Technical and Bibliographic Notes / Notes techniques et bibliographiques

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This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

VOI., 9.

NOVEMBER 2, 1898

No. 40.

THE CANADIAN CONTRACT RECORD.

PUBLISHED EVERY WEDNESDAY

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

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

C. H. MORTIMER PUBLISHING COMPANY of Toronto, Limited, Publishers,

CONFEDERATION LIFE BUILDING, TORONTO. Telephone 2362.

Branch Office:

New York Life Insurance Building, Montreal, Rell Telephone 2299.

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

Advertising Rates on application.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publisher of any irregularity in delivery of paper.

Tenders Wanted

Sealed tenders, addressed to Thos. Anderson, Esq., Comber, Ont., will be received up till 12 o'clock, noon, on

FRIDAY, THE 4TH DAY OF KOVEMBER, 1898,

for the furnishine, erecting, etc., of TWO STEEL HIGHWAY BEIDGES over Big Creek, in the Township of Tilbury West.

General plans and specifications may be seen at the office of Thos. Anderson, F. q., Comber, Ont., or at the office of the undersigned, Windsor, Oct.

The lowest or any tender not no essarily accepted.

Dated at Windsor this 22nd day of October, 1898.

WM. NEWMAN, Engineer Big Creek Drainage Works.

EXTENSION OF TIME.

The time for receiving tenders as above has been extended to FRIDAY, NOVEMBER 11th.

Tenders Wanted

Scaled tenders, addressed to Alderman Sanders, will be received up till 12 o'clock, noon,

SATURDAY, THE 12TH DAY OF NOVEMBER, 1898,

for the Plattering, Plumbing, Metal Cornice Work, Painting of GI ring, Flectric Wiring, and Hot Water Heating Work required for the NEW MUNICIPAL BUILDING for the City of St. Thomas, Ont.
Plans and specifications or no be seen, and forms of tender obtained, at the office of N. R. Darrach, Architect, Talbot Street, St. Thomas, Ont
The lowest or any tender not necessarily accepted. A deposit in the form of a marked cheque, for 2½ per cent. of the amount of contract price, must accompany each tender, also names of parties offered as security for the due completion of the work.

ALDERMAN SANDERS, Chairman of Building Committee, St. Thomas, Ont.



Tenders will be received, by registered post only, ad-ressed to the Chairman of the Board of Control, City Itall, Toronto, up to noon on WEDNESDAY, NO-EMBER 9711, 1898, for the construction of the

6-FT. CONCRETE SIDEWALK:

On Wellesley Crescent, south side, from Sherbourne Street to eastern limit of Mr. Thomas Long's property.

4-FT. BRICK SIDEWALK:

On both sides of Duncan Street, from Queen Street to Richmond Street.

Plans and specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto on and after Wednesday, November and, 1808. A deposit in the form of a marked theque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for up to \$1,000, and 2½ per cent. on the value of the work over that amount, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signature of the contractor and his sureties, or they will be ruled out as informal.

The lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor), Chairman Board of Control.

City Hall, Toronto, October 29th, 1898.

DATE OF PUBLICATION.

Architects, Engineers, Municipal Authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

CONTRACTS OPEN.

MIDDLEVILLE, ONT .- It is proposed to erect a new town hall here.

HARTLAND, N.B.-It has been decided to build a new school house, to cost about \$5,∞∞.

COATICOOK, QUE. - A new market building is to be erected here, at a cost of \$4,000.

LAKE MFGANTIC, QUE ments will be made to Mr. Ratelade's building.

HORTON, N.B.-Gilead Secord, of the Central Hotel, intends building a new residence.

BILLING'S BRIDGE, ONT.-W. Doxey purposes establishing a brick-yard near this place.

MONTMAGNY, QUE - The Electric

Light Co. are about to build another power house.

EDMONTON, N.W.T .- White & Beliveau, of the Queen's Hotel, will erect a three storey block.

ST. HYACINTHE, QUE.—The Eastern Townships Bank has secured a site for a new building, to be erected at once.

CAMPBELLTON, N.B.-J. & D. A. Harquail are erecting a factory 90 × 60 feet, with engine and drying rooms attached.

MONCTON, N.B.—The town is considering the question of making some extensive changes to its electric light plant.

WAKEFIELD, ONT.—The managers of A. McLaren's business purpose making extensive alterations to their woollen factory.

WINCHESTER, ONT .- It is understood that negotiations are about completed for the erection of a cold storage building here.

LIVERPOOL, N.S.—Tenders have been invited for the purchase of \$4,700 of debentures. Address T. R. Bartling, town

MARBLETON, ONT.—Cross & Ewing are making arrangements for water power at Lime Ridge for the purpose of sawing pulp wood.

PERTH, ONT .- Tenders are being taken for a four-roomed addition to public school, from plans by G. T. Martin, of Smith's Falls.

SHERBROOKE, QUE.—The Sherbroooke Gas and Water Company will issue bonds to the extent of \$75,000. E. F. Walterhouse, secretary.

ST. THOMAS, ONT. - It is probable that the St. Thomas Street Railway Company will be extended to Port Stanley. J. H. Still is president.

BRANTFORD, ONT .- M. J. Builer, of Napanee, associate engineer for the flood prevention works, is in the city making an inspection of the work.

BRAMPTON, ONT .- The agreement between the Hutton Electric Light Company and the corporation for lighting the streets has been signed by the Mayor.

OWEN SOUND, ONT.—Tenders are wanted by November 5th for construction of fire alarm system. Address, W. H. Sinclair, chairman of committee.

PARRY SOUND, ONT .- The hotel project, which is being promoted by H. Hogben, is now understood to have taken more definite form, with a good prospect of success.

STRATFORD, ONT. - The Sewerage Commutee of the Provincial Board of Health have recommended that steps be taken by the city at once to provide purification works.

ST. ETIENNE, Q"E. - The citizens have decided to build a new church. They will build a sacristy this fall, and next spring the work on the church will be commenced.

CASSEL, ONT.-J. Kaufman intends

enlarting his factor, it alternational decheese be a, but er hox and sasti and door machinery, the factor will be door machinery. I installed by W. Saan

GALI, ONI.—W. Mallish avenuecus superintending the strength of the new opera house, which will strength think \$6,000.

ST. JOHN. N. B.—The Landing House Co., Ltd., has taken a dease of the building now occupied by Whitiker & Co., and will make extensive diffiourations thereto before next spring.

WILKESPORT, ONT.—The thingship council of Souther the same of shifting the state of state of state of the extent of \$2,035, for draphing buryonses. Ora Bishop, township qquk.

ETHEL, ONT.—Proposals we asked up to 5th inst. for purchase of \$1.309,187 of 20 year dramage dallending, bearing interest at 4 per cent. Allies, Whi. Spence, clerk township of they.

London, Ont. - Work has commented on the five storey block to the filling for Gorm in, Eckert & Co., of which H. C. McBride is architect. File from will be of brown stone and pressed freek.

CORNWALL, ONT.—On JAMES and next the electors will safe and its that the raise a sum of money for the fulfilless of developing the water priver decessive to operate the waterworks at the tasks.

operate the waterworks of fille 1800.

STAYNER, ONT.—A hy have for \$2,000 for waterworks is to submitted the a volt of the people during December. All the surveys, estimates and replies were made by John Galt, C.F., of 180600.

