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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF THE BUILDING INDUSTRY

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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.

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CONTRACTS OPEN.

LINDSAY, ONT.—It is probable that a new fire hall will be erected here.

MOREWOOD, ONT.—The school trustees have decided to erect a new building.

SUNDRIDGE, ONT.—M. Brennan & Sons are about to build a new saw mill.

SAND POINT, ONT.—Gillies Bros. will rebuild the saw mill recently destroyed by fire.

KILLALOE, ONT.—M. B. Grace is making preparations to build a woollen factory.

PARIS, ONT. The announcement is made that a new post office will be erected here.

ST. STEPHEN, N. B.—The Town Council has decided to build the Elm street sewer this year.

LANARK, ONT.—It is said that Messrs Donaldson will rebuild their planing mill which was recently burned.

FERGUS, ONT.—It is announced that Black & Perry do not intend rebuilding their saw mill destroyed by fire recently.

WROXETER, ONT.—John Gibson, of Maitland Brae, has completed excavations for a new residence.

LEAMINGTON, ONT.—A. D. Roach has commenced the erection of a two storey frame residence on Clark street.

ST. MARTINS, N. B.—It is rumored that

Michael Kelley contemplates the erection of a cheese factory at this place.

BRANTFORD, ONT.—There is talk of an electric railway being built from this city to Paris, a distance of seven miles.

PORT ARTHUR, ONT.—E. S. Jamieson purposes utilizing the water power at Ecarte Falls, on the Kaminstiquia river.

FULFORD, QUE.—It is reported that the Seventh Day congregation contemplate building churches at Waterloo and Bethel.

FREDERICTON, N. B.—Tenders will be received by the provincial government until the 22nd inst., for the purchase of \$47,000 of debentures.

PRESTON, ONT.—Plans have been prepared for a rink building to be erected on the Driving Park, and tenders for construction will be invited in a few days.

PARSBORO, N. S.—J. W. Broderick, of Five Islands, has purchased 60 acres of land at Riverside, near this town, on which he will build a summer hotel in the spring.

CORNWALL, ONT.—A large manufacturing company are considering the establishment of works in this town. The name of the company has not yet been made public.

WOODSTOCK, N. B. Tenders for furnishing materials and building of closets in the school buildings of the town are invited until the 16th inst. Address G. W. VanWart.

TILSONBURG, ONT.—It is the intention of the congregation of St. John's church to erect a new building at an early date. For this purpose the sum of \$3,500 has already been subscribed.

ALMONTE, ONT.—The ratepayers will be asked to vote on a by-law to provide \$2,500 for the purchase of a site and the erection thereon of a market building. L. Coulter is town clerk.

L'ASSOMPTION, QUE.—Architect J. Alcide Chausse, of Montreal, has been instructed by the authorities of the Agricultural school to prepare plans for a model dairy and cheese factory.

GRAND FORKS, B. C.—The contract will shortly be awarded for the construction of waterworks and electric light systems. Hardy Bros. will erect a saw mill at Christina lake next spring.

BURK'S FALLS, ONT.—The village council have decided to construct a bridge over the Magnetawan river, on the site of the old structure. A grant for this work has been made by the Dominion Government.

HULL, QUE.—At the last meeting of school trustees it was decided to borrow the sum of \$8,000 for the carrying out of school improvements.—The Hull Lumber Company will, it is said, rebuild their saw mill.

BELLEVILLE, ONT.—It is reported that the Belleville street railway has been purchased by an English syndicate, who pur-

pose extending it to Tweed.—A by-law has been passed providing for the issue of \$13,000 of debentures.

RAI PURTAGE, ONT.—The Orange Society have decided to erect a new hall, to cost \$5,000. The committee to look after the work is composed of J. K. Bryden, L. L. McPhail, C. W. Belyea, Geo. Foster and R. Thompson.

WINNIPEG, MAN.—A memorial building is to be erected to the memory of the late Rev. Alex. Grant. It will be built in this city.—Tenders have been invited by the Committee on Works for the construction of a sewer on Selkirk avenue.

STONEWALL, MAN.—The C. P. R. is being urged to construct a railway from the Stonewall branch to Foxton. The local government have already offered to bonus such a railway, and arrangements are now in progress to ask the Dominion government for assistance.

MAGOG, QUE.—Building operations in this town are unusually brisk. A. G. Dolloff is preparing to build a departmental store, and R. Langelier is laying the foundation for a brick block. It is said that Dr. Robillard contemplates building on property recently purchased from L. Messier.

VICTORIA, B. C.—F. S. Barnard, manager of the British Columbia Electric Railway Company, has closed a contract with the Esquamault Waterworks Company under which a power house, with Pelton water wheels and generators, will be erected at Goldstream. The power will be transmitted a distance of 12 miles.

