin, which contains 98.5 per cent. of pure clay substance, were, on the one hand, thoroughly mixed with 5 or 10 per cent. of silicia acid, and on the other, with an equivale. t quantity of titanic acid. The mass was then shaped into small

cones and heated in a crucible in a Deville blast furnace to a temperature between the melting heat of wrought iron and platinum. After heating the zettlitz kaolin was white, almost completely condensed, translucent on the edges, its shape completely preserved and sharp edged with a dull surface. 100 parts of zettlitz kaoline with 5 parts of silicic acid were snow white, somewhat absorbent, translucent on the edges, with a porcelain-like fracture, shape completely preserved, surface dull. 100 parts of zettlitz knoline with 10 parts of silicic acid were snow white, somewhat more absorbent than the preceding, translucent on the edges, almost as dense as porcelain, with a dull surface. The cone of 100 parts of zettlitz kaolin with 6.65 titanic acid was somewhat laterally inclined, the fracture was densely slagged, the surface dull glazed and dark blue grey. The sample of 100 zettlitz kaolin with 13.3 titanic acid appeared completely shrunk together to a dark blue gray drop of enamel. According to this, titanic acid acts as a decided flux already at temperatures at which silicic acid has still a loosening effect, and, hence, in analizing refractory clays more attention than heretofore has to be paid to the presence of titanic acid. Remarkable is the dark gray blue coloration acquired by the samples mixed with titanic acid; it calls to mind the blue gray coloration which many clays acquire by strong burning .- Brickmaker.

## Prices of Building Materials.

LOMBER.

CUM ON CUMOU POTO!				
1½ and thicker clear picks, Am. ins. 1½ and thicker, three uppers, Am ins. 1½ and thicker, pickings, Am ins. 1 x 10 and 12 dressing and better	18	 	37 27 20	8000
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### Metallic Roofing Co. of Canada:

	Per S	quare.
Eastlake steel shingles (galvanized), : Eastlake steel shingles (painted)	\$2 25 8	o \$5 75
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vanized)	5 00	5 75
Improved Broad Rib Roofing (painted)	3 50	4 00
North Western steel siding (painted)	3 25	3,0
Manitoba steel siding (painted)	3 25	3 50
Metallic Finished Brick	3 25	3 50
vanized)		6 25
Tower or Mansard shingles (painted)		4 50
Metallic Terra Cotta Tiles		. 7∞
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Basswood, No. 1 at	0d 2 18 00	20 00
White ash, No. 1 2	nd 2	25 00
Dressing stocks	16 00	23 00
Picks, American it Three uppers, Ame	rican inspection	40 00 50 00
	RICK—W M	
Common Walling.		\$7 50
Sewer	8 5	900
Pressed Brick:		
Plain brick, f. o. b.	at Milton, per M	\$18 00
" " 3rd		14 00 10 00 8 00
Moulded and Orna	imental, per 100 \$3 to	8 00
Roof Tiles Diamond locking ti	inental, per 100 \$3 to	74 00 10 00
First quality, f.o.b.	at Campbellville, per M	18 00
2110		14 00
Ornamental, per 10	∞,. \$3 t	10 10 00
	••••••••	24 00
Stone.		
