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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.

Vol. 7.

MARCH 12, 1896

No. 6.

THE CANADIAN CONTRACT RECORD,

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TENDERS

Will be received at the office of the City Clerk, Chatham, Ont., up to NOON OF MONDAY, THE 30TH DAY OF MARCH, INST., for the following supplies and works for corporation purposes, for one year from 1st April, 1896:

So much per foot for vitrified sewer pipe, to be de-livered in such quantities and at such times and places in the City of Chatham as may, from time to time, be

in the City of Chatham as may, from time to time, be required.

So much per lineal foot for stone curbing, to be delivered free on board cars at Chatham.

So much per square foot for putting down such stone walks or crossings as may be required.

Also so much per square foot for imitation stone walks, all excavations made and material found by the contractor. All measurements of areas or openings in walks when they occur to be deducted; all tenders for this work to be accompanied by a specification of the work to be done.

Specifications and further information to be had on application at this office.

The council reserve the right to reject any and all

JOHN TISSIMAN,

County Clerk.

Chatham, Ont., March 12th, 1896.

TENDERS FOR BUILDING A CHURCH

Tenders will be received by the undersigned in sealed envelopes (marked Tender for Church) up to SATUR-DAY, APRIL 4711, A.D., 1896, at 7 p. m., for erecting a Brick Church in the Village of Credition.

Plans and specifications can be seen at the office of H. C. Mellride, Architect, London, or at the office of the undersigned, after March 20th, 1896. The lowest or any tender not necessarily accepted.

HENRY EILBER, Crediton, P O, Chairman of Committee.

SEALED TENDERS

Addressed to the Architects will be received up to 12 o'clock, noon, on FRIDAY, MARCH 2011, for the erection of a

BRICK RESIDENCE IN THE ANNEX.

The plans and specifications may be seen at the office of the Architects.

lowest or any tender not necessarily accepted. CURRY, BAKER & CO., Architects,
70 Victoria Street, Toronids

USEFUL HINTS.

GLUING FOR STRENGTH .- It is stated that in putting together quartered pine or any other kind of wood in fact, greater strength and durability can be obtained by placing the grain of the wood at an angle of sixty degrees than can be obtained by crossing at ninety degrees. The reason for this is that as all wood expands and contracts more or less under the variations of moisture in the atmosphere, the pieces glued at an angle of sixty degrees can expand and contract to a certain extent without tearing themselves apart, as is the case when glued at an angle of ninety degrees. The sixty degree glue joint simply pulls the object out of a place a little and disturbs its shape, while the ninety degree glue joint pulls things all to pieces in its effort to accommodate itself to climatic conditions.

Take india tubber, cut into small pieces and digested in sulphutet of carbon, a ielly will be formed; this must be treated with benzine, and thus a much greater proportion of caoutchouc will be dissolved than would be done by any other method.

The liquid might be strained through a linen cloth and the sulphuret of carbon be drawn off by evaporation in a water bath, after which the remaining liquid may be diluted at will with benzine, by which means a transparent, but still yellowish, liquid may be obtained. This liquid incorporates easily with all fixed or volatile oils. It dries very fast, and does not shine, unless mixed with resinous var-It is extremely flexible, may be nishes. spread in very thin layers, and remains unaltered under the influence of air and light. It may be employed to varnish geographical maps or prints, because it does not affect the whiteness of the paper, does not reflect the light disagreeably, as resinous varnishes do, and is not subject to crack or come off in scales. It may be used to fix black chalk or pencil drawings, and unsized paper, when covered with this yarnish, may be written on with ink.

CONTRACTS OPEN.

BLYTHESWOOD, ONT.—B. Roadhouse is preparing to build a brick dwelling in the spring.

QUEBEC, QUE.—It is stated that new churches are to be erected at Hedleyville and at the Palais.

PORT ELGIN, ONT .- A deputation has requested the government to improve the harbor at this place.

GRAND MANAN, N. B. - Burnham & Morrill, Portland, Me., will erect a lobster factory here, 100 x 20 feet.

WALKERVILLE, ONT. - Hiram Walker & Sons are negotiating for a site on which to erect a five-storey hotel.

NEWMARKET, ONT .- The installation of an electric light plant has been decided upon by the town council. Estimated cost, \$8,000.

FLINTON, ONT.—The congregation of the Church of England has purchased village lots for the purpose of building a brick church.

ONT. - The HAVELOCK, Methodist church will be solid brick, estimated to cost from \$3,000 to \$4,000. Contract not yet let.

ELORA, ONT.—The Cockroft, Talbot & Harvie Carpet Co. propose operating a carpet factory here. The capital of the company is \$99,000.

GALT, ONT.—The market committee have been instructed to procure plans for enlarging the market building. The cost will be about \$5,000.

FREDERICTON, N. B.-A bill has been introduced in the Provincial legislature providing for the construction of a system of sewerage for the town.

AMHERSTBURG, ONT .- Application has been made to the government for a charter for the construction of an electric railway from Amherstburg to Harrow.

DUNDAS, ONT .- Mr. Bertram has given notice in Council that he will introduce a by-law to provide for the erection of a new fire hall at the next meeting.

WINDSOR, ONT.—The Water Commissioners are considering a scheme of constructing two wells for waterworks purposes, each 50×20 feet and 18 feet deep.