COLLINGWOOD, ONT.—Fred T. Hodgson, architect, is preparing plans and specifications for the complete renovation and reconstruction of a block of five stores, the property of Mr. D. Wilson, in this town, on the corner of Hurontario and Simcoe sts. The work is to be commenced forthwith, as several tenants are waiting for the stores.

KINGSTON, ONT.—F. C. Ireland, city treasurer, will receive tenders until noon of the 15th inst., for the purchase of about \$80,000 of debentures.—The Montreal Transportation Co. are prepared to receive tenders for spiles for the foundation of the new elevator, the spiles to be from 40 to 55 feet long, and not less than 8 inches in diameter at small end.

ROSSLAND, B. C.—Operations have been commenced on the new reduction works to be built by the British Columbia Bullion Extraction Co. The work to be carried out at present consists of a railway siding, 4,000 feet of flumes, ore bins, and excavations for the foundation of the works. Plans of the proposed buildings have been prepared by Thomas W. Fisher, of Helena.

BERLIN, ONT.—Ahrens & Co., slipper manufacturers, have purchased property on which to erect a two-story factory, 140 x 46 feet.—The new building to be erected by the Louis Brethaupt Estate, mention-

of which was made in the last issue of the RECORD, will be 116 feet deep by 32 feet front on King street, three stories high, and will be used as a large dry-goods store. The front will be of pressed brick and stone. The architect is Mr. W. A. Langton, of Toronto, and it is probable that tenders will be taken during the present week.

CARLETON, N. B.—The annual meeting of stockholders of the Woodstock & Centreville Railway Co., was held in this town last week, at which the directors were authorized to enter into a contract with William Henry Crane, of Boston, for the construction of the road. Work is to be commenced not later than the 15th of November next, and to be completed by December, 1898.

ST. THOMAS, ONT.—The two city hall by-laws were carried on Monday last, one to raise the sum of \$40,000 to purchase the Idsardi site and erect a city hall; the other to raise \$10,000 to purchase the Ellison site for the purpose of erecting a city hall thereon at some future time. The decision as to which by-law will become law will either rest with the city council or be carried into the courts.

CASSELMAN, ONT.—The Catholic church recently destroyed by fire will be rebuilt without delay, the loss being well covered by insurance.—E. N. Hurtubise has commenced the erection of a cold storage building, and Jos. Benoit a general store. A. Sabounn will build a large brick hotel, and Jos. Charlebois another large hotel. All these new buildings will be of brick.—Merkley Bros. have lumber ready to start their shingle mill, and will begin its erection at once.

ORILLIA, ONT.—C. E. Grant, town clerk, has given notice that a by-law has been passed by the council providing for the issue of debentures to the amount of \$3,000 for building a school in the South Ward.—A proposition has been submitted to the town council by Mr. George White-Fraser, of Toronto, to supply electric power from Washago for manufacturing, lighting and waterworks purposes. Mr. Fraser estimates that power could be furnished for about \$25 per year per horse power for a twelve-hour day. The matter has been referred to the Fire, Water and Light Committee.—Mr. A. Tait has under consideration the erection of a box factory in this town, and has asked the council to exempt the proposed establishment from taxation.

STRATFORD, ONT.—The Sewers Committee has been authorized to invite tenders for the construction of a sewer on Shrewsbury street.—H. G. Powell, architect, has prepared plans for a new Y.M.C.A. building to be erected directly west of the Herald building. It will be 25 x 60 feet, of brick, two storeys and basement, and will contain gymnasium, bowling alley, visitor's gallery, bath and dressing rooms, secretary's office, reception hall and other necessary apartments on the lower floors. The top flat will contain an assembly room 45 x 23 feet, and a class room 23 x 12 feet. The building will, it is estimated, cost in the neighborhood of \$3,000. It is expected that tenders will be invited at an early date.

VANCOUVER, B. C.—The Rothschild-Evans syndicate, of London, England, have made a proposition to the City Council to erect a 350-ton smelter near this city, providing they are given a bonus of \$65,000.—Messrs. William McKenzie and D. D. Mann, of Toronto, have acquired the Vancouver, Victoria & Eastern Railway charter, covering the line from Victoria through Boundary Creek and Rossland. This road has been subsidized by the Dominion government to the extent of \$4,000 per mile, and it is said to be the intention of the new proprietors to commence construction between Penitcion

and Boundary Creek at once. This section is about 100 miles in length, and will be completed within one year.

