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## 

The Municipal Council of the City of Nanaininvire proposals up to MONDAY, =9,u APRIL, ǐg gs, end
chase of

## \$10,500:00 DEBENTURES

issued undtr the wuthority of the Commercial Filling By-Law; 2894. The Council restrves the right to seject the highest or any proprasil.
S. GOU゙GH, City Clerk.

Nanaimo, B. C., and March, 695 .

## Notice to Contractors

[^0]
## TENDERS

Will be received for a BRICK RESHLBI:NCE for (; F. Mcklam, Smath s.ills, Ont. Piariving be seen at the office of the underigued from the 13 th to the
sth inst. Temders close on the 17 th imat. at o vilock. The lunest or ans tendet ave uctesmady abequel. LANGLEY \& LANGLES, Archisects, Canada I.ife Building, Tornnto.

## THNTDHRS <br> TO EXCAVATORS

Tend-x will be received by we undersiphed up to SATURDAY, APRII. Bri, at welve o clock, noon, for the clearing away of all old bu dills, etc., and for building for the Independent Order of Foresters at the North-west cortier of $13: a y$ and Rahmumt sireets. Toronto. Plans and specificativin maas be vecta :th abd after Thursday, the ith inss., and all information obtained at the offices of the Architect.

GEO. W. GOUINIOCK, Arhhitect,
53 King Street East
The lowest or anf tender not necessarily accepted.

## TENDERS

 until noon of TUESDAV, APRII, zatin, for the

Heating of an Addition to St. Francis Xavier's College, Antigonish, N. S.
and of an adjacent Duecling House, whth stean or Hos Water. Tenderers will make their own plans and pecifications
Plans of the buildugs ano ans information on whech to base heaing plans and eximite: mas te wbiamed from the undersigned. The right is reserved to reject the lowest or any tender.

## I). A. CHISHOLM, Treasurer of the Bional of College (invernus

Antizonish. N. S., April 3 rd, 1 عqя.

## TENDERS

Sealed tenders, masked "Wateruorks," will be re-
cet.ed by the underajned on or before the
1st of May, 1895,
For the construction of

##  THE TOMH OF SODBARY, ONI.

Plans, specifications, ctc, can be seen and forms of der badat the following places:
Ofrice of Gordon \& Rorke, Encineers, Sudburs: Montreal Star, Montreal.
Mesers MfcPherson, Clark \& Jarvas, Bar-
An accepted bank cheque, equal to s per cent. of the amount of tender must accompany cach tende:. This cheque will be forfeited if the party declines to enter into the contract and will be retumed in case of non accepiance of zender.
The lowest or any tender not necersarily acsepted
March 88, 8895.
A. FERRIS,
E. Schmidt, contractor, of Pembroke, Orit, has formed a partucrship with w. Markus, and the new film will be known as Schmadt \& Markus.

## CONTRACTS OPEN.

AMherst, N. S.-An electric street rallway for the town is spoken of.
dunnvilif, Ont. - The Dunville Electris Light Co. will erect a power station.
Fredericton, N. B.-A considerable amount of asphalt paving will be cione this summer.
St. Henki, Que-The Council has decided to issue debentures to meer its indebredness.
Sarnla, Ont.- Plans for the new hospital are being prepared by H. G. Phillips, architect.
Waterloo, Ont. The construction of a sewerage system has been decided upon by the Council.
Atherley, Ont.-Robt. Calderwood is making preparations in crect a new brick dwelling house.
Huli, Que- The School Commassioners have decided to buld an extension to St. Antoine convent, at a cost of $\$ 5,000$.
Sherbrooke, QUe-The erection of a new Episcopal church is being agitated. Canun Thornelue is the prime mover in the project.
Arton Vale, Ont. A bonus of $\$ 15,000$ has been granted to J. C. McFarlane $\delta^{-}$Cn., towards the erection of a cigar factory.
K.also, ONT.-A by-law authorizing the Council to borrow :he sum of $\$ 10,000$ for city impovements has been carsied by the ratepayers.
St. John, N. B.-G. E. Fairweather, architect, invites tenders until the 13 th for the erection of a stable and conservatory for W. H. Thorne.
Brantford, Ont.- A proposal to introduce a new systen of heating into the Court House and gaol is under consideration by the County Council.

Gorrif, Ont:-Hantmond Bros.'steam saw mill was wrecked by a flood on Monday lasi. A dam at Wm. Dane's grist mill was alto washed away. The loss will reach $\$ 4,500$.

Petekboró, Ont.- A movement is said to be on foot to extend the Peterborough Electric street railway to Lakěfield, a distance of nine miles, using the G. T. Ry. Co.'s track.

