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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

PUBLIC WORKS • TENDERS •
ADVANCE INFORMATION •
AND MUNICIPAL PROGRESS

EVERY THURSDAY

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. 8.

AUGUST 19, 1897

No. 29.

THE CANADIAN CONTRACT RECORD,
PUBLISHED EVERY THURSDAY
As an Intermediate Edition of the "Canadian Architect and Builder."

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TENDERS FOR SEWERS

Tenders will be received by the Chairman of the Board of Works, Goderich, Ont., up to 6 o'clock p.m., AUGUST 20th, for approximately two miles of 12, 9 and 6 inch Pipe Sewers.
Specifications and form of tender may be procured and plans and profiles seen at the Town Clerk's office, Goderich, on and after August 23rd.
A deposit of \$150.00 shall accompany each tender, which must bear the bona fide signatures of the contractor and his sureties.
The lowest or any tender not necessarily accepted.

W. C. BROUGH, Engineer. **WM. MITCHELL,** Town Clerk.
Goderich, August 18th, 1897.



Notice to Contractors

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to MONDAY, THE 23RD AUGUST, 1897, for the construction of the following works:—

CEDAR BLOCK PAVEMENTS.

On Walmer Road, from Bloor Street to Lowther Avenue.
On Charles Street, from Church Street to Jarvis Street.

GRAVEL ROADWAYS.

On Close Avenue, from Queen Street to Springhurst Avenue.
On Landsdowne Avenue, from Queen Street to Union Street.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after Friday, August 21, 1897.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent. on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal. Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, August 18th, 1897.

FOR SALE

16 inch "Foster" Y level, nearly new; cost \$100; will sell cheap. Box 26, CONTRACT RECORD.

FOR SALE

Wooden Stable on Spadina Road, Toronto, to be removed by purchaser within twenty days.

For further particulars apply to
ARTHUR E. WELLS, Architect,
Room 17, 36 Toronto St.



NOTICE TO CONTRACTORS

Tenders, addressed to the Chairman of the Board of Control, City Hall, Toronto, will be received, through registered post only, up to noon on

Wednesday, September 1st, 1897,

for carrying out the following works in connection with the New Municipal Building, now in course of erection on Queen Street west, in the City of Toronto, viz :

- (1) Hydraulic or Electric Elevators.
- (2) Electric and Gas Fixtures.
- (3) Pneumatic Clocks.
- (4) Steel and Wrought Iron.
- (5) Terra-cotta, Brick Arching and Concreting.

Plans and specifications and forms of contract may be seen, and forms of tender and all other information obtained, upon application at the office of

E. J. LENNON, Architect,
Cor of King and Yonge Sts., Toronto.

Although the specifications call for a Pneumatic Tower Clock, the Board of Control is prepared to receive tenders for a Tower Clock other than that mentioned in the specifications. Parties so tendering will be required to furnish with their tender proper specifications and plans for such work, and said specifications must provide for furnishing as complete a clock as called for in the specification for a Pneumatic Clock.

Each and every tender must comply with the terms of this advertisement and the specifications, and be accompanied by a marked cheque, made payable to the City Treasurer, for an amount equal to 2½ per cent. of the amount of the tender.

Tenders must be on forms supplied by the Architect, which provide for the bona fide signature of the contractor and his sureties, and, in default of that, will be ruled out as informal.

The lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.

Toronto, Aug. 12th, 1897.

BURNING IRON CASTINGS TOGETHER.

—The usual mode is by embedding the castings in the sand, having a little space left vacant round about the joint where it is to be burned. Two gates must then be provided, one lying on a level with the lower side of this space, and the other raised so that the metal, which must be very hot, is poured in at the higher one, it passes round, fills the space, and runs off at the lower gate. A constant supply of metal is thus kept up till the parts of the casting are supposed to be on the eve of melting; the lower gate is then closed and the supply stopped. When cool, and the superfluous metal chipped off, it forms as strong a joint as if it had been original.



Notice to Contractors

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on WEDNESDAY, THE 1ST OF SEPTEMBER next, for the construction of the following works:—

GRAVEL ROADWAYS.

On Lisgar Street, from Aston Avenue to Dundas Street.
On Beaconsfield Avenue, from Aston Avenue to Dundas Street.
On Peel Avenue, from Gladstone Avenue to Dufferin Street.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after Monday, August 23rd, 1897.