WOODSTOCK, ONT.—The congregation of Knox church have decided to erect a new edifice. The site has been purchased new edifice. The site has been purch and plans will be prepared at once. cost will be about \$35,000.

AYLMER, ONT .- The Aylmer Canning Co. propose erecting a brick addition to their factory in Hamilton and a frame addition to their buildings in this town. Estimated cost \$3,500. Contract not yet Estimated cost \$3,500.

BARRIE, ONT .- The Joint Stock Company have adopted the plans of Messrs. Kennedy, McVittee & Co., for the new agricultural building, to be used as a hockey and curling rink in winter; size 207 × 70 feet. The Public School Board have adopted the plans of the same architects for the additions to the model school here. The above architectural firm are also receiving tenders for three dwellings for E. Levigny and for the improvements to John Coffee's hotel.

MOSGROVE, ONT.—F. W. Harmer, township clerk, will receive tenders until Friday, the 20th inst., for the erection of a town hall. Plans may be seen at the office of M. E. Edey, architect, 51 Sparks street, Ottawa.

FAIRVILLE, N. B.—The question of furnishing a water supply for the town is under consideration. A proposal has been made to secure the necessary supply from the system at St. John by means of water mains.

KINGSTON, ONT.—T. O. Bolger, City Engineer, will receive tenders on behalf of the city until the 19th inst. for the following supplies: 200,000 feet B. M. of 2 and 1½ in. plank; 40,000 feet lineal of 5x 4 cedar sleepers; hardware, etc.

TORONTO JUNCTION, ONT. — The Board of Health have decided to cooperate with the municipalities of Weston, North Toronto, East Toronto and the Township of York in the erection and maintenance of an isolation hospital.

ST. CATHARINES, ONT.—Tenders are invited by Johnson Clench until Friday, the 13th inst., for an addition to the general and marine hospital, also for the heating and plumbing required. Specifications may be seen at the office of Wm. B. Allen, architect.

GRAND VALLEY, ONT.—The Railway Committee of the Ontario parliament have authorized the Grand V illey Railway Co. to change its proposed route from Berlin to Brantford, to extend to the village of Copetown, passing through the townships of Beverley and Aucaster.

GUELPH, ONT. M. Odell has purchased a building lot and proposes erecting a new residence. The chemical laboratory, which was burned last week, will be rebuilt at once, and will be made one storey higher. Part of the old walls will be utilized in reconstruction.

BROCKVILLE, ONT. — The Public School Board is negotiating for the pur chase of Victoria Park for a school site. —The Young Men's Christian Association will erect an \$8,000 building this summer. —A gynnasium costing \$3,000 will be built to the Collegiate Institute building.

STRATFORD, ONI. A project for the construction of a steam or electric railway from Embro to Stratford, a distance of seventeen miles, is being considered by the Board of Trade.—The County Council have resolved to purchase 53 acres of the Idington farm for a House of Refuge site.

HALIFAX, N. S.--Plans for the new building to be erected by Mr. J. E. Roy have not yet been prepared. — Tenders are invited by J. C. Dumaresq, architect, until Monday, the 23rd inst., for the erection of a new wing to the school for the blind and for making alterations to present buildings.

WOODSTOCK, N. B.—The town is asking authority from the legislature to raise \$10,000 by a vote of the ratepayers for the extension of the water works system.—The charman of the water works committee has been authorized to get tenders for the building of a wooden or steel bridge across the creek.

VANCOUVER, B.C.—Dyking operations are being carried out in the Fraser river valley. The Provincial government have guaranteed interest on \$254,000. The advisability of a grant from the Dominion and Provincial governments for a survey of the Fraser river, with a view to improve the channel and prevent floods by dredging, is also being discussed, and will be brought before parliament.

CHATHAM, ONT.—The Chatham City & Suburban Radway Co. are seeking incorporation to construct an electric railway through the city to a point near the Raleigh and Harwich town line at Lake Erie, with a branch through the township of Dover to the town of Petiolea.—The question of the city's water supply is still under consideration. At a recent meeting of the Council Mr. Jewell, of Chicago, explained his filter system, which he offered to place at about \$8,000 for a 1,000,000 gallon plant.

LONDON, ONT.-The City Engineer will receive tenders until the 12th inst. for the supply of 500 cords of stone.—The city council will apply to the Ontario Legislature for permission to borrow \$205,000 for the construction of the proposed sewerage system. — Work will shortly be commenced on a new business block on the Higgins property on Dundas street. The block will consist of four large stores, and will be three storeys in height. The building will have a pressed brick front, with cut stone trimmings. The cost will be \$12,000 to \$15,000. Mc-Bride & Farncombe, architects.—Burke & Horwood, architects, Toronto, invite tenders until the 14th inst. for the erection of a Baptist church in South London. Tenders received at the office of H. C. Mc-Bride, architect.—The School Board is considering the question of additional school accommodation. A special conmittee has reported in favor of the erection of thirty-two new rooms.-Plans are being prepared for additions to the car stables of the Street Railway Company.