HAMILTON, ONT.—Building permits have been granted as follows: F. J. Rastick & Son, two storey brick dwelling on Walnut street south, cost \$1,000; J. A. Armes, 2 two storey brick dwellings on Wilson street, for T. M. Williamson, cost \$2,000; E. New, 2 two storey brick dwellings on Bold street, cost \$2,400; Gurney Scale Co., office and wareroom, corner James & Colborne streets, cost \$1,700; E. B. Patterson, brick stable on John street north, for Samuel Barker, cost \$1,750.—The Hamilton and Toronto Sewer Pipe Co. have asked to be relieved of paying taxes on any improvements carried out. The company are said to have decided to rebuild their factory in this city.—The Toronto, Hamilton & Buffalo Railway Company propose to petition the Dominion Government for a subsidy of \$3,200 per mile for a railway between Brantford and Welland.

LONDON, ONT.—McBride & Farncombe, architects, are receiving tenders this week for the erection of a brick residence on Stanley street, South London.—Building permits have been granted as follows: W. J. Reid, remodelling of a residence on Queen's avenue, cost \$6,000; A. Garden, brick cottage on St. James street, H. C. McBride, architect; John Taylor, brick cottage on High street, South London, cost \$800; M. Warren, brick veneer cottage on Pegler street, cost \$800.—No. 1 committee of the Board of Education will recommend the erection of a two room frame school.—Pending the settlement of some matters regarding the new sewerage works, the council has decided not to open the tenders for the two new sections for which bids were recently asked. There is also two more sections for which tenders will shortly be taken.

OTTAWA, ONT.—An English company is said to have submitted a proposal to complete the Georgian Bay ship canal from this city to Georgian Bay, on conditions which are believed to be satisfactory to the Dominion government. The distance from Montreal to the mouth of the French river is about 430 miles.—Tenders are being taken this week by the Fire and Light Committee for the erection of a fire station on Lyon street, from plans prepared by M. C. Edey, architect, and for rebuilding the old hook and ladder truck.—The contractors for the new Dominion government bridge at Edmonton, N.W.T., find themselves unable to secure the quality of stone set forth in the specifications, and it is probable that concrete will have to be substituted.—Mr. A. B. McDonald, acting for a New York firm, is reported to have purchased the Clemow property at the corner of Sussex and Rideau streets. Nothing definite is known as to the intention of the purchasers, but it is possible that a new building will be erected.—W. F. Slack, is erecting a six-house brick terrace on Gilmour street.

QUEBEC, QUE.—N. Jobidon is about to commence the erection of two cottages on Maple avenue, from plans prepared by D. Ouellet, architect.—Mr. H. Simard has lately returned from the Island of Anticosti, where extensive construction work is being carried out. A railroad is being built from English Bay to Gamache Bay, a distance of nine miles. At the latter place it is proposed to build a wharf three quarters of a mile long, at a cost of \$100,000.—The new residence of Phileas Parent at Beauport will cost \$3,000. It will be 40 x 30 ft., three stories, the exterior to be of Don Valley pressed brick. The architect is J. Geo. Bussieres.—Messrs. Tanguay & Vallee, architects, are preparing plans for a storage building and cellar for the brewery of Amyot & Gauvin.—D. Ouellet, architect, is preparing plans

for the interior decorations of Port Daniel church at Baie des Chaleurs.—Tanguay & Vallee, architects, will prepare plans for a new church to be built at St. Victor de Tring for the Syndics of that place.

MONTREAL, QUE.—J. Alcide Chausse, architect, is preparing plans for two dwellings to be erected on St. Hubert street for Mr. Alexander Hogue.—A scheme is now before the St. Cuneonde council to purchase property to open Vine street to the canal.—The municipality of Villaray invites tenders for a loan of \$6,000. Tenders are to be received by the secretary-treasurer at No. 551 Laval avenue, this city, before noon of the 18th inst.—The Protestant school commissioners of Longueuil have decided to erect a new school building, for which a site will shortly be selected.—The McClary Mfg. Co., of London, Ont., are said to have decided to establish a factory in this city, and are looking for a site on which to build.—The Westmount town council are considering a by-law for the purpose of establishing a free public library. It is expected that at an early date steps will be taken to erect a suitable building, to cost in the neighborhood of \$13,000.—A movement has been commenced to secure the erection of a new theatre. Mrs. Frank Murphy, who was recently in the city, states that work on the new building will be commenced this fall. The structure, which will be built on Guy street, will cost \$85,000, and will have a seating capacity of 2,000. The promoters of this enterprise are Messrs. Achille Fortier, Emery Lavigne, Ernest Letondal, Jos. N. Fortier and Godfrey Longlois.—W. E. Doran, architect, is receiving tenders for reparations of a house on Notre Dame street for Mde. J. P. Cuddy.—Gamelin & Huot, architects, are preparing plans for two houses, six tenements, to be built on Park avenue, St. Henri, for Jos. Lemoine.