A deposit, in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent. on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

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

Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, Aug. 18th, 1897.

CONTRACTS OPEN.

COBOURG, ONT.—The town is agitating for a sewerage system.

CLINTON, ONT.—The town will construct 7,000 yards of granolithic walks.

FENWICK, ONT.—Wm. Ryan has begun the foundation for his new residence.

AYLMER, ONT.—The town council has decided to construct sewers along several streets.

SHAWVILLE, QUE.—It is the intention of the town authorities to purchase a road machine.

THESSALON, ONT.—W. E. Cronkhite, of Burks' Falls, purposes erecting a woollen mill here.

ASHCROFT, B.C.—The Ashcroft Water works Company has filed articles of incorporation.

CHATHAM, ONT.—It is probable a public slaughter house will be built, at a cost of \$2,000.

MORVEN, ONT.—An Anglican church will be built here. Rev. R. J. Evans, incumbent.

CHATHAM, N.B.—The Maritime Sulphite Fibre Company intend erecting a rotary mill.

HUNTSVILLE, ONT.—The council has passed a by law to raise \$6,000 for water works extension.

STRATFORD, ONT.—The Provincial Board of Health have approved of the sewerage plans.

ST. MICHEL, QUE.—Plans have been prepared for a new intercolonial station to be built here.

WESTFIELD, N. B.—Wm. Starr has purchased a site here on which to erect a summer residence.

BARRIE, ONT.—It seems probable that the proposed house of refuge will be located in this town.

ST. GEORGE, N. B.—John Dewar & Sons are making arrangements to put a new rotary in their mill.

GUELPH, ONT.—Thos Pepper has purchased a site on which to erect a residence.—The city will likely build a fire-hall to cost \$1,800.

DURHAM, ONT.—M. McIntyre is putting in the foundation for a new brick block, 50 x 82 feet, to be fitted up for a bank and large store.

GRAND FORKS, B.C.—The council have decided to borrow \$20,000 for the purpose of constructing a waterworks system and an electric light plant.

MOUNT FOREST, ONT.—The corporation of the town of Mount Forest are proposing to submit of a by-law for a system of waterworks.

RAT PORTAGE, ONT.—Plans of the sewerage system for this town were approved of by the Provincial Board of Health on Monday last

KILMARNOCK, ONT.—Mr. Collingwood Scribner, C.E., of the Railways and Canals Department, Ottawa, is said to favor the construction of a bridge over the Rideau river at this point.

BOWMANVILLE, ONT.—R. Windatt, town clerk, will receive tenders until the 25th inst. for the purchase of \$6,000 of debentures, payable in twenty years, and bearing interest at 4 per cent.

BRANTFORD, ONT.—The town will probably purchase a road roller.—The Cockshutt Plow Company have purchased the Victoria skating and curling rink in order to extend their works.

COLLINGWOOD, ONT.—The question of constructing a sewerage system is being considered. Mr. Chipman, C.E., of Toronto, was recently in consultation with the city authorities regarding the matter.

SCHOMBERG, ONT.—On the 9th of September the ratepayers of the township of King will vote on a by-law to raise \$12,000 to assist the Schomberg and Aurora Railroad Company in building a line of railway.

HALIFAX, N.S.—At the next meeting of the city council the question of constructing a sewer on Laurence street will be brought up.—Tenders are being taken this week for constructing a brick chimney at the Provincial Exhibition grounds.

SPRINGVILLE, ONT.—Tenders are asked by John Pearson, town clerk, until Monday, 23rd inst., for the work of improving, altering and extending the East Black Creek drain, in the township of Ellice, according to plans prepared by Wm. F. VanBuskirk, O.L.S.

WINNIPEG, MAN.—Work is nearly completed on the extension of the Dauphin road to Lake Winnipegosis. A party of engineers is now engaged surveying the Rainy River road, and their report will have to be considered before anything in the way of construction is done.

MARSHVILLE, ONT.—Tenders are asked by H. N. Nelson, care R. Cooper, Welland, Ont., until August 25th, for the construction in wood of the southern portion of Montrose bridge (120 feet) over the Welland river at Montrose, also for the construction of the entire bridge, swing included.