OTTAWA, ONT .- Building permits have recently been issued as follows. D. Cuthbertson, for E. W. Clark, four storey brick veneered terrace on Second avenue, to cost \$3,600; D. Cuthbertson, for Mr. Cost \$3,000; D. Cuttbertson, for Mr. Plumb, double brick veneered house on Fourth avenue, to cost \$1,800; E. H. Holiby, frame dwelling, on Jane street, \$900, W. A. Bradshaw, frame dwelling on Fifth avenue, \$900, D. O'Grady, frame dwelling on Cambridge street, \$1,000.

Mr. O. B. Sheppard was recently in this city in connection with the proposal to erect an opera house here. posed is at the corner of Bank and Somerset streets. The Ottawa Amatuer Athletic Club are considering a project to build a \$16,000 wing to the Elgin street end of the present building. The baseend of the present building. ment will be devoted to a bowling alley, the second storey to the secretary and director's rooms, and the third storey will give a stage, to be added to the present gymnasium, with large boxing rooms and bathroom.—The Board of Directors of the Protestant hospital have finally adopted the plans prepared by Mr. Calderon, architect, for the proposed alterations. The cost of the work is not to exceed \$4,5000. - Nixon's confectionery establishment on Sparks street is to be enlarged and improved.—The School Board has recommended the purchase of a site in St. George's ward for a new school building.

Hamilton, Ont.—The Wentworth Cycling Club, which is applying for incorporation, propose to erect a club house at an early date.—In connection with the scheine to divert the east end sewer, the city engineer intends to propose a system of interception.—The police commissioners are discussing the proposal of introducing the call-box system. The cost is placed at \$5,000.—The market committee have decided to erect a shelter at once, plans therefor to be submitted on the 20th of April. It will be 300 feet long and will cost \$6,000.—The J. G. Brill Co., car builders, of Philadelphia, are said to be considering the location of a branch factory in this city.—The Hamilton Radial Railway Co. and Lake Shore Electric Railway Co. have applied to the Nelson Township Council for right of way over a portion of the Beach. The first mentioned

Company proposes to build from Hamilton to Burlington this year. The Lake Share Company has a charter to build a line from Hamilton to Oakville.—The R. C. Y. C. have decided to rebuild the club house, at a cost of \$3,000. A Toronto company is considering the erection of a factory near the smelting works for the manutacture of mineral wool.—It is rumored that the Hamilton Radial Railway Company proposes to buy the old post-office building on James street north and convert it into a station.—G. F. Simpson is promoting an enterprise to supply electricity for lighting and power purposes.—Forty-one tenders have been received for the construction of the Collegiate Institute and Normal School. A meeting will be held in a few days to award contracts.

WINNIPEG, MAN.--It is said to be the intention of the government to grant \$200,000 towards the improvements of the St. Andrews rapids, near this city.-The Board of Trade opposes granting exclusive rights to the Hudson Bay Canal & Navigation Co. It is believed the Dominion government should undertake the construction of the proposed water way from the southern boundary of the province to Hudson Bay.—The Committee on Works has recommended the construction of the following pavements: Assimboine avenue, from Main street to Kennedy street, cost \$12,669; York avenue, from Smith street to Kennedy street, cost \$5,347; St. Mary avenue, from Main street to Donald street, cost \$4,109: Graham avenue, from Main street to Donald street, cost \$4,109; Ellice avenue, from Notre Dame avenue to Donald street, cost \$2,377; Market street, from Main street to Bertha street, cost \$4,630; Kennedy street, from Assimboine avenue to Broadway, cost \$5,482; Donald street, from Assimboine avenue to Portage avenue, cost \$14,710.—The Provincial government has been requested to take into consideration the extension of the Stonewall branch of the Canadian Pacific railway for a distance of 15 miles.—The city council are considering the proposal to grant \$30,000 for permanent improvements to the Exhibition grounds.capitalists are considering a proposition to erect a large opera house with a seating capacity of 1,200 persons. Among the promoters are Messrs. John Galt, Robert Kerr and A. M. Nanton.—Geo. Browne, architect, is preparing plans for a stone and brick residence for W. H. Culver, two storeys, with attic and basement and all modern convenience. Mr. Browne also has plans in course of preparation for a residence for Wm. Blackwood.

MONTREAL, QUE — Although it is believed that building operations in this city will not be brisk this season, considerable work will be carried out. new C. P. R. station will be commenced shortly, and the foundations built this year. The Street Railway Company contemplate making extensions to their car sheds, power-house, etc., besides laying considerable additional track. Watson & Foster's mammoth wall paper factory will also be built, the plans for which have been prepared by Mr. A. C. Hutchison. The building will be 325 feet × 106 feet, with an additional warehouse measuring about 108 feet square. The main building will concist of a becomes with an ing will consist of a basement, with one floor above, while the extra warehouse will be three stories high. The old Standard building, in which the Ville Marie Bank is located, will receive two additional stories this year, bringing it up as high as the company's new structure alongside. Mr. A. F. Dunlop, architect, has the work in hand. There will be a hydraulic steam elevator, while the plumbing will be entirely renewed. It is stated that the company estimates the cost of alterations at \$25,000. — The Lachine Rapids Hydraulic & Land Co. will receive proposals until the 25th inst., for genera-