TORONTO, ONT.—The City Engineer has been instructed to report as to the best means of disposal and purification of the sewage from the eastern, western and Rosedale sewers.—The Grand Trunk Railway Company has offered to contribute \$5,000 towards the paving of Station street, and it is probable the city and property owners will provide the other \$5,000 required.—It is stated that the Presbyterian Church of Canada is negotiating for the purchase of the Canadian Chautauqua grounds at Niagara-on-the-Lake, at present controlled by a Methodist syndicate. The property is wanted for church purposes.—The report of Mr. McLachlin, the expert appointed by a committee of the city council to report on the cost of supplying electric power to the municipal buildings, has presented his report. To place the plant at the pumping station the cost would be: Plant, \$17,100; three copper cables, drawn into conduits, \$6,000; manholes and additional copper wire, \$17,000; total, \$40,100. For a plant at the municipal buildings the cost of a plant is given as \$19,100.—Ground has been broken on the east side of St. George street, just opposite Russell street, for a residence to be built for Mr. John Kay, from plans prepared by Curry, Baker & Co.—The city council has given notice of its intention to construct the following works: Macadam roadway on the road leading north from the north side of Queen's Park Crescent to Bloor street, cost \$3,500; macadam roadway on Harbord street, from St. George to Huron streets, cost \$2,000; concrete sidewalk on west side Lakeview avenue, from Harrison street to Churchill avenue, cost \$542.—Building permits have been granted as follows. Canada Permanent Loan and Savings Co., alterations and additions, 76 Hazleton avenue, cost \$1,800; R. P. Powell, 643 Yonge st., 2 story and attic bk. dwelling, n. e. cor. Bloor st. and Manning ave., cost \$2,000; Curry, Baker & Co., 2 story and attic bk. dwelling, 49 St. George st.,

cost \$8,000; Rev. J. C. Farthing, alterations to dwelling, No. 1 Glen road, cost \$1,000; Freehold Loan & Savings Co., six small brick additions and alterations, 1660 to 1672 Queen st., cost \$1,600; A. E. Plummer, 2 story and attic brick dwelling, Lowther ave., cost \$6,500, Eden Smith, architect.

FIRES.

A. H. Schul's residence in Colchester North, Ont., was burned to the ground last week.—A large warehouse at Fletcher, Ont., owned by J. L. Scott, of Chatham, was totally destroyed by fire a few days ago.—M. S. McKay & Co.'s woollen mill at Galt, Ont., was burned on the 7th inst. The loss to machinery is estimated at \$5,000, half of which is covered by insurance.—The residence of Mr. Simpson at Glencoe, Ont., was burned last week, at a loss of \$1,800.—A warehouse at Fletcher, Ont., owned by Armstrong & Fletcher, was burned on the 9th inst.—The villages of Casselman, South Indian and Cheney, as well as other smaller places in the Ottawa Valley, were almost completely destroyed by fire last week. The loss is estimated as follows. Casselman, loss \$213,625, insurance \$38,000, South Indian, loss \$99,900, insurance \$27,500, Township of Clarence, loss \$8,625, insurance \$1,300; balance of townships of Cambridge and Cumberland and village of Cheney, loss \$34,670, insurance \$1,900; district of St. Albert and township of South Plantagenet, loss \$25,000; total loss \$381,820, total insurance \$68,700. A number of bridges were also destroyed.

CONTRACTS AWARDED.

NELSON, B. C.—Newling & Co. have been awarded the contract for sewer construction; price, \$1,541.

GUELPH, ONT.—T. W. Duncan, Elora road, has let the contract for the erection of a two-story brick residence.

PEMBROKE, ONT.—J. Trottier, of this town, has secured the contract for an addition to a church at Sheen.

RENFREW, ONT.—The contract for water filters in connection with the waterworks system has been awarded to John McDougall, of Montreal.

METCALFE, ONT.—The contract for No. 3 section of the Doyle Creek drainage work has been awarded to John Bruce, of Ottawa; contract price, \$750.

BLENHEIM, ONT.—The government contract for extensive improvements to piers and residence of the lighthouse keeper has been secured by George Collar.

WATFORD, ONT.—The brickwork of D. Thom's new residence will be done by W. Marwick, and the carpenter work by T. Howden. M. L. Buffy, of London, architect.

CLINTON, ONT.—S. S. Cooper, of Seaforth, has been awarded the contract of building the memorial hall in this town for the Staveley estate, his tender being \$3,500.

COLLINGWOOD, ONT.—The Collingwood Cement Co. have contracted for laying down another half-mile of cement sidewalk on Main st. south, the work to be completed before 1st December.

