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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.

MARCH 9, 1898

No. 6.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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WATERWORKS CONSTRUCTION

FORT WILLIAM, ONT.

Sealed Tenders, addressed to the Secretary, will be received by the Board of Water and Light Commissioners up to 8 p.m. on

Monday, 4th April, 1898.

Full particulars can be had and plans and specifications seen at Fort William and at the head office of the Consulting Chief Engineer, John Galt, Esq., C.E. and M.E., Canada Life Building, Toronto.

Marked bank cheque, payable to Board of Water and Light Commissioners, for 6 per cent. of tender, must accompany bid.

The lowest or any tender not necessarily accepted.

F. ED. OAKLEY,
Secretary-Treasurer.

TO CONTRACTORS

Tenders will be received by the undersigned until **MARCH 15th, 1898**, for the various works required for the

Erection of a House of Refuge

for the County of Kent. Plans and specifications can be seen at the County Clerk's office, Chatham, Ont.

Building to be completed by the 1st Day of December next.

The lowest or any tender not necessarily accepted.

J. C. FLEMING,
Clerk County Kent.

Chatham, Feb. 15th, 1898.



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, MARCH 16th, 1898**, for the laying of a

12-INCH WATER MAIN

on King Street, from Dufferin Street to Grande Avenue. Contents of envelopes containing tenders must be plainly marked on outside.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto.

A marked cheque, payable to the order of the City Treasurer, Toronto, for 5 per cent. of the amount of the work tendered for up to \$1,000, and 2½ per cent. of the amount over that sum, must accompany each and every tender, otherwise it will be ruled out as informal.

The lowest or any tender not necessarily accepted

JOHN SHAW, Mayor,
Chairman Board of Control.

Toronto, March 3rd, 1898.

SEALED TENDERS

Addressed to the Architects, will be received up to noon on March 14th for the erection of a Factory and Stable. Plans and specifications may be seen at the office of the Architects.

The lowest or any tender not necessarily accepted.

CURRY, BAKER & CO., Architects,
90 Yonge Street.

TO ARCHITECTS

The undersigned will receive competitive plans and specifications for a new City Hall to be erected in the City of St. Thomas, until noon on **THURSDAY, THE 14TH DAY OF APRIL** next.

Architects wishing to submit plans and specifications can have full information sent them by addressing James A. Bell, City Engineer.

RICHARD SANDERS,
Chairman City Hall Committee,
St. Thomas, Ont.

TENDERS FOR BRIDGE

The Town of St. Marys proposes erecting a Stone or Steel Bridge over Trout Creek, on Water Street, St. Marys, and asks tenders

- For the erection of a Stone Bridge over said Trout Creek.
- For the erection of a Steel Bridge over said Trout Creek; 47 feet span and 100 feet from pin to pin; 16-foot roadway, with and without sidewalk 5 feet wide; pine joists 3 in. x 12 in.; floor 3-inch rock elm.
- For stone abutments for Steel Bridge.

Plans and specifications may be seen at the office of L. HARSTONE, TOWN CLERK, St. Marys, by whom tenders will be received up to 7 30 p.m., 14th March, 1898.

The lowest or any tender not necessarily accepted

GEORGE D. LAWRIE,
Chairman Road and Bridge Committee,
St. Marys, Ont.

CONTRACTS OPEN.

PORTLAND, ONT.—The Hormentes are preparing to build a church.

RUSSELL, ONT.—Wm. Petrie contemplates building a large granary.

BROCKVILLE, ONT.—James Connolly will build a dwelling this spring.

GALT, ONT.—A number of residences will be commenced early in the spring.

CAINTOWN, ONT.—John Dickey is preparing to build a residence this spring.

LYNDHURST, ONT.—Steps are being taken to secure the erection of a Presbyterian church.

MERRITTON, ONT.—Work has been commenced on the foundation of the new stone church.

ESSEX, ONT.—The I.O.O.F. has decided to build a hall, of two stories, and to cost \$5,000.

LINDSAV, ONT.—Messrs. Dundas & Flavell Bros. will erect an addition to their warehouse.

FRANCONIA, ONT.—About \$1,000 has been subscribed for the erection of a United Brethren church.

OAK LAKE, MAN.—Tenders for the

erection of a stone church will be received by Isaac Young until the 20th inst.

BERLIN, ONT.—The Board of Works have opened tenders for road rollers, but have not as yet awarded the contract.

WINDSOR, N. S.—It is estimated that buildings to the value of \$100,000 will be erected here during the coming summer.

WATERLOO, ONT.—It is stated that the Berlin Water Works Co. will construct a system of water works in this town.

BATH, ONT.—Jos. Morgan churchwarden, will receive tenders until the 11th inst. for repairs to rectory of St. John's church.

HARRISTON, ONT.—The Trustee Board of the Methodist church have decided to proceed with the erection of a new church building.

FORT WILLIAM, ONT.—John Galt, C. E., of Toronto, has been engaged to prepare plans for a waterworks system for this town.

