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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.

FEBRUARY 23, 1898

No. 4.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2362.

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

Advertising Rates on application.

WANTED

Derrick wanted, second-hand, in good working order. Would exchange Credit Valley grey freestone, any kind. Please state kind of derrick, and price.

CHAS. HUGHES,
Milton Freestone Quarries,
Milton, Ont.

TO CONTRACTORS—TENDERS

Tenders will be received by the undersigned until THURSDAY, THE 3RD DAY OF MARCH, for the whole of the trades required in the erection of

A Brick and Stone Detached Residence

in Rosedale. The lowest or any tender will not necessarily be accepted. Plans and specifications may be seen on and after Friday, the 25th inst., and all information obtained at the office of the undersigned.

F. H. HERBERT, Architect,
9 Toronto Street.

TENDERS

FOR

Cast Iron Water Pipe

FOR CITY OF ST. JOHN, N. B.

Tenders will be received by the "Board of Management" of the Department of Public Works, at their office, in the city of St. John, until **FRIDAY, THE FIRST DAY OF APRIL, 1898**, at 12 o'clock, noon.

For the supplying of about 116 tons of best quality 24 and 12 inch Cast Iron Water Pipe, according to the specification and drawings prepared by Wm. Murdoch, Esq., C.E., Engineer and Superintendent S. and W. Supply, copies of which specification may be had on application to the director.

Tenders must be made on form furnished by the department.

The board do not bind themselves to accept the lowest or any tender.

Each tender must be accompanied by a certified bank cheque or deposit of money amounting to five hundred dollars (\$500), said amount to be forfeited should the party to whom the pipe is awarded decline to enter into contract; and a further deposit equal to five (5) per centum on the estimated full value of contract at prices named in bid, will be required to be made on entering into contract, this deposit to be forfeited should the party receiving the contract refuse to proceed there-with, or fail to complete the work as required by specification and drawings.

A. CHIPMAN SMITH, Director.

Board of Management, Department of Public Works,
St. John, N.B., Feb 7, 1898.

TO CONTRACTORS

Sealed tenders, addressed to the undersigned, will be received until noon on **WEDNESDAY, THE 2ND OF MARCH, 1898**, for the following work:

1. For building a Howe Truss Bridge, with pile piers and abutments, over the River Thames between Middlesex and Elgin Counties, at the site known as the Coyne Road bridge. This work consists of one span 160 feet, one span 36 feet, and one span 32 feet long, all in the clear.

2. For building two concrete abutments for the Lang bridge on the County line between Middlesex and Elgin.

3. For building two concrete abutments for the Robins Bridge in the Township of Southwold.

Plans and specifications for the above works can be seen and blank forms of tender obtained at the office of the undersigned.

A certified cheque for the amount stated in the specification, and made payable to the treasurer of the County of Elgin, must accompany each tender.

The lowest or any tender not necessarily accepted.

JAS. A. BELL,
County Engineer, Elgin.

St Thomas, Feb. 24th, 1898.

Tenders Wanted

Marked and sealed tenders will be received by the undersigned up to noon,

Friday, March 11th, 1898,

for the erection and completion of a municipal building (except heating) in the City of Stratford. The plans and specifications may be seen at the office of Harry J. Powell, Architect, Stratford, Ont. Each lump tender to be accompanied by a marked cheque for \$ 50, and all separate tenders to be accompanied by a marked cheque for 2 1/2% of the tendered price. All cheques, except the successful contractor's will be returned immediately after the contract is closed, and the successful contractor's cheque will be returned as soon as approved sureties are furnished. The lowest or any tender not necessarily accepted.

GEO. F. INGRAM,

Box 168,

Chairman of Market and Police Committee.
Stratford, Feb. 18, 1898.



TENDERS FOR SEWER PIPE

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 2nd, 1898,

for the supply of Sewer Pipe for the year ending December 31, 1898.

Samples of the different articles required, properly marked with the contractor's name and address, must be delivered at the City Engineer's office at least four days before the time for receiving tenders expires.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after the 19th day of February, 1898.

A marked cheque, payable to the order of the City Treasurer, Toronto, for 5 per cent of the amount tendered for up to \$1,000, and 2 1/2 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.

