

# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

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.

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AUGUST 7, 1901

No. 27

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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## TENDERS

Tenders addressed to the undersigned, will be received until the 24TH DAY OF AUGUST, 1901, inclusive, for the construction of a

### Wooden Dam and Flume and Power House

in connection therewith at Renfrew, Ont., where plans and specifications for same can be seen and all information relating thereto obtained

THOS. A. LOW,  
Secretary Renfrew Power Company, Limited.

## TENDERS WANTED

Sealed tenders, addressed to the Reeve, will be received by the Corporation of the Village of Hensall, Ontario, until 8 o'clock p. m., MONDAY, 26TH AUGUST, 1901, for the construction of about 2000 square feet of Cement Concrete Sidewalk, in the Village of Hensall. Specifications may be seen at the office of the Clerk on and after July 10th, 1901.

The corporation reserves the right to reject any or all tenders.

G. T. ARNOLD, Reeve,  
J. C. STONEMAN, Clerk.

Hensall, 6th July, 1901.

## Tenders

For the brickwork, tinmith work, plasterer's work, and painting and glazing required in the erection of a

### HOSPITAL BUILDING

near Gravenhurst, for the National Sanitarium Association, will be received by the undersigned until Monday, August 12th, 1901.

Plans and specifications may be seen at the Sanitarium, near Gravenhurst, or at the office of the architect.

The lowest or any tender will not necessarily be accepted.

D. B. DICK, Architect,  
27 Toronto Street, Toronto.

## CONTRACTS OPEN.

NORWOOD, ONT.—J. G. Keefer has commenced the erection of a printing office

LINDSAY, ONT.—F. Marks will erect a new residence on William street.

GOBERICH, ONT.—The G. T. R. may build a new station here, to cost \$5,000.

NEWCASTLE, N. B.—Plans have been prepared for renovating the Baptist church.

CHIPPewa, ONT. Tenders are invited for laying 24,000 feet of granolithic sidewalk.

WOODSTOCK, ONT.—The contract has been let for the erection of a new separate school.

WINDSOR MILLS, ONT.—The Canada Paper Co. will rebuild their mills burned last week.

MORDEN, MAN.—Tenders have been invited for alterations to plumbing in the Freemasons' Hospital.

TURNERVILLE, ONT.—Tenders are wanted by 16th inst. for brick veneering and building addition.

GRACEFIELD, QUE.—A deputation has requested the Government to build a bridge at this place.

BRYANSTON, ONT.—George Dam invites tenders up to August 8th for repairing the Methodist church.

DIGBY, N.S.—Rev. H. A. Devoe has purchased property on First avenue on which to build a church.

NEW HAMBURG, ONT.—The county council has decided to build a new bridge to replace Helmer's bridge.

VANCOUVER, B.C.—The Canadian Pacific Railway Co. intend building new boats for the trans-Pacific line.

CALGARY, N.W.T.—J. L. Wilson, architect, is taking tenders for erection of a residence for H. S. McLeod.

NORTH TORONTO, ONT.—R. Walker has purchased a lot on St. Clair avenue on which to build a residence.

MOUNT FOREST, ONT.—The ratepayers will shortly vote on the question of purchasing the electric light plant.

STRATFORD, ONT.—A new church will be built next spring by the congregation of the Home Memorial church.

WATERLOO, ONT.—Bids are asked by A. B. McBride, town clerk, up to 9th inst., for purchase of \$4,500 debentures.

COLLINGWOOD, ONT. The Cramp Steel Company are asking for tenders for construction of dock and approaches.

GANANOQUE, ONT.—A by law granting a bonus of \$10,000 to the Morden Mfg. Co. was carried here last week.

PORT COLBORNE, ONT.—A by-law will be submitted to the ratepayers

to raise \$2,000 for waterworks improvements.

HALIFAX, N.S.—A charter has been granted to Mackenzie & Mann to build a line of railway from this city to Yarmouth.

LITTLE CURRENT, ONT.—D. McGilvery, village clerk, is prepared to receive tenders for purchase of \$1,500 debentures.

ANTLER, ONT.—Ramsey Public School district offer for sale \$1,500 debentures. Address Thomas C. Stinson, this place.

TRURO, N.S.—The Board of Trade is taking steps to secure the location here of the proposed Maritime Agricultural College.

CARON, MAN.—Tenders are asked by A. H. Powell up to August 15th for erection of elevator for the Farmers' Elevator Co.

GREENWOOD, B. C.—A by-law granting a bonus of \$3,500 in aid of the Sister's hospital has been endorsed by the ratepayers.