Carleton Place, Ont.-Mr. Fowler, of this town, who is the chicf premoter of the Perth \& Lanark Electric Ralway scheme, states that the entetprise will shortly assume practical shape.
Listowell, Ont. - The Town Council at a iccent meeting, decided to ask for tenders until Miay ist for lighting the town with electricity. Fouricen arc lights of from 1500 to 2000 caudle power will be required.
Cornwall, Ont--Mr. J. L. Weller has bren engaged to act in conjunction with Mr. Brown, the Town Engineer, in
preparing plans and specifications for brick and tile sewers, to be built during the year.

Niagira Falis, Oni.-The Niagara Rover Tramway Co. has been incolporated with a capital stock of $\$ 40,000$, to establish a cable tramway over the Nagata River, in the counties of Lincoln and Welland.

Windsor, Ont.-Daniel Scotten has purchased property at the corner of Ouellette avenue and London streets, and is having plans prepared for a four-story building containugg stores and offices to be built thereon.

Vancouver, B. C.-Tenders for electric lighting for the city are invited by Thos. F. MicGuigan, City Clerk, until Saturday, the Ist of June next. Condiditions, etc., may be obtained from the City Engincer.

Brockville, Ont.- Tendersare asked by John Stagg, Chairman Board of Works, until the 22nd of April for the supply and delivery of 100,000 feet of pine and cedar simber, for sidewalks and street purposes.

Halifax, N. S. The City Treasurer has been authonized to advertise for a loan of $\$ 175,000$.-The Council has authorized the construction of water mains to Willow park, at a cost of $\$ 11,000$.

BARRIE, ONT.-At a special meeting of the Public School Board held on April 4 th, the plans of Kennedy $\&$ Co., for alterations and improvements to the Central school, were adopted. The cost of the work will be about $\$ 8,000$.

Victoria, B. C.-The biackman \& Ker Milling Co., of this city, have decided to establish an oatmeal mill and elevator at South Edmonton, Alberta. Construction will be proceeded with as soon as plans can be prepared.

Huntsvinie, Ont.-The Huntsville $\&$ Lake of Bays Transportation Company is applying for incorporation to establish an electric railway between Lake of Bavs and Peninsula Lake. The capital will be \$25,000.

Levis. Que. - The corporation has received an offer from a company which proposes to establish a system of waterworks and drainage for the town, also to light the streets by electricity. Negotiathons are now in progress.

Rat Portage, Ont. - The Town Council is considering the question of constructing sewerage and waterworks systems, but no definite steps will be taken in the matter, until finencial atrangements are made to cover the cost of the work.
burk's Falls, Ont. - Competitive plans for a iwo-story four-roomed brick veneer school-house are invited by the School Board until the 1 th of May. The successfal competitor will receive a commission of 5 per cent. on contract price. Particulars may be obtained from James Sharpe, Secretary of the Board.

Gananoque, ONt.-Application has been made for a free site, free water and exemption from taxation for the establishment of a branch bere of the White Cloud Novelty works, of White Cloud, Mich.It is staied that the sum of $\$ 12,000$ will be placed in the Dominion supplementary estimates for building a new drill hall in this town.

Moncton, N. B.-The City Council is arranging to place on the market $\$ 250$,000 of city bonds. - The New Brunswick Legislature has been asked to contribute the sum of $\$ 25,000$ towards the proposed dock at this place, the city having already granted that amount. A similar subsidy svill probably be obtained from the Dominion Government, and this amount will enable the work to be commenced.

Quebec, Que - The Governors of the
Jefirey Hale hospital have not yet chosen
an architect io prepare plans for their proposed new building, which is estimated to cost about $\$ 50,000$.-J. H. Beemer is satid to have decided to construct an electric railway throughout the city and extending to La Bonne, St. Anne. In connection with the soheme, a large hotel and park will be established at Montmorency Falls.

Kincston, Ont. - The City Engineer is preparing estimates for extending the waterworks system. - IV. Newlands, architect, is asking for tenders until 6 p. m. today (Thursday) for bulding a brick residence for J. C. Strange. - The City Council have accepted the terms of the Dominion Steel \& Blast Furnace Co., of Youngstown, Ohio, to establish a blast furnace here to cost $\$ 000,000$, and a bylaw will be submitted to the ratepayers asking permission to raise the sum of $\$ 250,000$ to bonus the enterprise.

BERLIN, ONT.-H. L. Jauzen is about to erect an opera house here.-Debentures will be issued to cover the cost of Market improvements. - The Town Council has resolved that the construction of sewers during the year shall be carr:ed out by day labor, and the stivers Committee has been authorized 10 secure the necessary materials, and engage an enfineer.-The Berlin \& Wiaterloo stieet Ralway is to be immediately converted to the electic system. Mr. E. Carl Breithaupt, of Berlin, has been appointed consulting engineer for the work, and is at present preparing the necessary plans and specifications.

