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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF
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.

VOL. 9.

JULY 13, 1898

No. 24.

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

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Telephone 2362.

Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

New York Life Insurance Building, Montreal.
Bell Telephone 2299.

NOTICE OF REMOVAL

Messrs. Darling & Pearson, Architects, have removed their offices to Toronto Railway Chambers, North-West corner King and Church Streets, Toronto.

ARC LIGHT ELECTRIC PLANT

Tenders for Dynamos, Lamps, Poles, Wiring, and all necessary electrical plant for the full equipment of a 350 2,000 C.P. Electric Arc Light Plant, together with all the necessary Engines, Boilers, etc., required for the steam plant to operate same, will be received at this office up to WEDNESDAY, AUGUST 3RD, 1898, where specifications and forms of tender may be obtained.

ORMSBY GRAYDON, City Engineer,
London, Canada.

ALD. SAMUEL STEVELY,
Acting Chairman No. 3 Committee.

TENDERS

Bulk or separate tenders will be received by the undersigned up to 6 o'clock p.m., MONDAY, JULY 27TH, 1898, for the different trades required for the erection of a MUNICIPAL BUILDING in the City of Stratford.

Plans and specifications may be seen and all information and forms of tender obtained at the offices of Geo. W. King, Architect, and J. W. Siddall, Associated Architect, Room 42, James Bldg., Toronto, also at the City Clerk's office, Stratford.

Tenders must bear the bona fide signatures of the tendering contractor and his two sureties, and each tender is also to be accompanied with a marked cheque for 2½ per cent. on all tenders over \$2,000, and 5 per cent. on all tenders under \$2,000, which cheque is to be made payable to the order of the City Treasurer, and will be returned to the unsuccessful tenderers immediately on the signing of the contract by the accepted contractors. Cheques of accepted contractors will be returned upon signing of the bonds.

The lowest or any tender not necessarily accepted.

G. F. INGRAM,
Chairman Market and Police Committee.
Stratford, July 5th, 1898.

Tenders will also be received by the undersigned for the rebuilding of the old City Hall, plans of which can be seen at the office of Alex. Hepburn, Architect, Stratford.

Similar conditions for tendering as above mentioned are to be complied with for these tenders.

G. F. INGRAM,
Chairman Market and Police Committee.
Stratford, July 5th, 1898.

TENDERS FOR SEWER WORK

Tenders will be received at this office (where plans and specifications may be seen) up to 5 o'clock on

THURSDAY, 28TH JULY, 1898,

for the supplying and laying of about 3,300 feet of 30-inch Cast Iron Sewer Pipe and 300 feet of Steel Pipe 20 inches diameter, together with the construction of all Siphon Chambers, etc., shown on plans.

ORMSBY GRAYDON,
City Engineer.
ALD. N. COOPER,
Chairman Sewage Committee.
WILLIS CHIPMAN, C. E.,
Consulting Engineer.

London, Ont., July 8th, 1898.

NOTICE TO CONTRACTORS

Tenders will be received by the undersigned up to 5 o'clock p.m. of FRIDAY, JULY 22ND, 1898, for the construction of:—

1. A Concrete Abutment, or
2. A Concrete Abutment with Quarry Stone Facing, or
3. An Abutment of River Stone,

for a Steel Bridge over the Etobicoke River, between the Counties of York and Peel, at Summerville, on Dundas Street.

Plans and specifications may be seen and all necessary information obtained at the office of the undersigned, Court House, Toronto, on and after July 14th, 1898.

The lowest or any tender will not necessarily be accepted.

By order,

JAS. McDOUGALL,
Engineer County of York.

Court House, Toronto, July 8th, 1898.



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, JULY 20TH, 1898, for the construction of the following pavements:—

ASPHALT PAVEMENT:

On Spencer Avenue, from King Street to Springhurst Avenue.

On Queen Street, from John Street to Bathurst Street.

BRICK PAVEMENT:

On Queen Street, from Pape Avenue to Greenwoods Avenue, track allowance.

Plans and Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after July 13th, 1898.

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 signature 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, July 7th, 1898.

TENDERS

Tenders will be received up till NOON, the 20TH INST., for all the various trades required in the Erection of a House on Bloor street. Plans and specifications may be seen at the office of

MESSRS. DARLING & PEARSON,
Architects,
Toronto Railway Chambers, Toronto.

Lowest or any tender not necessarily accepted.

Toronto Public Schools

TO BUILDERS AND CONTRACTORS

Sealed tenders, whole or separate, will be received, addressed to the undersigned, up to MONDAY, 12 O'CLOCK A.M., JULY 18TH, 1898, for the several works required for the

Enlargement of Shirley Street School,
and for the

Erection of New School Buildings

on
WINCHESTER STREET, PAPE AVENUE, AND
KIPPENDAVIE AVENUE.