City Hall, Toronto, Feb. 17th, 1898.

TOWN ENGINEER WANTED

Good opening for a Civil Engineer in the town of Waterloo. Apply to

A. B. McBRIDE,
Town Clerk.

To Contractors TENDERS

Tenders will be received by the undersigned until **WEDNESDAY, THE 2ND DAY OF MARCH**, for the Brick work, Carpenter work, Galvanized Iron, Painting and Glazing, and Roofing required in the rebuilding of Factory Premises on Front Street East. The lowest or any tender not necessarily accepted. Plans and specifications may be seen and all information obtained at the office of

F. H. HERBERT, Architect,
9 Toronto Street.

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

Tenders addressed to the undersigned, for alterations to the Richardson Building, corner of Main and McDermot streets, Winnipeg, for the Bank of Hamilton, will be received until

FRIDAY, 11TH MARCH,

at the office of the Bank in Winnipeg, where plans and specifications may be seen.

The lowest or any tender will not necessarily be accepted.

D. B. DICK, Architect,
17 Toronto St., Toronto

NOTE.—Plans and specifications may also be seen at the office of the Architect, where tenders may also be sent.

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.

(a) For the erection of a Stone Bridge over said Trout Creek.

(b) For the erection of a Steel Bridge over said Trout Creek: 17 feet span and 10 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.

(c) 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.

WYOMING, ONT.—Isaac Faulkner is about to erect a frame residence.

CROTON, ONT.—Thos. McCutcheon is preparing to build a brick residence.

SCHOMBERG, ONT.—Chas. Davis intends building a residence next summer.

LEAMINGTON, ONT.—A number of new buildings will be erected here this season.

JASPER, ONT.—Mr. Fifefield, of Newboro, purposes building a cheese factory here.

ATHENS, ONT.—The erection of a brick town hall, 40 by 110 feet, has been decided upon.

GLENBORO, MAN.—J. F. Fumerton & Co. will build a large brick store in the spring.

CHARLOTTETOWN, P. E. I.—The citizens have voted in favor of a sewerage system.

SKHAD'S MILLS, ONT.—Wm. White is about to commence the erection of a stone dwelling.

ELMA, ONT.—Ex-Reeve Dickson is preparing to erect a dwelling next summer, to cost \$1,200.

GUELPH, ONT.—The Guelph Foundry Co. has been formed here, to manufacture hot blast furnaces.

MARKHAM, ONT.—Steps have been taken by the village to rebuild the waterworks and electric light plant.

VICTORIA, B. C.—The municipality of Matsqui will submit a by-law authorizing a loan of \$1,500.

SYDNEY, N. S.—A bill to provide for a system of sewerage is now before the provincial legislature.

HIGHGATE, ONT.—The sum of \$5,000 has been obtained for the erection of the new Methodist church.

ALVINSTON, ONT.—A new brick block will be erected to replace the buildings destroyed by fire recently.

SWEABURG, ONT.—The trustees of the Methodist church have decided to build a parsonage, to cost \$1,800.

STOUFFVILLE, ONT.—A joint stock company is being formed to erect a pork-packing establishment here.

SPEEDSIDE, ONT.—Tenders are wanted by A. S. D. Hill, before March 1st, for stone work of a barn, 60 x 72 feet.

KINMOUNT, ONT.—Doris & Gatchell are negotiating for the purchase of a site on which to build a stove factory.

ALMONTE, ONT.—It is probable that a company will make a proposition to the town to construct a waterworks system.

GRANBY, QUE.—The Council have authorized the preparation of a bylaw to issue debentures for the sum of \$50,000.

TILSONBURG, ONT.—The site is now being prepared for the new church to be built by St. John's church congregation.

DELHI, ONT.—Peter Quance, secretary of Trustee Board, wants tenders by Saturday next for remodelling the Methodist church.

PERTH, ONT.—James Fowler, of Arnprior, is reviving the proposal to construct an electric railway from Perth to Lanark.

NELSON, B. C.—The C.P.R. have purchased property, corner Baker and Stanley streets, and will erect brick offices thereon.

DES JOACHIMS, ONT.—It is rumored that the government intend rebuilding the bridge here which was condemned some time ago.