tors, etc., necessary for the transmission 16,000 horse power. W. Mc Lea Walbank, managing-director, 214 St. James street. The Harbor Commissioners invite tenders until the 17th inst. for the supply of castings, iron, spikes, bolts, oil and other stores required for the next twelve months, also for supplying 5,000 tons of steam coal. Alexander Robertson, secretary. — The Commissioners have decided to request the Dominion government to advance a sum not exceeding \$2,000,000 to be applied for the redemption of certain debentures and for the construction of necessary works in the harbor.—A. C. Hutchison, architect, is preparing plans for a pressed brick residence for H. Watson. Same architect is also calling for tenders for a stote and d selling for Mr. S. White. -A. T. Taylor, architect, is preparing plans for the pro-posed additions to the Jeffrey Hale hospital in Quebec. - A building permit has been granted to the Sisters of the Providence, for the erection of a presbytery on Dufresne street, two stories, in stone, to cost \$4,000.

TORONTO, ONT. - The following sums have been placed in the government estimates for the Province of Ontario for public works: To provide new channel for flood water and repair lock at Magnet-awan village, \$5,000; Pennsula Creek, to dredge channel, \$2,500; Gull and Burnt river works, to rebuild dams at outlets of Kenesis, Grace and Bear lakes, and to extend Hawk lake slide, \$5,000; Scugog river, to improve channel below Lindsay lock, \$3,000; Madawaska river, to construct swing bridge at Comberniere, \$1,100; Nation river, reconstruction of bridge over Nation river, near Castleman, \$2,000; for improvement, Mississippi river at Ferguson's Falls, \$1,500; constructing dredge for completion by the Dominion government of work of dredging and deepening channel of Nation river, \$4,000; Castor river improvement, \$5,000; River Aux Raisin, deepening and removing rock obstructions from channel, \$2,000 -Mr. J. J. Withrow, president of the Industrial Exhibition Association, is urging upon the city council the necessity for increasing the accommodation in the main building at the exhibition grounds. It has been suggested that the building might be enlarged by extending south wards the full length of the building, at a probable cost of \$20,000. The machinery hall requires improvements, to cost \$6,000. An improved building for heating apparatus is also required.—The Parks Committee have decided to expend \$1,700 on painting and decorating the Horticul-tural Pavilion. The interior work will be done this year.—Mr. F. E. Fellows, C.E., will receive tenders until the 17th inst. for the construction of a grand stand and other structures in the new armoury, for the Canadian horse show.—Property in Parkdale is reported to be meeting with considerable demand, and plans are in course of preparation for several new houses.—Mr. Keating, city engineer, has stated that the general plans and specifications for widening the Queen street sub-way have been approved of by both the Grand Trunk and Canadian Pacific Railway Companies, the only matter yet in question being the superstructure.—The Board of Works has recommended that in accordance with the recommendation of the City Engineer, a by-law be sub-mitted to the people to raise \$75,000 for constructing a new steel conduit across the bay. -- The Caledonian Society and St. Andrews Society are considering the erection of a memorial hall to be built in honor of the late Robert Burns .- Building permits have been granted as follows. Wm. White, pr. s.d. two-storey and attic bk. dwellings, s. e. cor. Lopald and Dialing ave., cost \$4,500, also pr. s. d. two-storey and attic bk. dwellings, 105-7 Springhurst ave., cost \$4,500; J. Ferris Smith, pr. s.d. two storey and attic bk. dwellings, 1411 King st w, cost \$4,500; Rev. Peter Addison, two-storey and attic bk. dwelling, 28 Markham st., north of Harbord st., cost \$2,100; Hutchins & Burns, pr. two-storey and attic dwellings on Crawford st., cost \$5,000.

FIRES.

The residence of John T. Campbell, at Eagle, Ont., has been destroyed by fire—The McMaster Manufacturing Co.'s establishment at Orangeville, Ont., was totally consumed by fire on the 7th inst. The building, which is owned by Mr. Stephenson, is valued at \$5,000, on which there is an insurance of \$2,500 -At Fordwich, Ont., on the 4th inst., J. C. Bell's hardware store and Dr. Spence's drug store were burned. Loss, \$3,000, partially covered by insurance. The fruit house of William Wade at Brighton, Ont., has been burned. Loss on building, \$1,000.- Daniel McCaskell's residence at Beamsville, Ont., has been burned. The Presbyterian mission church at Pottersburg, Ont., was destroyed by fire on the 9th inst. -The Cofe block and the Williams block at Castleton, Ont., were burned on Monday Inst. The loss on buildings will reach \$10,000, partially covered by insurance. - Buckle & Sons' lace factory at Port Hope, Ont., was completely destroyed by fire on Tuesday last. Loss, \$6,000; insurance on building, \$800.— The residence of Joseph Long at Melbourne, Ont., has been burned. Loss, \$2,000.

CONTRACTS AWARDED.

SARNIA, ONT.—The town council have disposed of \$5,000 of debentures to George A. Stimson & Co., of Toronto.

MONCTON, ONT.—Davis & Ezerman, of Mitchell, have obtained the contract for the erection of the Methodist parsonage here.

CLINTON, ONT.—Cooper Bros., of this town, have been awarded the contract for a two-storey brick residence for G. Jenkins, of East Wawanosh.

KINGSTON, ONT.—The Smead-Dowd system of heating has been recommended for the new school building. The cost of the system placed at \$1,800.