HALIFAX, N. S.—The question of installing an electric light plant to be operated by the city is under consideration by the Council.

LES BOULES, QUE.—The construction of a wharf here is to be undertaken by the Dominion government, tenders for which are now invited.

TILSONBURG, ONT.—The building committee of St. John's church has been instructed to obtain tenders for the erection of a new church.

MIDLAND, ONT.—The new elevator to be built here by the C. T. R. will be operated by electricity and furnished with all the latest improvements.

AMHERST, N. S.—Plans have been prepared and tenders received for the new town hall. It is expected that the contract will be let in a few days.

KINGSTON, ONT.—There are few vacant houses in the city, and it is probable that this will induce speculators to build during the coming summer.

ST. HYACINTHE, QUE.—The Chambre de Commerce and City Council will petition the Grand Trunk Railway management to build a new railway station here.

WINDSOR, ONT.—J. G. McLean, architect, is preparing plans for a town and fire hall to be built at Glencoe, also for a summer cottage for John Curry, of this place.

AYLMER, QUE.—A meeting of ratepayers will be held shortly to approve of the plans for a sewerage system submitted by E. J. Rainboth. They call for an outlay of \$21,000.

CARNARVON, ONT.—T. R. Loughheed will receive tenders until the 16th inst. for the erection of a school house, from plans to be seen at Mr. Loughheed's store at Providence Bay.

BRIDGETOWN, N. S.—Whole or separate tenders for the erection of a two-story brick building, 68 x 50 feet, on Queen

street, will be received by S. S. Ruggles until the 15th inst.

ST. CATHARINES, ONT.—W. A. Mittleberger, city treasurer, will receive tenders until the 16th inst. for the purchase of \$100,000 of city debentures, payable in 30 years, 4 per cent. interest.

HULL, QUE.—The contract between the Toronto Rubber Co. and the city was signed last week. Building operations will commence as soon as the by-law is sanctioned by the ratepayers.

TILBURY, ONT.—Mr. Wm. Newman, C.E., of Windsor, has been instructed by the Tilbury North council to proceed with the dredging contract on Tremblay Creek, according to plans and specifications submitted.

MANITOU, MAN.—The plans of the block to be built by S. E. Riggs show a building 29 by 75 ft., with restaurant and public hall.—Winram Bros. contemplate the erection this summer of a brick warehouse and office.

ST. MARY'S, ONT.—Tenders will be received by Mr. James Maxwell for the various trades required in the erection of handsome brick residences, from plans by Mr. Geo. W. Gounlock, architect, Toronto.

CHATHAM, ONT.—The city will probably find it necessary to cement the waterworks basin.—The Water Commissioners are considering the advisability of putting in a steam heater for the supply of water to the boilers.

VICTORIA, B.C.—The city engineer estimates the cost of a retaining wall at Ross Bait Cemetery at \$8,680.—The Electric Light Committee has recommended the purchase of a new dynamo for the electric light plant.

WINGHAM, ONT.—Among the new buildings to be erected this season are the following: Residences for Mr. Gilchrist, Mr. Henderson, and Elliott Bros.; additions to Bell's factory, Button & Fesant's factory, and the Union factory.

LONDON, ONT.—The Free Library Board have now under consideration the erection of an addition, to cost \$3,000.—Francis Faulkner has been granted a permit to erect two veneer houses on Ontario street, near Lorne ave., to cost \$1,000 each.

NORTH TORONTO, ONT.—At a recent meeting of the Fire and Light Committee Mr. Chas. Lynes submitted a scheme to supply sufficient water for the town, at a cost of \$1,500, but no action was taken. The building of a hose tower was also considered.

PERTH, ONT.—Among the new buildings to be erected this year are the following: Residence for Dr. Dwyer, two stories; two brick dwellings for James Wood, of South Elmsley; residence for Stephen Bennett; brick factory on Wilson street for M. Stanley; brick building for Peter Smith, and dwelling for Ansley Keays.

ST. THOMAS, ONT.—We are advised by Mr. M. F. Griffin that the plans for his new building will have to be altered. The tenders submitted have been returned unopened, and new tenders will be invited.—In this issue plans are invited for a new city hall. The building is to cost \$32,000, including hot water heating, electric wiring, plumbing, gas pipes, etc.

ST. JOHN, N. B.—The St. John River Log Driving Co. is open to receive tenders until April 6th for a contract for three years for driving logs on the St. John and Aroostook rivers. J. Fraser Gregory is secretary of the company.—The Cushing Sulphite Fibre Co has made application to parliament for a charter, to erect a pulp mill and incidental works. W. H. Murray, Thos. McAvity, Geo. S. Cushing and others are interested.

HINTONBURG, ONT.—The council will

raise \$30,000 by the issue of debentures, \$26,000 to be expended for sewerage, \$1,500 for fire apparatus, and \$500 for improvements to town hall.—The by-law giving the contract for the sewerage system to E. J. Rainboth has been read a third time in council.—Several new residences will be built during the coming summer on property acquired from the Ottawa Land Association.