COOKSHIRE, QUE. The architect of the Quebec Government was in town last week locating a site for proposed court house

HANOVER, ONT.—W. A. Mearns, M.D., Reeve, invites tenders up to August 10th for purchase of \$25,000 waterworks debentures.

RAT PORTAGE, ONT.—On August 15th the ratepayers will vote on a by law to raise \$20,000 for improving the waterworks system.

NELSON, B. C.—Architect Carrie has received official notice to proceed with the preparation of specifications for the new high school.

HINTONBURG, ONT. The plans for the fire hall have been modified so as to reduce the cost and the contract may be let next week.

GUELPH, ONT.—Tenders closed last week, at office of L. C. Wideman, architect, for erection of factory building in town of Paisley.

MURILLO, ONT.—The ratepayers of Oliver municipality will vote on a by law on August 22nd to raise \$1,300 for erection of school house.

HARRISTON, ONT.—Bids are invited by J. McMurchie up to Monday, 10th inst., for purchase of \$4,218.12 4 per cent. 20 year debentures.

HENSALL, ONT.—Tenders for erection of a cement culvert on the London road will be received by Henry Horton, reeve of Tuckersmith, up to 9th inst.

PEMBROKE, ONT.—The authorities of the Sisters Superior Convent of Mary Immaculate are taking tenders for erection of brick addition to convent.

THOROLD, ONT.—A movement is on foot to organize a private com-

pany to construct a waterworks system to cost \$30,000. James Battle is interested.

MONCTON, N. B.—D. Pottinger, manager Intercolonial Railway, in vites tenders up to 20th inst. for extension to wharf and freight sheds at Pictou, N.S.

GEORGETOWN, ONT.—A vote of the citizens will be taken on a by-law to grant a loan of \$10,000 to assist Mr. Arnold in extending his glove factory.

HUNTINGDON, QUE.—The directors of the Eastern Townships Bank contemplate erecting a new bank building, a site for the purpose having been purchased.

FORT WILLIAM, ONT.—Representatives of the Dowd Milling Co., of Ottawa, were in town last week looking for a site for the location of a 700-barrel flour mill.

BECHER, ONT.—David Clarke, of this place, desires tenders by 10th inst. for erection of brick church. Plans at office of Mr. Fleming, county clerk, Chatham.

LISTOWEL, ONT.—The Canadian Bent Chair Co. invite tenders up to 6 p.m. of 8th inst. for erection of three-storey brick factory and boiler house and galvanized dry kiln.

WALKERTON, ONT.—Tenders are being called for erection of bridge to replace Crispin's bridge, approximate cost \$4,000.—Union S. S. No. 2 will issue \$2,000 of debentures.

MARKHAM, ONT.—The village council is considering the question of putting down granolithic sidewalks.—The Queen City Oil Co., of Toronto, will erect an oil tank here.

ST. JOHNS, QUE.—Government engineers are surveying for the extension of the street drains. The work will be carried out under the direction of L. S. Pariseau, C.E.

ST. JOHN, N.B.—J. H. Kennedy, C.E., chief engineer for the Board of Harbor Commissioners of Montreal, was in the city last week inspecting the site for the proposed dry dock.

ORANGEVILLE, ONT.—The ratepayers will vote on by-laws to grant loans of \$10,000 to the Orangeville Biscuit & Confectionery Co. and \$5,000 to the Dufferin Coffin & Casket Co.

TORONTO JUNCTION, ONT.—Charles Proctor has just commenced the erection of a new house on Pacific avenue. At present about twenty houses are under course of construction.

DRESDEN, ONT.—The town is considering the advisability of granting a bonus of \$10,000 to establish a beet sugar factory. Captain James Davidson, of Bay City, is one of the promoters.

PAKENHAM, ONT.—The contract for building a stone arch bridge across the Mississippi river at this place has been let to James Tobin, of Ottawa, and J. R. McQuigge, of Arnprior; price \$13,200.

KINGSTON, ONT.—The building committee of the School of Mining have accepted the plans of Symons & Rae, architects, of Toronto, for the two new buildings to be built on Queen's University campus.

PORT ARTHUR, ONT.—The Pigeon River Lumber Co. have purchased property on which they will erect residences. Plans are being prepared for the new saw mill to be built by the Pigeon River Lumber Co.

PERTH, N.B.—Tenders will shortly be asked by the Provincial Government for the superstructure of the Perth-Andover bridge, also for the Sackville bridge, which was burned a few days ago. The latter bridge will

have a metal roof as a prevention from sparks.

ST. CATHARINES, ONT.—Tenders are asked by the city clerk up to August 15th for electric street lighting. Plans for the Fort Erie electric railway have been submitted to the Minister of Public Works for approval.