BROCKVILLE, ONT. — The Gardiner Tool Works have let a contract for the erection of an addition to their brick factory, 42 by 60 feet, three storeys high.

MONTREAL, QUE.—W. A. Fleming has been awarded the contract by the Ottawa fire department for 1,000 feet of new Era rubber brand of fire hose, and also by the Lachine fire department for 500 feet of Trial brand of the Fabric fire hose.

COLCHESTER SOUTH, ONT.--S. C. Zimmerman has the contract for Andrew Elliott's new residence. The building will be 18 x 26 feet and two storeys high.

Bertrand & Lutle have been awarded the contract for a brick building to be used as an implement warehouse by the Massey Harris Co.

QUEBAC, QUE.—The contract for the construction of the new church at St. Malachie, County of Dorchester, has been given to Mr. Elzear, Metrivier, contractor, of St. Damien de Buckland. It will cost \$15,500.—Ed. Guigras has been given the contract for a two-storey brick house, 30 x 30 feet, for J. Marauda, to cost \$1,200.

WALKERTON, ONT.—The Strattord Bridge Co. secured the contract for building the superstructure of the steel bridge at Tara, at the tender of \$1,285. George Baker, of Allenford, secured the tone work for abutments, at \$5.00 per cubic yard, to include all excavation and coffer dam, to be built with quarry stone, all to be completed July 15th, 1896.

GUELPH, ONE.—The Board of Directors of the General Hospital have accepted tenders for the new wing as follows: stone and brickwork, Thos. Itving; carpenter work, R. Mahoney & Son; plastering, Hoidge & Son, Toionto; painting, Moffatt Bros.; roosing, Rennie & Son, Toronto; tunsmithing, J. R. Jackson & Co. The plumbing and heating tenders are not yet awarded. Cost, \$12,000.

OTTAWA, ONT. -- H. McColl has secured the contract for placing elevators in Cluff's new hotel and in the new building now being erected by Orme & Son. The elevators are being built by Kerr & Morgan, of Montreal.—The Ottawa Gas Company has let the contract for a new gasholder tank to Felix McCulloch. It will be built of brick, laid in Portland cement. The total cost, including structure to contain the tank, will be about \$50,000.

BUSINESS NOTES.

A. V. McDonalo, contractor, Vancouver, is reported to have left the country.

Linnard & Corbin, contractors, Vancouver, B. C., are opening a branch office at Rossland.

F. Duclos, plumber. Montreal, is reported to have assigned. Liabilities about \$10,000.

W. R. Wetmore, plumber and steamfitter, Yaimouth, N. S., has made an assignment. Liabilities, \$3,300.

Jerome Lecompte, Fils & Cie, plumbers, Montreal, have dissolved, and a new partnership has been formed, composed of Jerome Lecompte, Gaspard Lecompte, and E. Lecompte; style unchanged.

The aluminum process for the decoration and preservation of iron and steel is intended to take the place of nickeling, tining and coppering. The coating leaves the sharpness of the outline unimpaired, and adheres close to cast and wrough: iron work.



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BELLEVILLE, ONT.

MISTAKES IN THE BUILDING TRADE.

A paper was read before the members of the Glasgow Building Trades' Exchange at the last monthly meeting by Mr. Alexander Muir, of Messrs. Alexander Muir & Sons, builders, on "Mistakes in the Building Trade." The author dwelt briefly on the imposing grandeur of the buildings of the ancients as compared with those of the present day. He instanced the Grand Colonnade of Palmyra with its 1,500 columns, the fragments of which now served to house a few Arab peasants. He laid the blame of our pettier structures on the fever heat at which we now lived. Our buildings, like everything else, were rushed. In the far back days buildings were planned and erected calmly and without hurry, and consequently gained in dignity. Even within the present century very much more time was allowed to builders than at present, and then builders seemed to take more enjoyment out of life, to labour less and to gain greater profits. In these days very many proprietors were resolved on getting a magnificent structure at a ridiculously small price. They started the economizing process by employing an inferior architect; and architect and measurers too frequently combined to persuade the economist that his notions could be carried out for the sum he proposed to expend. In the end he discovered that the cost was greatly in excess of his anticipation. This method of doing things told against the contractor, as, in order to keep the proprietor as long as possible in ignorance of the ultimate cost, he was only granted instalments in proportion to the schedule price. Consequently he was kept lying out of considerable sums. At the end of the contract, too, there was always the greatest difficulty in getting payment of the inevitable extras from the disgusted proprietor. In connection with these extras, Mr. Muir protested against the practice of architects or measurers altering the contractors' prices without consulting them, and of submitting these to a clerk of works to be checked. They ought to be gone over with the contractor himself and adjusted. He maintained that in all contracts the selecting of an efficient inspector was very essential. Mr. Muir dwelt on the old custom of contractors measuring the work for themselves, which, he stated, was of course impossible in their city. This practice, he said, was still carried on in Australia, and apparently beneficially to not a few contractors. He advocated the strict adherence, where practicable, to the adopted modes of measurement and clear details in schedules as tending to prevent miscakes and misunderstandings, and spoke strongly against measurers endeavouring to get

cheaper estimates by misleading descriptions in schedules. Mr. Muir vigorously deprecated the over-anxiety of contractors to secure, if possible, every contract that was issued, for the mere sake of leaving monuments to their memory. He held that no contractor should take a contract unless at a reasonable profit. The present keenness of competition was not conductive to good work. Every man should have time to eat, drink and enjoy the fruits of his labour. In conclusion, adverting to municipal structures, Mr. Muir regretted that in the design of the new art gallery, erected by Glasgow funds, the gentlemen responsible should not have seen their way to employ Glasgow talent, of which, he contended, there was abundance; and that in connection with the Jamaica Bridge, for the sake of a few thousands, the original broad scheme should have been abandoned.