VANCOUVER, B. C.—The plans for the new bank building for the Molsons Bank are being prepared by Messrs. Taylor & Gordon, architects, of Montreal. The building will be of stone, five stories, 90 x 52 feet, with electric elevator, fireproof vaults, and other modern improvements.—Tenders for the erection of a warehouse for the Brackman & Kerr Milling Co. will be received by C. O. Wickenden, architect, until the 24th inst. Plans at the offices of the architect in this city, and of the company in Victoria.

OSHAWA, ONT.—It is probable that the town will construct some granolithic or asphalt sidewalks.—Mr. Eden Smith, architect, of Toronto, is preparing plans for the reconstruction of the roof of the music hall, which collapsed recently.—Owing to the action of the Fire Underwriters' Association in increasing the rates of insurance, an agitation has been commenced for a system of waterworks. Mr. John Galt, C.E., of Toronto, will submit an estimate of the cost of the same to the town council at an early date.

HAMILTON, ONT.—The Wentworth Historical Society have accepted the design of Mr. Hamilton McCarthy, of Toronto, for a monument to the patriots who fought in the battle of Stoney Creek. The proposed monument will cost about \$6,500.—W. W. LeChance, architect, has prepared plans for a large canning and evaporating works to be built at Grimsby. The building will be built of concrete and steel, the second story having a span of 45 x 160, without columns.—The Cataract Power Company has made the city an offer to remodel the water system by pumping the water supply into the present reservoirs by electricity. The necessary machinery is estimated to cost \$25,000.

PETERBORO, ONT.—The town council will invite tenders for lumber, nails, etc., required during 1898.—The county engineer has been instructed to report as to the cost of repairing the piers and glance booms at the Wallace Point bridge.—Ranney & Innes have submitted to the town council the following estimate of the cost of a conduit from King street bridge to the river: 8,000 yards of excavation, \$1,440; 2,800 yards concrete, \$12,000; lowering the George street sewer, \$500; apron at lower end of conduit, \$400.—A deputation from this vicinity will probably urge the Dominion government to complete the Trent Valley canal.—A letter has been received from Mr. John Bertram, of Toronto, offering a site for the proposed House of Refuge.

MONTREAL, QUE.—Messrs. Taylor & Gordon, architects, of this city, are preparing plans for a new building to be erected at Vancouver for the Molsons Bank.—The ratepayers of Ste. Therese have granted a bonus of \$30,000 to the Minerva Manufacturing Co., of Toronto, to erect a new factory at that place. The negotiations were carried out by Mr. John A. Rafter, of this city.—An inspection made by the Fire Committee proves that many of the fire stations are in need of extensive repairs.—The waterworks superintendent has requested an appropriation of \$25,000 for the laying of mains and surface pipes in new streets where none now exist.—A. Ferguson, solicitor, gives notice of an application to incorporate the Dawson City Electric Co., to operate an electric light plant and an electric tramway in Dawson. City and

vicinity.—Hutchison & Wood, architects, are calling for tenders for a building for "La Presse," St. James street, to be received before noon of March 15th.—W. E. Doran, architect, has invited tenders for a residence to be built on Belmont street for B. Stanley. Same architect has prepared plans for a building, two stories, on Victoria avenue, Westmount, for Thos. Lamb.—Competitive plans have been invited for the St. John Baptist church.—Gamelin & Huot, architects, are preparing plans for two houses, four stories, to be erected on Stanley street for Mile A. Duperrault.—David Ogilvy, architect, has called for tenders for alterations to an office building.

QUEBEC, QUE.—W. D. Baillarge, Assistant City Inspector, will receive tenders until the 16th inst. for the supply of macadam, broken and unbroken stone, forge work, deals, retaining walls, stone pavement, stone sidewalks, iron brick crossings, etc.—The Dominion government is about to undertake the construction of a new wharf at Riviere la Pipe, and to continue the works in course of construction at Roberval, Ticouabe and Mistassini.—There is said to be a deal on foot to amalgamate the Quebec street railway and the Quebec, Charlevoix and Montmorency railway, the latter road to be changed to an electric system.—David Ouellet, architect, is preparing plans for a chapel to be erected this spring at Church Point, Nova Scotia, for Rev. M. F. Blanche.