VANCOUVER, B.C.—The Vancouver & Lulu Island Railway Co. have taken tenders for construction of pile approaches to proposed bridge across the north arm of the Fraser River. N. Abbott, of this city, is president of the company.

BROCKVILLE, ONT.—The contract will likely be let this week for proposed wing to general hospital.—John Menish, chairman Property Committee Public School Board, invites tenders up to 8th inst. for hot air furnace for Victoria School.

SYDNEY, N.S.—E. Banakin, manager of the Manhattan Construction Co., states that the work of grading the railway from Hawkesbury to Louisburg and this place will be commenced within a fortnight. The necessary rails have been purchased.

VICTORIA, B.C.—The congregation of the First Congregational church have purchased a site at corner of Pandora and Blanchard streets on which to build a new church.—The Oriental Power & Pulp Co., capital \$100,000, has been incorporated.

NIAGARA FALLS, ONT.—The Canadian Niagara Power Co. have appointed Cecil B. Smith, of Toronto, resident consulting engineer for the power development work to be carried out on the Canadian side. Proposals for the whelpit contract will be invited within two weeks.

KEEWATIN, ONT.—It is said that the Keewatin Power Co. is about to ask for tenders for developing the water power at the outlet of the Lake of the Woods and installing a transmission plant of some 6,000 horse power capacity, the intention being to transmit most of the power to Winnipeg.

ENNISKILLEN, ONT.—John Doyle, one of the commissioners, will receive tenders up to August 10th for completion of the McFayden drain.

PERTH, ONT.—Plans prepared by G. T. Martin, of Smith's Falls, for the proposed county House of Industry, have been accepted, and the building committee will immediately advertise for tenders for erection. Tenders will be taken on both stone and brick. Debentures will be issued to the amount of \$20,000 to cover the cost of the building.

WALLACEBURG, ONT.—The buildings for the beet sugar factory will include a main building 244 feet long and four storeys high, of brick and stone, with steel roof, a storage building 200 feet long, two storeys, brick and iron; ten beet sheds, each 400 feet long, of stone, cement and iron. An electric light plant will be installed for lighting the buildings.

NANAIMO, B. C.—The approved

plans for the new Bank of Commerce building have been received, and tenders for erection will be called for within a few days. The building will be two storeys, brick and stone, with pressed brick front. Particulars from G. I. Schetky.—Mr. Kelly, architect, is preparing plans for alterations to C. E. Stevenson & Co.'s store.

QUEBEC, QUE.—The council is asking for tenders up to August 15th for supply of 1,000 feet of cotton fire hose. Address A. Malouin, secretary fire committee.—Tenders are invited by J. Gallagher, waterworks superintendent, up to Tuesday, August 27th, for supply of cast iron pipe of following sizes: 3,000 feet of 6 in., 6,000 feet of 8 in., 6,000 feet of 12 in., 1,000 feet of 14 in.

SAULT STE. MARIE, ONT.—Tenders have been taken at the office of W. R. Graham, architect, for stone block for Lyman & Campbell, hardware merchants, to be 55x80 feet, two storeys and basement, cost \$15,000, also a pressed brick veneer residence for G. A. Hunter, druggist, to cost \$4,000.—The council has decided to urge the Dominion Government to erect a post-office and custom house here.

FREDERICTON, N.B.—A movement is on foot to induce the local Government to restore Government House as the residence of the Lieutenant-Governor.—Tenders are invited by G. W. Allen, secretary New Brunswick Coal & Railway Co., up to August 15th for construction of first section of fifteen miles of railway from Chipman through the Newcastle gold fields. The tender is to include construction of telephone line.

LONDON, ONT.—It is understood that Lewis Risk, of the Royal Hotel, will erect an addition of fifteen bedrooms.—The plans for addition to public library building will likely be completed this week.—The city engineer wants tenders by 8th inst. for construction of tile sewers.—H. C. McBride, architect, has invited tenders for the following works: New brick residence on King street, new brick double house on Burwell street, alterations to brick residence on Burwell street, alterations to double house on Waterloo street.

WINNIPEG, MAN.—James Chisholm, architect, has taken tenders for building a residence in Port Rouge. Same architect is taking tenders for modern residence for John Watson, stone and brick foundation, hot air heating, plate glass, plumbing, mantels, grille work, electric wiring, etc., cost \$4,000. He has also prepared plans for a Methodist church at Greenwood, to cost \$5,000.—The Government is about to drain Plumb Lake and adjacent marshes in the municipality of Sifton. Flood gates will likely be erected at the entrance to Plumb Creek.—J. H. G. Russell, architect, has taken tenders for carriage house and stable on Donald street for G. B. Hastings, and residence on Lily street for Mrs. Alexander.—The city will receive tenders up

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to 8th inst. for construction of sewers and macadam and asphalt pavements.