SHERBROOKE, QUE.—The question of water supply was considered at the last meeting of council, and Mr. Beaudry, C. E., was authorized to have specifications and estimates prepared. The opera house scheme was also before the council—G. T. Armstrong proposes to erect a condensed milk factory.

FREDERICTON, N. B.—Tenders are asked by the city for four hundred cords of trap rock.—The Public Buildings Committee of the County Council are having specifications prepared for repairing and improving the interior of the county court house. Three new furnaces will be put in, and the building given a general overhauling.

HULL, QUE.—There is talk of constructing a railway between Gracefield and Maniwaki. The chief promoter of the scheme is Mr. Charles Logue, who is to give \$25,000 towards the enterprise.—The question of extending the waterworks system is being considered.—The School Board has decided to borrow \$8,000, the money to be expended in outbuildings for the new St. Mary's school.

ST. JOHN, N.B.—Plans are being prepared at the waterworks office for the power plant which it is proposed to install at Silver Falls to increase the water pressure. The stream has to be dammed above the upper fall and a sluice cut along the course of the river for 300 feet to a point below the middle fall. The sluice will at its termination be 60 feet lower than at its head. At the lower end of the sluice a turbine water wheel, capable of developing 12 horse power, will be placed.

LONDON, ONT.—The extension of the electric railway to Pottersburg has been decided upon.—In connection with the sewerage system now in course of construction, tenders for sections A, B, C, H, L, M, N and O have not yet been taken.

—A. O. Graydon, city engineer, wants tenders for a 10-inch tile sewer on Oxford street.—Building permits have been granted as follows: George Hammett, story and a half dwelling house on King street, on the St. Paul's cemetery survey; Wm. Marsh, brick story and a half dwelling on Askin street, corner Wharnclyffe road.

OTTAWA, ONT.—Thomas Cleary is erecting a block of stores corner Bank and Somerset streets.—The plans for the new St. Luke's hospital have been altered and new tenders invited. The contract will be let this week.—James Mather, architect, has prepared plans for swimming baths at the Y.M.C.A., work on which will be commenced as soon as funds are raised.—The C.P.R. authorities have purchased property at the canal basin, and will, it is said, build a large depot.—A building permit has been granted to James Davidson to make improvements to the Royal Exchange hotel on Wellington street, at a cost of \$6,000.—The Russell House Company have taken out a permit for improvements to the extent of \$12,000 on the Russell House property on Canal street.

MONTREAL, QUE.—L. R. Montbriant, architect, is preparing plans for a large stable to be built in the east end.—Taylor & Gordon, architects, have prepared plans for a new chapel to be built at the corner of Atwater and Dorchester streets, Westmount.—A. Raza, architect, is calling for tenders for a college to be erected at the corner of Rachel and Parthenais streets for the school commissioners.—Wright & Son, architects, are taking tenders for two self-contained houses on Roslyn avenue, Westmount, for William McDonald.—P. Lortie & Son, architects, are receiving tenders for a school to be built on Notre Dame de Graces for the school commissioners.—S. Frappier is calling for tenders for a cottage on Park ave., Montreal Annex, for Joseph Mennier.—Residents on Notre Dame street have requested that paving work be continued on that street.

KINGSTON, ONT.—The new oil sheds of the Queen City Oil Company will be built of stone, and will contain a complete plant.—The Minister of Public Works has said that plans were already in preparation for the erection of the drill shed in this city, and that a beginning would be

promptly made.—Henry Smith, architect, has under way the erection of a convent building for the Sisters of Notre Dame. Alexander Newlands will do the mason work and M. Sullivan the carpenter and joiner's work, but the other trades have not yet been let. The building will be of solid stone, three stories high, with basement, and an extension running parallel with Bagot street. On the ground floor will be the chapel, dining rooms, kitchen and laundry; on the second floor class and bedrooms. The upper story will be devoted to a large music hall. The building will cost about \$10,000.