Otrawa, Ont.-Tenders are invited by J. H. Balderson, Secretary of the Department of Railways and Canals, until Tuesday, the 3oth inst., for the supply and delivery of $\$ 25,000$ barrels, or any portion thereof, of Portland cement. Specifications may be obtained at the office of the Chief Engineer of Railways and Camals. - The Ontario Government has been asked to grant tinancial aid towards the construction of an inter-provincial bridge across the Ottawa river between this city and Hull. It is probable a grant will be made.-E. F. E. Roy, Sccretary of the Department of Public Works, invites tenders until Tuesday, the 30th inst., for the erection of a post-office at Rimouski. Que. Plans inay be seen at the Court House at Rimouski and at the above department.

Hamilton, Ont. - Ai the last meeting of the Waterworks Committee, the question of increasing the city's water supply was considered. It was decided to recommend to Council the adoption of the plan prepared by Mr. Haskins, City Engineer, which included the building of a new reservoir. The plan also provides for an additional set of pumps to be crected at the beach. The estimated cost of the scleme is $\$ 9 \$, 00$. Estimates were also presented and passed by the Committee for 6 -inch mains as follows: on Kent sircet, 350 feet, cost $\$ 470$; Aberdeen avenue, cost $\$ 1,540$; Barton street, cost $\$ 500$; Clark avenue, cost $\$ 1,170$.-Building permits have been granted as tollows: E. B. Patterson, two story brick dwelling on Market street, cost $\$ 1,225$; James Hobbs, two-story dwelling on Augusta st., cost $\$ 1,700$.

Winimpeg, Man.-Tenders for the supply of from 400,000 to $1,000,000$ feet 13 . M. of pine lumber, and for the supply of hardware as per schedule, are invited by the city unili Thursday, thee 25 th inst. Address I. C. Sproule, Charman Committec on Works, for further particulars. -Proposals are invited by the city, addressed to R. W. Jameson, Chairman Finance Committee, untul Friday, the 1oth of May, for the purchase of $\$ 91,538$ of local improvement debentures bearing interest at 5 per cent. per annum, payable half-yearly. - The Committes on Works have recommended that tenders be asked for a steel superstructure for the Osborne
strect bridge, and for tepaits to the piers; also that the ury engmeer be instructed to prepare plans and specifications for an overhead bridge in wood, iron, or steel, over the tracks and yard of the C. P. R.It is considered by local archutects that the amount of building operations in the city this season will be about the same as last year. Besides the new schools to be erected, there will be a far number of new residences and small buil-lings, but a large part of the work will be the renovation and improvement of buiklings, which will include stone foundations, steam and hot water heating, plumbing, etc. Mr. S. Frank Peters, architect, has the rebuilding of the Western Canada block and the Doll block in hand, and Mr. H. S. Griffith is preparing plans for two large business blocks and warehouses, two solid stone buildings, to be built at Stonewall, to cost $\$ 10,000$; for a $\$ 4,000$ church, and for a number of fine residences.

London, ONT:-Dr. J. D. O'Neil has been granted a permit for alterations to hotel property, cornei York and Talbot streets, to cost $\$ 2,500$.-J. H. Moran has purchased a lot on Wellington streets and purposes erecting a residence thereon.The bicycle clubs of this city have almost decided on the construction of a bicycle track at Queen's Park. The cost will be about $\$ 2,000$. - At a meeting of the London and Port Stanley Railway Company held last week, at "hich the secretary and enginecr of the Lake Erie and Detroit River railway were also present, the erection of new bridges across Kettle and Mill Creeks at St. Thomas was decided upon. The bridges will cost beween $\$ 25,000$ and $\$ 30,000$ each, and are to be completed within six months. Mr. De Gurse has been apoointed engineer for the L. E. and D. R. R., and Mr. O. Graydon for the L. and P. S. R. It is p:obable stecl bridges will be built.-The wardens of St. Mathew's church have not yet decided on plans for their pro'osed new church. Several designs have been submitted, but none have been found sultable, and it is not improbable that competitive plans wil be asked for.-Tenders are asked by the City Engineer untul the 15 th inst. for an addition to the Central fire hall.