**HAMILTON, ONT.**—The Imperial Cotton Co. will likely build an addition to their factory. — The city clerk will receive tenders up till noon to-day (Wednesday) for supply of brick, water, lime and castings.—Building permits have been granted to the following: W. A. Edwards, four-storey brick warehouse, Macnab street, for Lumsden Bros., cost \$9,000; A. W. Peene, brick dwelling, Emerald street, cost \$1,850; F. J. Rastrick & Son, alteration to 59 west King street, for Jessie Chapman, cost \$2,000 (William Handcock, contractor).

**TORONTO, ONT.** — Tenders are wanted for two houses, plans for which are at 143 St. Clarens avenue; S. H. Davis, architect.—Plans of dock and approaches to be built at Collingwood by the Cramp Steel Co. may be seen at 608 Temple building, this city.—Tenders are wanted for erection of 2 two-storey houses; plans at 7 Wyatt avenue.—A new block pavement will be constructed on the devil strip on Queen street east from the Don to the G.T.R. station.—It is understood that Copeland & Fairbairn, real estate agents, have been negotiating for the erection of residences on the vacant ground at north-east corner of Wilton avenue and Sherbourne street.—Building permits have been granted as follows: F. A. Ralph, two-storey and attic brick residence, Roxborough avenue, near Crescent road, cost 34,000; John O'Neill, jun., alterations to 184-186 Parliament street, cost \$3,500; Chas. T. Jeffreys, pair semi-detached brick dwellings, 615 and 617 King street west, cost \$3,600; Hy. Brown, pair house and 1tables, north side Walker avenue, cost \$6,200; Geo. H. Walker, residence on Delaware avenue, south of Bloor street, cost \$2,000; G. A. Newinan, residence, Sherbourne street, near South Drive, cost \$4,200; Harold Taylor, residence, 62 Albany avenue, cost \$2,000, Chas. T. Jeffreys, two dwellings, 615 and 617 King street west, cost \$3,600.

**OTTAWA, ONT.**—P. W. Joyce is erecting a business block, corner Somerset and Division streets.—The city engineer has been requested to prepare plans showing how Porter's Island can be put in a condition above flood level for hospital purposes.—It is understood that the proposition to erect an eight-storey hotel building on the corner of Sussex and Rideau streets has been abandoned, the option on the property having expired.—John Cunningham and others are forming a company to build an oat rolling mill and a corn elevator in this city.—M. J. Gorman asks tenders up to August 20th for erection of stone and brick building on Maria street for the Columbus Club.—The Ottawa Electric Co. propose to erect a distributing station on the Canal reserve.—The Ottawa, Northern & Western Railway Co. are understood to have secured

control of the Hull and Aylmer electric road. A steam line parallel to the electric line will be built from Aylmer and Hull to connect the Pontiac division with the central depot.—Building permits have been granted as follows: R. E. Armstrong, lot 16, Hickey street, brick veneered dwelling, cost \$1,000, W. L. Clarke, lot 63, Plank street, brick veneered dwelling, cost \$1,400, J. Buchanan, lot 3, Stewart street, brick veneered dwelling, cost \$1,400, Thomas Robertson, lot 17, Sweetland avenue, brick veneered row, cost \$3,500, J. F. Maunder, lot 28, Fourth avenue, brick veneered dwelling, cost \$1,800; S. J. Davis, lots 44 and 45, Jane street, double brick veneered dwelling, cost \$2,500.

**MONTREAL, QUE.**—It is understood that a Montreal citizen has purchased the Y.W.C.A. property on Drummond street with the intention of building a large apartment house thereon.—It has been definitely decided to call for plans for a new Board of Trade building. The ruins of the old building are being torn down, under the superintendence of A. C. Hutchison, architect.—The Montreal Amateur Athletic Association is making a further canvass for subscriptions for the proposed new building.—Tenders are asked by L. O. David, city clerk, up to August 13th, for annual waterworks supplies, including special castings, lead pipe, brass castings, meters, tin, lumber and general stores.—The city council has given notice of its intention to construct sewers on the following streets. Aylwin street, between Notre Dame and St. Catherine street, St. Denis street, between de Fleurimont street and C.P.R. track, Gar-

mer street, between Mount Royal avenue and Gaitford street, Labelle street, from Beaubien street southwards. Building permits have been issued as follows. E. Solaire, alterations to two-storey building, Beaubien street, cost \$2,800, E. Lesperance, dwelling, north east corner Bienville and Massue streets, cost \$5,000, A. St. Marc, two storey dwelling, 377 Montana street, cost \$1,000, J. B. Lorceau, two storey dwelling, 139 Island street, cost \$850, Sisters of Hotel Dieu, four storey dwelling, 53 St Sulpice street, cost \$12,000 (J. Resther, architect, Labelle & Payette, contractors), S. E. Lichtenhein, alterations to two-storey dwelling, 14 Nazareth street, cost \$1,500.