HULL, QUE.—At the last dischlift of the city council, it was Astalled to call for tenders at once for lightly dischlift of the city by electricity.—The Hull Electric Co. will likely extend its road to callificate from Sydney. C. B.—The Hull of Trade has recommended the town of Trade scept the proposition of Division & Sons, boiler makers, Halling assistic the town for \$5,000 to establish their works here.

CARP, ONT.—Surveys have been completed for the Carp, Allinghis & Lanark railway, which it is appropriate to extend from Carp, through Language county, to Almonte, tapping the C.P.R. near Mattawa.

WINDSOR, ONT.—By advertisement elsewhere, the time dep receiving tenders for constructing two steps willings over Big Creek, in township of Filling West, has been extended to Filling November Tub.

BRUCE MINES, (AN) — THE government having made an appropriation of \$6,000 for a new what the early of condition that the town should provide a site, a move is now being made to have the most proceeded with. work proceeded with.

BELLEVILLE, ONT.—GIP NOVEMBER 22nd the ratepayers will water off a by law to grant a bonus of \$50,000 wille Albour-Mitchell syndicate for the execution of rolling milis in this city, the Albitev to be raised by debentures.

raised by debentures.

CALGARY, N. W. T. — The Calgary Brewing & Malting Company will effect an elevator in Connecting with their brewery, to cost \$15,000.—W. R. Callipbell, late of Moose Jaw, is about to effect a two-storey stone building large.

FREDERICTON, N. B. The Department of Public Works has invited tenders, to be received up to the 7th 1981, for repairing the bridges at the Moulth of Keswick, the M. Lagan large at Nashwaak, and the Russell briggs if the Moulth wask, and the Russell briggs in Kent county. Kent county.

HALIFAX, N.S. -The Coast Railway
Co. have opened in fifthe in this city,
with Mr. Martin Van Hurlight, chief
engineer, in charge A is inderested
that as soon as avantements can be
completed, the construction of the road
will be undertaken.

AMHERST, N. S .- At a recent meeting of the ratepayers, it was decided to authorize the council to make a grant of money towards the construction of a railroad from Amherst to North Porth, on Northumberland Straus. The length of the road will be about 20 miles.

PRESCOTT, ONT.—The consulting engineer, Mr. John Galt, of Toronto, is preparing plans and designing a system of waterworks, sewerage and electric lighting for this town. Commissioners will be appointed at the forthcoming January elections, and work will proceed

during the year 1899.
VICTORIA, B. C.—On behalf af a Victoria syndicate, William Jensen and Lawrence Goodacre Live notice of application for the incorporation of the Hardy Bay Tramway Co., to build a tramway from Hardy Bay to Cold Bay, Quatsino Sound, a distance of 8 miles. It is probable that electricity will be used as the motive power.

BARRIE, ONT. - The Stanley Piano Company, of Toronto, are negotiating for the removal of their factory to this town. Tenders for House of Industry supplies, including 150 chairs and 106 blinds, are invited by Joseph Whitesides, chairman Property Committee, up to November 5th. Specifications at office of Smith & Bird, architects, this town.

PEMBROKE, ONT.-Roderick J. Parke, E.E., of Toronto, is preparing an estimate of the cost of installing a municipal electric light plant for the town. The paragraph in former issue that the coun-cil had reconsidered their decision to engage an expert was an error.—Ten miles of the Pembroke Southern Railway have been completed, leaving 12 miles yet to be constructed.—The Pembroke Milling Co. have decided upon the erection of an elevator, 60×30 feet, and two storeys high.

WINNIPEG, MAN.-Extensive improvements, including a system of lighting and steam heating, will be made to Carsley & Co.'s establishment.—Mr. G. W. Gouinlock, architect, Toronto, is in the city in connection with the erection of a substantial business block on one of the prominent Main street corners.—Tenders are wanted for building a school house, 24 × 40 feet, in St. Eustache. Particulars from M. Rocnon, 64 Nena street, this city.

OSHAWA, ONT .- A system of water supply and sewerage has been designed by Mr. John Galt, consulting engineer, of Toronto, to cost about \$120,000. water is to be gravitated to the town from a flowing spring in the ridges about 13 miles due north. Twenty miles of water mains and over 100 fire hydrants will be required, which will place conveniences at the door of nearly every inhabitant. The by-law has yet to be voted upon.

VANCOUVER, B. C .- It is learned that a four-story building is to be erected on Hastings street, to be completed this year. — The Provincial government is calling for tenders for the construction of a steel arch bridge at the Gorge, Victoria Arm. Tenders close November 30th.—A by-law to provide funds for the construction of a wharf received the sanction of the ratepayers last week. - In all probability the Royal City Planing Mills Company will rebuild the Hastings saw mill without delay.- The Methodist congregation at Central Park will build a new church, for which a site has been sécured.

NEW WESTMINSTER, B. C.-F. M. R titenbury and J. G. Tiarks, joint architects, have prepared plans for a new building for the Dank of British Columbia, to be two storeys and basement, pressed brick front, ceiling of panelled cedar, heated by steam and lighted by electricity. Pressed brick from the British Columbia Terra Cotta Works at Victoria will be used at It is understood that will be used. - It is understood that

Thomas Dunn will build on his property on the south west side of Columbia street, and that Hardy Freeman will erect a brick building at once. The proprietors of the New Westminster Sun will also erect a building, and a number of private residences will becommenced immediately. The new opera house will be erected on the lot immediately west of the Baptist church, and will be a two and one half storey frame building, 50 × 110 feet.

QUEBEC, QUE. — Active preparations are going on for the perfecting of the scheme to make Paspebiac, on the Baie des Chaleurs, an ocean steamship port.-The official announcement has been made by the Quebec, Montmorency & Charle-vois Railway Company that it is proposed to electrify the road running to Cap Tourmente, and to construct an independent branch to Montmorency Falls. The estimated cost of improvements is given as \$330,000, and when completed the system will comprise over 60 miles of electric railway. The president of the com is H. J. Beemer.—The Seminary of The president of the company bec have decided to finish their chapel. Messrs. Peachy & Dussault, architects, are at work on the plans for the interior decoration.—Tenders are asked for the construction of five suburban villas to be erected on Maple ave., from plans pre-pared by Peachy & Dussault, architects. Tenders are also asked by the Seminary of Chicontimi for the finishing of a chapel; dimensions, 100×52 ft., with side chapels. The chapel will be three stories.

HAMILTON, ONT.—The promoters of the Hamilton, Chedoke & Ancaster electric railway have made a new proposition to the City Council, which has been accepted. It is hoped that it will now be possible to finance the project.—The city engineer has recommended that improvements be made to the waterworks system. He estimates the cost of proposed extensions as between \$160,000 and \$180,000. The cost of operating at present is \$13,320 per year, while with the new main it would be \$11,255.—The Finance Committee has renewed its recommendation to purchase property at the corner of King William and Mary streets, for the purpose of erecting thereon a building for the Police Department.— Building permits have been granted as below: James Hossack, brick additions to houses, George sack, brick additions to houses, (eorge street, for John Mondie, cost \$1,500; John Henry, two-story brick dwelling, West avenue, between King William and Wilson, cost \$1,200; W. A. Edwards, brick addition to 33 York street, cost \$1,000; Thomas Upton, addition to jam factory on Ida street, cost \$1,500; F. J. Rastrick & Son, twenty houses on Cheever street for Son, twenty houses on Cheever street, for J. J. Scott, cost \$11,000.