Also for the balance of the usual Midsummer Repairs, Alterations and Improvements.

Plans and specifications may be seen and all information obtained at the office of the Superintendent of Buildings, Mr. C. H. Bishop, on and after Tuesday noon, July 13th, between the hours of 8 a.m. and 5 p.m., including Saturday.

Each tender must be accompanied by the deposit mentioned in the said specifications and forms of tender. The lowest or any tender will not necessarily be accepted.

JAMES BURNS,
Chairman of Property Committee.

CONTRACTS OPEN.

BANCROFT, ONT.—A roller flour mill will be built here.

TWEED, ONT.—A brick business block will be erected by John Comer.

ARNPRIOR, ONT.—The town council has decided to build an iron bridge.

MOUNT PLEASANT, ONT.—William Smith is about to erect a new dwelling.

DRYSDALE, ONT.—Peter Durand will probably build a cheese factory on Water street.

DINORWIC, ONT.—The C.P.R. purpose building a new station and section house here.

WELLAND, ONT.—O. H. Garner is taking tenders this week for rebuilding the opera house.

TALBOTVILLE, ONT.—Tenders have been invited by G. W. Calcott for repairing the parsonage.

SHELburne, ONT.—J. C. Whitten has commenced the erection of a brick residence on Main street.

COLLINGWOOD, ONT.—Tenders have been taken by the Fire and Police Committee for building a hose tower.

HAWKESBURY, QUE.—It is stated that the C.P.R. will build a line of railway from Point Fortune to this town.

WOLFVILLE, N. S.—E. E. Archibald, of Yarmouth, has purchased property here on which he will erect a residence.

SHERBROOKE, QUE.—The question of

building a new city hall will be considered at the next meeting of the council.

INDIAN HEAD, N.W.T.—The site is being prepared for the new elevator to be built by the Dominion Elevator Co.

STRATFORD, ONT.—On July 29th the ratepayers will decide as to which plan for the new city hall will be carried out.

GALT, ONT.—On August 1st the ratepayers will vote on a by-law to provide \$10,000 for the Ainslie street extension.

CARBERRY, MAN.—The Board of Trade wants tenders for building a flour mill and elevator. A bonus of \$10,000 is offered.

BERLIN, ONT.—A committee has been appointed to prepare an estimate of the cost of remodelling the high school building.

NEWCASTLE, ONT.—J. H. Phinney will receive tenders up to July 28th for supplying heating apparatus for the engine house.

LISTOWEL, ONT.—The by-law to raise \$19,500 for waterworks and electric light purposes was defeated by the ratepayers last week.

CHATHAM, ONT.—H. A. Fendy has invited tenders for the erection of brick veneered residence on Park street, from plans by T. J. Rutley.

BRANDON, MAN.—There is some talk of a block of stores being built on Rosser avenue, between the Syndicate block and the Nation building.

LANARK, ONT.—It is claimed that the necessary capital has been secured to build the proposed electric railway between Lanark and Perth.

STOTTSVILLE, QUE.—A new church is to be erected here, to replace the one destroyed by fire some time ago. Rev. Mr. Dupuis is parish priest.

ST. JOHN, N. B.—The Jewish citizens have decided to build a place of worship at the foot of Carleton street, to be of wood and to cost \$2,000.

TRURO, N. S.—The Midland Railway Company has commenced the building of its road, which will extend from Truro to Windsor, a distance of 60 miles.

SHARBOT LAKE, ONT.—Tenders are wanted this week for building a brick veneered church. Particulars from T. Austin Smith, chairman of committee.

KINGSTON, ONT.—The Waterworks Committee of the City Council is considering the question of constructing a duplicate 12-inch water main, to cost \$3,700.

ORILLIA, ONT.—W. H. Croker, architect, has completed plans for a four-story building, 50 x 120 feet, for the Tudhope Carriage Co., to be used as a warehouse.

GUELPH, ONT.—G. R. Bruce, architect, wants tenders by Thursday, 14th inst., for additions and alterations to G. B. Morris' hardware store for Mrs. George Elliott.

HINTONBURG, ONT.—The agreement between the Ottawa Suburban Water Works Company and the village for putting in a system of waterworks has been signed.

VANCOUVER, B. C.—W. T. Dalton, architect, is taking tenders this week for a store and office building on Hastings street, and stores and offices on Granville street.

HULL, QUE. The Toronto Rubber Shoe Co., who were recently voted a bonus by this town, have decided not to build here, owing to the water power being inadequate.

BARRIE, ONT.—A representative of the Ontario Public Works Department was recently in town in connection with several improvements in different places to facilitate navigation.