**FIRES.**

Store and post office at Tuscorora, Ont., owned by J. S. Johnson. — Store sheds at Stansted Junction, Que., owned by W. Hazelton, loss \$3,000.—City hall in Montreal, damaged to extent of \$10,000.—Saw mill of Howes & Leighton at Harriston, Ont.; totally destroyed; small insurance.

**CONTR CTS AWARDED.**

**WINNIPEG, MAN.**—\$672,031 worth of improvement debentures have been sold to Joseph Parker & Co., of Boston, at \$9,825 and accrued interest.

**RIDGETOWN, ONT.** James Dart, of this place has received the contract to build the Tilsonburg, Lake Erie and Pacific railway from Tilsonburg to Ingersoll.

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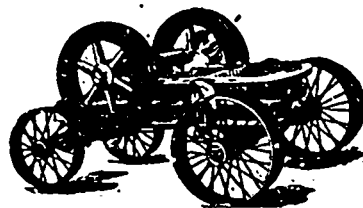
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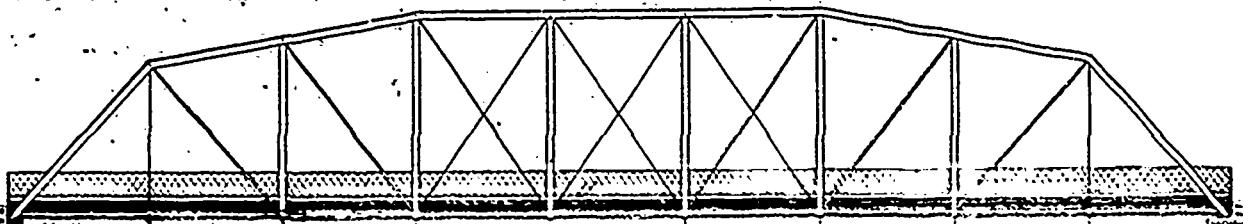
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FORT WILLIAM, ONT. - Double house for Thomas Walsh. F. Miller, contractor.

CHATHAM, ONT. - Residence for William Nell. Blonde Bros. & Co., contractors.

WALLACEBURG, ONT. - Erection of beet factory: Kilby Manufacturing Co., of Cleveland, Ohio, contractors, price about \$600,000.

TORONTO, ONT. - The contract for abutments of new steel bridge over the Black river at Utopia has been let by the county commissioners to T. H. Clendenning, of Sunderland.

HAMILTON, ONT. - W. A. Edwards, architect, has let contracts as follows for warehouse for Lumsden Bros.: Masonry, Geo. E. Mills; carpenter work, James Holden; roofing,

James Findlay, painting and glazing, Wm. Barrett. Work will be commenced at once.

OTTAWA, ONT. - Webster Bros. & Parkes, Montreal, received the contract for interior wood work for the entrance hall of A. W. Fleck's house, J. W. H. Watts, R.C.A., architect.

CHARLOTTETOWN, P. E. I. - Bond & Smith, architects, Toronto, have awarded the contract for mosaic flooring for the Bank of Nova Scotia to Webster Bros. & Parkes, Montreal.

OTTAWA, ONT. - Ald. S. R. Poulin has been awarded the contract for building the Mackenzie & Mann railway from Ruse Point to Parry Sound, distance three miles. The tender of Proulx & Crevier, of this city, has been accepted for construction of convent at St. Angele, Que.

BROCKVILLE, ONT. - The James Smart Mfg. Co. have secured the con-

tract for warming and ventilating the Kirchner House, at Hanover, with a No. 24 Kelsey generator. - J. W. Allison has let to W. L. McDowal, of Waddington, the contract for building a house on an island near Morrisburg, estimated cost \$25,000.

MONTREAL, QUE. - Perrault & Le Sage, architects, have awarded the following contracts for office building for A. Bourgeau, 71 St. James street: Plastering, H. Constant; painting and glazing, E. Bolanger; galvanized iron, P. Leclere & Co.; ventilators, G. Pearson. - Hugh Cameron is supplying enamelled bricks for a conservatory for James Ross on Peel street.