Montreal, Que - The Hamburg American Packet Co. are asking for tenders for stecvedoring, grain lining, required on the fiansa line of steamers during the coming year:-Mr. Pearson, City Hall Engineer, presented a 1 eport to the City Hall Committee at the last meeting, showing that it would cost $\$ 15,160$ to put the City Hall in proper sanitary condition. Tne report was referred to a committee for consideration.- The Jesuit Fathers have decided to build their church in the parish of Immaculate, and have instructed Messrs. Tanguay \& Valleé. architects, of Quebec, to proceed with the work at once. The church will be 80 feet in width, built of Canadian stone, with all the latest improvements. The seating capacity will be four thousand. A handsome steeple wilt be built, and an electric clock placed therein. There will also be a chime oi bells which will probably be imported from France. The church will be lighted by electricity, and the total cost will be between $\$ 100,000$ and $\$ 150$, $\infty$.-The Lachine Rapids Hydraulic and Land Company has been formed for the purpose ot utilizing the water power of the Lachine rapids, and with this end in view, plans have been prepared by W. McLea Walbank, architect, and Thos. Pringle, hydraulic and mechanical engineer. It is proposed to construct a dam parallel to the shore, 3,500 feet in length, the wheels and power being located at the end of the property and the power house on a cross dam, containing 66 water wheels of 8,000 horse power under the average head. The site chosen is opposite the head of Isle au Heron.-The consideration of the
extension of the Bonsecours market, at a cost of $\$ 75,000$ has been postponed for a week by the Finalnce Committee.-- Building permits have been granted as follows: Wm. Robb, three story brick residence, Drummond st., cost $\$ 2.500$; Jas. Ogilvie Bros., 3 stotey stone front stote, corner Mountain and St. Catherine st., cost \$75,000; C. Belhumeur, 2 story brick cottage on Visitation street, cost $\$ 1,500$; Estate Cherrier, alterations to two stores, Nutre lame street, cost $\$ 5,500$.

Toronto, Ont.-Mr. F. H. Herbert, architect, has prepared plans for a residence to be erected on the n.e. cor. of Madison and Bernard avenues for W. R. Wadsworth, manager of the Bank of Toronto. The same architect is also preparing plans for a new residence on Spencer avenue, Parkdale, for W. R. Cavell, barriste, tenders for which will be called shortly.- It is learned that during the coming summer the completion of the Toronto Island breakwater is to be pushed forward. The principal patt of the work that remains to be done is the placing of the cribwork on the western side of the eastern gap in position. No decision bas yet been reached by the l'ublic Wionks Department at Ottawa iegarding the application of the city to have the breakwater extended from its present terminus along the south shore of the Island. What the Government proposes to do in that respect will be discloced in the supplementary estimates. - A deputation from Penetanguishene and Midland, among whom were Dr. Spohn, Charles Beck, of Penetanguishene and J. B. Horrell, of Midland, interviewsd the Ontario Government last week, requesting a giant of $\$ 3,000$ a mile for a three mile extension of the Penetanguishene and Midland rail. way to the Reformatory. The Government promised consideration. - The Cork Company of Candda, which is at present applying to the Dominion Government for incorporation, proposes to erect a factory in this city The provisional directors are Messrs. C. R. De Lat Sabliere, L. O. Dusseau, J. A. Gendron and L. O. Blachaud, of Toronto, and John Howard, of London, Enyland. -The Public School Board is asking for tenders until noon today (Thursday) for the supply of 1,000 desks and seats. - The Property Committee has placed the sum of $\$ 5,000$ in the estimates for a new fire hall on Durdas street. - The Buard of Works on Monday last ordered the laying of car tracks on Dovercourt toad, from College to Dundas streets, and the pavins of the strect with granite sets on a concrete foundation, dt a cost of $\$ 11,305$ - It has been derided that the new store building for Mr. R. Simpson, to replace the one recently destroyed shall be made as thoroughly fireproof as possible.-IBuilding permits have been granted as follows: Frank Addison, pair s.d. 2 story bk. dwellings, 78 and 80 Harvard ave., cost $\$ 2,200$; House of Providence, 3 story bk. add., cost \$25,000; Mrs. W. J. Stibbs, re-ercction of 32 Wellington st. west, cost $\$ 4,500$.

## FIRES.

V. H. Carpenter's basket factory at Grimsby, Ont., was destroyed by fire last week, also a small house belonging to the Maybee estate. Small insurance. - The Grand Opera house and thece stores at Goderich, Ont., were burned on the 4 th inst. The buildings were owned by George Atchison, and the loss is partially covered by insurance.-The residence of Hugh McLatchic, of Pendleton, Ont., has been destroyed by fire. Loss, $\$ 4,000$; no insurance. - The residence of $D$. $C$. Craig, at Vancouver, 13. C., was Durned lecently.- A dwelling house at Oakville, Ont., owned by C. W. Anderson, was destroyed by fire last week; partially in-sured.-The Mulvey school house $3 t$ Winnipeg, Man., erected two years ago
at a cost of $\$ 1,000$, was burned to the hround on the yth inst. Insurance, \$12,000.-The saw and grist mills of Andrew Thompson, it Strathroy, Ont., were consumed by fire durnge the past week. Loss, $\$ 5,000$; insurance, $\$ 1,600$.

## CONTRACTS AWARDED.

London, Ont.-A. Graham, of this city, has been awarded a large contract in Chatham for artificial stone pavements for the season of 1805 .

Amherstburg; Ont. - The MillerGatfield Coal Company has awarded the contract to Fluke and Babcock, of Windsor, for the construction of a large dock here.