PORTAGE LA PRAIRIE, MAN.—The Town Council have decided to get figures from outside firms for the annual supply of lumber.

BROCKVILLE, ONT.—The city engineer has been authorized to invite tenders for lumber and granolithic sidewalks.—E. A.

Buckman, chairman Board of Works, will receive tenders until March 31d for the construction of granolithic sidewalks required by the city during the coming summer.

WOODSTOCK, ONT.—D. Richards & Co. contemplate the erection of a steel and brick addition to their soap factory, 90 x 40 feet.

AMHERST, N. S.—A bill is now before the provincial legislature to authorize this town to borrow money for the erection of a town hall.

GATINEAU POINT, ONT.—The municipal council will issue debentures for \$2,000 to consolidate the floating debt and improve roads.

HANESVILLE, ONT.—Tenders for building a frame school house, 25 by 36 feet, will be received by Mason Stenberg until March 1st.

MANITOU, MAN.—S. E. Riggs is having plans prepared for a two story brick block, 29 x 75 feet, to be erected opposite the Carsin House.

CHILLIWACK, B. C.—The provincial government is having surveys made for the proposed dams and dykes along Hope and Camp sloughs.

CENTREVILLE, N. S.—The government have invited tenders for the extension of the breakwater at this place, estimated to cost \$4,000.

SHAWVILLE, QUE.—M. C. Edey, architect, of Ottawa, has prepared plans for an agricultural hall to be built here, to be completed by July 1st.

STRATHROY, ONT.—Mr. A. W. Campbell, Ontario Good Roads Commissioner, has forwarded to the council a report on the streets of this town.

LANCASTER, ONT.—A deputation from this town has requested the Dominion government to make an appropriation of \$10,000 for a wharf here.

DUNDAS, ONT.—The Board of Education have instructed the Property Committee to ascertain the cost of placing single desks in some of the public schools.

HALIFAX, N. S.—It is rumored that a new music hall will be built on Argyle street.—The North American Paper & Pulp Co. is seeking a provincial charter.

NEW GLASGOW, N. S.—The town is seeking authority from the provincial legislature to borrow money for the purpose of extending the water works system.

ST. CATHARINES, ONT.—Mrs. Tyler, of Welland ave., has purchased property corner Welland avenue and Ontario st., and intends building thereon in the spring.

PORTAGE DU FORT, QUE.—Tenders have been invited for the erection of a dwelling for G. E. Reid, from plans prepared by M. C. Edey, architect, Ottawa.

PICTON, ONT.—Plans have been prepared for remodelling the First Methodist church, to provide seating capacity for 1,300 persons. The estimated cost is \$12,000.

TORONTO JUNCTION, ONT.—J. R. Chisholm, merchant tailor, has instructed Mr. Shedwick, architect, to prepare plans for a three story brick block to be erected on Dundas street.

ANDOVER, N. B.—A bill to authorize the village to construct a system of waterworks is now before the provincial legislature. It is estimated that the work will cost about \$9,000.

ALBERTA, N. W. T.—The Manitoba Grain Company have bought the roller mills here and will increase their capacity to 150 barrels. The company will also erect a large elevator.

COBOURG, ONT.—Mr. Wickstead has submitted to the town council a scheme for utilizing the water power of Baltimore Creek. It is estimated that to develop 400 horse power would cost \$55,000.

TRURO, N. S.—The Diamond Jubilee

Temperance Association are endeavoring to secure funds for the erection of a public hall, to cost about \$4,000. The president of the association is Mr. Ross Archibald.

PORT STANLEY, ONT.—The north stone abutment of the Lake Erie & Detroit River Railway bridge has been undermined by ice, and it is probable that the entire abutment will have to be rebuilt.

PARRY SOUND, ONT.—The Canada Atlantic Railway Co. will build two new warehouses during the coming summer.—The proprietor of the Canada Atlantic hotel has made arrangements for extensive alterations and improvements.

FORT STEELE, B. C.—A deputation will ask the Dominion government to carry out certain improvements in this district, including the improvement of navigation.—Rev. Father Coccola has taken steps to secure the erection of a High School.