HAMILTON, ONT.—The by-law to raise \$110,000 for street pavements was defeated by the ratepayers last week. Little interest was shown in the vote.—Residents of Macnab street have petitioned the Board of Works for an asphalt pavement.—Building permits have been granted as follows: R. J. Larkin, two-story brick dwelling on Barton street, between Birch and Kinrade avenues, cost \$1,400; David Philip, two-story brick dwelling on Liberty street, cost \$1,000.—The C.P.R. has taken tenders for freight sheds, 500 feet long, on Maria street, and it is expected the contracts will be let this week. The building will be largely of iron.—The sewers committee have approved of the plans of the Ferguson ave. sewage disposal works, the capacity of which will be 2,200,000 gallons. A few improvements, the most important of which is a filtering bed, have been made in the plans of the Wentworth street plant. It was decided not to purchase an incinerator at present. The cost of the works will be \$45,000 or \$47,000. The purchase of a garbage incinerator at a cost of \$2,500, and \$280 additional for roofing and side walls, was recommended by the Engineer in conjunction with the disposal works.

TORONTO, ONT.—Mr. G. W. Yarker, representing a syndicate, hopes to secure the erection of a palace hotel on the old Upper Canada college grounds, the Ontario government having offered a free site for the purpose. Sketch plans have been prepared, which show an eight-story building, coming close to the street line at the corner of King and Simcoe streets with stores on the ground floor. The material proposed to be used is grey stone, terra cotta and pressed brick, and the building will cost in the neighborhood of \$600,000. Exemption from taxation will be asked from the city.—The Ontario Wind Engine and Pump Co. propose to erect a new building on Liberty street, in rear of the Mercer reformatory.—A by-law has been passed by the East Toronto council to raise \$7,000 to finish the new school building.—A petition against a gravel pavement on Waterloo avenue has been sent in to the City Clerk.—The city council has given notice of its intention to construct brick sidewalks on the following street: Alexander street, north side, from McMillan to Yonge streets, cost \$649; Portland street, west side, from Adelaide to Front streets, cost \$732; Lippincott street, west side, from Nassau to Bloor streets, cost \$1,934; Palmerston avenue; both sides, from Queen to Robinson streets, cost \$570.—The City Clerk has received a petition against the construction of a brick sidewalk on Duchess street, between George and Sherbourne.

FIRES.

The warden's departments at the Central Prison, Toronto, were recently damaged by fire to the extent of \$2,000.—At Staples Ont., fire on the 14th inst. destroyed the residence and tailor shop of W. A. Aubin, Eric Caughill's barber shop, and W. M. Swalmans residence.—J. T. Harrie's timber and lath mill at Burk's Falls, Ont., were completely consumed by fire on Monday last, at a loss of \$10,000, partially covered by insurance.

CONTRACTS AWARDED.

BERLIN, ONT.—Casper Braun has been awarded the contract for building the new G.T.R. passenger depot.

TORONTO, ONT.—The contract for painting at the exhibition grounds has been awarded to W. M. Weeks.

ST. MARYS, ONT.—The contract for the brickwork, stonework and excavation of the creamery building has been given to Wm. Cockram, at \$1,773.

CHARLOTTETOWN, P. E. I.—The contract for putting pews in the new Methodist church at Cherry Valley has been awarded to Mark Wright & Co., of this city.

HANOVER, ONT.—H. Prust has the contract for the erection of a three-story brick factory for the Hanover Chair Company. Desney, Devlin & Co. have the contract for carpenter work.

ST. HYACINTHE, QUE.—The city has closed a contract with the Jenckes Machine Company, Sherbrooke, Que., for two pressure filters, with a capacity of 750,000 gallons each in twenty-four hours.

FREDERICTON, N.B.—Willard Kitchen, of this city, has secured the contract for building the approaches and granite piers for a new bridge across the Nepisiquit river at Bathurst; contract price, \$13,000.

HAMILTON, ONT.—The contract for heating the new Jubilee hospital wing has been awarded to Mr. Rodgers, at the price of \$975. A No. 5 premier twin boiler, made by the Gurney-Tilden Company, will be used.

RENFREW, ONT.—Thos. Henderson has the contract for the brick and stone work of the new Methodist church, at \$3,000, and S. G. Brown the woodwork contract, at \$3,000. The contract for the roof has not yet been let.

LEAMINGTON, ONT.—The contract for the new reservoir has been given to John R. Selkirk, of Blytheswood, the tank to hold 70,000 gallons. The Kerr Engine Works, of Walkerville, received the contract for the new pump engine.