Ottawa, Ont - A. Carvock's tender of $\$ 8,6 ; 4$ has been acrepted by the School Board for the erection of an annex to Elyin strcet school. W. I. Campbell's tender for supplying three boilers hats also been accepted.

Owen Sounl, Ont.--The Dominion Government has let a contract to Porter, Read \& Cowan, of this place, to build a dock 1550 feet in length on the west side of the river. The work is to be compieted by the 15 ih of June.

Malton, Ont.-The contract for the erection of a new Episcopal church has been awarded to the Coleman Planing and Lumber Co., of Burlington. The plans were prepared by C. J. (abson, architect, of Toronto.

Collingwood, Ont.-The contract for building a new wing to the Globe hotel, the property of John Rowland, has been awarded to Wilson Bros., of this town. for the sum of $\$ 6,375$, without heating Fred F. Hodgson, archıtect.
Guelph, Ont.-S. Rundle has been given a contract to build a two-story white brick house on Paisley strect, for Mrs. Foster. He has also received a contract to erect a brick house for J. J. Fox Elora road, near Marden.

Winnipeg, Man.-The contract for the Red Deer Valley railway has been let to R. Barclay Bruce, of Calgary, and construction is to commence it once. - The contrats for the O'Brien terrace unprovements have been let by Mr. C. H. Wheeler, architect, the amount aggregating about $\$ 8,000$. The brickwork, stonewolk and plastering will be done by Rounke $\mathbb{S}$ Cass; the paintung by J. A. (Continued on pase 4.)

# WILLIS CHIPMAN, B. A.SG., M. Can. Sox. C.E: : M. Am. Sio. C. E:. CIVIL AND SANITARY ENGINEER Water llorks - sinueruge <br> 103 BAY STREET <br> roronto. 

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Payne, and the carpenter work by A. C. Sulherland. The plumbing and beating will be let later on.
MONTKEAI, QUE-The muncipality of Verdim has awarded the contract for the construction of a dyke along the river Dank to Messrs. Pesnem \& Colener, at the price of $\$ 27,000$. The dyke is to be finislied by the ist of October.-Messts. Roy \& Gauther, arrbitects, have awarded contracts as follows for the erection of : cliurch at the corner of Roy street and Laval avenue: Maconry, Prenoveau \& Martmeau; carpenter and joiners' work, U. Pauze; roofme, Pelletier ※ Brosseaa; plumbing and heating, Lamarche $\&$ Lecletc ; plastering, Jos. Chimberland; painung' and glazing, Lefebve \& Duquette.
Toronto, Ont:- At a meeting of the Board of Works held on Monday the follownt tenders wice accepted: downdrausht furnaces at main pumping stathon, eight boulers, Hawle Down draught Furnace Co. of Chicise, III., $\$ 7.500$; asphating: Leater Latne, Kink to Colborne, Construction and Pann: Co, \$979 dredsing slipe, F. B. MicNamee, 25 c . per cubic yard; concrete sidewalks, Lombind strect, north side, between Victorit and Church streets, A. Gardner \& Co., $\$ 2.25$ per line.ll foot; Adelaide stieet, north side, between Post office and Chuch st., Construction and Paring Co., $\$ 1.89$ per lineal foot.- The ten-ler of Sinith Bros. of this city, for a chemucal fire engine, has been accepted by the Fire and Light Conmittee. The price is $\$ 1, \infty 1$. Six tenders were' sent in.

## BROKEN ASHLER:

This style of construction is gaining favor rapidly, and is destined to occupy a large place in bulding operations. Jome of the reasons for this are worthy of consideration, writes W. D. Lewis, in Stone. To begin with, it appeals to the artistic taste, for while the elements of its construction are few and simple, it produces an endless variety of sbading, owing to the mequalities of projections. It is this variety of expmession which constitutes its charm. Like the shading of foliage, where variety produces the picturesque. In work of uniform coursing, there is 100 short a contiast to the variety of shade, lacking that harmony of expression so characteristic of broken work. As in varied gradations of shade in foliage, there is a general uniformity of misoses, pecular to the kin.l of growth, so there is a unifothity of massing necessary to the best effect of this class of work. A certain proportion must be observed which will insure diversity, and obviate complexity. The key of proportion is found in the "riser" or "jumper", whose length and height should be nearly equal, the stretcher two-thirds the height, and about twice the length of the "riser," the "snip," onethird the height, and of varoous leneths, being easily fitted when needed. With this method of preparation, the mason's work becomes easy and expedious. Observing the rule of "two to one," two stones abutting the larger one, so as to coincide in height, and carefully breaking joint, to avoid vertical lining, distributing the different sizes eveilly as posstble, the work grows into "beauty which is a joy forever."