FREDERICTON, N.B. - The Department of Public Works has awarded the following contracts for bridges: Snake Creek bridge, Sunbury county, to Daniel Smith; Estey Creek bridge, parish of Bright, York county, to W. R. Fawcett; Long's Creek bridge,

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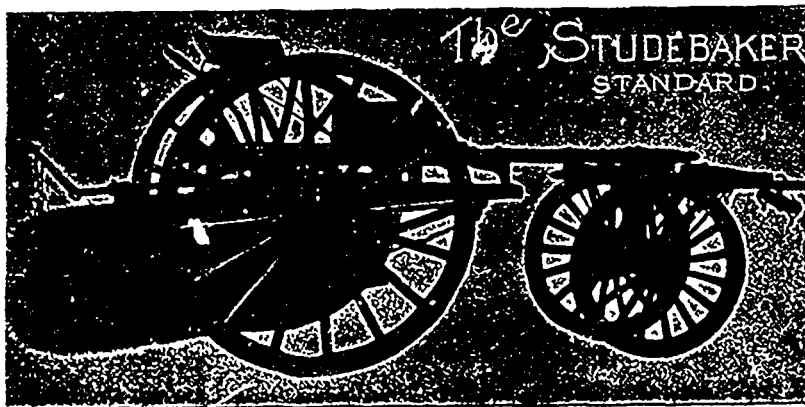
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parish of Kingsclear, York county, to Coun. A. E. Chit, Lower Trout Brook bridge, parish of Manners-Sutton, to J. A. Richardson and David Johnson, Upper Trout Brook bridge, in the same parish, to Simmons & Cunningham.

**LEGAL.**

**Mann v. G. T. R. Co. W. Nesbitt, R. C.,** for defendants, appealed from judgment of Meredith, C. J. (32 O. R. 240), in action for damages for conversion of a quantity of gravel, and to restrain further conversion. The gist of the action is the proper construction to be placed upon a deed, dated September, 1856, conveying to defendants "the gravel situate and lying on and compressed within a certain part of lot 4, with the right of way for a railway track and the free, etc., use of locomotive, etc., from the railway of the defendants to the gravel hereby conveyed, and from said gravel to said railway. . . including in this conveyance all the gravel in the ridge through which the said track from the said railway to the gravel hereinbefore first mentioned as being conveyed, passed or shall or may pass; the extent and description of the gravel hereby conveyed, and the right of way are described in the map endorsed on this deed." The plan shows only the boundaries of the parcel of land referred to in the deed. The gravel on the land described on the plan has long since been removed, and the gravel, the removal of which is complained of, has been since deposited by the action of the waters of Lake Erie. The court below held that the gravel so deposited did not pass by the deed. It was contended for appellants

that upon the true construction of the conveyance the sale was of all gravel, and the construction of the deed must be the same at all times. The gravel in question is the result of the flow of the lake, and the amount on the premises one month may be partially washed back, and the next washed up again, and so on from time to time. Such deposits are acts of nature and parcel of the premises. The appellants are clearly entitled to the gravel underneath that which has come on the premises, if they saw fit to build a dyke and keep out the water, and then go on the premises and take away the gravel. In the deed the grant is not of the gravel now on the lot, but a grant for all time of the gravel on the lot. The injunction granted is wrong in any event, for the defendants are clearly entitled to the gravel on the lot which may be under the washed gravel, and as long as there is any gravel they are entitled to maintain their track for its removal.

wood filler, such as a mixture of oil and resinous gum, to water-proof and protect the wood thoroughly and prevent warping. This is done by placing the article in a tank containing the filler, which is heated by steam coils within the tank. The article is then rubbed smooth and coated with varnish, after which the edges of the door are trimmed with sheet metal strips. These metal strips may also be applied to the inner edges of the panel or attached to the front and back faces of the lower edge of the door in such cases where an extra heavy covering at that part is desired. After this the entire door is prepared to receive the plating deposit as follows: The face of the strip on the edge of the door is covered with metallic insulating varnish, after which the wood surface is coated with a metallic substance, such as thin metallic leaf, metallic bronze powder, or common varnish with plumbago. After the coating is dry the door is rinsed and placed in an electrode-depositing vat, one electrode being attached to the metal strip on the edges of the door. This strip makes a complete circuit around the door and acts to start the deposition of the copper. It also insures an unbroken surface between the edge of the door and the deposit on the sides.