Stone. Common Rubble,	Per Toise, delivered	14 00 18 00
Stone.  Common Rubble, Large flat " Foundation Block	Per Toise, delivered	14 00
Stone. Common Rubble, Large flat "Foundation Block' Slate: Roofing (F	Per Touse, delivered	14 00 18 00 50
Stone.  Common Rubble, Large flat "Foundation Block's State: Roofing (Figure 1) Pure 1	Per Touse, delivered  s, " Cubic Foot  square).  the square of the sq	14 00 18 00 50
Stone.  Common Rubble, Large flat Foundation Block Slate: Roofing (F	Per Touse, delivered  " Cubic Foot  I square).  I change green	14 00 18 00 50 18 00 9 00 9 00
Stone.  Common Rubble, Large flat Foundation Block Slate: Roofing (F	Per Toise, delivered  s, " Cubic Foot  square).  I.  tading green	14 00 18 00 50
Stone.  Common Rubble, Large flat " Foundation Block* Slate: Roofing (** " red " pu" " un' " that Terra Cotta Tile, Ornamental Black Sand:	Per Toise, delivered  s, " Cubic Foot  square).  I.  rple	14 00 18 00 50 18 00 9 00 9 00 7 75 25 00 8 25
Stone. Common Rubble, Large flat Foundation Block Slate: Roofing (# red " red " pu" " un' " bla Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 50 18 00 9 00 9 00 7 75 25 00
Stone. Common Rubble, Large flat "Foundation Block" State: Roofing (** " pu un' " un' " Terra Cotta Tile; Ornamental Black Sand: Per Load of 1% C	Per Toise, delivered  s, " Cubic Foot  l square).  tading green	14 00 18 00 50 18 00 9 00 9 00 7 75 25 00 8 25
Stone. Common Rubble, Large flat "Foundation Block" State: Roofing (** " pu un' " un' " Terra Cotta Tile; Ornamental Black Sand: Per Load of 1% C	Per Toise, delivered  s, " Cubic Foot  l square).  tading green	14 00 18 00 50 18 00 9 00 9 00 7 75 25 00 8 25
Stone. Common Rubble, Large flat "Foundation Block" State: Roofing (** " pu un' " un' " Terra Cotta Tile; Ornamental Black Sand: Per Load of 1% C	Per Toise, delivered  s, " Cubic Foot  l square).  tading green	14 00 18 00 50 18 00 9 00 9 00 7 75 25 00 8 25
Stone. Common Rubble, Large flat "Foundation Block' State: Roofing (** " pu" " un' " pu' " un' " Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIR White lead, Can " zinc, Can " zinc, Can " venetian	Per Touse, delivered  s, "Cubic Foot  square).  Imple	14 00 18 00 50 18 00 9 00 9 00 7 75 25 00 8 25
Stone. Common Rubble, Large flat Foundation Block State: Roofing (**  "red "pu" "block Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIN White lead, Can "xinc, Can Red lead, Eng "venetian "venetian "venetian "lodian, Eng "Indian, Eng	Per Toise, delivered  s, "Cubic Foot  square).  I.  rple	14 00 18 00 9 00 7 75 25 00 8 25 1 25 5 6 50 6 7 50 4 7 50 4 7 50 1 7 50
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (# red " red " un' " un	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 00 8 25 1 25 1 7 50 2 6 7 50 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (# red " red " un' " un	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 00 2 7 75 2 7 50 2 7 7 7 50 2 7 7 7 50 2 7 7 7 50 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (# red " red " un' " un	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 00 7 75 25 0 1 25 1 25 1 25 1 7 50 2 7 50 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (# red " red " un' " un	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 02 8 25 1 25 1 750 2 1 750 2
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (# red " red " un' " un	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 05 8 25 1 25 1 25 1 25 1 20 1 100 1
Stone.  Common Rubble, Large flat Foundation Block  Slate: Roofing (# red "	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 02 27 7 50 27 7 7 50 27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone. Common Rubble, Large flat Foundation Block State: Roofing (**  " pu " p	Per Toise, delivered  s, " Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 0 8 25 1 25 1 25 1 7 50 20 20 20 20 21 20 21 22 23 24 25 25 27 27 27 27 27 27 27 27 27 27