The Kingston Cheñical Fire Engine Co. have been granted incorporation, with a capital stock of $\$ 30,00$.
John Snowball \& Sons, brick and tile mannifacturers, of Markham toivnship, hative assigned to John Eçardt.
Peter Howard and Thos. O'Connell have been regísteréd prôpriettors of How. ará \& O'Connell, plumbers', Monfreal.

## DEBENTURES PURCHASED <br> Municipalities issuug debentures, no matter fot what

 purpose, will find a ready purchaser by applying to i, STIMSOX, 9 Toronto Streot, Toronto Any astistance required in computing calculations in Any assisance required in comper, will be gladly givel. $\mathrm{N}_{\mathrm{t}}$ IS.- Money to loan at lowest rates on first mortgage.Imperial Trusts Company of Canada
** CII HRGII जTILRET, TORONTO Capital, $\$ 4 \infty 0,050$.

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MUNICIPAL IEEBENTURES PURCHASED. MORTGAGES PURCHASED.
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are prepared to do piling on land or water, employing steam pile drivers or drop hammers.


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## Kingston Ghemical Fire Engine $\mathbf{O} 0$.

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This machine is the most powerful fire fighter. It has two cylinders, 40 gallons capacity I each. The combination of chemicals will not freeze, renders material with which it comes in contact non-inflammable, and will not corrode when not in use. For full particulars, write to the Head Office of the Company at Kingston.
D. D. WILSON, Managing Salesman.

JOHN BREDEN, Sec.-Treas., KINGSTON, ONT. asf For reference adiless H. YOULDEN, Chief Firc Department, Kingston.

## MUNCIPAL DEPARTMENT

## THAWING WATERPIPES BY ELECTRICITY.

The London Electrical Review disposes thus of Mr. C. Hyatt Woolf's novel suggestion in the Standard that a current of electricity should be employed to melt the ice in frozen water pipes:-"The first question would be how much frozen water is there in the pipe, and then the electrical cookery people could soon tell us what it would take to thaw it. Suppose the pipe is 50 feet long and one inch internal diameter, we get a little less than 600 cubic inches of water, or one-thurd of a cubic foot as its contents-this is about 2 gallons or 20 lbs . It requires a h. p. minute to raise 22 lbs . of water 1 degree C., consequently to boil this water or furnisb the heat to properly thaw the ice, about $100 \mathrm{~h} . \mathrm{p} . \mathrm{mh}$. ites would be needed, or ih. p. for an hour and three-quarters, that is about eight pence worth of current at 6 d. per Board of Trade unit. If the current were taken off the supply mains 13 amperes would be needed for an hour. A return circuit would probably be needed to prevent electrolytic action; to insulate the wire it night be strung with a row of glass beads close together. But we weary our readers, and, therefore, conclude with the suggestion that in the first place the effort of scientists would be better directed to ascertainiug how deep a month's hard frost penetrates in different soils, and in the second that the energies of the water companies and the capital required for electric appliances would be more economically expended in burying the supply pipes below that depth and sceing that they are well protected when they enter houses, and, perhaps, in addition fixing a small cock in a suitable place, which could be safely lef t running full bore, without overtaxing the companies' powers of supply"

## GAS ENGINES FOR PUMPING WATER.

The use of gas engines for driung pumping machinery is ha-dly practised at all in the United States outside of irrigatins work, says the Engineering Record, but in Germany they have been installed in a number of cities. At a recent meeting of gas and hydraulic engineers in Landsberg, Mr. Max Munzel described several of these plants. The authorities of Düren were the first $t u$ install such engines, which was done in 1884 . It became necessary to provide a system of water supply for a population of 30,000 , which was assumed to require about 790,000 gallons a day, to be supplied from two pumping systems working 12 hours a day. The two pumping systems which were built have a capacity of 33,000 gallons an hour each and are connected through a wrought-iron force main 14 inches in diameter with a waier tower of 145,200 gal-
lons. From this water tower a 12 -inch main leads to the system. of distribution mains in the city. Since the suction level was about 16 feet below the surface of the ground, horizontal plunger pumps were selected with 40 horse-power duplex motors. The power-house is about 65 feet long and 44 feet wide. The suction pipe of each pump is 14 inches in diameter. The double-acting pumps have plungers 14.4 inches in diameter and a stroke of 30.4 inches, making 30 revolutions a minute. The 40 horse-powel motors make ito revolutions a minute, the connection between the pumps and motors being through friction clutches and spur gearing. There is a two horse-power motor between the larger pair, which drives a line of shafting below the floor of the station. The motors have on their main shafts which ate belted to this shaft, so that by starting the small motor the larger ones are given the prelminary revolution necessary to set them in operation. Before starting up, the friction coupling with the pumps is thrown off and the by-pass valve opened. When one of the large motors has reached its normal speed the friction coupling is thrown on and the valve closed, thus putting the pumps at work. The total cost of the system of works amounted to $\$ 38,750$ for pumping station, pumps, motors, and water tower, $\$ 30,750$ for pipe, $\$ 6,250$ for wells and galleries, and $\$ 16,750$ for meters, service pipes, and miscellaneous work, or a total of $\$ 92,500$.
The completion of these works was followed speeduly by the construction of other pumping stations driven by gas motors.