**PLATING WOOD DOORS.**

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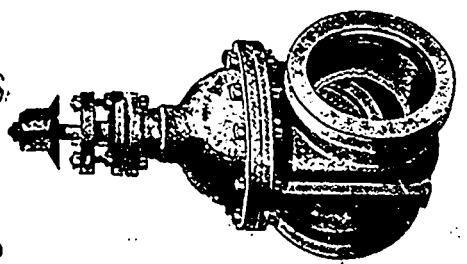
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**CANNON BALLS IN QUARRYING.**

The United States government recently sold a large quantity of old cast-iron cannon balls, which had been stored in the Charleston navy yard, to a Boston dealer, who has found a market for them among the Cape Ann and Quincy quarrymen. The first use they were put to was in place of steel wedges in cutting off large blocks of granite. The method pursued with the cannon balls is to start the block of stone away by a slight blast, and then between the quarry face and the block several of the smaller solid shot, usually the 4-inch sort, are dropped down into the aperture. Two men with crow-bars give the blocks a little shake, and the instant the block moves in the slightest manner forward the shot take up their purchase on the space made, when the large cannon balls some measuring 12 to 15 inches and weighing 290 to 300 pounds, are dropped into the top of the gap. Now the slightest outward jar by the levers on the big stone, sends these heavy cannon balls downward of their own weight, until, with an easy forward movement, the cube goes over on its face. These shots do away with any driving; of necessity their great weight in proportion to their size forces them downward, and their form prevents any chance of backward setting of the block. The cannon balls are also used as rollers, as they take up and go over the inequalities of the quarry surface and can be rolled in any direction without resisting, thus doing away with the old style wooden rollers. They are also used to smother heavy clearing out blasts. Heavy rope mats are thrown over the surface where the blast has been set and these cannon balls are thrown on the mats.

**STREETS PAVED WITH CRYSTAL.**

A new paving material of great strength and durability has been invented by M. Garchey, a well-known European scientist, and preparations are now being made to use it on some of the main streets of several cities in the old world. It is called ceramo-crystal, and is mainly composed of pounded glass, which has simultaneously been submitted to a considerable pressure and to a very high temperature. Its hardness is described as perfectly astonishing by those who have seen it tested, and it has a resisting power of 1,359 to 2,414 kilos to every square centimetre. Moreover, neither cold nor heat has the slightest influence on it.

A weight of 4,200 kilos was recently allowed to fall on a flagstone of this material, yet it did not make the slightest impression on it, and not until it had fallen twenty-two times from a height of three feet did a crack appear in the crystal.

The authorities of more than one European city say that, if the tests which they propose to make on a few main thoroughfares prove satisfactory, it is prac-

tically certain that all the streets will in time be paved with ceramo-crystal. They point out, however, that a few years must elapse before it can be really known whether or not this new material possesses all the merits that M. Garchey's friends claim for it.

**FOR FILLING NAIL HOLES.**

The following method of filling up nail holes in wood is not only simple, but said to be effectual: Take fine sawdust and mix into a thick paste with glue, pound it into the hole, and, when dry, it will make the wood as good as new. Frank Christin, Jr., in Stoves and Hardware, says he has followed this for thirty years, with unvarying success in repairing bellows, which is the most severe test known. Often by frequent attachment of new leather to old bellows frames, the wood becomes so perforated that there is no space to drive the nails, and even if there were, the remaining holes would allow the air to escape. A treatment with glue and sawdust paste invariably does the work, while lead, putty and other remedies always fail.

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**WEIGHTS ROPES CAN SUPPORT.**

According to an interesting study in the "Praticien Industriel," the maximum weight a good hemp rope can support without breaking is equal kilogrammes; New rope to four times the square of its diameter; tarred rope, three times; old rope, twice. In current practice, however, it is prudent only to reckon one-fourth of the resistance; for example, a hemp rope 30 millimetres in diameter can support with perfect safety a weight of 900 kilogrammes when new; 655, tarred; 450 old. The strength of a new and wet rope further momentarily increases by one-fifth. When the action of water is prolonged, the fibres lose strength and resistance of the rope easily decreases, on the contrary, one-half.

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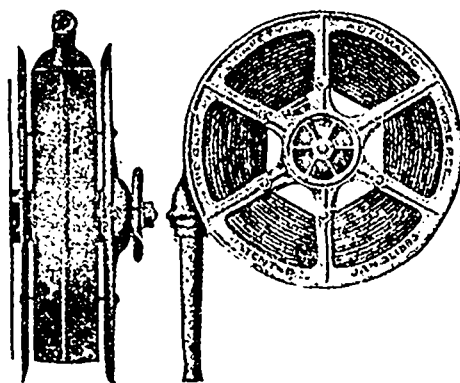
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(Continued from last week.)