BRICK-DUST MORTAR AS A SUBSTITUTE FOR HYDRAULIC CEMENT.

The use of brick-dust mortar as a substitute for hydraulic cement, where the latter cannot be obtained, is now recommended; experiments made with mixtures of brick-dust and quicklime showing that blocks of one-half in, in thickness, after immersion in water for four months, bore, without crushing, crumbling, or splitting, a pressure of 2,500 pounds per square inch. It is considered too that the addition of even as small a proportion as one-tenth as much brick-dust as sand to ordinary mortars, is preventitive of the disintegration so often characterizing mortars used in the masonry of public works. The use of brick-dust mixed with lime and sand is said to be generally and successfully practiced in the Spanish dominions, and is stated to be in all respects superior to the best Rosendale hydraulic cement in the construction of culverts

drains tanks, or cisterns and even roofs, whether for setting flat tiles or for making the usual tropical flat roof. The proportions used there in the manufacture are, approximately one of brick-dust, one of lime, and two of sand, mixed together dry and tempered with water in the usual way.

—Atthur Lee in Stone.

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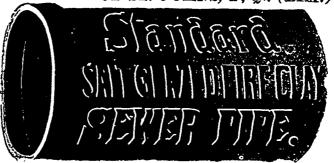
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ASPHALT PAVEMENTS.

Editor Canadian Contract Record.

DEAR SIR,-It is popularly supposed that asphalt pavements are more slippery than any other kinds of pavement, but careful observations, extending over a long period, show that such is not the case. In 1885 systematic observations were made in ten different cities, extending over a period of 192 days, in which over 800,000 horses were observed, and it was shown that on an average a horse travelled 583 miles before falling on asphalt and only 413 miles before falling on stone, or in other words, that for the same distance travelled, there were 41 per cent. more accidents on stone than on asphalt. The gritty surface of the

1890, and two years before a piece of Trinidad asphalt of about equal area and the same grade had been laid on another portion of Madison ave. The two pavements were subjected to identically the same conditions and afforded a good opportunity for testing their relative merits on the score of slipperiness. Careful observations were therefore made on an extended scale, lasting through a period of five weeks or 30 days (Sundays excepted), from January 19th to February 21st. The number of passing vehicles was carefully counted on the Trinidad pavement at the intersection of 27th street and on the Sicilian or bituminous limestone pavement at the intersection of 39th street. The number of horses falling within a distance of 200 feet on either side of each observation point was also recorded, and the accidents were classified into complete falls, falls on knees and falls on haunches. The observers were changed from one pavement to another at the end of two weeks and their reports were all verified by affidavits. The following results were obtained:-

		VEHICLES			ACCIDENTS						
HOURS	Les than	Between r ton and 3 tons	Over 3 tons	Total	Falls on knees	Falls on	Complete falls	Total		REMARKS	
jan. 19 31 Feb. 2-14 Feb. 16-21	21,700 21,595 11,000	7,121 9,551 4,939	320 2,206 560	29,14 ¹ 32,35 ² 16,505	15 27 7	28 20 13	41 102 54	84 249 74	}	Sicilian Rock asphalt cor. 39th St.	
Jan. 19-31 Feb. 2-14 Feb. 16-21	21,174 22,469 13,305 56,945	9.456 13,261 6,276 28,993	2,086 2,842 2,632 1,227 6,701	77,098 33,472 38,359 20,808 92,639	3	1 1 2	197	307 4 0 1	}	Trinidad Asphalt cor. 27th St.	

Trinidad asphalt pavements, due to the combination of sand and bitumen, is incapable of taking the polish which makes the stone pavements soslippery. The stone surface yields no security to the horse; it is only by catching his shoe in the joints that he is enabled to retain his footing; if his shoe slips beyond the second joint it is almost impossible to recover himself, and it is due to this cause that more horses fall in the long run on stone than on asphalt.

The asphalt pavement also dries quickly after a rain, and thus escapes in a measure the damp, greasy condition which renders wood so slippery. The pavements of French rock asphalt or bituminous limestone have not been extended of late years in Paris or London, as already stated, because they are so very slippery that they are dangerous. They were definitely rejected after full trial in Washington for this same reason, while the Trinidad pavement has obtained a development of 125 miles in that city. The bituminous limestone pavements of Washington as well as those laid on Fifth avenue in New York and in other localities, have been taken up and replaced by pavements of Trinidad asphalt. During the years of 1890 and 1891 the pavement of rock asphalt or bituminous limestone was again introduced in New York, only to be again abandoned on account of its slipperiness. None of it has been laid since 1891. A piece of it was laid on a portion of Madison ave. in New York in

In other words there were more than sixty times as many accidents on the Sicilian pavement as on the Trinidad, and of the accidents on the Sicilian pavement, more than half were complete falls. Nothing further is required to show the vast difference between the rock asphalt pavements as laid in England and elsewhere and the Trinidad asphalt pavements as laid in Toronto.