PORTAGE LA PRAIRIE, MAN.—The Central Electric Light Co. contemplate putting in a telephone exchange in opposition to the present company.—Charles

Graban intends making improvements to his business block.

ST. HERMENEUILDE, QUE.—J. D. Dupont will receive tenders on behalf of the corporation of Barford up to July 30th for the construction of a bridge across Kinney Brook.

AYLMER, QUE.—S. Mousseau purposes building a club building, to be fitted with gymnasium, pool tables, boxing ring, etc.—The town council will probably put in a new fire alarm system.

PEMBROKE, ONT.—Tenders are being taken this week for plumbing, carpenter work and painting, and reconstructing a vault at the court house and gaol. Plans at office of J. L. Morris, C. E.

PETERBORO, ONT.—The by-law to raise \$10,000 for bridges and a steam road roller has been passed in Council—Improvements are to be made this summer to Marks street Methodist church.

DUNDAS, ONT.—Mr. Armour, C. E., has prepared plans for the construction of a dam, and the committee have recommended that tenders be called for sheet piling and extra bents and walling.

HALIFAX, N. S.—The city electrician has submitted a report to Council showing the probable cost of lighting the city by a municipal plant. The question of installing the same will be considered at an early date.

PAPINEAUVILLE, QUE.—The Northrup Loan Co. have purchased property on which to build a large foundry. A. F. Gault, of Montreal, is president of the company, and Archie Gault secretary-treasurer.

GLENCOE, ONT.—George M. Harrison, village clerk, will receive tenders up to Monday, 18th inst., for the erection of a town hall in this village. Plans at offices of village clerk and M. L. Buff, architect, London.

WALLACEBURG, ONT.—Mr. Colwell has been granted a permit for a two-story brick building on James street.—The by-law to provide \$5,000 for building artificial stone walks was carried by the ratepayers last week.

BRIGHT, ONT.—R. J. Henderson, township clerk, wants tenders by Saturday, 16th inst., for the construction of a bridge over Homer's creek, 60 feet span, iron, steel or combination, with stone or wood abutments.

RAT PORTAGE, ONT.—The town engineer has been instructed to call for tenders for the construction of a sewer.—Messrs Belyea & McKenzie will invite tenders this week for building the new opera house.

CAMPBELLTON, N. B.—Malcolm & Ross will shortly commence work on the building of the Restigouche and Western railway, twenty miles of which will be built this year. The road will be 120 miles in length.

ELMGROVE, ONT.—Joseph Whitesides, chairman Property Committee, will receive tenders up to July 16th for grading and road-making at House of Industry. Specifications at office of Smith & Bird, architects, Barrie.

BARRIE, ONT.—The Electric Light and Waterworks Committee have reported to the town council in favor of installing a municipal lighting plant, and recommending that a vote of the ratepayers be taken on a by-law to provide \$35,000 for the purpose.

WINDSOR, N. S.—The Board of Management of the Presbyterian church invite architects to compete for plans for a stone or wood church, with a seating capacity of 800. If built of wood, the church is to cost \$12,000, and if of stone, \$16,000. The sum of \$100 is to be paid for the accepted design.

NIAGARA FALLS, ONT.—It is stated that the Clifton House will be rebuilt on

the old site. The new structure will be constructed of stone, iron and brick, cost \$150,000, to contain 200 rooms, all fitted with improved baths and elegantly furnished. Work will likely be commenced about August 1st.

ROSSLAND, B. C.—A loan is to be floated to complete the sewerage system and provide funds for the fire department. New tenders will be invited for \$35,000 of debentures, to be expended in street improvements.—The Bank of Montreal has invited tenders for the erection of a brick building here.

BROCKVILLE, ONT.—In consideration of free site and water, the Brockville Packing and Provision Company offer to erect brick and stone buildings to cost between \$50,000 and \$60,000. It is probable that a vote of the ratepayers will be taken on the question.—A number of granolithic sidewalks and sewers are about to be constructed.

ST. THOMAS, ONT.—The City Council has appointed a committee to report on the question of establishing a municipal electric plant for street lighting and commercial purposes.—The Elgin county council have appointed a committee, consisting of Messrs. Moore, Leitch, Turner, Cole, Locker and Morris, to make arrangements for the rebuilding of the court house, and to obtain plans for same.

QUEBEC, QUE.—At a meeting of the Quebec Bridge Co. held last week, the engineer, Mr. Hoare, submitted a report relative to the work that should be carried out this year. The plans submitted will involve an expenditure of between \$200,000 and \$300,000, which will include the construction of small piers, crushing and cutting stone and other preparatory work. The directors authorized the engineer to prepare for calling for tenders for the construction of the bridge by the 1st of September.—The parish of St. Roch have asked the city for a piece of vacant land on which to build a church.—Charles Baillarge, city engineer, has invited tenders for covering with sheet iron the new Jacques Cartier market hall.