Stone. Common Rubble, Large flat Foundation Block State: Roofing (**  " put " but " put " but " put " but " put " but " put " put " put " but " put "	Per Toise, delivered  s, " Cubic Foot  l square).  it to	14 00 18 00 9 00 7 75 25 0 8 25 1 25 1 25 1 7 50 20 20 20 20 21 20 21 22 23 24 25 25 27 27 27 27 27 27 27 27 27 27
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (**  " red " pu " un " u	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 2 8 25 1 25 6 50 17
Stone.  Common Rubble, Large flat Foundation Block  Slate: Roofing (**  " red " pu " un  Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " venetian " venetian " venetian " lindian, Eng. " venetian " lindian, Eng. " vellow ochre Yellow chrome Green, chrome "Paris "Black, lamp Blue, ultramarine. Oil, linseed, raw (\$\omega\$ " " refinee  Putty Whiting, dry Paris white Eng., Litharge, Am., Sienna, burnt Umber, "  CEMI  Lime, Per Bartelo	Per Toise, delivered  s, "Cubic Foot  l squars).  I	14 00 18 00 9 00 7 75 25 0 8 25 1 25
Stone. Common Rubble, Large flat Foundation Block Slate: Roofing (**  " red " pu " un' Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIN White lead, Can " rinc, Can. Red lead, Eng " venetian " venetian " venetian " lindian, Eng. " venetian " lindian, Eng. " vellow ochre " Yellow ochre " Yellow chrome Green, chrome Green, chrome Oil, linseed, raw (6 " " boiled " " refinee Putty Whiting, dry Paris white Eng., Litharge, Am., Sienna, burnt Umber, " CEMI Lime, Per Bartel o	Per Toise, delivered  s, "Cubic Foot  l squars).  I	14 00 18 00 9 00 7 75 25 25 1 25 6 50 7 75 25 25 1 25 1 25 1 25 2 20 2
Stone. Common Rubble, Large flat Foundation Block Slate: Roofing (**  " red " pu " un' Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIN White lead, Can " rinc, Can. Red lead, Eng " venetian " venetian " venetian " lindian, Eng. " venetian " lindian, Eng. " vellow ochre " Yellow ochre " Yellow chrome Green, chrome Green, chrome Oil, linseed, raw (6 " " boiled " " refinee Putty Whiting, dry Paris white Eng., Litharge, Am., Sienna, burnt Umber, " CEMI Lime, Per Bartel o	Per Toise, delivered  s, "Cubic Foot  l squars).  I	14 00 18 00 9 00 7 75 25 25 1 25 6 50 7 7 57 25 25 1 25 1 20 1 20 2 20
Stone.  Common Rubble, Large flat Fondarion Block  Slate: Roofing (**  " red " pu " un " un " la Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " zinc, Can " vermillion " vermill	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 0 8 25 1 25 1 7 50 2 7 7 7 50 2 7 7 7 50 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone.  Common Rubble, Large flat Fondarion Block  Slate: Roofing (**  " red " pu " un " un " la Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " zinc, Can " vermillion " vermill	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00 9 00 18 00 9 00 7 7 7 5 2 8 2 5 1 2 5 6 5 0 7 5 0 5 0 7 7 5 2 1 2 0 0 1 2 1 2 0 0 1 2 1 2 0 0 1 2 1 2
Stone. Common Rubble, Large flat Foundation Block State: Roofing (**  Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIN White lead, Can " zinc, Can. Red lead, Eng " venetian " venetian " venetian " lindian, Eng. " venetian " lindian, Eng. " venetian " venetian " venetian " refinee Green, chrome Green, chrome Oil, linseed, raw (6) " " refinee Utty Whiting, dry Paris white Eng., Litharge, Am., Sienna, burnt Umber, " Plaster, Calcined, " " Plaster, Calcined, " " " " " " " " " " " " " " " " " " "	Per Toise, delivered  s, "Cubic Foot  l square).  