Yours truly,

W. G. MACKENDRICK.

NEW MATERIAL FOR STREET PAVING. -An iron brick for street paving has been invented by William H. Nevins, of Rock Island, Ill. The iron brick is the size of ordinary paving brick, and is hollow, with open ends. In the upper or surface edge are a series of perforations, through which sand is swept after the pavement is laid, until it is filled. The sand is meant to add strength to the brick and deaden sound, while the holes admit water to drain off and serve as a vent so that no damage can result to the iron by the action of frost. The cubes are even and regular, and are cast strong enough to prevent breaking under the heaviest load; a street laid with them would be ideally level and the spacing would afford a foothold for horses. Mr. Nevins says that these bricks can be cast from stove plate iron at any foundry, which would be an advantage to any town in which they were used, affording employment in their manufacture to the home manufacturers.

MAINTENANCE OF A SEPARATE SYSTEM OF SEWERS.*

By T. Harry Jones, A. M. Can. Soc. C.E., Brantford.
The Brantford sewerage system Was
designed by Willis Chipman, Civil and
Sanitary Engineer, Toronto, in 1889, and
constructed in 1890, 1891 and 1892, Mr.
Chipman being the Cheif Engineer, and
the writer Resident Engineer.

During the past three years, the system has been in charge of the writer as City Engineer, and all work in connection with the extension and maintenance of the system has been performed by the city by day labour.

The following summary will give an idea of the extent of the system:

Population of the City of Brantford Assessed value	16,314 \$5,760,410
tenance to end of 1894	\$137,314
Total length of main sewer 15 in. to 24 in. in diameter.	2.1 miles
Total length of sub-mains and laterals, 9 in. to 15 in. in diameter	11.2 miles
House sewers. On streets 4.3 miles. On property 5.1 miles. Total	9.4 miles
and the balance 4 in	
	497
Population using sewers	3,000
Sewers	500
Number of Manholes	178
Number of lamp holes	
Tuninet of tamp noice.	75
Number of flush tanks	32

The general character of the soil is sand and gravel, with clay and quicksand in a few sections.

FLUSH-TANKS.

Of the 52 flush-tanks in use, 9 are the Van Vranken and the remainder a compound of the Field and Van Vranken, consisting of the Field syphon and the Van Vranken tilting tank. The best results we have obtained from the Van Vranken.

Monthly inspections are necessary in order that they may be kept properly working, it being generally found that on each visit two or three require some slight attention, such as regulating the water or giving air. We found that during the year some three or four need repairing, the chief difficulty arising from the rusting and catching of the tilting tank.

Each tank holds about 200 gallons of water and is set to discharge once a day.

FLUSHING.

The flush-tanks are generally found sufficient to keep the 9 inch sewers clear, although it is occasionally found advisable to turn the water in the flush-tanks on to the full extent.

It has been found necessary to pass the plunger through only two of the 9 inch sewers during the past three years, each of these sewers having been flushed once in this manner.

There are two of the 12 inch sewers which require flushing about once in every three months. In one of these the sewage backs up owing to a fungus growth becoming attached to the pipes. The other 12 inch sewer—known as the Clarence street sewer—was constructed under great difficulties, being laid for a distance of 2,300 feet in running sand, and at an average depth of 12 feet below the ground and 5 ft. below the water level, and running parallel to and about 15 feet distant from a line of railway.

^{*}Paper read at the annual meeting of Ontario Lard Surveyors.

(To be Continued.)

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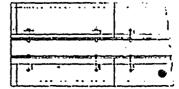
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CONDITION OF THE MARKET.

TORONTO: The prospects for building in Toronto this season are none too bright, and little demand is being experienced for general builders' supplies. A limited trade is reported in hardware, and on country account there is a fair demand for plumbers' supplies. Building paper has advanced in price. Quotations are: Plain, 45 to 50 c. per roll; tarred lining, 55 to 60c.; tarred roofing felt, \$1.60 to \$1.75 per too lbs.

MONTERAL: Several large buildings which are projected will create some demand for supplies, but as yet few orders are being placed. Some activity is reported in paints and oils, while there has been considerable inquiry for cement for spring delivery. Quotations are unchanged.