OTTAWA, ONT .- The following permits for buildings were granted last week: A. Richard & Co., brick veneered double dwelling, Lewis street, cost \$2,000; S. J. Davis, two brick veneered houses, Cooper street, cost \$2,000 each, brick veneered dwelling, Gilmour street, cost \$2,000; F. McCullough, brick dwelling on Stewart street, owned by trustees of St. Alban's church, cost \$3,500: A. Emery, brick veneered dwelling, Wilbrod street, cost \$800.—LeMay & Noel, clothing dealers, corner Sussex & Murray streets, intend building an addition to their premises.— It is not expected that any steps will be taken in the near future by the government with respect to the prevention of of the Rideau floods.-Plans are being prepared by the Department of Public Works for a new bridge over the Canada Atlantic Railway at Maria street, to cost \$30,000.—The time for receiving applicaengineer expired on the 27th October, but no appointment will be made until November 2nd, when the applications for the position of city engineer will also be considered. — It is expected that the Ottawa, Arnprior and Parry Sound Railway Company will commence work at an early date on their central passenger depot, in accordance with the terms of their agreement with the city.—Application is being made to the provincial government for the incorporation of the Ottawa Stockyards & Abattoir Company, represented by Mr. George E. Kidd, barrister.—The corporation of the University of Ottawa have purchased the Shea property on Wilbrod street, and will commence at an early date the erection thereon of a large stone building, to be used as a museum.

MONTREAL, QUE.—The plans of the new Grand Trunk offices to be built on McGill street have been deposited at the city hall, and call for an expenditure of \$400,000. We are advised by the management that no contracts in connection with the proposed building have as yet been awarded, and it is somewhat indefinite as to when they will be .- Some of the citizens of St. Genevieve and Point Claire are considering the advisability of connecting the two parishes by an electric railway, having for its object increased facilities for communication with Montreal.-Notice has been given that it is proposed to construct sewers on St. Antoine street, Des Rivieres avenue, and Chausse street, from Ontario street southwards.- It is the intention of the management of the Union Stock Yards to build a modern abattoir to replace the one which was destroyed by fire some time ago.— The Finance Committee has granted \$3,000 to the Water Committee for a new service pipe, \$3,000 to repair the turbine wheels, and \$700 for repairs to the condenser.—Mr. W. C. McDonald has donated to the Department of Electric Engineering at McGill University the sum of \$30,000 with which to purchase modern electrical apparatus.—The Grand Trunk Railway are about to undertake the construction, at their shops at Point St. Charles, of 200 flat cars, at a cost of \$100, 000.—The Harbor Commissioners want coo.—The Harbor Commissioners want tenders by Thursday, 3rd inst., for the supply of 1,200 toise of Banc Rouge stone. Address, Alexander Robertson, secretary. — The Beaver Portland Cement Company, capital \$150,000, is seeking incorporation, to manufacture Portland and other cements. R. T. Hooper, Q.C., R. D. McGibbon, Q.C., and W. F. Robinson, of this city, are provisional directors. provisional directors.

TORONTO, ONT .- Tenders are wanted for additions and alterations to office of Reinhardt & Co., Mark street.—The time for receiving tenders for elevators for the new municipal buildings has been extended until noon on Friday, November 4th.-A sub-committee of the Property Committee appointed to consider water front improvements will recommend that a by-law to provide \$40,000 for the purpose be submitted to the ratepayers. Mr. Sankey has prepared plans of two proposed schemes.—The city engineer will recommend the construction of a storm intercepting sewer which will empty into the Don the drainage of the district east of Parliament and north of Gerrard streets. The cost is given as \$16,000.-A petition is being circulated in Ward i favoring the construction of a high level bridge over the Don river at King street. -Mr. J. O. Buchanan has advised the Mayor that he is considering the formation of a company to provide cold storage accommo ati in at St. Lawrence market, providing the proposed improvements are carried out.—The Mayor has received assurances from Hon. Mr. Patterson and Hon. Mr. Dobell that assistance will be given by the Dominion government towards the dredging of Toronto harbor.-A report is current that the Dominion government is considering the purchase of site on the north-west corner of Bay and Adelaide streets, with a view to the erec-tion of a new post-office and inland

revenue building thereon.—The city will shortly undertake the following works: 24 feet brick pavement on gravel founda tion on Spruce street, from River to Sumach, cost \$2,610, 11 feet brick pave ment on concrete foundation on Oxford avenue, from Clara street to a point 119 feet west, cost \$460, 26 feet macadam roadway on Parliament street, Queen to Gerrard street, cost \$7,810; 24 feet
macadam roadway on Sumach street,
Gerrard to Wellesley street, cost \$6,440.
—Messrs. Gordon & Helliwell, architects, are superintending the erection of a power house at Bond Lake for the Metropolitan Electric Railway Co. The Goldie & Mc-Cullough Co., of Galt, are supplying the machinery, and the Hamilton Bridge Works Company the iron and steel construction. Same architects are awarding contracts this week for a factory building on Queen street east for the Toronto Fence & Ornamental Iron Works, and for the minor trades required in the ejection of a residence in Rosedale.-Mr. Henry Simpson, architect, is preparing plans for a brick and stone laundry building, 112×40 fee, to be built on McCaul street. Same architect has prepared plans for a frame cottage on Waverley street.-A rumor is current that the proprietors of the Rossin House purpose making extensive alterations, at an approximate cost of \$100,000.

FIRES.

The fires of the past week included the following: Isaac Sargent's planing mill on King street, London; loss \$25,000, small insurance.—J. D. Shier's saw mill at Bracebridge, Ont.; loss \$5,000, covered by insurance.—The Boddy block at Portage La Prairie, Man., including offices of the Review Printing Co., W. J. Roney, photographer, and B. Pierce, wall papers.—Building in connection with W. H. Tighe's evaporating lactory at Chatham, Ont.—Tannery of Gaspard Rochette at St. Rochs, Quebec, completely destroyed; loss on building and machinery, \$20,000.—R. Lee's bakery at St. Catharines, Ont., damaged to the extent of \$1,000.—C. Thiboulot's carriage factory on Fiaser street, Levis, Que., together with outbuildings and residence; loss \$12,000, insurance \$3,500.—The Hastings saw mill at Vancouver, B.C., owned by the Royal City Planing Mills Co.; loss about \$100,000.—Factory of the McDonald Mfg. Co., King street west, Toronto; loss \$25,000, nearly covered by insurance.—The Forbes Mfg. Co.'s building and J. A. Leaman & Co.'s warehouse in Halitax, N.S., partially destroyed.—Manson's general store at Sintaluta, N. W. T.; loss \$6,000, insurance \$3,500.

CONTRACTS AWARDED.

GREENWOOD, B. C. — The National Tube Factory, of Chicago, are supplying the water pipe, fittings, hydrants, etc., for the waterworks system.

SUTTON, QUE.—The corporation has sold \$15,000 of waterworks bonds, bearing 3½ per cent. interest and maturing in

twenty-five years, to the J. C. Baker estate, Stanbridge East, at par.

OTIAWA, ONI.—The contract for iron work for the spires on the new roof of the Parliament buildings has been awarded to P. Latour.—Messrs. Band, Burritt & Meredith, architects, have awarded the contracts for several works on the rectory for St. Alban's church as follows. Masonry and brickwork, F. McCullough; curpenter work, T. A. Shore; plastering, Campbell & Sutherland; painting and glazing, Geo. Horne.