BRANTFORD, ONT.—On Wednesday, July 27th, the ratepayers will vote on a by-law to provide the sum of \$3,000 for the purchase of a steam road roller and \$50,000 for flood prevention works.—The County House of Refuge is to be enlarged. A mortuary will be built and an addition made to one of the wings.—George Hatley wants tenders by July 20th for the erection of new buildings and the enlargement and repairing of other buildings for the South Brant Agricultural Society. Plans at the store of S. Suddaby.—It is reported that arrangements have been completed for the construction of a line of railway between this city and Woodstock, and that a survey of the route will be made at once. Mr. R. L. Middleton, of the firm of McKenzie, Middleton & Stewart, will have charge of the construction of the road.—The Fuller Moulding & Foundry Co. purpose enlarging their premises.

HAMILTON, ONT.—The council has given notice of its intention to construct pipe sewers on Ferris street and Aikman avenue, and a cement sidewalk on north side King street, from Jarvis to Wellington.—The ratepayers will vote on a by-law on July 27th to raise \$50,000 for trunk sewers.—The Fire and Water Committee have decided to improve the pumping engine by putting in new frames, to cost about \$4,000.—Frederick W. Watkins has purchased the Proctor building, 18 to 24 James street south, and purposes erecting a large store on the property.—Building permits have been granted as follows: A. W. Peene, addition to Hamilton Engine Packing Co.'s premises, Alanson street, cost \$985; Charles Mills, two story brick dwelling on West avenue, near King, for Hon. W. E. Sanford, cost \$1,900; Charles Mills, two story brick dwelling on King

street, betw cost \$3,200

WINNIPEG of Zion ch with the b ship.—A. veved 50 r of the G. F —The Mi Mich., are and have ing what i —The Cor mended th ried out : ? Broadway macadam Main to V avenue, H; Market s \$3,500; ce between ? \$1,700.

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MONTREAL has given no struct a sew end of existi town of St. L is about to ur feet of sewers out under the C. E.—The l capital \$100, ganized, to c icé cutting m pose erecting corner of Mc is stated that sanction som mended by work will be harbor impro has asked the

street, between West and Victoria avenues, cost \$3,200.

WINNIPEG, MAN.—The congregation of Zion church have decided to proceed with the building of a new place of worship.—A. F. McCallum, C.E., has surveyed 50 miles of the proposed extension of the G. N. W. C. railway from Hamiota.—The Michigan Heater Co., of Detroit, Mich., are desirous of locating in this city, and have written to the city council asking what inducements they might expect.—The Committee on Works have recommended that the following works be carried out: Sewer on Maryland street, from Broadway to Portage avenue, cost \$1,500; macadam pavements on Thistle street, Main to Victoria, cost \$2,100; St. Mary avenue, Hargrave to Carleton, cost \$800; Market street, Main to Louise, cost \$3,500; cedar block pavement on lane between Main and Fort streets, cost \$1,700.

OTTAWA, ONT.—The New York and Ottawa Railway Company have filed completed plans of its railway. The company intend erecting workshops at an early date to accommodate every requirement of the road.—The shareholders of the Ottawa and Gatineau Railway Company have authorized the directors to issue \$500,000 of debentures for the construction of the interprovincial bridge at Nepean Point. The Dominion government has approved of the plans of the bridge and work will shortly be commenced.—The Ottawa Suburban Water Works Company, capital \$90,000, has been granted a provincial charter, to construct waterworks in villages and towns. E. J. Rainboth, C. E., and R. G. Code, barrister, are interested.—Building permits have been granted as follows: Public School Board, new school on First avenue, cost \$21,000; Wilson Bros., addition to Holiness Institute, cost \$2,000; Corporation of Ottawa, fire station in St. George's ward, cost \$7,000.

LONDON, ONT.—The Board of Education have authorized plans to be prepared and tenders invited for a two room school to be built in the north part of the city.—Tenders have been invited for painting and kalsomining in connection with the public schools.—An effort is being made to organize a new telephone company. A number of local capitalists are interested.—Work has been commenced on the erection of Humpidge's new factory, corner Talbot and Carling streets.—The question of sewerage disposal and treatment is still being considered by the city council. The Pennsylvania Sanitation Company have submitted to the council details of their system.—A petition has been presented to the County Council asking for the establishment of a municipal opera house.—In this issue tenders are invited for the laying of steel pipe and also for an electric light plant.—The Sewerage Committee have recommended that tenders be called for the construction of a syphon, and also an embankment for section "B" of the sewerage works.