while there has been cement for spring deli	consider very. C	rable Juotati	inquir ions ar	y for e un-
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	CARGO LO	ors.		
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SAND.		Cut nails, 5cd & 6cd, per keg Steel 11 11 11 11	250 210
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Common Rubble, per toise,		30d, 11 11 11	2 15 2 00 2 20
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Foundation Blocks, per c. ft. Kent Freestone Quarries	800 1800 800 1800	8d, 9d, 11 11 11	275 235
Moncton, M. D., per cu	τ ∞	4d to 5d, " " "	310 310
River John, N. S., brown Freestone, per cu.ft., f.o.b.	95	4d to 5d cold cut, not polished	400 300
New York Blue Stone 80	90 65 75 1 05	34 to 34 cold cut, not polished	300 260
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 911., per ft,	25	or braca, per 100 103	340 300
Most Freestone Thomson's Gatelawbridge, cu. ft.	60 70 75 80	3d, per 100 lbs	400 360 450 410
Credit Valley Rubble, per car of 15 tons, at quarry Credit Valley Brown Cours	B 00	CASING AND BOX, PLOORING, SHOOK	
ing, up to to inch, per sup.		nails.	250 260
Credit Valley Brown Dimen-	175 3 25	iod, "" 8d and 9d, ""	2 80 2 70 2 95 2 80
sion, per cu. ft. at quarry Credit Valley Grey Coursing, per superficial yard 1 50 2	60 75 100 216	6d and 7d, 4d to 5d, 4d to 5d to 5	3 10 3 05
Credit Valley Grey Dimen-	4.		370 360
sion, per cubic foot Clark's N. B. Brown Stone, per cubic foot. f.o.b	∞ 75 :15 1 ∞	3 inch, per 100 lbs	310 395
per cubic foot, f.o.b	.,	2½ to 2½ " " " " " " "	3 25 3 10 / 3 40 3 25 3
MadocRubble, delivered, per	15 1 00	134	360 345 400 385
bladoc dimension floating, f.	450 1400 1450	SLATING NAILS.	4 50 4 35
o. b. Toronto, per cubic ft. 30 OHIO PREESTONE, FROM THE GRAPT	33	5d, per roo lbs	3 35 2 95 3 35 2 95
QUARRIES. No. 1 Buff Promiscuous	70 85	3d, " "	3 75 3 35 4 25 3 85
No. 1 Blue Promiscuous	75 90 55 70	COMMON BARREL NAII	
No. 1 Blue Dimension Sawed Ashlar, No. 1 Buff,	60 75	inch, per too lbs	3 75 3 35 4 25 3 60
Sawed Ashlar, No. 1 Blue,	90 1 05		4 75 4 35
any thickness, per cub. ft Sawed Flagging, per sq. ft.,	75 90		3 35 2 95:
Above prices cover cost freight and	061/4 071/4 duty paid. For	2 and 2 4 " " "	3 50 3 10. 3 65 3 25
small lots a .d 5 to 10 cents per cubic (Quebec and Vermont rough	loot.	1½ and 1½ 11 11 11 11 11 11 11 11 11 11 11 11	3 65 3 25 3 85 3 45 4 50 4 10
granite for building pur- poses, per c.ft. f.o.b. quarry 33 1 For ornamental work, cu. ft. 35 2		SHARP AND FLAT PRESSED	500 4601 NAILS.
Granite paying blocks, 8 in. to	∞ 	inch, per 100 lbs.	3 75 3 45 4 ∞ 3 60
Granite curbing stone, 6 in.x 20 in., per lineal foot	70	2 and 2 4 4 44 44 44 44 44 44 44 44 44 44 44	4 20 3 75 4 4 40 3 95
SLATE.	**	1 4 4 4	5 50 5 16 1
	00 20 00	STEEL WIRE NAILS	
u unfading green o	00 to 00 01 6 00 00 5 to	Steel Wire Nails, 75 % discount Iron Pipe:	from printed list
	00 5 50	Iron pipe, M inch, per foot	6c. 6c.
ing 8	50	" " 13 " " " " ½ " " " " ½ " "	834 .834
PAINTS. (In oil, ?) White lead, Can., per 100 lbs. 6 25 5	<i>18.</i> 50 550 600	" " 17 " " .	12 12 17 17
" zinc, Can., " 11 650 7 Red lead, Eng 400 5	50 650 750 00 450 500	11 11 11 11 11 11 11 11 11 11 11 11 11	24 24 30 30 43 43
" vermillion of	75 100 175	Toronto, 65 per cent. discount. Montreal, 60 to 65 per cent. disco	
Yellow ochre 5	12 10 12 10 3 5	Lead Pine:	ruiit.
Green, chrome	20 15 20	Lead pipe, per lb	7C. 7½
Black lamp	25 14 20 25 12 25	Discount, 30 % off in small lots.	
Oil, linseed, raw, & Imp. g.ul. 54	.20 t2 18 59 58 59 63 62 63	Galvanized Iron Adam's-Mar's Best and Queen's He	id:
" refined, " 78	63 62 63 85 75 75 2% 2% 2%	16 to 24 guage, per lb 4%c. 26 guage, 4%	4½c.
Paris white. Eng., dry 60	278 274 275 00 60 75 25 90 100	Gordon Crown—	534
Sienna, burnt	5 450 5 00 15 12 15	16 to 24 guage, per lb 4½ 26 guage, "	7C. 734 : ad: 4%c. 534 4% 4%
Umber, " 8%	12 12 15	Note.—Cheaper grades about 16. per	ib. les
CEMENT, LIME, e	to.	Structural Iron Steel Beams, per 100 lbs	. 4
German, per bbl 3:	25 255 265 75 192 205	"Channels, "	275 250 285 260 50 230
Newcastle	50 185 195 50 265 275	tecs,	°°0∨ .2. რ <u>ვ</u> .ჯე
English, artifical, per bbl. 260 2	90 255 265	Sheated stee bridge plate	² 55 .a. 35 } 4 35 }
ted up to M	Tarch	11th)	1