OTTAWA, ONT.—E. F. E. Roy, secretary Department of Public Works, will receive tenders until Monday, March 28th, for the construction of a wharf, with stone approaches, at Les Boules, Little Metis Harbor, Rimouski County, Que. Plans at above department and at post-office at Little Metis.—J. D. McLean, Department of Indian Affairs, will receive tenders until April 7th for Indian supplies.—Mr. Belcourt, M.P., will draw the attention of the Dominion government to the necessity of erecting in this city a national museum for the purpose of housing the geological, mineralogical and other collections.—Messrs. Holt & Ellis, school trustees for Rideau ward, are taking steps to secure the erection of an addition to the school building in that ward.—The Grey Nuns have decided to build an extension to the St. Charles Home for the Aged on Water street. It will be built at the rear of the building, as it is the intention to erect an entirely new building in the near future.—The Public School Board have passed the following estimates: New school building, \$41,500; furniture for schools, \$2,000; repairs and alterations, \$3,000. The sum of \$50,000 will be raised by debentures.—The trustees of the First Congregational church have decided to purchase property on Somerset street on which to build a new church. Plans for the same have not yet been prepared.—The directors of the Protestant hospital will probably erect a new building for a nursing department, at a cost of \$15,000.—The City Council will again take up the question of a main drainage system, which has been defeated twice by the ratepayers. Ald. Davis, chairman of the Main Drainage Committee, points out that by making certain changes a saving of \$150,000 in the cost of the work could be made, and that this proposal would be more likely to receive favorable consideration from the ratepayers. The sum of \$1,000 will be asked for the preliminary work.

TORONTO, ONT.—Mr. Chas. J. Gibson, architect, has prepared plans and has just taken tenders for a residence on the north side of College ave., near Yonge street, to cost about \$6,000. The same architect is preparing plans for a residence in Rosedale and for alterations to several business premises.—Mr. F. H. Herbert, architect, has prepared plans of a large detached residence to be erected on the

north side of Elm avenue, Rosedale, tenders for which will be called next week.—The city invites tenders until the 16th inst. for a twelve inch water main on King street, from Dufferin street to Grand avenue; also until the 14th inst. for the supply of storm sash for the Isolation Hospital.—Mr. A. R. Denison, architect, has prepared plans for remodelling the St. Lawrence market, according to the views of the Market Improvement Association. The plan shows an arched roof, extending from King street to the Esplanade. The cost of the improvement is estimated at \$150,000.—Petitions have been received by the city engineer against brick sidewalks on west side Mutual street, between Gerrard and Carlton streets, and on east side of Carlyle street, between St. Patrick and Bellevue place.—A deputation from this city last week urged upon the Minister of Militia at Ottawa the necessity of erecting a suitable building for the cavalry and artillery in connection with the Armories. Consideration was promised.—The Massey-Harris Co. have requested certain concessions from the city as an inducement to extend their works. The company have an option on the property bounded by Strachan and Wellington avenues and Massey and King streets, and will probably erect thereon a knife and bar factory.—The management of the Toronto Street Railway Co. have notified the city engineer that a bridge over the railway tracks at the foot of Yonge streets, and a continuation of the line from Lake street up Yonge street, would be more preferable than the proposed loop line returning up Harbor street.—It is understood that the Canada Oil Cloth & Sandpaper Company, of Port Hope, will shortly open a factory on King street west, in a new building which will cost between \$15,000 and \$20,000.—The York Township Council have been asked to rebuild a bridge over the Don on the 4th concession east, at a cost of \$1,000.—Messrs. Simpson & Ellis, architects, have prepared plans and will shortly invite tenders for a residence for Reuben Armstrong, Toronto Junction.

WINNIPEG, MAN.—The executors of the McIntyre block will probably build a five storey structure, to replace the building on Main street recently destroyed by fire.—The Fire, Water & Light Committee have recommended the purchase of a new steam fire engine, also of a site for a fire hall.—A Chicago architect has prepared plans for the abattoir and cold storage warehouse to be built by Gordon & Ironsides, and it is expected that work will be commenced in a few days. The main building will be 160 by 60 feet, so constructed that it can be extended at any future time; expenditure, about \$40,000.—The improvements to the Richardson block, for which tenders have been invited from plans by D. B. Dick, architect, of Toronto, will cost about \$30,000. The structure will be rebuilt with white brick and Minnesota red stone, the interior finish to be of red oak. There will be two tiers of vaults.—The report of the chief engineer of the Public Works Department on the drainage of the Boyne Marsh has been received by Hon. Mr. Watson. Three million cubic yards of earth will have to be excavated, which will entail an expenditure of about \$300,000.—At a meeting of councillors interested in road improvement held last week, it was resolved to petition the government to undertake the necessary drainage to enable the roads leading into the city to be graded and kept in proper condition.—The Dominion government was last week waited upon by a large deputation from this vicinity, in connection with the improvement of the St. Andrews Rapids, 17 miles from Winnipeg. The deputation pointed out that a large area of territory would be served by the im-

provement, and that if the government would announce its willingness to loan the necessary money to carry out the work, Winnipeg council would consider whether the city was in a position to guarantee the interest. The cost of the necessary locks is estimated between \$500,000 and \$600,000.—The ratepayers of Ward 3 are urging the erection of a four-roomed stone and brick school on the Wellington and Beaver street site.—Mr. Hugh McGowan, architect, is preparing plans for the Jubilee wing to the General Hospital, and Mr. C. H. Wheeler is designing a building for the Winnipeg Coffee and Lodging House Association. Mr. Geo. Browne has completed plans for a two-story block of stores and offices to be erected opposite the Queen's Hotel, while Mr. Greenfield is preparing plans for a brick block of stores, for a Masonic hall to be built in Yorkton by James Horn, of that town, and for a residence at Napinka for Mr. Slater.—It is the intention of the C.P.R. to build a four-story brick block opposite the post-office, the ground floor to contain ticket and telegraph offices, the second story offices for rental, and the third and fourth stories rooms for the operators and officials.