i. rple	14 00 18 00 9 00 7 75 25 25 1 25 2 5 6 50 2 7 7 7 50 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone. Common Rubble, Large flat Foundation Block State: Roofing (**  Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIN White lead, Can " zinc, Can. Red lead, Eng " venetian " venetian " venetian " lindian, Eng. " venetian " lindian, Eng. " venetian " venetian " venetian " refinee Green, chrome Green, chrome Oil, linseed, raw (6) " " refinee Utty Whiting, dry Paris white Eng., Litharge, Am., Sienna, burnt Umber, " Plaster, Calcined, " " Plaster, Calcined, " " " " " " " " " " " " " " " " " " "	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00 9 00 18 00 9 00 7 7 7 5 2 8 2 5 1 2 5 6 5 0 7 5 0 5 0 7 7 5 2 1 2 0 0 1 2 1 2 0 0 1 2 1 2 0 0 1 2 1 2
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (**  " red " pu " un  Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " refined " refined " Paris Black, lamp Bluck, lamp Bluck, lamp Bluck, lamp Bluck, lamp Creen, refined Putty " boiled " refined Putty " boiled " refined " refined " boiled " hutly " boiled " hutly " boiled " refined " boiled " refined " hutly " refined " refin	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00 9 00 7 75 25 25 1 25 2 5 6 50 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (**  " red " pu " un  Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " refined " refined " Paris Black, lamp Bluck, lamp Bluck, lamp Bluck, lamp Bluck, lamp Creen, refined Putty " boiled " refined Putty " boiled " refined " refined " boiled " hutly " boiled " hutly " boiled " refined " boiled " refined " hutly " refined " refin	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (**  " red " pu " un  Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " refined " refined " Paris Black, lamp Bluck, lamp Bluck, lamp Bluck, lamp Bluck, lamp Creen, refined Putty " boiled " refined Putty " boiled " refined " refined " boiled " hutly " boiled " hutly " boiled " refined " boiled " refined " hutly " refined " refin	Per Toise, delivered  s, "Cubic Foot  l square).  I	14 00 18 00 00 18 00 00 775 28 25 1 25 0 5 7 7 5 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7
Stone.  Common Rubble, Large flat Foundarion Block  Slate: Roofing (**  " red " pu " un bla Terra Cotta Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " rinc, Can " vernillion " vernillion " vernillion " lodied the flag " vernillion " vernillion " lodied flag " vernillion " refinee " Paris Black, lamp Bluc, ultramarine. Oil, linseed, raw (for the flag " boiled " " refinee Putty Whiting, dry Paris white Eng Litharge, Am, " boiled " " ffinee " boiled " " ffinee " " boiled " " Thorold, " " " CEMI  Lime, Per Barrel o  Plaster, Calcined, " Thorold, " Queenstoo " Napanee, " Hull,  Cut Nails: American Pattern, " " " " " " Canadian Pattern, "	Per Toise, delivered  s, "Cubic Foot  l square).  I. ""  lading green	14 00 18 00
Stone.  Common Rubble, Large flat Foundation Block  Slate: Roofing (**  " red " pu " un bla Terra Cotts Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " rinc, Can " vermillion " Venetian " vermillion " vermillion " lindian, Eng " venetian " vermillion " lindian, Eng " vermillion " Paris " boiled " refinee Putty " boiled " refinee Putty " boiled " refinee Putty " boiled " refinee " bo	Per Toise, delivered  s, "Cubic Foot  l square).  It pole  lading green  lading gr	14 00 18 00 00 00 18 00 00 00 00 00 00 00 00 00 00 00 00 00
Stone.  Common Rubble, Large flat Foundation Block  Slate: Roofing (**  " red " pu " un bla Terra Cotts Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " rinc, Can " vermillion " Venetian " vermillion " vermillion " lindian, Eng " venetian " vermillion " lindian, Eng " vermillion " Paris " boiled " refinee Putty " boiled " refinee Putty " boiled " refinee Putty " boiled " refinee " bo	Per Toise, delivered  s, "Cubic Foot  l square).  It pole  lading green  lading gr	14 00 00 18 00 00 00 00 00 00 00 00 00 00 00 00 00