LINDSAY, ONT.—T. Matchett, county clerk, writes that the contract for Pigeon creek bridge, Ops and Manvers, was awarded as follows: Approaches and end piers of cedar, McDermid & McDonald, Toronto, \$2,010; steel superstructure, 58 feet, Robert Waddell, Trenton, \$520.

MONCTON, N.B.—The school trustees have accepted the tender of Rhodes, Curry & Co. for the construction of the new school building, the figure being \$27,995, including heating and ventilating apparatus. The building will cost \$31,145. The other tenders were: Mooney & Sons, \$39,250; George McArthur, \$30,969; James Reid, \$28,469.

ST. JOHN, N. B.—\$25,000 in school bonds of \$1,000 each, 3½ per cent., 25 years to run, have been disposed of to Mr. J. C. McIntosh, banker, of Halifax, at 96.575. A \$10,040 lot of \$500 bonds, 3½ per cent., 25 years, were purchased by Mr. D. T. Johnston, of Halifax, at 97.75. Mr. M. Coll purchased a \$500 bond, 3½ per cent., 25 years, at 98.

GUELPH, ONT.—Contracts for Henry Carter's two-story white brick residence have been let as follows: Stone work, James McCann; brickwork, Sam. Rundell; carpenters, Robertson Bros., Speedside; plastering, E. Clarke; painting, J. Bruce & Son; tinsmithing, Mr. Heather. —E. Rive, 1st line, Eramosa, is erecting a new house, 40 x 40 feet, on one foundation and white brick. G. R. Bruce, of this city, has the whole contract.

MONTREAL, QUE.—Fournier & Benoit, architects, have accepted the following tenders for thirteen tenements, stone and brick, to be built corner of Duluth and Montana-streets for Joseph Leguerrier. Excavation, M. Rochon; masonry, M.

Guilbault, other trades not let. Turgeon & Lafreniere, architects, have let the contracts for reparation and alteration of a mausoleum at Cote des Neiges cemetery for Mde. Vve. J. A. Berthelot, as below. Brick and cement work, F. Decarie & Son, iron slabs for cells, Adolphe Vervort.

LONDON, ONT.—Tenders were received as follows for sections "G" and "H" of the sewerage system. H. J. Beharriel, Toronto, \$8,253; Muir & Sullivan, Port Huron, \$13,205; Harding & Leathorne, London, \$13,199; Fallows & Lewis, London, \$14,923; Oakley & Holmes, Toronto, \$14,590; Clark & Connolly, Toronto, \$13,430; A. J. Brown, Toronto, \$13,595; Crawford Beckett, London, \$10,879; W. F. Grant & Co., Toronto, \$16,655; A. Burnett & Son, London, \$13,539. The lowest tenderer, Mr. Beharriel, is said to have made an error in his tender, and it is probable that the work will be given to C. Beckett.

QUEBEC, QUE.—The contract for St. Gedeon church, has been awarded to P. Poitras, of Chicoutimi. Jos. Ouellet, architect.—Harry Staveley, architect, has awarded the following contracts for a residence, 36 x 51 feet, three stories, brick front, for A. E. Pleiffer: Masonry, W. Sharpe; carpentry, E. T. Nesbitt; roofing, N. Barbeau. Estimated cost, \$5,500.—Building permits have been granted as follows. Reparatons of a house on du Roi street for Jean Fiset. House, two stories, 24 x 16 feet, flat roof, on Grant street, for Mr. Parent; contractor, N. Richard. Brick house, 50 x 35 feet, three stories, on McMahon street, for Mr. Pleiffer. Reparation of a house on Lachevrotiere street for J. Woodley.—The following tenders were received for the construction of a new pavement above Cote d'Abraham. Alfred Portugais, \$2,994.50; Lawrence Moisan, \$3,256; L. P. Breton, \$2,871; H. M. Stevens, \$2,250; C. Gignere, \$4,280.50. It has been decided to accept the tender of H. M. Stevens.

MOVING A BIG BUILDING.