FIRES.

The Alice block at Waterford, Ont., a large three-story building owned by J. E. York, was completely destroyed by fire on the 2nd inst. The loss is \$12,000, partially covered by insurance.—The Michie building, owned by Mrs. Ross, of London, England, and the Dunlop building, owned by the Baldwin estate, on King street west, Toronto, were recently damaged by fire to the extent of \$6,000.—O'Reilly's elevator at Sidney, Man., owned by James Richardson & Son., of Kingston, Ont., was burned last week.—The Gould, Shipely & Muir building at Brantford, Ont., was gutted by fire recently. Loss \$20,000, covered by insurance.

CONTRACTS AWARDED.

NAPANEE, ONT.—The tender of the Gutta Percha & Rubber Co., of Toronto, for 500 feet of fire hose, at 90 cents per foot, has been accepted by the town.

OTTAWA, ONT.—The Fire and Light Committee has decided to purchase 4,000 feet of "Patrol" fire hose from W. A. Fleming, of Montreal, at 79 cents per foot.

MONTREAL, QUE.—The contract for repairs to the steamer Rosedale has been awarded to the Caledonia Iron Works, of this city. The repairs will amount to about \$28,000.

HAMILTON, ONT.—The Hamilton Bridge Co. are announced to have secured the contract for the erection of the Ontario Rolling Mills Company's new building, which will be of steel.

QUEBEC, QUE.—Berlinguet & Lemay, architects, have awarded contracts for the church and monastery of Franciscan Sisters, Grande Allee; as follows: Masonry, L. Larose; carpenter and joiner's work, J. B. Gingras; roofing, L'Heureux & Dallaire.

AMHERSTBURG, ONT.—G. W. Bailey has secured the contract for the erection of the new American Hotel for Mrs. Maloney, from plans prepared by Alfred Wood. The building will be three stories, steel cased, lower stories of pressed brick and ornamental cut stone, and upper story

finished with steel shingles; roof of same material; electric lighting, improved plumbing, etc.; cost \$3,000.

BROCKVILLE, ONT.—The following tenders were received for granolithic pavements: Guelph Paving Co., 16 cts. per square foot (accepted); F. Dolan, Belleville, 19½ cts.; Foley & Co., Ottawa, 18 cts.; D. S. Booth, Brockville, 18½ cts.; Canadian Granite Co., Ottawa, 19 cts.; G. W. Geddes, Brockville, 17½ cts.; J. McBean, Toronto, 23 cts.; Warren Schaff Co., Toronto, 18 9/10 cts.

THOROLD, ONT.—The contract for rebuilding Z. W. Durkee's residence has been let to Wm. England, of Kingston, Ont.—The Canadian Locomotive & Engine Co. have secured the contract of building three locomotives for the Intercolonial Railway.—W. Newlands, architect, has accepted the following tenders for rebuilding the Watkins wing of the General Hospital: Carpentry, John Carver; masonry, A. Newlands; heating, plumbing and tinsmithing, Elliott Bros.; painting and glazing, T. Milo.

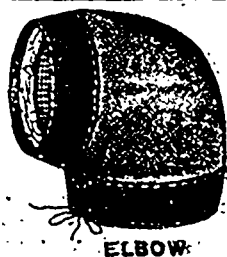
BRAMPTON, ONT.—The County Council have let contracts as follows for the erection of a House of Refuge: Henry Hill, Brampton, excavation, drainage, masonry, brickwork, cut stone, lath and plastering work, \$3,440; Coleman Planning Mill & Lumber Co., Burlington, carpenter work, \$1,875; A. Matthews, Toronto, slate and galvanized work, \$543; Egles & Linnington, Toronto, painting and glazing, \$300; Peaker & Son, plumbing, \$685; Jno. Ritchie, Toronto, steam heating, \$1,075. Total, \$7,918.

LONDON, ONT.—The tender of the Huron & Erie Loan & Savings Co., of this city, for the purchase of \$238,000 of debentures, has been recommended for acceptance, their price being \$242,215.50. Other tenders were as follows: Geo. A. Stinson & Co., Toronto, \$238,615; Imperial Life Association of Canada, \$238,642.60; R. Wilson Smith, Montreal, \$239,785; Jas. A. Wildrum, \$237,469; Andrew T. Drummond, \$234,398.30; Bank of Commerce, \$237,476.40; H. O'Hara & Co., Toronto, \$99.56 per \$100; Bank of British North America, \$240,546.60.