## THE NEW PAVING STONE PROCUCED IN MINNESOTA.

A new paving stone has been discovered and those who have taken the trouble to examine its qualities are very enthusiastic in its pratse and assert that in a few years it will be the only material laid in the Northwest for paving. The stone is named by Professon Hall, of the state university, as a quartz biotite, and is composed of about 80 per cent. quartz and 20 per cent. mica. It is stated by geologists to be found in large quantities in Minnesota, and at least one quarry large enough to pave all cities of the Northwest has been opened near Little Falls. St. Paul, it is sad, will make an experiment with the new stone in the near future.
This quartz biotite resembles a very fine grained granite in appearance and is not open to any of the objectuons that have been made against this well-known paving material. In the first place, granite wears perfectly smooth and becomes slippery, and, as all know, takes a very high polish. As laid in this city, rough dressed, the street soon becomes a suc. cession of small slippery hillocks, for granite will not wear down even. This rock, being of a much firmer texture, will, it is clamied, in the course of tume wear down to an even surface, which will never become perfectly smooth and hence will not be slippery. If such is the case, it will also be comparatively noiseless as com-
pared with gramte. The new material is not at all soft. It is as heavy as granite and on account of the large percentage of quartz in its composition is hard and durable, even more so than granite.

It has been subjected to some very severe tests, side by side with the best specimens of granite, by interested parties in this city, and has held its own. In the matter of absorption of water this biotite or mica schist, as it is also called, ranks about the same as granite, For that matter, paving experts state that the absorption by any stone is hardly worth consideration. In the point of abrasion granite was found inferior. Samples of both, hewn to the same size and form, were placed in a rattler for several hours and upor being taken out it was found that the biotite had lost a smaller percentage. It is also stated that the new stone excels with regard to cleavage, and on that account it will be possible by the expenditure of the same amount of money as for granite to secure smoother surfaces on the paving blocks, and the latter will also be more uniform in size. There wall be no difficulty in securing an unlimited supply of blocks about three inches thick and eight inches deep, which are considered the mosi desirable dimensions when the blocks are laid without a concrete base.Minneapolis Journal.

## CORRECTION.

Mr. Hurd Peters, writes The ConTRACT RECORD that the paragraph published in this department on March 28th, stating that Mr. Wm. Murdock, C. E., had been appointed City Engineer and superintendent of sewerage and water supply for the city of St. John, N. B., was incorrect. Mr. Peters says: "I am, as I have been for upwards of 30 years past, City Engineer, no other having held that office. Mr. William Murdock was, on the death of his uncle, Mr. Gilbert Murdock; during the last year, appointed in his place, superintendent of sewerage and water supply, which is his present position and in no way interfering with myself as City Engineer." We gladly give place to this explanation.

## KOSMOCRETE CONCRETE SIDRWALKS.

The Engineering News of January $3 \mathrm{rd}_{2}$ in a short article on Concrete Sidewalks, states that they are rapidly beconing popular, and one special system is the Kosmocrete pavement, of which some 200,000 square yards have been laid in Brooklyn, N. Y., in addition to considerable amounts in other cities. A bottom course of dry einders, about 12 inches thick, is laid, and upon this a layer of concrete about 4 in. thick, composed of 3 parts of granulated granite or sharp gravel, 4 parts of $1 \frac{1}{2}$ in. stone and 1 part Portland cement. On this concrete is worked a facing about i in. thick, composed of granulated granite, a small percentage of silicious grit, Portland cement and carbon. The purpose of the granulated granite mixed with silicious grit is to prevent the surface froni becoming slippery. This concrete is used not only for sidewalks, but fo- stable floonng and the paving of public buldings, meluding the armouries of the 23 rd and i4th regiments in Brooklyn. It is also used for making sewer pipe. It is made by the Wilson \& Baillie Manufacturing Company, of
Brooklyn.

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Fire Bricks and Cement
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Prices of Building Materials,
Toront. - The repott of proposed building operations from the diflerent cultes ant: towns in. dicate that the season of 1895 is opening with at satisfactory out'ook, and the volume of trade will in all probilulity be in excees of last year. Prices of building materials are likely to reman firm. In hardware, trade conthuts to improve, and a number of carlowd lots tave been shpped. Cut and wire nails are moning freely. Cement and firebrick are sombwhat guet, and prices remain unch inged. Lead and iron pipe and galvanized ron are moving freely and some large orders are reported. Considerable plate glass is being sent out.
Monrreal.: Orders are leing placed for spring tride, which has a tendency to keep prices ñrm. A moderate demand is reported for c :ment. and sombe enquries have been made for forward importations. lïrebricks are quiet. The heavy ron and metal market is dull, with no changes to note. Glass is steady and quotations remain at $\$ 1.53$ to $\$ 1.20$ for first break, and $\$ 1.2510 \$ 1.30$ for second.