MONTREAL, QUE.—The city council has given notice of its intention to construct a sewer on Poupart street, from end of existing sewer to lot 1364.—The town of St. Louis, a suburb of Montreal, is about to undertake the laying of 2,000 feet of sewers. The work will be carried out under the supervision of Mr. Vanier, C. E.—The Laprairie Bay Ice Company, capital \$100,000, has recently been organized, to cut ice by a patent electric ice cutting machine. The company purpose erecting large storehouses at the corner of McGill and Common streets.—It is stated that as soon as the city council sanction some slight alterations recommended by the harbor commissioners, work will be commenced on the proposed harbor improvements.—The city surveyor has asked the finance committee for \$15,

000 for flood prevention works.—The C.P.R. are making arrangements to commence the erection of the proposed addition to the Windsor depot.—L. R. Montbriand, architect, has prepared plans for a 3 story building on Esplanade avenue, for Leandre Ouimet. The mason and brick work has been let to Letreille & Frere, but other trades have not yet been given.

TORONTO, ONT.—The Sites and Building Committee of the Separate School Board have been instructed to receive tenders for heating and plumbing of the new St. Patrick's school, Caer Howell street.—Mr. F. H. Herbert, architect, is this week taking tenders for the remodelling of three residences on Ontario street for John W. Carter. Tenders close on Friday at 5 p. m. Same architect will next week call for tenders for additions and alterations to a store on Yonge street for the Cawthra Estate.—The authorities of the Toronto University purpose remodelling the Technical School building into a residential institution.—The City Council has given notice of its intention to construct concrete sidewalks as follows: Carlton street, south side, Church to Jarvis, cost \$685; York street, east side, Front to 285 feet north, cost \$630; Front street, south side, Scott to Church, cost \$1,230.—The executors of the estate of the late Hart A. Massey have acquired the property on the north side of King street, between Strachan avenue and Massey street. The buildings will be torn down and a workmen's club building erected for the employees of the Massey-Harris Co.—J. F. Brown, architect, Board of Trade building, is taking tenders this week on three brick stores to be built at Thornhill, and on the new Baptist church in East Toronto.—A canvass will be made during the coming summer for funds to erect a new church for the Euclid avenue Methodist church congregation. If successful, the erection of a new building will be undertaken at an early date. Sketch plans have already been prepared, which show that it is intended to use the walls of the present building.—In this issue tenders are invited for a steel bridge to be built on the Dundas road, between the counties of Peel and York. The work will be carried out from the plans of Mr. James McDougall, county engineer.—The Local Board of Health has adopted the report of the sub-committee appointed to select a smallpox hospital site. The building proposed to be erected will cost in the vicinity of \$4,000.—Ratepayers on Colborne street, between Yonge and West Market, have petitioned against a brick pavement as recommended by the city engineer. Those

situated between Yonge and Church streets have asked for asphalt instead, and on the other section of the street cedar blocks are wanted.—The city engineer has recommended the construction of the following pavements: Brunswick avenue, from Bloor to Ulster street, brick, cost \$11,950; Bathurst street, Front to Niagara street, cedar block, cost \$4,230.—The Kemp Mfg. Co. and McColl Bros. are both desirous of obtaining from the city the block of land to the south of Gerrard street, on the Don flats, with a view to extending their premises.—The following building permits have been granted: Jos. Cololin, two story and attic brick dwelling, 352 Bathurst street, cost \$1,800; Jas. Robertson Co., one-story addition to color works, west side Dorset street, near King, cost \$2,000.—The congregation of Clinton street congregational church intend erecting a new church, to accommodate 700 persons, at the corner of Clinton and College streets, Rev. J. C. Madill is pastor.—The Mayor has pronounced in favor of the construction of a bridge from the city to the island.

FIRES.

The fires of the past week include the following: Mastigouche Lumber Co.'s saw mill at St. Gabriel de Brandon, Que.; loss \$20,000, insurance \$9,000.—General store of Shaw & McKerrather, at Perth, Ont.; building only slightly damaged.—The Havergal Ladies' College on Jarvis street, in course of construction, damaged to the extent of about \$10,000. G. M. Miller & Co., architects.—Premises of the Gale Mfg. Co., Mining Lane, Toronto, totally gutted by fire, loss \$50,000.—D. Conboy's carriage factory at 485 King street west, Toronto, partially destroyed, loss \$2,000.—Mount St. Bernard Ladies' College at Antigonish, N. S., totally destroyed; loss \$30,000, insurance about half that amount.—Block of ten houses, including the Queen's House and Hebert's Hotel at Edmonton, N.W.T.; loss \$30,000, partially insured.—Portable steam saw mill owned by A. A. Stevens and Beecher Tingley at Baltimore, Albert County, N. B., loss \$3,000.—Block at Colborne, Ont., owned by D. W. Simmons.—Button factory of J. Y. Shantz & Son, King street, Berlin, Ont. The building was owned by the Bank of Commerce.