9. Before the aforesaid layer of concrete has set, and while it is still adhesive, there shall be laid upon it a wearing surface one inch in thickness. It shall be composed of one part by measure of Portland cement, and two parts by measure of clean sharp sand. The cement and sand shall be mixed dry, water then added to moisten sufficiently, the whole again thoroughly manipulated and mixed in a water-tight box or floor and immediately put in place. The layer shall then be thoroughly worked to a true and even surface. Over this shall be sifted a layer of Portland cement, the whole to be neatly levelled to a perfectly smooth surface, and rolled with a tooth roller to make a surface that will not be slippery. This surface layer shall be cut into sections, the joints to correspond exactly with those of the first described layer of concrete, the edges of the walk to be rounded, and the whole finished in a neat and workmanlike manner.

10. Before any concrete is placed in the walk, temporary curbs, of 2 x 6 pine, with edges dressed so as to be perfectly straight, shall be firmly and accurately placed along the outer edges of the walk, to be removed after the walk has hardened, these curbs to be furnished by, and remain the property of the contractor. When the curb is removed, the vacant space must be filled with good soil, and any sodding disturbed in so doing must be carefully restored.

11. The total thickness of the walk, including foundation layer, concrete layer, and the wearing surface, shall be uniform throughout, and shall have

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a slope towards the roadway of 1-4 inch to the foot, unless otherwise required by the engineer.

12. All cement used in the work must be of some well and favorably known brand, and shall be approved by the engineer. It shall be delivered in barrels or equally tight receptacles, and must be protected from the weather by storing in a tight building or by suitable covering, the packages to be placed on boards or flooring raised above the ground. All cement rejected by the engineer shall be conspicuously marked "Condemned," and shall be immediately removed from the site of the work. Should any cement so rejected be thereafter used in the walk, such sections as may be required by the engineer, shall be immediately torn up by the contractor, and replaced with cement of proper quality, without extra compensation. The supply of cement must be so gauged that a sufficient quantity will be kept on hand to allow ample time for testing and examination by the engineer, without delay to the work of construction; the cement to conform to the following tests, and such others as the engineer may require:—

(a) At least 90 per cent. shall pass through a sieve having 10,000 holes to the square inch.

(b) Pats made of neat cement, with thin edges, on pieces of glass, covered with a damp cloth, and allowed to set in air; then placed in boiling water 48 hours, must not

show expansion cracks, distortion nor curling of the thin edges

(c) Samples of cement shall be made into the consistency of a stiff mortar, pressed firmly into moulds and covered with a damp cloth, then allowed to set in air 24 hours, then in water three, and seven days. When in water three days, six samples shall show an average tensile strength of 300 pounds per square inch; when in water seven days, six samples shall show an average tensile strength of 450 pounds per square inch.

13. The stone and sand shall at all times be subject to the approval of the engineer, the sand to be clean, sharp and silicious.

14. At street crossings, lanes and private driveways, the walk shall be so rounded, placed, and at such an elevation as to give a convenient passage for vehicles, to the satisfaction of the engineer. The surface layer of concrete shall be 1-2 inches thick, composed of equal parts by measure of cement and sand, and marked with diamond shaped blocks by lines crossing the walk diagonally six inches apart. The edges shall be rounded, and faced to the bottom of the concrete with the cement mortar used for surfacing the walk. At all street crossings, and elsewhere if so desired by the engineer, the edges of the walk shall be protected by a curbing of cedar, placed in a permanent and durable manner, flush with the surface of the walk.

(To be continued.)

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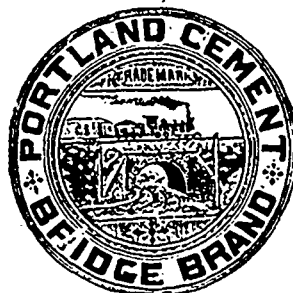
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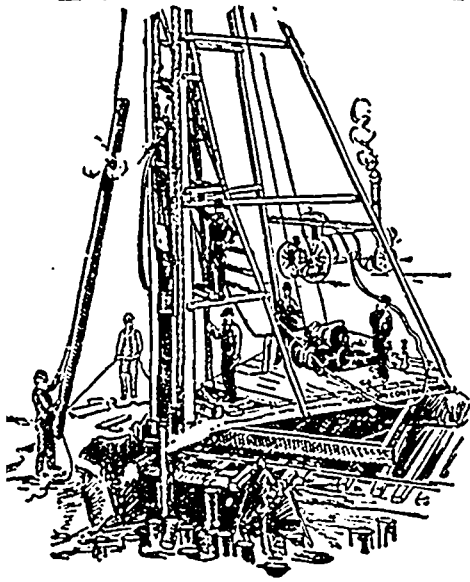
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