To move a two-story, thirteen-room brick house a distance of 600 feet without displacing a brick or cracking the ceiling is a contract that requires a high degree of skill and ingenuity, as well as boundless patience. Such a job is being done now by the Smith Construction Company out on South Grand avenue, and it promises to be successfully completed. The house being moved is at 1311 South Grand avenue, and stands now squarely in the middle of what will be Rutger street when the thoroughfare is extended from Motard avenue to Grand avenue. As the extension is to be made within a short time, it has become necessary to move the building, and when it is finally deposited on the lot it will occupy for the remaining days of its usefulness it will have travelled a distance of 500 feet, gone around three sides of another house, and instead of being in the middle of Rutger street will rest on the corner of South Grand avenue and Caroline street. A brick stable in the rear of the house has already made the trip to what will be the backyard at the new location. But moving a stable is easy work to moving a house, as that operation was explained yesterday by Foreman J. M. Wayland, who is in charge of the work.

To begin with, the structure weighs about 500 tons, a weight equivalent to the load carried by a train of twenty freight cars, and to raise it before its starts on its journey will require hard work for nearly ten days. Work was started on the house last Saturday, and by Wednesday of next

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THE ROYAL VICTORIA COLLEGE, Montreal.

THE PROTESTANT INSANE ASYLUM, Verdun, near Montreal.

THE GRAND HOTEL, St. Hyacinthe, Que.

THE NEW CUSTOMS-APPRAISERS STORES, NEW YORK, new building, which will consume 5,000 tons.

THE PARLIAMENT BUILDINGS, OTTAWA, portion of which was recently destroyed by fire and rebuilt.

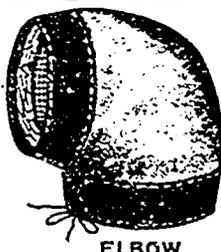
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week it will be ready to move. After the ground under the building is cleaned and leveled the real work of moving begins. Heavy timbers, a foot square, are placed under the building from end to end, and these are forced up by "jackscrews" until there is room for other timbers to be placed with the width of the building. These are jacked up in turn and more timbers are placed with the length of the building, and it is these last timbers that rest on the rollers.

These rollers are of maple, and run on a cribbing of hickory that is covered with thick planks. There are two tracks that lead down the backyard to McTard avenue, and on these tracks the big building is slowly moved by a heavy chain running in iron pulleys. The chain is attached to both corners of the house and winds about a capstan that is turned by horse power. As the building is moved down the plank tracks, the heavy rollers that are left behind are carried ahead to do service again, and so the slow journey is made. The fact that only two tracks are used makes it possible to move the house without making a crack in its walls. If one track sinks an inch or so the entire building lists to one side, or if both tracks sink the result is the same. If three tracks are used, however, and one or two of them were to sink, the building would be in a bad way, and liable to crack badly or even fall to pieces.

The present building is the largest that has ever been moved in St. Louis for anything like the same distance, and the work, which is attracting a great deal of attention among contractors and builders, will not be completed for nearly a month. It is understood that the price paid for the work is about \$2,500. This, however, is much less than the building could be torn down and rebuilt for.—St. Louis Globe Democrat.

Messrs. Hector Dazé and Jos. Dazé, plumbers, of St. Louis de Mile End, Que., have formed a partnership.

A process of preserving stone by using oil is making headway. The surface of the stone is washed clean, and after drying is painted with one or more coats of boiled linseed oil, and finally with a weak

solution of ammonia in warm water. This renders the tint more uniform. The water proof coating thus produced is found to last four or five years, when it must be renewed. A favorite preparation consists of paraffin containing creosote dissolved in turpentine, the creosote being considered efficacious in preventing organic growth upon the stone. The melting point of the compound is about 140 degrees Fahr. In applying, the surface to be coated is first heated by means of especially designed lamps and charcoal stoves, and the melted compound applied with a brush. On cooling it is absorbed to a depth depending upon the degree of penetration of the heat, about 1/2 in.

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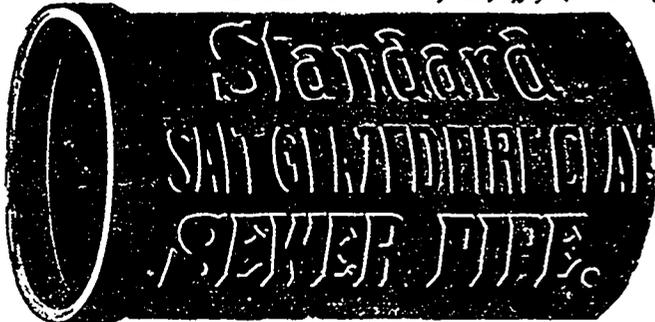
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TO MUNICIPAL OFFICERS.