BRACEBRIDGE, ONT.—George McCormack and Angus McLeod, of this town, have obtained the contract for supplying the Grand Trunk Railway with ties required for the system west of Belleville.

DUNDAS, ONT.—Tenders for a new fire hall have been awarded by the town as follows: Brick and stone work, L. Hickey; carpenter work, J. H. Anderson; galvanized iron and slating, William Findlay; plastering, W. R. Williams.

STRATFORD, ONT.—The Hamilton and Toronto Sewer Pipe Company have been

awarded the contract for sewer pipes. The contract for cement has been awarded to the Owen Sound Portland Cement Company, at the price of \$2 per barrel.

TORONTO, ONT.—Curry, Baker & Co. have accepted the following tenders for the erection of a residence on St. George street for Mr. John Kay: Brick work, Dancy Bros.; carpenter work, J. G. Scott; painting, McCausland Stained Glass Co.; roofing, H. Williams & Co.

LONDON, ONT.—Tenders for the erection of a two-room brick school on Colborne street south have been accepted as below: Carpentering, Davidson & Hessel, \$1,155.27; brick work, Everett & Sing, \$1,167; painting, R. Booth, \$64, plastering, Pritchett & Calhoun, \$164; heating contract not yet awarded.

OTTAWA, ONT.—The contract for the new roof of the western departmental block in this city was last week awarded to Mr. Hudon, a Montreal contractor, who has transferred the contract to Messrs. Paquet & Godbout, of St. Hyacinthe, Que.—W. F. Slack has been awarded the contract for the erection of three residences for R. Anderson.—McKinley & Northwood have been awarded the contract for installing a steam heating plant for the new residence of J. B. Fraser.

VALLEYFIELD, QUE.—The following are the tenders received for the construction of sewers, the respective figures being for the whole work and for the canal crossing: Cossette Bros., local contractors, \$76,245; Laporte & Co., \$70,650 and \$5,565.50; Keegan & Hefferman, \$79,000 and \$9,000; Theodore Belanger, \$89,547 and \$9,000; Bastien & Valiquette, \$80,000 and \$5,000. The contract has been awarded to Cossette Bros. J. Emile Vanier, 107 St. James street, Montreal, is engineer of the works.

QUEBEC, QUE.—Building permits have been granted as follows: Improvements

to Terreau & Racine's foundry on St. Thomas street; contractor, P. A. Lamonde, probable cost \$4,000. Repairs of a wall on St. Vallier street for the Federal Government; contractor, Frs. Cote, cost \$2,000. Repairs of a house on Dorchester street, for Mme. Lelievre. One building, wood, lined in brick, 25x30 feet., to be built on Richardson street for N. Vezina; contractors, F. Mongeau & Son. Alterations of a house on Bell's lane for M. Davis; contractor, Emile Cote.—The restoration of "La Chambre de Commerce" will cost \$3,000. Contracts have been awarded as follows: Joinery, Jos. Hudon; plastering, J. B. Girhereau; painting, decorating and glazing, Jos. Gauthier & Bros., roofing, Ed. Barbeau; plumbing, Ch. Vezina.—J. Geo. Bussieres has prepared plans for a building, 50x34 ft., four stories, to be erected at the corner of Taschereau and St. Jean streets for Dr. F. Boulanger. This block will cost \$8,000. Contracts have been awarded as follows: Masonry, Prosper Boulanger; joinery, J. B. Gingras; plumbing, C. Langhan; roofing, Isaac Gervais; painting, Geo. Gingras.

MONTREAL, QUE. M. A. Campeau & Company have secured the contract for the construction of sewers on Albina street, from St. Denis street eastward, and on Chambord street, from Gifford street northward, at \$5.93 and \$5.73, and rock excavation \$2.93.—A. Chausse, architect, has awarded contracts as below for two houses, 40x50 ft., two stories, stone and brick, on St. Lawrence street, for G. M. Gravel: Masonry, Boucher & Huberdeau; carpentry, A. Lavallee & Co.—Building permits have been granted as follows: One storage building, 40x53 ft., three stories, on King street, for S. H. Ewing—masonry, M. H. Hutchison; carpentry, Geo. Roberts; bricklaying, A. Cowan. One building, wood, lined in brick, on Amherst street, for A. Demers—masonry, J.

(Continued on Page 4.)