CANNINGTON, ONT.—J. T. V. May is preparing plans for additions and alterations to Methodist church, Derryville, for a farm residence for Malcolm McCallum, Mariposa, and for a residence for W. H. Blackwell, this village, solid brick, with all modern conveniences.

WILLIAMSTOWN, ONT.—G. H. McGilhray, Township Clerk, will receive tenders up to noon of March 19th, for the construction of two stone abutments on the site of the Lancaster bridge, South Lancaster. Tenders will also be received for concrete abutments.

SARNIA, ONT.—It is said that the St. Clair Tunnel Company contemplate converting the motive power for the tunnel from steam to electricity. The matter is understood to be under consideration by Mr. Joseph Hobson, of Montreal, chief engineer of the company.

BRANTFORD, ONT.—The New Knowles Bicycle Co. purpose erecting a bicycle factory in this city.—The question of installing a municipal lighting plant is now under consideration by the City Council. Mr. T. H. Jones, city engineer, is securing information, and will shortly report.

ST. JOHN, N. B.—The Safety Board of the Common Council have decided to purchase a patrol wagon.—Ald. Christie has given notice of a motion authorizing the borrowing of \$147,000, of which \$12,000 is to be used for sewerage extension and \$135,000 for waterworks purposes.

ATWOOD, ONT.—T. Fullarton, clerk, of this place, will receive tenders until March 7th for the erection of three bridges in the township of Elma, one of 75 feet and two of 25 feet each, to be truss bridges, steel or combination, all 14 feet roadway. Particulars from Thos. J. Knox, reeve, Donegal P.O.

SUSSEX, N. B.—Among the buildings to be erected this year are a Roman Catholic church, an exhibition building, two dwelling houses for S. White, dwellings for Wm. Howes and Gordon Mills, and improvements to the Queen's hotel, including an addition and plate glass windows.

ORILLIA, ONT.—The City Council have engaged Mr. Wm. Kennedy, hydraulic engineer, of Montreal, to report on the probable cost of the hydraulic work in connection with the development of the water power of Ragged Rapids.—It is probable that the Dominion Carpet Co., of Elora, will remove to this place.

CHATHAM, ONT.—Tenders are invited by J. C. Fleming, county clerk, until March 15th, for the erection of a House of Refuge for the county of Kent, to be completed by December 1st next. Plans at county clerk's office, Chatham.—A proposition is now being considered to construct an electric railway to Rondeau Park. C. W. Richardson, of Morpeth, is one of the advocates of the scheme.

KINGSTON, ONT.—W. Newlands, architect, will receive tenders until Friday

next, 25th inst., for rebuilding the Watkins wing of the general hospital.—R. Waldron contemplates building a brick building on Clarence street, opposite the post office, to be divided into offices, with outside fire-proof vaults. Plans are now being prepared.—It is stated that Messrs. Abbott & Co., of Montreal, have decided not to erect roller mills in this city.

HINTONBURG, ONT.—Councillor Newton has given notice that at the next meeting of council he will introduce a by-law to raise money by debentures for the construction of a sewerage system. By constructing this system at the same time as the waterworks system is being built, he estimates that a saving of \$22,000 will be effected.—A gentleman whose name has not been made public is said to have made a proposition to establish an oatmeal mill at this place.

STRATFORD, ONT.—There is a movement on foot to secure the erection of an isolation hospital.—It has been decided to enlarge Knox church, at a cost of \$6,500. Of this sum \$2,500 is required for new seats.—Tenders for the erection of a municipal building are invited in this issue of the RECORD. Plans may be seen at the office of H. J. Powell, architect.—The city engineer has reported that it will cost \$10,000 to pave Downie street, from Ontario to George streets, with vitrified brick.

ST. THOMAS, ONT.—Messrs. F. M. Griffin & Co. will receive tenders up to Saturday, 26th inst., for the erection of a block of offices on Talbot street. Plans at office of Wm. Reath, contractor.—A meeting of the St. Thomas Street Railway Co. will be held on March 2nd to authorize the issue of debentures for the sum of \$50,000.—The City Council have appropriated the sum of \$300 for obtaining plans for a new city hall.—The application of the Board of Education for a grant of \$36,000 for school buildings has been referred to No. 1 Committee.