PARRY SOUND, ONT.—The contract for all trades, except painting, for addition to Masonic block, has been let to Geo. W. White. Mr. Wolton will do the painting. The plans were prepared by Mr. Henry Simpson, architect, Toronto.

QUEBEC, QUE.—John Thompson is building a two storey house on St. Foye street, near Maple avenue. The architect is Mr. Harry Staveley. The contract for masonry has been given to Mr. Sharp, and the carpenter work to Mr. U. L'Henreux.

LONDON, ONT. — Messrs. Moore & Henry, architects, have accepted the following tenders for the new Bell Telephone building: Masonry, brickwork and cut stone, Everitt & Sing; carpenter and joiner's work, Jones Bros.; steel beams, Dennis Wire and Iron Works; toofing, P. L. Marden & Co.; copper work, H. J. Boyd; plastering, Gould Bros.; painting and glizing, H. & C. Colerick; heating and plumbing, William Skelly; wiring, London Electric Co. Sime architects have just closed contracts for a five storey brick warehouse and factory for Messrs. Sterling Bros., 40×110 feet, corner York and Clarence streets. John Hayman & Sons will do the masonry, cut stone and brickwork, and Jones Bros. the carpenter, joiner and structural iron work.

TORONTO, ONT.—W. Mashinter & Co. have been awarded the following contracts: Pumbing 622 and 624 Queen w. for Mr. Robt. Jaffray; plumbing in residence of H. Grawford Scadding, Bloor street west, residence of Mrs. J. E. Ellis, Huntley street, and store on King street east; hot water heating for Wm. Bohne, 159 Cowan avenue, and electric wiring in Inland Revenue Building, Toronto street.—The Board of Control on Monday last awarded contracts as follows: King street, brick pavement for track allowance, Sherbourne street to River, Dominion Paving & Constructing Company, \$6,183; Euclid avenue, cedar block pavement, Arthur to Robinson street, Dominion Paving & Constructing Company, \$3,107; Queen street, track allowance, brick, Niagara to Gladstone, Dominion Paving & Constructing Company, \$7,363; Sorauren avenue, brick, Construction & Paving Company, \$8,018; Queen street west, track allowance, Bathurst to Niagara, scoria block, W. F. Grant & Co., \$5,431.63. The contract for filling the filtering basin at the Island was awarded to George Phillip, at \$893.75. There were three other tenders, at \$942,

(Continued on page 4)

THE HAMILTON BRIDGE WORKS CO., LIMITED.

Railway and Highway Bridges

AND ALL KINDS OF

STEEL STRUCTURAL BUILDING WORK, Observation and Water Towers, Tanks, Caissons, Piers, Buoys, Roofs, Inclines, Etc.

STEEL SHIPS. HEAVY FORGINGS a Specialty.

A Large Stock of STEEL BEAMS, CHANNELS, ANGLES and PLATES always on hand......ESTIMATES FURNISHED ON APPLICATION.

\$950 and \$1,273 respectively.—Messrs. Gordon & Helliwell, architects, have accepted tenders as follows for a store front cepted tenders as follows for a store front on King street for George Coleman: Carpenter work, Thomas Hancock; hardware and brass trimmings, Aikenhead Hardware Co.; plate glass, McCausland & Son. For alterations to a store on King street east for Dr. Chaffee, to be occupied by Messrs. Simmers, seed merchants, the following tenders have been accepted: Carpenter work, plastering and metal work, Thomas Turff; masonry, William Halls & Son; heating, Wheeler & Bain. & Bain.

ERRATUM.

In the CONTRACT RECORD of last week it was stated that the name of the Canadian Office & School Furniture Co., of Preston, Ont., had been changed to the Canada Office & Furniture Co. This was an error. The change of name should have applied to the Canadian Office & School Desk Agency, of Montreal.

BERLIN WATERWORKS ARBITRA-TION.

The town of Berlin, Ont., has recently assumed control of the waterworks, which were formerly owned and operated by a private company. The price to be paid by the municipality for the works was determined by arbitration, and amounted to \$102,000, which, strange to say, is exactly the estimate of value placed upon them by Mr. Willis Chipman, C.E., who acted as valuator for the corporation.

PUMPS FOR CONTRACTORS' USE.*

(Continued.)

Another way is by means of a hand In any case, a foot-valve should be provided at the bottom of the suction pipe to retain the water until the pump is started. Sometimes the suction is done away with altogether, by fixing the pump below the level of the water, or more rarely submerged in it. In the latter case a vertrical centrifugal is used, the spindle projecting some few feet above the surface, its weight being carried either by an adjustable gunmetal footstep or by a thrust bearing. This arrangement has the advantage of doing away with initial priming, as the pump case is always full of water, consequently the discharge commences directly the spindle is revolved. If required, an extra length of shafting

. J. L. Crathorne, in the Contract Journal.

may be coupled to the vertical spindle, the additional weight being taken by collars resting on the shaft bearings. In fixing this pipe care should be taken that the spindle is truly vertical, that the legs rest on an even foundation, and that the whole is firmly fixed. For working in difficult situations, the ordinary horizontal centrifugal may be obtained with a swivelling arrangement by which the pump, and with it the driving pulley, may be worked at any required angle without disturbing the suction. This plan works well in the small-sized pumps, but those of large capacity are apt to suffer in rigidity through its adoption.

PULSOMETER PUMPS .- These pumps, which are driven by the direct action of steam conveyed through a pipe, are specially useful in difficult situations where a belt-driven or other pump would be impracticable. The chief working part is a ball valve, which beats alternately on two seats. The pump consists, briefly, of two pear-shaped vessels, with necks joined in a single chamber. In this chamber there are two valve seats on which one ball valve beats. The action of the punip is very simple, the water being forced out of one chamber by the steam, which is then condensed, forming a vacuum, and draws the ball over, thus cutting off steam from the now empty chamber. Water now rises to fill this vacuum; meanwhile the same process is going on in the other chamber, and the action is continually As regards construction, all kept up. faces both inside and out should be machined. Grids of brass can be recommended, with planed surfaces, and bolted down on a planed face by bolts or studs, pitched all round the joint to ensure tightness. Rubber can be recommended for rendering the joints watertight. The foot valve may be of the ordinary grid type, but one of the three-lip form is to be preferred. With 50lb. of steam, water can be raised by these pumps to a total height of about 80ft., but with higher pressures this height can, of course, be exceeded. When the height to which it is required to force is too great for the available steam pressure, one pump may be used above another. If required, pulsometers may be worked slung in chains, and steam may be conducted to them through flexible pipes, thereby allowing the pump to be raised or lowered without the trouble of stopping to alter steam-pipes. The absence of exhaust steam, which is a characteristic feature of the pulsometer pump, is a decided advantage in close situations, down shafts, etc. It has been rightly urged against the pulsometer method of pumping that the steam consumption is high; but when used in temporary operations, taking into consideration its special advantages not shared by any other pump, this objection is, perhaps, not of much account. Lately, however, an arranges ment has been patented which enables the pulsometer to use steam expansively, to secure greater economy. This attachment is called the "Grel," and can be fitted to existing pumps. The makers state that these improved pumps will compare favorably in steam consumption with those of the direct-acting or fly-wheel