CONTRACTS AWARDED.

TAVISTOCK, ONT.—Improvements to school buildings (H. J. Powell, Stratford, architect). Carpenter work, H. B. Wilker;

(Continued on page 4).

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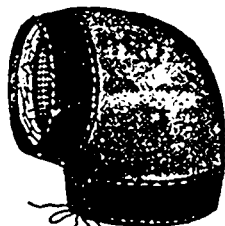
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masonry, Wesley & Qhehl; painting, Fred. Schleui; cost \$2,700.

WATERLOO, ONT.—Town debentures: O'Hara & Co., of Toronto, successful tenderers, at premium of \$148.30.

BROCKVILLE, ONT.—Addition to St. Vincent de Paul hospital: William Driscoll, contractor, price about \$4,000.

CASSELMAN, ONT.—R. C. parsonage: Louis Jacques, of Janeville, and Mr. Marion, of Ottawa, successful tenderers.

ALMONTE, ONT.—Heating and ventilating Martin street school: J. F. Pease Furnace Co., Toronto, successful tenderers.

SEELEY'S BAY, ONT.—New English church: Masonry, W. Randolph; carpenter work, John King, both of Kingston.

CHATHAM, ONT.—The City Council has decided to purchase a Buffalo Pitts road roller and a Sawyer Massey crushing machine.

CHESLEY, ONT.—New Methodist church: Stone and brick work, W. J. Washburn, carpentry, D. Steven, cost about \$7,000.

BRANTFORD, ONT.—Iron bridge over Fairchild's creek: The tender of the Hamilton Bridge Co. will likely be accepted; price \$1,400.

DELHI, ONT.—Addition to county home: John E. Montgomery, successful tenderer, \$4,477; hot water heating, Palmerton & Madden.

GLADSTONE, MAN.—New school: Brickwork, King Bros.; carpenter work, McDougall & Phillips; furnace, W. C. Bond. Mr. Barber, of Neepawa, is architect.

TRENTON, ONT.—Robert Waddell, of this town, has secured the contract for the construction of the Brandon and Southwest railway from the Turtle Mountains to Brandon, and from Deloraine to Waskida, a total distance of 90 miles. The work is expected to cost \$1,000,000, and is to be completed by November 1st, 1901.

LISTOWEL, ONT.—One partial and five complete tenders were received for the extension of the waterworks system. The tender of Clark & Connolly, of Toronto, at \$13,647, has been recommended for acceptance, but as the by-law to provide the necessary funds has been defeated, it is probable that the work will not be carried out.

ST. THOMAS, ONT.—Residence for Levi Cruttz: Masonry, Horton Bros.; carpentry, S. Peterson; plumbing, C. Bull; plastering, J. Hill; sheet metal work,

Cadman & Williams; furnace, Stacey Hardware Co. J. Z. Long & Son are architects.—The following tenders were received for repaving Talbot street: Chas. McCorkell—53½ cents per square yard; rebuilding gullies, \$25; will allow \$500 for use of steam roller (accepted). Lindop & Freek—laying the brick, 89 cents per square yard; gullies, \$14; allow \$550 for use of steam roller. J. H. McKnight, Toronto—86 cents per square yard; gullies, \$19; will allow 5 cents per square yard for steam roller. L. H. Gipp, Tonawanda—85 cents per square yard; gullies, \$15; will allow \$500 for use of steam roller. Elliott & Workman, Brantford—73½ cents per square yard; gullies, \$13.50; will allow \$300 for use of steam roller.

MONTREAL, QUE.—G. A. Monette, architect, has prepared plans for two stores to be erected on St. Chas. Barrome street for Mrs. Pierre Dupois. Contracts have been awarded to the following: Mason and brickwork, C. O. Lamontague;

carpenter and joiner's work, D. Houle; plastering, H. Contant; painting and glazing, C. Fortier; plumbing and heating, D. A. Demers; ironwork, W. E. Walberg; hydraulic elevator, Geo. Brush; roofing not let.—H. R. Falbord, architect, has awarded contracts as follows for repairing of a three-story building, 91 Hutcheson street, for A. Gatong, M.D.; Mason and brickwork, Louis St. Amour; roofing, plumbing and heating, Blouin, Desforges & Latourelle; plastering, J. Chamberland.