HAMILTON, ONT.—Mr. Barrow, city engineer, estimates the cost of draining the annex at \$18,000. This work, as well as a sewer on Catharine street, estimated to cost \$22,000, will likely be carried out this year.—The president of the Ontario Rolling Mills Company has stated that the work of rebuilding their plant would likely be commenced at an early date.—The Sewers Committee will ask the City Council for an appropriation of \$69,050. Provision is made for new sewers on Catharine, Wood and King streets, Birch and Aberdeen avenue. A recommendation has been made by the City Engineer to purchase an incinerator, to cost \$3,000.

QUEBEC, QUE.—It is stated that the Delaware and Hudson Railway Co. are considering the construction of a railway into Quebec.—The Quebec Exposition Co. want tenders before Friday, March 4th, for the construction of a fence round the company's grounds, to be 7,000 feet in length.—The Quebec Harbor Commission is understood to be pressing upon the Dominion government the necessity of constructing a second graving dock in this port.—The Exhibition Association have awarded the first prize for plans for buildings to Messrs. Percy & Dussault, and the second prize to Messrs. Berlinguet & Lemay.—Tanguay & Vallee, architects, have been commissioned by the directors of the Bank of Quebec to prepare plans for a branch building to be built at St. Roch.

MONTREAL, QUE.—Mr. C. H. Wilkinson, Canadian representative of the British Yukon Co., states that his company hold a charter from the Dominion government for the construction of a railway over the White Pass, from the head of Lynn canal to Lake Bennett, and that the work of construction will commence within one month.—Le Club National has started a movement to erect a monument

to the memory of the late Premier Mercier.—Jos. Venne, architect, is calling for tenders for six houses to be erected on St. Denis street for Emanuel St. Louis.—O. Mailloux, architect, has called for tenders for one store and dwelling to be built at Lachine for P. Demers.—R. Findlay, architect, is preparing plans for several residences to be built at Westmount, for which tenders will shortly be invited.—S. Frappier, architect, is preparing plans for a cottage on Durocher street, Montreal Annex, for G. Robert.—Gamelin & Huot, architects, are preparing plans for two houses on Amheist street for Jos. Laniel.

LONDON, ONT.—John M. Moore, Superintendent of Waterworks, will receive tenders up to March 3rd for furnishing and laying cast iron water mains in West London. Plans may be seen at the office of Moore & Henry, architects, Albion building.—The question of building a fire hall in the north end of the city is now before the city council. The estimated cost is between \$4,000 and \$5,000.—A meeting of the county and city committees was held last week to discuss the erection of the new Jubilee hospital. Several plans were examined, but no action taken. The county authorities have been asked to appoint a sub-committee to confer with committees from the City Council, Hospital Trust, Joint Stock Committee, and the ladies interested in the children's pavilion.—Mr. Lashbrook will rebuild his blacksmith's shop on Richmond street.—The trustees of the Askim Street Methodist Church are considering a proposition to build a new Sunday School and class-room building. There is, however, a scarcity of funds to carry out the work.—The Board of Education, at its next meeting, will ask the City Council for a grant of \$10,000, to be expended in building a four room school on the Collegiate grounds and a caretaker's cottage.

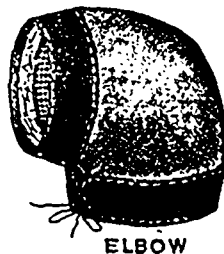
WINNIPEG, MAN.—The Canadian Produce & Packing Co. has been organized here, with a capital of \$100,000. The members are J. T. H. McEwan, James Stuart, J. Lizard, and Joseph Carveth. It is proposed to erect buildings this year.—Geo. Browne, architect, is taking tenders this week for the erection of a store and office building on Portage avenue for the Trust & Loan Co. of Canada.—Tenders are invited for the erection of a house for W. Pulford. Plans may be seen at the office of Walter Suckling & Co.—Sketch plans have been prepared for the proposed jubilee addition to the general hospital. These were presented at a meeting of the Board of Directors held last week.—Col. H. N. Ruttan, city engineer, has lately returned from a visit to the east, the object of which was to obtain information regarding artesian wells as a source of water supply, and the methods of disposing of garbage. He reports that artesian wells have been found satisfactory in many cities.—At the next session of the legislature a local company will ask for a charter to build an electric railway from this city to St. Andrew's Rapids, and through the municipalities of Springfield, St. Boniface, Kildonan, St. Paul's and St. Andrew's. The company also propose to construct saw mills, boats, telegraph and telephone lines.—A deputation left this city last week for Ottawa, where they will interview the government regarding improvements to the St. Andrew's Rapids, on