FLY-WHEEL PUMPS .- Though these

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scarcely come under the head of contracvater has to be forced to a considerable height. They should be of a massive construction, with long stroke and heavy flywheel, and the valves should be of ample area and of simple design, and both these and their seats should be removable for adjusting and repairs. An ordinary slide valve can be recommended for the steam-cylinder, and should be designed to cut off steam at a certain proportion of the stroke, so as to use steam expansively. The exact point of cut-off depends on the water pressure the pump has to work against. Fly-wheel pumps are sometimes constructed so as to be reversible; this is useful for freeing a chcked suction

ROTARY PUMPS.—Another pump used to a limited extent by contractors is the rotary. It has the advantage of extremely simple construction, and has no valves except the usual ones in the suction and delivery pipes. One of the most suitable types of rotary pumps for contractors' use consists of an outer cast-iron casing, of which the interior is shaped to contain two circular cams with corresponding projections and indentations gearing to-gether. These cams are mounted on spindles and driven in opposite directions, so as to approach each other from the top. The projections sweep round the circular face of the casing, creating a vacuum, which draws the water through an opening at the bottom; as the revolution continues, opposite cams come into action and force the water through the delivery opening at the top of the casing; the action is therefore continuous, and a con-Unlike stant stream of water is ejected. the centrifugal, the rotary pump does not require priming, and consequently is alrequire priming, and consequently is always ready for use. In the larger sizes the long teeth, or cams, should be packed with pieces of metal pressed outwards by springs, so that when worn a good vacuum may still be obtained. These pumps will pick up water up to 25ft. or 28ft. and force it to a considerable height, say 100ft.; a lower suction is, however, to be preferred, as the loss through "slip" is thereby lessened and a greater discharge obtained ened, and a greater discharge obtained. Plugs should be provided at convenient points of the case to drain off the water when not in use, to prevent freezing. The pump may also be emptied by turning it backwards a few times, providing the water is all out of the delivery pipe or held by the delivery valve.

(Concluded in next issue.)

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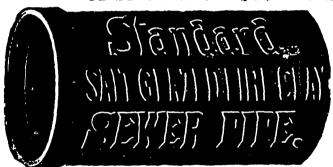
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THE INFLUENCE OF PAYEMENTS ON PUBLIC HEALTH!

By A. W. CAMPBELL, Ontario Road ANNERSY. (Concluded).

In European practice, wood, more suited to a business street than macadam, affording a better footbold for houses that asphalt, less noisy than grapue sells, is exceedingly popular, in spite of its less sanitary character. In this country, however, there is an unwillingness to tenew a wooden pavement when decay has rendered it unfit for further use, and this, coupled with the less careful method of laying, is the cause of the complete disrepute into which it has fallen.

Experiments have been made recently by a Polish scientist with regard to cedar block. The bacteriological examinations showed that, in specimens taken how blocks which had been in use for four years, and from a depth of one centimeter and two centimeters below the swiftee. there were at the end of five days 650,000, 220,000 and 12,100 bacteria per gramme of wood. A later examination showed is 200,000 colonies per gramme un the swface of the wood, and 8,699 colonies per gramme at two centimeters below the An estimate, in terms of its nitrogen, was made of the organic matter absorbed by the wood, and indicated that the surface layer of wood contains more nitrogen than the most polluted soil A comparative estimate of the pollution of the atmosphere was made by placing a definite quantity of sulphyric acid under a glass bell, on the surface of wooden and asphalt pavements, the result, as indicated by the quantity of ammonia absorbed by the acid, being much in fayor of asphale. The observations show that while a wooden pavement gives absolute protection to the soil and to the subsoil water, there was considerable atmosphere comtamination. The experiments were made on blocks of pine, preserved by ampregration with copper sulphate. Such being the case with a wooden payement had under European practice, there can be little doubt of the unwholesome effect 64 cedar block upon the atmosphere. Further experiments of this description, conducted by members of your association, would doubtless prove instructive and profitable.

Broken stone or macadam would next arouse suspicion with repaid to तक की sorbative qualities. There is this great difference between the two, however, that whereas a wooden pavement itself decays and affords food for the decay of other organic matter falling on it, the macadam does not in itself decay. With under. drainage, such as every well-built macadam possesses, it should be hade more than a

Paper read at the recent meeting of the Association of Executive Health Officers of Onlying.

good sewage disposal bed for the com-paratively small amount of sewage which falls upon it. A macadam pavement can be scraped and swept, it is not noisy, dust sanitary grounds appears to be an excel-lent pavement for residential streets where traffic is not excessive. For business effects, or for heavily travelled thoroughfates of cities, a harder surface is adviscáil be no objection to asphalt, vitrified byicks nor stone blocks. Asphalt is impervious to water, while the joints of brick of stone pavements are practically perfect

so far as absorption is concerned.

To be sanitary, a pavement should not be dusty. The dust of a pavement is not only an irritant, but carries with it the bacteria of disease which, from various sources, are a part of street filth. To pre-Vent dust, the pavement must be so per-fectly cleaned that a practically harmless amount is taken up by the wind; or, if perfect cleanliness is not possible, dust

perfect cleanliness is not possible, dust must be subdued by sprinkling.

Unless perfectly cleaned—much more perfectly cleaned than is commonly the case in this country—an asphalt pavement is very apt to be a disagreeably dusty pavement on a windy day in summer. First indeed, is one of its greatest faults from a sanitary standpoint. Toronto has from a sanitary standpoint. the reputation of being a clean city, with a Well-organized street department, yet even under these favorable conditions, a walk of drive down Yonge street on a warm, windy day is a very trying experience. The smooth, hot surface quickly dries any matter falling upon it, a wheel passing over this dry substance grinds it to powder, and the result is that clouds of dust find their way into the eyes, nose, Mouth, throat and lungs of pedestrians. Business men in their offices are not safe from its attack, as it drifts in through the open windows. The dust imbeds itself in efforthing, fastens itself on articles of food exposed in the shops, to be eaten finally by the purchaser. One case came to my notice in which a consumptive patient was ordered by his physician to leave Jarvis street, one of the best residential streets of Toronto, because of the dust which came from the asphalted roadway. These came from the aspirated roadway. These streets are swept by machines, and are hand-swept by a corps of city employees, but are not to my knowledge flushed as are similar pavements in London and Paris. Flushing is the only method whereby aspiralt can be freed from this unsanitary dustiness, but in addition to being expensive and hurtful to the asphalt, such a p a cosal will doubtless meet the disapprot in of the engineer in Charge The dust, however, is not a of séwers. defect of the pavement so much as it is a fault in the method of cleaning.

Asphalt has, nevertheless, the disadvantage of being a very hot pavement. Its smooth surface, reflecting back the heat and light, is productive at times of sun stroke, and the glare is frequently painful to the eyes. This is most noticeable in

closely built business sections where there is least circulation of air, where the sun beats down between high brick walls; and is not so objectionable on a shady residential street with houses well apart.

Vitrified brick and stone block pavements are neither so dusty nor hot as asphalt, since the surfaces are less smooth and assist in retaining in the joints the finer particles of dust. Sprinkling, too, is in a great measure effective in subduing dust on brick or stone block than on asphalt, from the hot smooth surface of which moisture evaporates rapidly. A maradam pavement is dusty if not properly treated, but if scraped and swept as are other pavements, the dust can be

largely subdued by sprinkling.