The CONTRACT RECORD is desirous of publishing, as far as possible, advance information regarding projected works of construction in all parts of Canada, such as sewerage and waterworks systems, railways, street pavements, public and private buildings, etc. Municipal officers would confer a favor upon the publisher by placing at our disposal particulars of such undertakings which are likely to be carried out in their vicinity, giving the name of the promoter, character of the work, and probable cost. Any information thus furnished will be greatly appreciated.

WATER SUPPLY OF BOSTON.

The state of Massachusetts has undertaken to supply the metropolitan water districts, including Boston and twenty-seven other towns and cities, with pure water from an immense lake, nine miles in length, covering forty-one hundred and ninety-five acres, three hundred and eighty-five feet above high-water mark, and with an average depth of forty-six feet. It is to take the place of what is now a busy manufacturing district in the valley of the upper Nashua river. The greater part of two towns and five villages, including churches, schools, the houses of seventeen hundred and eleven people, two large mills, and hundreds of small farms will be wiped out of existence to provide for this enormous reservoir. Its construction made necessary the passage of a law, said to be without a precedent in this country, which provides that the state shall pay to such employees of the mills at the time of the confiscation of the property a sum equal to six months' wages. The state also treats liberally people with established businesses, the value of which the seizure of land for reservoir uses completely destroyed, by a liberal allowance for accumulative or prospective damages. When all this is done, the people of Massachusetts will have a bill variously estimated at from \$30,000,000 to \$50,000,000 to pay.

AN ASSESSMENT DECISION.

A decision was rendered a few weeks ago by Judge Cumberland in the matter of assessment by a Manitoba municipality. The decision was in the case of the appeal brought by the Manitoba Mortgage and Investment Company against the municipality of Strathclair for wrongful assessment. And it has an important bearing upon the system of assessment, commonly followed by the municipalities, their contention having generally been that a uniform assessment, irrespective of the value of the different parcels of land, was legal. The effect of the decision in this case by

Judge Cumberland is, however, that this mode of assessment is illegal, and that the actual values of the lands shall be the values for assessment purposes. For example. Some of the land, assessed at \$4 an acre, was reduced by the judge to \$1 an acre. The decision in question is likely to operate as a check upon lavish expenditures by the municipalities, some of whom, in the belief that they could raise the assessment to whatever figure they saw fit, provided they did not levy beyond the 2 per cent. limit as required by the Assessment Act, did not hesitate to demand from the ratepayer a tax that became a serious burden and operated against the sale of his lands.

The Land Mortgage Companies Association, composed of the representative land lending companies in the province, chose the lands in the above-mentioned municipality for the purposes of a test case. Hence this appeal. The decision meets general approval in Manitoba. "It has the elements of common sense and justice," says the Commercial. It has been the custom in many Manitoba municipalities to assess all lands at a flat rate, regardless of their actual value. Thus the owner of the poorest piece of land in the municipality would be assessed as much per acre as those who held the most valuable lands in the district. This made a great injustice to the individual.

GOOD ROADS IN QUEBEC.

In the undeveloped rural districts of the province of Quebec an effort to improve the highways is to be stimulated by material aid from the government. The Hon. F. G. M. Dechene, Commissioner of Agriculture, announces by a letter that, being excelled by neighboring governments, the province should adopt a vigorous policy of improvement, and that the government offers to each county \$300, to be divided in sums of \$125, \$100 and \$75 between its first three municipalities who purchase improved road-repairing machines and repair at least two miles of road this year. The object is praiseworthy, and probably the improvements are extremely necessary, judging from the unprogressive character of the typical inhabitant. It is to be hoped that this bonus will be supplemented with some system of adequate instruction and supervision of the work, which is more necessary than the cost or amount to make the improvement effective.

STREET MACADAMIZING IN EASTON, PA.