TORONTO, ONT.—Mr. F. H. Herbert, architect, has awarded contracts for residence on Delaware avenue for W. J. Parks as follows: Masonry, Davidge & Lunn; carpentry, W. J. Hewitt; plumbing, J. T. Aggett; iron and roofing, W. J. Moody; plastering, C. B. Simpson, painting, C. Davies & Co. Same architect has awarded the contract for the red Spanish tiling of residence on St. George street for Mr. T. W. Horn to Messrs. Duthie &

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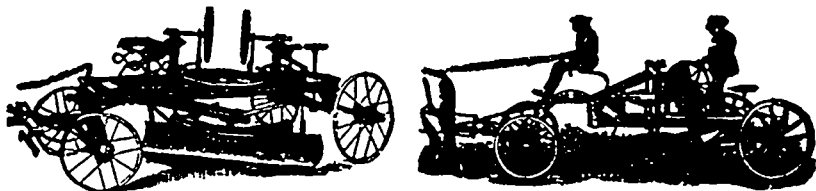
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Sons, and the exterior copper work on same house to Messrs. A. B. Ormsby & Co.—The tender of the Gutta Percha and Rubber Co., for supplying the city with 3,000 feet of "Paragon" fire hose, at 85 cents per foot, has been accepted.—The Board of Control last week awarded contracts for pavements as follows: Track allowance repairs—Dominion Contracting & Paving Co., Yonge street, Bloor to Davenport, scoria between tracks, \$2.34 per square yard, Canadian brick on devil strip, \$1.24 per square yard; King street, Simcoe to Spadina, and Queen street, Yonge to Bathurst, scoria throughout, at \$2.34 per square. Cedar block—Murray street, Caer Howell to north end, Bryce & Co., \$1,413; Shaw street, Queen to Arthur, Dominion Contracting & Paving Co., \$4,468. Brick pavement—Dundas street, Queen to Arthur, Dominion Contracting & Paving Co., \$10,613. Asphalt pavement—Cowan avenue, King street to Queen, Construction & Paving Co., \$7,589. Macadam roadway—Bernard ave., Arthur to Bedford road, J. H. McKnight, \$1,972. Concrete sidewalks—Albert street, south side, James street to Terauley street, Construction & Paving Co., \$1.60 per lineal foot; St. George street, Bloor to Harbord, Gardner & Co., 94 cents; Queen street, south side, 66 feet west of Victoria, Gardner & Co., \$1.80 per foot; Queen street, north side, James to Terauley, Gardner & Co., \$2.50; Elizabeth street, east side, College to first lane north, J. H. McKnight, 73 cents. Tamarac pavement—Scott street, Esplanade to Front, Dominion Contracting & Paving Co., \$3,517.

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MUNICIPAL DEPARTMENT

THE SANITARY CONDITIONS OF TOWNS AND DWELLINGS.

The following resolutions relating to the sanitary conditions of towns and dwellings, which were prepared by Prof. Corfield at the request of the Organizing Committee of the International Congress of Hygiene and Demography, held at Buda-Pest in 1894, have been adopted by the international congress at Madrid.—

(1.) That the general health of the population is improved and the spread of diseases prevented in towns and dwellings by the immediate removal of all foul matters, and by a copious supply of pure water.

(2.) That the paving of streets should be smooth, and as far as practicable, impervious, to facilitate cleansing and also to prevent contamination of the subsoil.

(3.) Special measures should be taken in the construction of houses to prevent the access of ground-air and moisture to the floors and walls.

(4.) House drains should be arranged so as to avoid stagnation of their contents and to secure a rapid flow to the street sewer. They should be impervious to liquids and gases, freely and continuously ventilated, and provided with syphon traps to prevent the access of foul air to the houses.

(5.) The public sewers should be so constructed as to secure the rapid and uninterrupted flow of the sewage to their outlets. They should always be freely ventilated.

(6.) The streets should be as wide as possible in proportion to the height of the houses; this proportion should be fixed in each locality, regard being had to local circumstances and to climate.

Every inhabited building should be well lighted throughout its whole depth, and arranged so as to have an access of air from at least two sides.

(7.) Special regulations should be made in each locality by the public authorities, with the view of enforcing the practical application of the principles herein laid down.

Governments and municipalities should resolutely and energetically carry out the preceding recommendations, especially those concerning the healthiness of dwellings.

The committee consisted of the following gentlemen: Prof. Corfield, London; Dr. Pistor, Berlin; Herr Andreas Meijer, chief engineer of Hamburg; M. G. Bechman, ingenieur en chef des ponts et chaussées, Paris; Prof. Fodor Budapest; Mr. Arthur Cates, architect, London; Herr Berger, chief architect, Vienna; Herr Lindley, engineer, Frankfurt-on-Main; and Dr. A. J. Martin, member of the Consultative Committee of Public Hygiene of France.

FLUSHING PIPE SEWERS.

In a paper on the above subject by Mr. H. N. Ogden, jr., M. Am. Soc. C.E., the following conclusions were reached as the result of extensive enquiry:

(1) Flushing of some sort is required at the upper end of laterals, the frequency and the amount depending on the number of house connections, on the carefulness or prodigality in the use of water by the householder, on the grade and size of the sewer, on the character of its construction, and on a mysterious something which defies definition, but which produces frequent accumulations in one line and does not affect another, apparently like the first.