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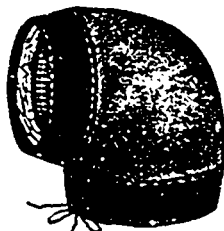
- THE McDONALD BUILDING, Victoria Square, Montreal.
- THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION BUILDING, Montreal.
- THE ROYAL VICTORIA COLLEGE, Montreal.
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Laurent; carpentry, H. Demers. One house, three tenements, 29x75 feet, three stories, stone front, corner of St. Urbain and Marie Anne streets, for M. A. Labelle—architect, Jos Sawyer, cost \$4,500. Addition, stone front, 3x40 feet, on St. Catherine street, for the Sisters of Providence.—J. Alcide Chausse has let the contract for one building, three tenements, three stories, to be built on St. Dominique street for Thomas Gauthier, to Trefle Charpentier.—A. St. Louis, architect, has accepted the following tenders for one house, 25x78 ft., three stories, stone and brick, on Montana street, for A. Toupin: Masonry, Theo. Lessard; carpentry, Arthur Toupin. Estimated cost, \$4,000.—W. E. Doran has accepted the following tenders for a building, two tenements, on Hibernia street, for Denis Donahue: Masonry, carpentry and bricklaying, J. Quinlan, cost \$2,500.

BUSINESS NOTES.

Joseph Archambault and Fabien Brosseau have formed a partnership in Montreal as plasterers.

Persons having claims against the late firm of Fleming & Lighthouse, contractors, London, Ont., have been requested to file the same with Hellmuth & Ivey, barristers.

EXCUSES FOR NON-PERFORMANCE OF A CONTRACT.

(Concluded.)

An employer prevents the performance of a condition precedent where he or his architect does not within a reasonable time supply the drawings with which the work can be completed. In the case of a prevention of performance by the architect an important question may often arise, whether the default of the architect in any and which of his duties constitutes a default of the employer, and if so, how will the jury or a court apportion the defaults.

The rights of the contractor, when he is delayed in beginning or proceeding with his work by the failure of the building owner to do something, depend upon whether such work to be done by the building owner is a condition precedent which would release the contractor entirely, or whether it merely gives the con-

tractor a right to damages, as being a partial prevention. If the condition is precedent or goes to the root of the matter, the contract may be rescinded or abandoned; if not, the contractor must go and seek his remedy in damages. If the contract is rescinded the contractor may still recover on a quantum meruit. The effect of this rule as to the liability of the builder to pay the penalties is, that the builder in cases where he has no option and must complete the contract is liable to the penalties for delay specified in the contract for every day on which he is late on completion. But he may recover damages against the employer for the prevention, and set them off against the penalties. The contract may be also construed as one merely to do the work within a particular period, so that if the contract is to do the work within the particular period, upon failure by the employer to allow performance to be commenced to time the contract is off, and nothing short of a new contract, express or implied, will create any liability to do the work. Performance may be delayed by the employers ordering extra work or alterations which cannot be done within the time, but even then the contractor must complete in a reasonable time. As a general rule, however, when the employer orders alterations and departures from the specification, or extra works not provided for by the contract, the builder is released from his obligation to perform

by a stated time; but a delay in the performance of the contract at the request of the employer, consented to by the builder, will not release the builder from completing the contract within a reasonable time when called upon.

The contractor may by going on with the work wholly or partially waive his claim to damages, or he may continue after expressly reserving such claim to damages. But if the prevention does not go to the root of the whole contract, but merely delays the performance, the contractor does not waive his right to recover damages merely by proceeding with the work.

If the prevention be the non-fulfilment of a condition precedent, or goes to the root of the matter, the builder has the right to abandon and sue at once, or the contractor may elect to complete, and he will then be entitled to the full contract price, plus the damages he has sustained by the prevention, if there is not a new contract, or if the prevention has not been waived. If the employer prevents performance, a contract to pay what is reasonable is implied by the law. The existence of the contract is not a question for the jury, but the amount of compensation is for them.

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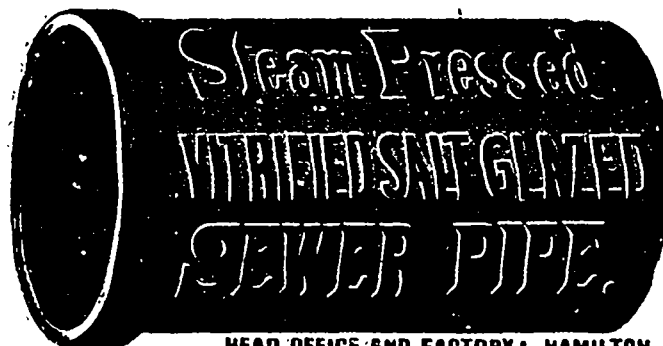
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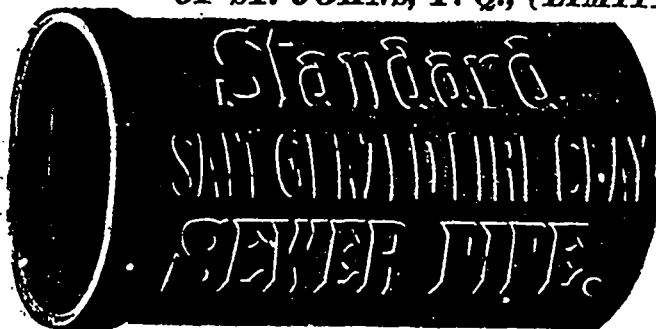


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MUNICIPAL DEPARTMENT

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.