ST. THOMAS, ONT.—Committees of Elgin and Middlesex county councils last week opened tenders for new bridges as follows: Robbins bridge—superstructure, Hamilton Bridge Co., \$1,590; Dominion Bridge Co., \$1,750; Stratford Bridge Co., \$1,357; Hunter Bros., Kincardine, \$1,349.31 (accepted). Substructure, W. F. Gibson, \$2,200; Geo. Ponsford, \$1,495 (accepted); Alex. Burnett & Son, \$1,954. Lung bridge—superstructure, Stratford Bridge Co., \$179 (accepted); Dominion Bridge Co., \$234; Hamilton Bridge Co., \$215; Hunter Bros., \$205. Foundation, W. F. Gibson, \$400; Burnett & Son, \$463; G. A. Ponsford, \$397 (accepted). Coyne Road bridge—Isaac Crause, London, \$4,570; Lang Anderson, Shedden, \$3,900 (accepted); John N. Gibb, Wallaceburg, \$4,457; Lancelot Hardy, Exeter, \$5,000; Wm. Reath, St. Thomas, \$5,224.44; Tracey Bros., St. Mary's, \$4,493.

TORONTO, ONT.—Mr. F. H. Herbert, architect, has awarded contracts for new residence on Wilmer Road for Mr. John A. McKee, as follows: Brickwork, Henry

(Continued on page 4).



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Lucas; carpenter work, Geo. Rathbone; plastering, Geo. Rathbone; painting, H. W. Johnston; gal. iron, A. B. Ormsby & Co.; roofing, R. Renne & Son; plumbing and heating, Bennett & Wright.—E. J. Lennox, architect, has reported that the lowest tender for the marble work and tile flooring for the new municipal buildings is \$26,700, from F. B. Gullet & Sons, this city. The lowest separate tenders are as follows: marble floors, Mosaic & Marble Enamel Co., \$9,890; marble dado, J. G. Gibson, \$1,240; marble columns, R. Powell, \$4,882. The following tenders have been accepted for pavements: Macadam pavement on Davenport Road, Warren Scharff Co., \$4,556; on Harbord street, Constructing and Paving Co., \$1,762; cedar block pavement on Arthur street, D. L. Van Vlack, \$1,393.—The Board of Control have accepted the tender of David Myer, of Markham, for the erection of a pavilion in High Park; price, \$3,500.

PAINT FOR GALVANIZED IRON.

Mr. C. Lewis, in a paper on this subject, states that there are but very few paint materials that will answer as a priming coat on galvanized iron or metallic zinc, and that the pigment, as well as the binder, has something to do with the holding on, be the surface treated to a wash or untreated; though it is safest to use the treatment before priming.

The treatment with the solution does not alter the nature of the metal to which the paint is applied; it merely neutralizes the grease, dust, etc., that may be on the surface; gives the priming coat a better hold and allows a heavier film of paint to be applied. The writer has found that the ordinary mineral paints, as well as the lighter carbons that require much oil as a binder, when applied to treated and untreated galvanized iron, have given way when exposed; the former becoming very soft and coming off eventually in shreds, the latter wrinkling, and later on, parting, furrow-like, exposing the bare iron. White lead in oil, too, did not stand, became soft and peeled; while zinc in oil first cracked and then came off in flakes. Red lead in oil stood fairly well, at least longer than any of the others; but it, too, came off at last in shreds at the slightest touch.

For the priming coat it requires a heavy material, and where there are no sulphur gases the best material is good, pure red lead, or a mixture of equal parts by measure (not weight) of pure red lead and a high grade of oxide of iron, ground together freshly in good raw linseed oil, without drier, to a medium paste. This is to be thinned with pure turps only. Or the dry red lead and iron oxide may be taken, well mixed in the proportions given, and thinned with equal parts of raw linseed oil and turps, but only enough should be mixed at a time to do for a few hours' work, and the mixed material should not stand over night. Such a priming will not peel and the color can be varied by taking a bright or a very deep shade

of iron oxide. Over this priming any good, non-porous, ornamental paint will give satisfaction. In localities where there is an abundance of sulphur gases the priming must be made up from a good heavy pigment that is unaffected by gases, a chemically inert material of high specific gravity, that lays close down to the surface to which it is applied, and such pigment must contain a binder that will allow it to dry nearly flat and yet be elastic.

LEADEN STAIRWAYS.

Sheet lead is often used for stair treads in place of rubber where the traffic is very extensive, but, unfortunately, while durable and non-slipping, either wet or dry, it has a tendency to "flow" or grow thin at the points of greatest wear. In a new article of manufacture the lead is cast on a wire-wove core, and is produced in thickness approximating that of 8-pound sheets. By adopting this method of manufacture all the advantages of a secure foothold are insured, and the tendency of the lead to "flow" or work thin is entirely overcome. The combination is described as being more durable and possessing an in-

herent strength and elasticity which neither the steel core nor the lead separately could possibly give. A still greater field for this article is for roofing purposes, lead floors for cold storage rooms, magazines and decks of ships.

The injury to asphalt by gas, which has been noticed from time to time in a number of cities, is referred to by Mr. Percival W. St. George in his annual report as City Surveyor of Montreal. He finds that the destructive effect of the gas is due to a softening and bunching of the asphalt with which it comes in contact. The street traffic wears holes quickly in this soft material, which the contractors who guaranteed the pavement refuse to repair unless paid for the work, claiming the gas company should be held responsible.