(2) This variety in the conditions prevents any exact statement of a relation between the quantity of water which should be discharged from a flush-tank and the grade of a sewer, but it plainly indicates that the value of automatic flush-tanks lies in a general guarantee of insurance against accumulations in the upper part of the laterals, while periodic hand-flushing must be depended on only when in charge of a responsible, indefatigable and intelligent caretaker.

(3) Judging by the experience at Ithaca, and despite the statements of other engineers, it seems to the author that on grades of less than 1% automatic flush-tanks are an economic necessity, even where water has to be paid for, the added expense of frequent hand-flushing more than off-setting the possible discharge of flush-tanks when not absolutely necessary.

(4) The volume of water discharged should not be less than 40 cu. ft., and the effect of the flush can hardly be expected to reach more than 600 to 800 ft. Below this point accumulations may occur which must be removed by hand flushing and carried on to a point where the sewage flow has the necessary transporting power.

(5) On flat lines and where obstructions occur below the influence of the flush-tank, a second flush-tank, placed about 800 ft. from the first, will be more effective than increasing the first tank to a capacity of three times its original discharge.

(6) The frequency of discharge should depend on the local conditions, but it is probable that the maximum interval depends on the practical working of the siphon, so that the usual prescription of once in 24 hours is a safe rule.

(7) If tanks are used on grades greater than 1%, 15 to 20 cubic feet give as good results as larger amounts, with the same rule as to frequency of discharge.

(8) However, economy is best served on grades above 1% by omitting flush tanks and resorting to periodic hand-flushing at such intervals as experience shows to be necessary on the different lines. In most cases semi-annual or

quarterly flushings with a hose are sufficient.

(9) On grades greater than 3% flush-tanks are unnecessary, and their installation is a waste of money.

(10) Hand-flushing should be performed and tanks discharged at night, as a flow of even an inch in a sewer offers a large resistance to the flushing action, while with a pipe flowing half full the effect of a flush tank is scarcely visible.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

CORNWALL WATERWORKS CO. v TOWN OF CORNWALL.—Judgment in action tried without a jury at Cornwall. Action to recover possession of the property and works of the plaintiffs and to obtain the value of certain stores of coal, etc., used by the defendants the town corporation, and to recover water rates down to the time the defendant town corporation took possession. The defendant town corporation paid into a bank, without order of the court, the amount fixed by an award as the compensation to be paid by them upon taking over the property and works of plaintiffs. The money was paid in to the joint credit of plaintiffs and the defendants, the Farmers' Loan and Trust Company, the mortgagees of the plaintiffs. The agent of the defendant town corporation, the defendant Strickland, obtained admission through a window. The money is still in the bank. Held, that upon the making of the award and the final passing of the by-law for raising the money required to pay for the property, the town corporation became entitled, under R. S. O. ch. 199, sec. 62, to the possession of the property. They succeeded in obtaining possession without a breach of the peace, and were entitled to hold it. *Taylor v Cole*, 3 T. R., 292; *Stroud v Kane*, 13 U. C. R., 459. The present action was brought within a few days after the time at which the amount of the award was payable, and the plaintiffs were therefore not entitled to rely upon sec. 64 of the Act, which provides for their resuming possession if the amount awarded is not paid within six months after it becomes payable under the award, and it made no difference that that period had elapsed when the case was tried. Action dismissed so far as claim to possession is concerned. Action also dismissed against defendant Strickland and defendants the Farmers' Loan and Trust Co., with costs. Judgment for plaintiffs upon the other claims against the defendant town corporation for \$777.19, with costs of the action; the defendant town corporation to be entitled to set off the costs of the issues upon which they succeeded. In order to save further question, the judgment may contain a declaration that the money in the bank is the property of the town corporation, and should be paid to them free from any claims either by plaintiffs or the defendants the company.

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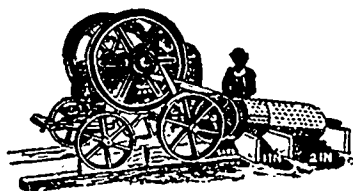
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Table listing Hardware such as Cut nails, Steel, and CUT NAILS, FENCE AND CUT SPIKES.

IRON PIPE.

Table listing Iron Pipe products like Iron pipe, Waste pipe, and Galvanized Iron.

LEAD PIPE.

Table listing Lead Pipe like Lead pipe and Waste pipe.

GALVANIZED IRON.

Table listing Galvanized Iron products like Adam's-Mar's Best and Queen's Head, Gordon Crown, and Steel Beam.

STRUCTURAL IRON.

Table listing Structural Iron products like Steel Beam, channels, angles, tees, plates, and Sheared steel bridge plate.