Noisiness, if excessive, is another unsantiary feature. A noisy pavement is jarring to the nerves, grating upon the sensibilities, and for either a heavily travelled business street, or a residential quarter, a quiet pavement is much to be desired. Noise itself is not always un-healthy. It is doubtful if the workman in a boiler factory, or a railroad engineer or other employee, is much influenced by the noise incidental to his occupation. are muscular of body, constantly taking vigorous exercise. But to the more vigorous exercise. But to the more sedentary man of business, whether at high nervous tension in his office or resting in the quiet of his home, a din, constant or intermittent, is a source of annoyance, and as such, is wearing on the nervouse system. The most objectionable in this regard is grante or other stone block pavement. Vitrified brick is apt, unless great precautions are taken, to create a disagreable rumbling. Asphalt, wood and macadam are the least objectionable with respect to noise.

While we have this to say of the comparative healthfulness of different varieties of pavements, there is another condition of matters common to too many towns and cities, in which the streets in fall and spring form a wilderness of mud and stagnant pools, and in summer are shapeless beds of dust. Many of them are made the receptacles of the refuse from private property which is left to disfigure the street, forming rivers of filth and cess-pools of disease. Such streets have been regarded as a zero quantity, doing no particular harm, doing no particular good. Streets, however, which do no good, should do good, and therein lies the harm. A good street is a well-drained street, a well-cleaned street, and a source of healthfulness to the members of the community. Streets should be the public parks, pleasing to the cultivated taste, adding to the culture and refinement of the people, and enticing them out to breathe health and vigor, whether walking, bicycling, riding or driving. Passing along the city street we reach the country highway, which, as a means of permitting the people of the city to leave the congested portions and to reside in the less thickly populated suburbs, forms an important factor in securing public health.