WASTE OF WATER.

The practically unlimited supplies of water available for public use have led to great indifference about the enormous quantities of it which are wasted wherever waterworks are in operation, says the Insurance & Finance Chronicle. The cost of water to consumers is enhanced by this waste, but a more serious effect of it is to lower water pressure which, when a fire occurs, leads to inefficiency on the part of fire brigades and to heavy losses by property owners and insurance companies. Sir Frederic Bramwell—who is admittedly the greatest hydraulic engineer of the age—made a special study of water waste, and read a report of his observation about three years ago to the British Association of Civil Engineers. While engaged in this study he visited Canada, and as the result of his examination of the water supply of one of our largest cities he declared that the waste was enormous, and the working expenses 50 per cent. too large for the work done. To Liverpool, if we remember rightly, is due the credit of first adopting a system of street inspection through the night, by which any waste going on in mains or private service pipes can be detected and located. In that city the water consumption should be above the average from its liberal supply to public fountains, the purposes of sanitation, and the large private demand for houses, etc. Yet the consumption is only about 23 Imperial gallons per head daily, which is less than one-third of what is consumed legitimately and by waste in many cities. In Liverpool the consumption is allotted thus: 5 gallons per head daily for trade purposes; 3 gallons for fountains, street watering, sewer flushing, etc.; and 15 gallons for houses, hotels, offices, stores, etc., including all waste, making a total of 23 gallons per head daily. Sir Frederic Bramwell constructed a diagram which shows that 75 per cent. of water supplies run to waste. This diagram gives the consumption for each hour of the 24. From midnight to 6 a.m., and from 9 p.m. to midnight, the consumption

is shown to be very large, the maximum is reached at noon, and this keeps up, with small fluctuations, until 6 p.m. Yet, with all the demand for water during the day, for morning and evening baths, for washing, cooking, etc., the consumption generally is shown by Sir Frederic to be not double of what it is in the hours when the population as a whole are asleep! In one section of London, the efforts of a waterworks engineer resulted in reducing the consumption of water over 60 per cent., thus saving a waste of 2 millions of gallons daily. In some cities in the States it is known that the average daily supply per head is three times what can possibly be legitimately used. Philadelphia in 1890 had a consumption of 131 gallons per head daily, which is at least 100 gallons per head daily in excess of what could possibly be legitimately used. Yet complaints have been loud and deep that the supply of water in Philadelphia is defective, the mains too small, and the whole service inadequate for such a city! The normal consumption of water required for all purposes by cities of various classes, such as those purely residential, and those having factories, workrooms, and so on, ranges from 20 to 23 Imperial gallons per head per day. Mr. Deacon, in Harper's Weekly, presses upon the citizens of Brooklyn the urgency of stopping the waste in that city. There are many places in Canada where the above facts might be considered, and acted upon with considerable advantage.

MOSAIC SIDEWALKS IN BOHEMIA.

Since about 1860 the sidewalks of Prague and of other cities of Bohemia have been made in a mosaic of light and dark limestone cubes, which are considered of pleasing appearance. This industry flourished most about fifteen years ago. Then the competition of artificial stones and chamottes made itself strongly felt. But in the quaint, picturesque capital of Bohemia, the mosaic pavement is still in favor. The origin of this custom is curious. During the forties, water pipes were made of red Slovenetz marble, bored; the pipes did not answer, and a mason, Zák, is said to have hit upon the happy thought of utilizing the stone pipes in the manner mentioned. For some time afterwards limestone was actually brought to Prague, there to be converted into mosaic. It is rather curious, too, that Dr. F. Katzer, who directs attention to this in-

dustry, is chief of the Museo Paraense in Brazil. His articles in the "Oesterr. Zeitschrift für Berg- und Huttenwesen" have, however, a more practical than artistic interest. He deals with the matter from the lithochreological standpoint; that is, he examines the hardness and firmness of the stones, their wear under friction and under blows, etc. There is too little done in this respect, and too little agreement concerning the methods of testing paving and other materials.

ELECTRICAL WATER METER.