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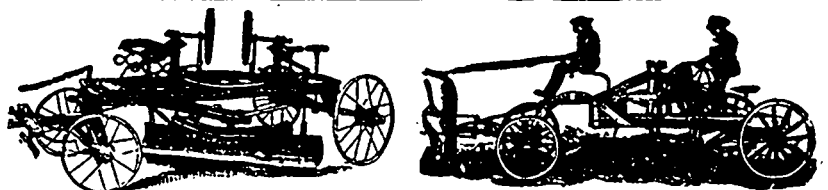
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good times to come to assure them of a profitable investment. The person who is building now is building at a time when, though there are indications of exceeding briskness in a few months, there is a decided lull in building operations. In consequence, material is cheaper than ever before, while contractors are taking work at figures that will, if they allow themselves fair wages, more often leave them with a deficit than a profit. One man, being sure of the coming prosperity, has taken advantage of the present conditions and secured his build-

ing for a comparatively small outlay, and will be ready to make the most of the good times. The other waits for good times to come—perhaps he waits a little longer to be sure it is no passing boom—then he builds when both material and labor are dear, and half of the time of prosperity, when he must make his investment pay, is gone. Is it luck?—Western Architect.

A machine has been invented by Prof. William Dwight, of Vassar College, that will slice rock so thin that it can be used for a window transparency.

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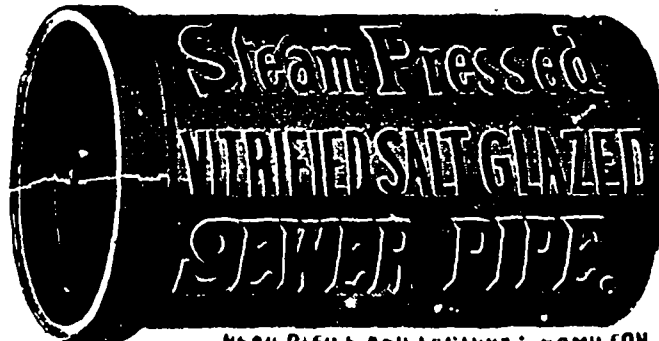
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CORNWALL WATERWORKS ARBITRATION CASE.

The end of the Cornwall waterworks arbitration is not yet. Last week an appeal case was opened at Osgoode Hall, Toronto. The original arbitration was between the town of Cornwall and the Cornwall Waterworks Company, in regard to the taking over by the corporation of the works of the latter. The arbitrators were Judge McDougall, of Toronto, Robert B. Carman, of Montreal, and John Kennedy, of Montreal. They gave their decision on the 5th of June, 1897, awarding the company \$86,491 and interest from date of award. The town was also mulcted in the costs, which amounted to \$4,269. The town took over the waterworks, but were dissatisfied with award and entered an appeal. They claim about \$36,000 more, the principal complaint being that the arbitrators based their award on the present commercial value of the plant, instead of the actual cost. For seven years the company ran the waterworks without any return, and they think they should be given the interest on the capital invested during that period. Moreover, they claim that owing to the lowering of the water in the St. Lawrence they were compelled to reconstruct their intake system no less than three times. For this they also asked to be reimbursed.

MONTREAL WATERWORKS.

In answer to the charge of extravagance in the management of the waterworks of Montreal, Que., Mr. Leforest, the superintendent, shows from figures that they are exceptionally small—so small that the city occupies a leading position in the order of cost per capita of the population. He gives the following list of annual expenses per head of population:

1. Montreal, (1896), 56c; Detroit, (1896), 84c; 1. Montreal, (1896), 0.56; 2. Detroit, (1896) 0.84; 3. Brooklyn, (1895) 0.94; 4. Buffalo (1896) 0.95; 5. Philadelphia (1896), 0.95; 6. Chicago (1896), 0.98; 7. Boston (1896), 0.98; 8. Toronto (1894), 1.03; 9. Cincinnati (1896), 1.50.

He gives the following figures as to the annual cost per million gallons of water consumed per head according to population. The population figures come first, then those of the consumption (in gallons) per capita, and, last, those of cost:

1. Buffalo, (1896), 355,000, 265, 9.03; 2. Philadelphia, (1896), 1,367,815, 172, 15.16; 3. Detroit, (1896), 277,256, 151, 17.69; 4. Chicago, (1896), 1,800,000, 127, 19.13; 5. Montreal, (1896), 250,000, 67, 22.80; 6. Boston, (1896), 612,400, 131, 24.12; 7. Brooklyn, (1895), 866,343, 98, 26.37; 8. Toronto, (1894), 181,220, 99, 28.20; 9. Cincinnati, (1896), 405,000, 110, 27.53.