Stone. Common Rubble, Large flat Foundation Block Slate: Roofing (**  " red " pu " un' Terra Cotta Tile, Ornamental Black Sand: Per Load of 1½ C  PAIN White lead, Can " venetian " venetian " venetian " venetian " venetian " venetian " lidian, Eng. " venetian " lidian, Eng. " venetian " lidian, Eng. " venetian " indian, Eng. " venetian " indian, Eng. " venetian " indian, Eng. " venetian " boiled "	Per Toise, delivered  s, "Cubic Foot  leguare).  It proper sq.  Slate Roofing  WTS. (In oil, \$\Pi\).  Slate Roofing  VTS. (In oil, \$\Pi\).  Slate Roofing  4 [10]  Slate Roofing  WTS. (In oil, \$\Pi\).  Slate Roofing  4 [2]  Slate Roofing  6 [2]  Slate	14 00 18 00 00 00 18 00 00 00 00 00 00 00 00 00 00 00 00 00
Stone.  Common Rubble, Large flat Foundation Block  Slate: Roofing (**  " red " pu " un bla Terra Cotts Tile, Ornamental Black  Sand: Per Load of 1½ C  PAIN  White lead, Can " rinc, Can " rinc, Can " vermillion " Venetian " vermillion " vermillion " lindian, Eng " venetian " vermillion " lindian, Eng " vermillion " Paris " boiled " refinee Putty " boiled " refinee Putty " boiled " refinee Putty " boiled " refinee " bo	Per Toise, delivered  s, "Cubic Foot  l square).  It pole  lading green  lek slate  Slate Roofing  WTS. (In vit, \$\mathbf{b}\)  62  63  63  63  64  75  64  77  65  67  68  68  68  69  60  60  60  60  60  60  60  60  60	14 00 00 18 00 00 00 77 75 30 18 00 00 00 77 75 30 18 00 00 18 00

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Luniber, Ela, Ash, 1 to 4 in, M	Alkenhead & Crombie		Muirhead, Andrew	xvi
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Basswood	Adamant Mfg. Co		Excelsior Pavement Co. Forsyth, Robert.	xlil
Butternut, per M	Magnine William	jv V	Gardner & Co., A	IV
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Elm, Rock	Rathbun Co		Fox, R. B	II 1
Maple, Soft	Terry, Edward	(V VII	Littleford & Thorne Watson Bros	II II
Pine, select, M	CHURCH AND SCHOOL FURNITURE.	•••		••
Mill Culls 8 00 10 00	Canadian Office & School Furniture Co	хi	PLATE GLASS, McCausland & Son	v
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Spruce Cults	The Globe Furniture Co		PLUMBERS.	
	CHIMNEY TOPPING.		Bennett & Wright	III vi
Coment, etc. Portland Cement, per barrel \$ 2 70@ 3 00	Hansen, Harald M Consulting Engineer.	ix	Plumbing Supplies.	••
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Cut Naits:	CONTRACTORS AND BUILDERS.		Garth & Co. Malcolm, W. B.	xv i
Hot-cut Am. or Can. pattern, 3 inch	Andrews, Francis		Sanitas Mig. Co	٧
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Finishing Nails, per 100 lb. keg, 13/	Lyall, Peter	iii II	ROOPERS.	
Finishing Nails, per 100 lb. keg, 13/ and 13/ inch. 4 50 Finishing Nails, per 100 lb. keg 13/	Thomas & Howell	11	Baird Bros Duthie & Sons, G.	ı
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White Lead, pure, 25 to 100 lb. kegs. 6 00 7 00	Isaac Brothers	II	Saulter, Wm. Shales, John H	]]
" No. 2 4 50 5 00	Oakley & Holmes	11	Stewart, W. T.	II
" No. 1. 400 4 50 dry. 525 575  Venetian Red, English 150 175  Yellow Ochre, French 123 300  White Lordon unable 36	ELECTRIC LIGHTING. Anderson & Co., A. T	ii	Toronto Roofing Co	11
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" machinery 95 1 05 " extra, qt, per case 3 00 3 25	ENGRAVERS. Canadian Photo-Eng Bureau	xiii	SANITARY APPLIANCES.	^''
" pts., " 2 50 2 60	Commenter there and amount the state of			_
" ½ pis., " 2 75 3 10			Booth & Son	v
" machinery 95 1 05 " extra, qt, per case 3 00 3 25 " extra, qt, per case 2 0 2 60 " pts., " 2 50 2 60 " ½ pts., " 2 75 3 10 Spirits turpentine 0 67 0 70	Colman-Hamilton Co	iii	Sanitas Míg. Co	٧
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