There has been so much complaint of theft of water from the mains of the city of Chicago that, at the request of Mr. McGann, commissioner of public works, Alexander Prussing has devised an electrical recording water meter intended to defeat the schemes of the dishonest. By the new method the dials register in the city hall and not on the individual meters. The clockwork, actuated by the passage of the water consumed through the service pipe, is removed and replaced by a simple pin, which moves with every revolution of the water wheel or every stroke of the piston and makes and breaks an electrical contact, thus registering with unflinching accuracy on the dial in the water office. An attempt to interfere with the operation of the device by short-circuiting would instantly give an alarm in the water office by causing a bell to ring and an indicator to record the number of the meter being operated upon. The same bell alarm system is used to prevent the meter from being opened, the removal of the cover infallibly breaking the circuit and setting the bell going.

The cost of installing this system would be great, but the inventor seems confident that it would pay.

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According to a description and illustrations in the London Engineer, an apparatus designed by the Superintendent of the Eastbourne Waterworks has been in use several years for cleaning the vegetable growths from reservoir walls and sides without the use of scaffolding and at half the usual cost. A rolling platform is made to travel around the coping, which it overhangs 2 or 3 feet to support a windlass and light frame or ways that extends down to the bottom of the reservoir. In these ways a cylindrical wire brush, with horizontal axis parallel to the reservoir wall surface, is moved from top to bottom by differential hoists by which it is suspended and is simultaneously revolved against the surface to be cleaned by means of sprocket chain connection with the two-man windlass or crank on the travelling platform above. For reservoirs with sloping banks the vertical ways are dispensed with, and the brush is handled by the chain connections alone.

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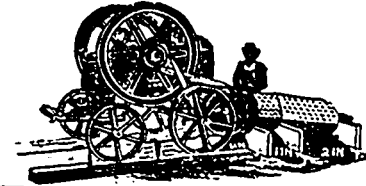
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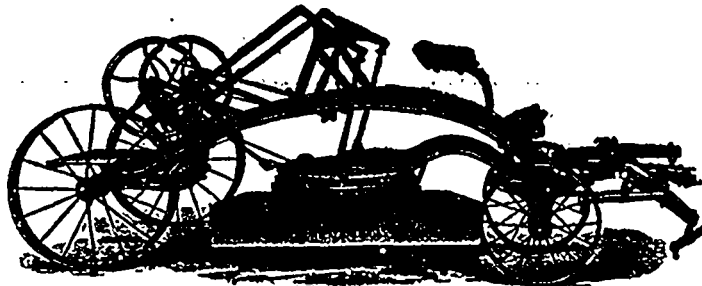
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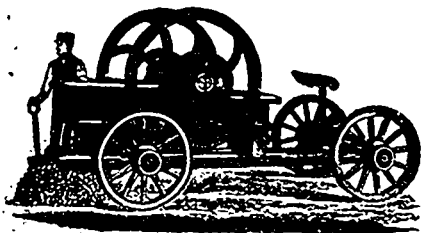
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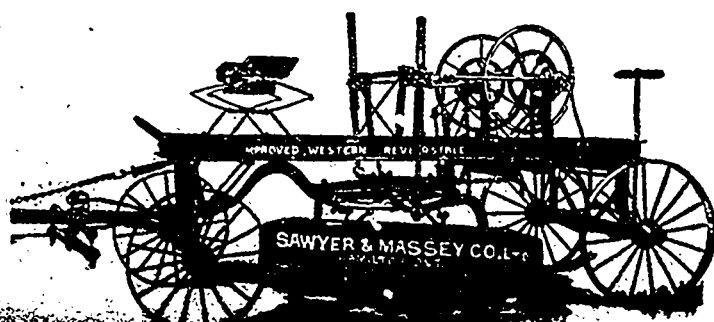
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Table listing prices for brick, including common walling, good facing, and various sizes of bricks.

Table listing prices for sand, per load of 1/2 cubic yards.

Table listing prices for stone, including common rubble, large flat rubble, and various types of granite and freestone.

Table listing prices for Ohio freestone from the Grand Stone Co.'s quarries, including various dimensions and types.

Table listing prices for credit-valley stone, including rubble and various types of stone for paving and building.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table listing various categories of advertisements such as Architects, Cement, Interior Decoration, Reflectors, Roofers, Legal, Machinery, Mantles, Grates, and Tiles, among others.

Table listing prices for dimensioned stone and granite, including Kent free stone and Quebec granite.

Table listing prices for slate, including roofing and ornamental black slate.

Table listing prices for paints, including white lead, red lead, and various colors.

Table listing prices for cement and lime, including various brands and types.

Table listing prices for hydraulic cements, including Thorold, Queenston, and Napanee.

Table listing prices for iron pipes and steel nails, including various sizes and types.

Table listing prices for lead pipes and waste pipes, including various diameters.

Table listing prices for galvanized iron, including steel beams, channels, and plates.