In addition, the following cities give

figures showing the cost per million gallons to be higher than Montreal: Brockton, \$25.92; Burlington, \$65.23; Fall River, \$54.28; Fitchburg, \$31.06; Lynn, \$28.33; Oberton, \$66.14; Quincy, \$42.70; Reading, \$56; Taunton, \$39.32; Waltham, \$74.81; Willsley, \$56.65; Woonsocket, \$49.39; Yonkers, \$35.89; Newton, \$31.03.

Another set of figures shows the annual cost of each million of gallons of water in the five principal cities in the preceding table, to establish a comparison on an equal consumption per head of the population, and subtracting from the Montreal figures the special expenses caused by the rigor of the climate. The order followed is, first the name of the city, then, the population, then, consumption per capita in gallons, and lastly, the cost:

1. Buffalo, 355,000, 67, \$19.68; 2. Montreal, 250,000, 67, \$20; 3. Detroit, 277,256, 67, \$29.12; 4. Philadelphia, 1,367,815, 67, \$29.93; 5. Chicago, 1,800,000, 67, \$33.91.

The annual consumption per capita Mr. Leforest gives as under:

Buffalo, 265 gallons; Rome, Italy, 247; Philadelphia, 172; New York, 150; Detroit, 131; Chicago, 127; Boston, 111; Cincinnati, 110; Brooklyn, 98; Toronto, 99; Montreal, 67; Berlin, Germany, 60; Paris, 42; London, 37; Brussels, 20.

Mr. Leforest concludes by giving the expense of maintaining the waterworks of Montreal from 1893 to 1898:

1893, \$188,987; 1894, \$144,511; 1895, \$129,873; 1896, \$132,992; 1897, \$130,607; 1898, \$118,433 (expropriation).

The annual report of the health department of Sherbrooke, Que., shows that 12,000 feet of sewerage mains were laid in that city in 1897, and states that a rigid house to house inspection of the plumbing done in Sherbrooke houses prior to the new regulations of the city will be instituted, as much of this plumbing is defective and imperfect.

Mr. A. W. Campbell, Instructor in Road Making for Ontario, has received information from the province of New Brunswick that the Legislature of that province has had printed the report prepared by him on their roads. Mr. Campbell issued the report after a careful study of the requirements of the province as regards roads, and recommended the abolition of the statute labor system and the appointment of road commissioners for each municipality. He advised dividing each municipality into five-mile districts, and placing a path-master over each. He also advised the use of the latest improved road-making machinery.

At the recent meeting of the Board of Examiners, of the Ontario Land Surveyors Association, the following candidates successfully passed the examination

for admission to practice, and were duly sworn in as land surveyors for Ontario, viz.: Wilbert Silas Gibson, Willowdale; John James Newman, Windsor; William Butterton Ford, Hamilton; James Nevin Wallace, Hamilton; James Samuel Dobie, Port Arthur; William Arthur McLean, Toronto; William Walter Meadows, St. Thomas; Franklin Joseph Robinson, Middlemarch; George Laing Brown, Morrisburg. J. Herbert Jackson, of Windsor, passed the preliminary examination.

Mr. T. Harry Jones, city engineer of Brantford, submitted his annual report for 1897 to Council recently. It shows that there are now 14½ miles of mains and 12 miles of house sewers (of which 7 miles are private property), 180 manholes and 56 flush tanks, constructed at a cost of \$144,000. The cost of maintaining the system last year was only \$373, which is considerably less than for any previous year. There were made during the year 131 plumbing inspections, and the water or peppermint test was applied 97 times. The fees received for plumbing inspection amounted to \$104. There were issued during the year 81 building permits, the estimated expenditure under the same being \$73,000. The city engineer prepared plans and estimates of all work ordered by the mayor, council, chairman of committees and the Water Commissioners, including the preparation of a plan and report upon a proposed new market building and of plans of the waterworks and lighting systems of the city.

Fire hydrants are being tested upon an elaborate scale by Mr. Charles L. Newcomb, M. Am. Soc. M. E., for the city of Holyoke, Mass. The tests are made with various types and makes, to determine their friction, and the water hammer produced by closing them as rapidly as possible. The method of measuring the loss of head, when discharging various quantities of water, has been carefully worked up. The water for testing the hydrants is measured by an accurately calibrated Worthington meter, and the result of its reading checked by a nozzle meter, designed by John R. Freeman, M. Am. Soc. C. E. The difference in pressure between the inlet and outlet is determined by means of a U tube, partially filled with mercury. The short leg of the tube is connected to the inlet, and the long leg to the outlet, giving the difference in pressures with proper corrections. The water-hammer is tested by means of a steam engine indicator, the pencil of which records the pressure. The drum is made to run at a speed of one inch per minute. When the drum is put in motion the hydrant is opened and then closed as rapidly as possible. The pressure at all times is recorded upon the paper. It has been found that with a water pressure of 75 pounds, with some hydrants, pressures as high as 230 pounds have been produced by rapidly closing them.

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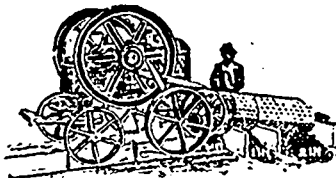
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