## LOAIHE゙に.

CAK OR CARGO lots.
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cutiong up planks, i $3 / 4$ and
B. M .


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Thomson's Gatelawbridge, cu.
Credit Valley Rubble, per car
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32
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No. I Blue Dimension.
No. I Buff Promiscuous.
No. I Buff Dimension..
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Quebec and Vernont rough
granite for building pur-
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poses, per c.f. f.o.b.quarry
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For omamental work, cu. f.
Granite paving blocks, 8 in. to
12 in. x 6 in. x $4 / 3$ in., per MI
$\begin{array}{ll}33 & 150 \\ 35 & 20\end{array}$
Gin. $\times 6$ in. $\times 4$ Sis in., per $M$
Granite curbing stone, 6 in. $x$
20 in., per lineal foot......
5000
$2 s$ in., per linenl foot......
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Rorfing (e) square).
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Terra. Conta Tile, per sq..... 180
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PATNTS. (Irs oil, 정 15 .

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Cement, Portand, per bbl 23530 $\begin{array}{lllll}\text { " Germar. } & \text { I } & . . & 235 \\ \text { " London } & .4 & . . & 250 & 275\end{array}$

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## MARDWARE.

| Cut nails, sid \& 6 d, per keg | 210 | 225 |
| :---: | :---: | :---: |
| Steel " " " " 250 |  | 235 |
| CUT NAILS, PENCE AND CUT Shikes. |  |  |
| 40d, hot cut, per 10 lbs | 5 | 5 |
| 3od, "1 " $11 . .$. | s | 10 |
| zud, 36 d and 12d, hot cut, per |  |  |
| $100 \mathrm{lbs..................}$. | 15 | 5 |
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| 8d, 9d, "1 "1 | 25 | 25 |
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| 4d to 3d, " "1 "10 | 60 | 60 |
| 3d, "4 "1 " | $1 \infty$ | $8 \infty$ |
| 2d, " " " | 150 | 50 |
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| 3d to sd cold eut, not polished |  |  |
| fink blusd nails. |  |  |
| 3d, per recolbs.............. | 150 | 150 |
| 2d, | 200 | 200 |

CASING AND DUX, FI.OORING, SHOOK AND TOBACCO BOX

\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{\multirow[t]{2}{*}{12d to 3od, per 100 lbs}} \& . $\cdot$ \& 50 \& 50 <br>
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\hline 6d and 9 d , \& 1 \& " \& \& 90 \& 90 <br>
\hline 4d to 5d. \& $\because$ \& " \& \& 110 \& 180 <br>
\hline $3{ }^{\text {d, }}$, \& \& \& \& 150 \& $\pm 50$ <br>
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\hline \multicolumn{6}{|c|}{Slating nails.} <br>
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\hline \multirow[t]{2}{*}{3/8 110} \& \& \& \& 175 \& 75 <br>
\hline \& \& \& \& 225 \& 225 <br>
\hline \multicolumn{6}{|c|}{Clinci nails.} <br>
\hline \& inc \& per 10 \& lbs. \& 85 \& 85 <br>
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\hline 2 and $21 / 4$ \& " \& 1 \& " \& 115 \& 115 <br>
\hline \multirow[t]{2}{*}{13/2 and $13 / 4$} \& 4 \& \& " \& 135 \& 135 <br>
\hline \& \& \& " \& $2 \infty$ \& 20 <br>
\hline 1 \& \& \& " \& 250 \& 250 <br>
\hline \multicolumn{6}{|c|}{Sharf and flat pressed nails.} <br>
\hline \& inc \& per 10 \& lbs. \& 135 \& 135 <br>
\hline $23 / 2$ and $23 / 4$ \& \& \& \& 150 \& 250 <br>
\hline 3 and $21 / 4$ \& " \& \& " \& $\times 65$ \& $16 \underline{1}$ <br>
\hline $11 / 2$ and 13/4 \& " \& \& " \& 185 \& 185 <br>
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\hline 1 \& ' \& \& " \& $3 \infty$ \& 300 <br>
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\end{tabular} STBEL WIRE NAIIS.

Steel Wire Nails, 75, 10 and $5 \%$ discount frm printed lise. Xros Ptye:



[^0]:    Seated tenders, separate or bulk, will be recelved by the tmiensiknte up to to ciclock, noon, WEDNES. DA, APRIL ${ }^{17771}$, 1905 , for the Brickwork, Plastering, Campenter and Joincrs swork, Slating and Painting
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