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Foundation Blocks, per c. ft. Ballochmyle	x4½ in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal foot	50 00		
Foundation Blocks, per c. ft. Ballochmyle	x4% in. per M	50 CO 70	Ontario, " Keene's Coarse "Whites" Fire Bricks, Newstele, per M	1 10 5 50 6 00 50 0 5 50 M 27 00 35 00 16 00 21 (0
Foundation Blocks, per c. ft. Ballochmyle	Gran te curbing stone, 6 in. x 20 in. per lineal foot. SLATE. TOYOUTO.	50 CO 70	Ontario. " Keene's Coarse "Whites" Fire Bricks, Newcastle, per " Scotch Lime, Per Barrel, Grey " White Plaster, Calcined, N. B	1 10 1 50 600 500 550 1 2700 3500 1600 21 00 2700 3500 1900 21 00 40 50 80
Foundation Blocks, per c. ft. Ballochmyle	SLATE. Rocfing (V square).	50 co 70 Hontreal.	Ontario, " Keene's Coarse "Whites" Fire Bricks, Newcastle, per # " Scotch " Lime, Per Barrel, Grey " White Plaster, Calcined, N. B " " N. S	1 10 5 50 600 500 5 50 M 27 00 35 00 15 00 21 (0 27 00 35 00 19 00 21 (0 40 50 80 2 00 1 50
Foundation Blocks, per c. ft. Ballochmyle	Rocfing (V square). " red	70 Montreal.	Ontario. " Keene's Coarse "Whites" Fire Bricks, Newcastle, per " Scotch Lime, Per Barrel, Grey " White Plaster, Calcined, N. B	1 10 1 5 50 600 500 5 50 1 37 00 35 00 16 00 21 (0 27 00 35 00 19 00 21 (0 40 50 80 1 200 1 50 1 80 1 00 1 00
Foundation Blocks, per c. ft. Ballochmyle	Rocfing (** square). " red	70 Hontreal.	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. The following are the quo	1 10 1 5 50 600 500 5 50 1 37 00 35 00 16 00 21 (0 27 00 35 00 19 00 21 (0 40 50 80 1 200 1 50 1 80 1 00 1 00
Foundation Blocks, per c. ft. Ballochmyle	Rocfing (Viguars). " red. 1750 " purple 85" " untading green 830 Tena Cotta Tile, per sq 2000 Orr smental Black Slate Roofing 880	70 Tontroal.	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6d, per ke	1 10 1 506 600 500 5 50 1 2700 3500 16 00 21 (0 2700 3500 19 00 21 (0 3700 3500 19 00 21 (0 3700 3500 19 00 21 (0 3700 1500 1500 1 200 1 50 1 200 1 50 1 200 1 50 1 200 1 50 1 200 1 50 1 200 1 50 1 200 1 2
Foundation Blocks, per c. ft. Ballochmyle	Rocfing (** iquars). Rocfing (** iquars). " red	70 27 00 10 00 10 00 00 00 00 00 00 00 00 00	Ontario, "Keene's Coarse "Whites". Fire Bricks, Newcastle, per M. Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag HARD The following are the quo at Toronto and Montreal:	1 10 1 5 50 600 50 0 5 50 1 27 00 35 00 16 00 21 (0 27 00 35 00 19 00 21 (0 1 50 80 1 2 00 1 50 1 2 00 1 50 1 1 50
Foundation Blocks, per c. ft. Ballochmyle	Roching (V 1940). Roching (V 1940). Roching (V 1940). " red	70 100111681. 20 00 10 00 8 00 6 50 25 00 6 80	Ontario, "Keene's Coarse "Whites". Fire Bricks, Newcastle, per M. Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nails, 50d & 6-d, per ke Steel " " CUT NAILS, FENCE 40d, hot cut, per 10 1 lbs	1 10 1 500 600 500 5 50 1 7 00 35 00 16 00 21 (0 27 00 35 00 19 00 21 (0 50 80 1 200 150 2 200 150 1 200 100 1 100
Foundation Blocks, per c. ft. Ballochmyle	Rorfing (V square). " red	70 Montreal. 20 00 7 00 8 00 6 50 25 00 6 80 5 25 7 25 7 25 4 00 4 50	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per M. Scotch Lime, Per Barrel, Grey "White. Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6-d, per ke Steel "" CUT NAILS, FENCE 40d, hot cut, per 10 1 ibs 10 to 10d, hot cut 8d, od. ""	110 1506 600 500 550 1506 600 500 550 1500 3500 1600 21 (0 2700 3500 1600 21 (0 2700 3500 1500 21 (0 200 150 150 100 100 WARE. Stations to builders for nails 19 185 185 195 195 1AND CUT SPIKES. 191 195 195 195
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot	70 Nontroal. 20 00 10 00 00 00 00 00 00 00 00 00 00 00	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h "Scotch Lime, Per Barrel, Grey "White. Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nulls, 50d & 6-d, per ke Steel "" CUT NAILS, FENCE 40d, hot cut, per 100 lbs 10 to 10d, hot cut	10 1506 600 500 5 50 15700 35 00 16 00 21 (0 27 00 35 00 16 00 21 (0 27 00 35 00 16 00 21 (0 27 00 35 00 17 00 21 (0 20 150 20 150 20 150 100 100 100 100 100 100 100 100 100 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot	70 Hontreal. 20 00 10 00 6 50 25 00 6 80 4 50 160 170 170 170 170 170 170 170 170 170 17	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White. Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nulls, sod & 6xd, per ke Steel "" CUT NAILS, FENCE 40d, hot cut, per 10) lbs to to 16d, hot cut 8d, 9d, "" dt 05d, "" 4d to 5d, "" 3d, ""	10 1506 60 500 500 1506 60 500 500 1500 1600 2100 2700 3500 1600 2100 200 150 200 150 200 150 100 100 100 100 100 100 100 100 100 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal foot. #### #### ##########################	70 HONT FOR I. 20 00 10 00 0 6 50 25 00 6 80 175 7 25 4 00 1 75 75 90 8 10 2 7 7 12	Ontario Keene's Coarse "Whites". Fire Bricks, Newcastle, per N. Scotch Lime, Per Barrel, Grey " White Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6rd, per ke Steel " " " " Cut not to 10d, hot cut 8d, 9d, " " 4d, 7d, " " 4d to 5d, " "	110 1506 60 500 500 1700 3500 1600 21 00 2700 3500 1900 21 00 2700 3500 1900 21 00 200 150 200 150 200 150 100 100 100 WARE. Stations to builders for nails 2 185 185 195 195 2AND CUT SPIKES. 191 195 195 2AND CUT SPIKES. 191 195 195 201 205 205 205 205 205 205 205 205 205 205 205
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Cran te curbing stone, 6 in. x 20 in. per lineal (oot	700 1 1 6 8 1. 7 00 8 00 6 50 25 00 6 80 1 7 25 1 1 7 5 1 9 10 1 7 5 1 9 10 1 7 5 1 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nails, 50d & 6-d, per ke Steel """ CUT NAILS, FENCE 40d, hot cut, per 100 lbs to to 10d, hot cut 8d, 9d, 6d, 7d, "" 4d to 5d, """ 3d, """ Cut spike-, ro cents per ke Steel Nails, 10c.per keg	10 1506 60 500 500 1700 3500 1600 21 (0 2700 3500 1600 21 (0 2700 3500 1900 21 (0 10 10 10 10 10 10 10 10 10 10 10 10 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. #### TOTOITO. Rocfing (\$\mathbf{y}\$ iguars). #### red	700 1 1 60 1. 700 8 00 6 50 25 00 6 80 6 80 175 7 25 160 175 75 90 10 3 5 7 12 14 20 12 25 12 18	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nails, 50d & 6-d, per ke Steel """ CUT NAILS, FENCE 40d, hot cut, per 100 lbs to to 10d, hot cut 8d, 9d, 6d, 7d, "" 4d to 5d, """ 3d, """ Cut spike-, ro cents per ke Steel Nails, 10c.per keg	10 1506 60 500 500 1700 3500 1600 21 (0 2700 3500 1600 21 (0 2700 3500 1900 21 (0 10 10 10 10 10 10 10 10 10 10 10 10 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Cran te curbing stone, 6 in. x 20 in. per lineal (oot	7 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nails, 50d & 6-d, per ke Steel """ CUT NAILS, FENCE 40d, hot cut, per 100 lbs to to 10d, hot cut 8d, 9d, 6d, 7d, "" 4d to 5d, """ 3d, """ Cut spike-, ro cents per ke Steel Nails, 10c.per keg	10 1506 60 500 500 1700 3500 1600 21 (0 2700 3500 1600 21 (0 2700 3500 1900 21 (0 10 10 10 10 10 10 10 10 10 10 10 10 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot	7 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per have been been been been been been been be	1 10 1 506 600 500 5 50 1 7700 35 00 16 00 21 00 27 00 35 00 16 00 21 00 27 00 35 00 16 00 21 00 1 40 1 50 80 1 200 1 50 1 80 1 00 1 00 IFARE. Stations to builders for nails 2 1 85 1 85 1 05 1 95 2 AND CUT SPIKES. 1 195 1 95 2 AND CUT SPIKES. 1 195 1 95 2 2 05 2 05 2 2 05
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. SLATE.	7 00 1 1 7 0 0 1 1 7 0 0 1 1 7 0 0 1 1 7 0 0 1 1 7 0 0 1 1 7 0 0 1 1 1 1	Ontario Keene's Coarse "Whites" Fire Bricks, Newcastle, per h Lime, Per Barrel, Grey " White Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag The following are the quo at Toronto and Montreal: Cut mails, 50d & 6.d, per ke Steel " " " " " " " " " " " " " " " " " "	1 10 1 506 600 500 5 50 1 2700 3500 16 00 21 00 2 700 3500 16 00 21 00 2 700 3500 16 00 21 00 2 700 3500 16 00 21 00 2 100 150 2 200 1 50 2 100 1 00 WARE. Stations to builders for nails 2 1 85 1 85 1 95 1 95 2 AND CUT SPIKES. 1 95 1 95 2 AND CUT SPIKES. 2 00 2 00 2 100 2 205 2
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot.	7 00 11 1681. 20 00 7 00 8 00 6 50 2 50 2 50 6 80 7 160 1 75 7 59 8 10 3 5 15 12 13 20 7 12 14 25 15 16 17 57 57 57 57 57 57 57 57 57 57 57 57 57	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey " White Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6rd, per ke Steel " " " " Cut o 10d, hot cut 8d, 9d, " " " 4d, " " " Cut spike, 10 cents per ke Steel Nails, 10 cper keg Iron Iron pipe, % inch, per foot. " " " " " " " " " " " " " " " " " " "	1 10 1 506 600 500 5 50 1 3700 3500 16 00 21 00 2700 3500 16 00 21 00 2700 3500 16 00 21 00 2700 3500 15 00 200 1 50 200