Under a system introduced in 1896 by Mr. Harrison R. Fehr, City Engineer of Easton, Pa., streets there are macadamized as follows. The roadway is excavated and graded to a depth of 10 inches below the grade of the finished pavement, and after being well compacted with a five-ton horse-roller, is covered with a 5-inch layer of crushed limestone. This limestone layer after being sprinkled is well rolled, and then a 5-inch layer of gravel is put on. This gravel layer is also sprinkled and rolled, the amount of rolling being estimated at 10 hours for each 1,000 square yards of surface. Under this system in 1896 about three miles of streets were macadamized at a cost of \$8,410, the price per square yard ranging from 13½ to 48 cents. For light traffic this makes a smooth and fairly satisfactory road, but the gravel used, known locally as the Glendon, is of such a quality as to render it a complete failure under a heavy traffic, and Mr. Fehr recommends that the 5 inches of gravel be replaced by 4 inches of trap rock on all new work. He also advises that the present method of repairing streets by throwing crushed stone on a hard surface and allowing them to scatter about the street be abandoned and the old surface be picked up slightly before the new material is spread.

ONTARIO HEALTH OFFICERS.

The annual meeting of the Association of Medical Health Officers was held in Toronto on Monday and Tuesday last. Among the papers presented were the following: "The Propagation and Prevention of Rabies," by Dr. J. J. Cassidy; "Water Supply," by Dr. Hall, of Chatham, and "Treatment of Sewage," by W. F. Van Buskirk, Stratford, and others.

Officers of the association were elected as follows. President, Dr. McCrimmon, Palermo, vice-president, Dr. Cassidy, Toronto, second vice president, Dr. Hutchinson, London; secretary-treasurer, Mr. J. J. Mackenzie, Toronto; executive committee, Dr. Holmes, Goderich; Dr. McLeay, Waterford; Dr. Wardlaw, Galt; Prof. Shuttleworth, Toronto; Mr. Van Buskirk, Stratford. Much of the afternoon of the second day was taken up in suggesting amendments to the Medical Health Act. The effect of these amendments would in all cases be to facilitate the work and augment the authority of health officers. The principal changes desired are, first, to oblige householders and attending physicians to notify the health office as soon as they have reason to believe contagious disease is present, and, second, to confine to the health officer the authority to say when a person or house may be free of quarantine regulations.

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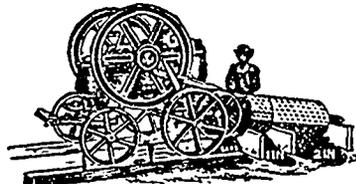
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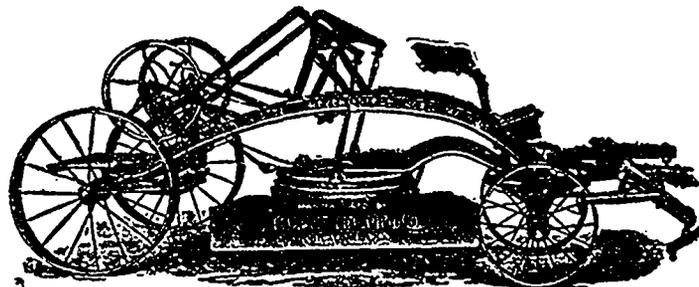


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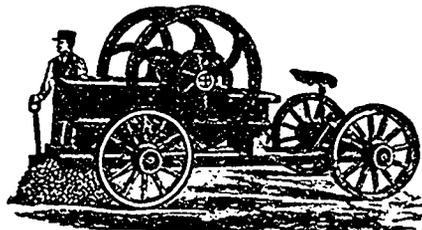
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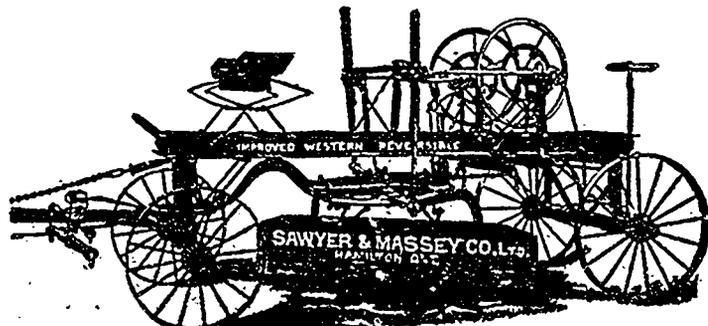
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