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot	7 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey " White Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuits, 50d & 6d, per ke Steel " " " " " " " " " " " " " " " " " "	1 10 1 50 60 50 0 50 0 1 7700 35 00 16 00 21 00 2 700 35 00 16 00 21 00 2 700 35 00 16 00 21 00 2 700 35 00 19 00 21 00 2 100 150 2 200 1 50 2 100 1 00 WARE. Stations to builders for nails 2 1 85 1 85 1 05 1 95 2 AND CUT SPIKES. 1 95 1 95 2 AND CUT SPIKES. 2 00 2 00 2 100 2 205
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot	7 00 1 1 68 1. 7 00 25 00 25 00 6 80 6 50 25 00 6 80 150 175 8 15	Ontario Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag The following are the quo at Toronto and Montreal: Cut nails, sod & 6xd, per ke Steel "CUT NAILS, FENCE 40d, hot cut, per 10> lbs to to 16d, hot cut 8d, 9d, 6d, 7d, 4d to 5d, "Cut spike-, to cents per k Steel Nails, 10 cents per k Steel Nails, 10 cents per k Tron pipe, 1/2 inch, per foot. "" 1/2 "" "" 1/2 "" Toronto, 6s to 70 per cent. d Lead Lead pipe, per lb	1 10 1 506 600 500 5 50 1 700 35 00 16 00 21 (0 27 00 35 00 16 00 21 (0 27 00 35 00 16 00 21 (0 27 00 35 00 19 00 21 (0 1 50 80 1 200 1 50 1 80 1 00 1 00 IFARE Stations to builders for nails 2 1 85 1 85 1 95 1 95 2 AND CUT SPIKES. 1 1 95 1 95 2 AND CUT SPIKES. 1 1 95 1 95 2 2 00 2 00 2 1 2 05 2 3 05 2 3 05
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal foot.	7 00 8 00 6 50 25 00 6 80 1 7 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per have been been been been been been been be	10 150 600 500 550 150 600 500 550 150 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1500 21 00 200 150 200 150 200 150 100 100 WARE. stations to builders for nails 2 185 185 185 195 195 2 AND CUT SPIKES. 197 190 2 200 200 2 205 205
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot	7 00 1 1 68 1. 7 00 25 00 25 00 6 80 6 50 25 00 6 80 150 175 8 15	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterrs', per bag. The following are the quo at Toronto and Montreal: Cut nails, sod & 6-d, per ke Steel "" CUT NAILS, FENCE 40d, hot cut, per 100 lbs 10 to rod, hot cut 8d, 9d, 6d, 7d, "" 4d to 5d, "" 5d, "" Cut spike, ro cents per ke Steel Nails, rcc.per keg **Tron Iron pipe, **I inch, per foot. "" *** **I "" "" ** **I "" "" **I "	10 150 150 150 150 160 170 150 160 170 150 100 100 100 100 100 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTONIO. Rocfing (** square*). ### red	700 800 1000 1000 1000 1000 1000 1000 10	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Lime, Per Barrel, Grey """ White Plaster, Calcined, N. B """ N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nails, 50d & 6nd, per ke Steel """ Cut o 10d, hot cut 8d, 9d, """ 4d, 10d, """ 4d to 5d, """ Cut spike, to cents per ke Steel Nails, 10c., per keg Fron. Iron pipe, 1/2 inch, per foot. """ """ """ """ """ """ """	10 150 150 150 150 160 170 150 160 170 150 100 100 100 100 100 10
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTOINO. Rocfing (\$\vec{v}\$ iquare). ### red.	7 00 8 00 6 50 25 00 6 80 6 50 25 00 6 80 175 7 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 18 10 12 25 12 10 12 12 15 10 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Lime, Per Barrel, Grey. """ White. Plaster, Calcined, N. B """ N. S Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nails, sod & 6nd, per ke Steel """ Cut nails, sod & 6nd, per ke Steel """ Cut nails, sod & 6nd, per ke Steel """ Cut spike, ro cents per ke Steel Nails, tcc.per keg Tron Iron pipe, ¼ inch, per foot. """ """ ½ """ "" ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ """ """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" "" ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "" """ ½ "	10 150 600 500 500 1700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1900 21 00 150 200 1 50 180 1 00 1 00 IFARE Stations to builders for nails 2 1 85 1 85 1 95 1 95 2 AND CUT SPIKES. 1 1 95 1 95 2 2 00 2 00 2 1 2 05 2 2
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTOINO. Rocfing (\$\vec{v}\$ iquare). ### red.	7 00 1 1 68 1. 7 00 1 1 68 1. 7 00 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ontario Keene's Coarse "Whites". Fire Bricks, Newcastle, per h	10 150 600 500 500 1700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1900 21 00 150 200 1 50 180 1 00 1 00 IFARE Stations to builders for nails 2 1 85 1 85 1 95 1 95 2 AND CUT SPIKES. 1 1 95 1 95 2 2 00 2 00 2 1 2 05 2 2
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot.	7 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario Keene's Coarse "Whites". Fire Bricks, Newcastle, per h	10 150 600 500 1700 3500 1600 2100 2100 2100 2100 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 200 200 200 200 200 200 200 200 2
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTOINTO. Rocfing (\$\perisonaxis* in red	7 00 6 50 2500 6 80 6 50 2500 6 80 10 175 175 170 175 175 170 175 175 175 175 175 175 175 175 175 175	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nails, sod & 6-d, per ke Steel "" CUT NAILS, FENCE 40d, hot cut, per 10- 10s 10s 10s 10d 10d, hot cut. 8d, 9d, 11 10d 10d 10d 10d 10d 10d 10d 10d 10d	10 150 600 500 500 1700 3500 1600 2100 2100 2100 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 200 200 200 200 200 200 200 200 2
Foundation Blocks, per c. ft. Sallochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTOITO. Rocfing (** iquare). ### red	7 00 6 50 2500 6 80 6 50 2500 6 80 10 175 175 175 175 175 175 175 175 175 175	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag Hair, Plasterers', per bag HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6.d, per ke Steel """ CUT NAILS, FENCE 40d, hot cut, per 10 albs rot to 10d, hot cut 8d, 9d, """ Cut spike., 10 cents per k Steel Nails, 11 cper keg Fron Iron pipe, % inch, per foot """ """ """ """ """ """ ""	10 150 600 500 500 1700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 280 150 200 150
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTOINTO. Rocfing (\$\partial \text{square}\$). ### red	7 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Lime, Per Barrel, Grey "White Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6d, per ke Steel """ Cut NAILS, FENCE 40d, hot cut, per 100 lbs. 10 to 10d, hot cut 8d, 9d, """ Cut spike, 10 cents per ke Steel Nails, 10 cents per ke Steel Nails, 10 cents per ke 1ron pipe, 1/2 inch, per foot. """ """ """ """ """ """ """	10 150 600 500 500 150 1500 1100 2700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 2700 1500 100 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 150 200 100 100 WARE. stations to builders for nails 2 185 185 195 195 201 195 202 205 203 200 205 205 205 205 205 207 207 208 208
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOYONTO. Rocfing (\$\partial \text{square}\$). ### red.	7 00 100 100 100 100 100 100 100 100 100	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Lime, Per Barrel, Grey. "White. Plaster, Calcined, N. B "N. S Hair, Plasterers', per bag. HARD The following are the quo at Toronto and Montreal: Cut nuils, 50d & 6rd, per ke Steel """ Cut noils, 50d & 6rd, per ke Steel """ Cut o 10d, hot cut. 8d, 9d, """ 4d to 5d, """ Cut spike, 10 cents per ke Steel Nails, 10 c. per keg Fron. Iron pipe, 1/2 inch, per foot. "" 1/2 """ "" 1/2 """ Toronto, 65 to 70 per cent. d Lead pipe, per lb Galearits Adam's—Mar's Best and Qui to 24 guage, per lb Gordon Crown— 15 to 24 guage, per lb Gordon Crown— 15 to 24 guage, per lb Gordon Crown— 15 to 24 guage, per lb Steel Beam, per too lbs "" channels, "" angles, "" angles, "" "" tees, "" "" "" tees, "" "" "" "" "" "" "" "" "" "" "" "" ""	10 1506 600 500 550 1700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 150 150 150 150 150 150 150 150 150 1
Foundation Blocks, per c. ft. Ballochmyle	### in. per M. Gran te curbing stone, 6 in. x 20 in. per lineal (oot. ### TOTOINTO. Rocfing (** iquare). ### red	7 00 100 100 100 100 100 100 100 100 100	Ontario. Keene's Coarse "Whites". Fire Bricks, Newcastle, per h Scotch Lime, Per Barrel, Grey "White Plaster, Calcined, N. B Hair, Plasterers', per bag. The following are the quo at Toronto and Montreal: Cut nails, sod & 6-d, per ke Steel "" CUT NAILS, FENCE 40d, hot cut 8d, 9d, 6d, 11 "" 4d to 5d, 11 "" Cut spike, ro cents per ke Steel Nails, rcc., per keg Tron Iron pipe, % inch, per foot "" % "" "" "" % "" "" "" 1 % "" "" "" 1 % "" "" "" 2 % "" "" 2 % "" "" 2 % "" Cut ad pipe, per lb "" Galeanite Adam's—Mar's Best and Qui to 24 guage, per lb 28 "" Cordon Crown— 16 to 24 guage, per lb 28 "" Note.—Chesper grades abo Sterictur Steel Beam, per too lbs "" angles, "" "" angles, "" "" angles, "" "" angles, "" "" plates, "" Sheared steel bridge vilste	10 1506 600 500 550 1700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 2700 3500 1600 21 00 150 150 150 150 150 150 150 150 150 1