the Red river. Specifications for the work have already been prepared.—Premier Greenway has promised to give a grant of \$1,750 per mile for the extension of the C.P.R. from Deloraine south-west through the municipalities of Winchester and Arthur, a distance of 24 miles.—It is stated that the Bank of British North America will erect a building during the coming summer.

TORONTO, ONT.—The City Council has given notice of its intention to construct brick sidewalks on the following streets: Harbord street, cost \$156; North street, cost \$333; Mutual street, cost \$509; Bismarck avenue, cost \$862; Church street, cost \$459; Terauley street, cost \$458; Richmond street, cost \$355.—The Board of Control has approved of the recommendation of the city engineer for an asphalt pavement on College street, from Yonge to Spadina avenue, cost \$44,700. The recommendation for an asphalt pavement on Bloor street, from Yonge to Avenue road, has been referred back.—The C.P.R. has announced its intention of constructing a line of railway from this city to Sudbury.—Messrs. Park, Blackwell & Co. have written to the City Council objecting to the removal of the cattle market from its present site. This company are about to commence the erection of a large pork packing establishment providing no change of location for the market is decided upon.—Mr. F. H. Herbert, architect, has prepared plans for a brick and stone detached residence to be erected in Rosedale, tenders for the erection of which will be received until March 3rd. Same architect invites tenders in this issue for the brickwork, carpenter work, galvanized iron, painting, glazing and roofing required in the rebuilding of factory premises on Front street east.—Building permits have been granted as follows: Alex. Orr, two-story dwelling, 50 Bernard avenue, cost \$3,500; T. R. Purvis, brick dwelling, 186 Brunswick avenue, cost \$1,400, and two-story brick residence, rear 188 Brunswick avenue; C. H. Hubbard, alterations and remodelling buildings, 36 to 40 Adelaide street west, cost \$11,200, F. H. Herbert, architect; Crowther Estate, brick addition to 117 Yonge street, cost \$1,000; W. A. Hart, four attached 2-story, rough-cast, brick-fronted dwellings, 98 to 104 Pearson ave., cost \$4,000.—Messrs. Simpson & Ellis, architects, are preparing plans for a house to be erected on Wilton ave. for Mr. L. A. Conrad.—The City Council has appointed a committee to confer with Mr. W. J. Gage in reference to his proposal to erect a swimming bath in the city. Ald. Hallam's proposal to place \$15,000 in the estimates for a set of chimneys for the new municipal buildings has been referred to the Property Committee.

OTTAWA, ONT.—G. M. Baily, architect, will receive tenders until Saturday next, 26th inst., for the erection of a double house on Gilmour street.—The Bank Street Chambers has been purchased by Ald. Morris, who will put in an elevator and otherwise improve the buildings.—The City Engineer has submitted to the Waterworks Committee the estimates for the current year. These include the following: 6,000 feet of fire hose, \$7,000; new station in St. George's ward, \$7,500; four hose wagons, \$2,600; steam fire engine, \$6,000.—The City Council have now

(Continued on page 4.)



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MONTREAL WINNIPEG

under consideration the main drainage scheme. It is said that the city of Hull will offer strong opposition to the western outlets.—The Council of Ottawa East has requested Mr. E. J. Rainboth to submit plans and estimates for the construction of a system of waterworks.—The trustees of the Bell street Methodist church have decided to build an addition, 21 feet wide and the full length of the church.—It is understood that the Ottawa Electric Railway Co. will undertake the construction of a bridge over the Ottawa river between Hull and Ottawa, the total length of which will be 1,345 feet.—Building permits have been granted as follows: John Martin, brick house on Third avenue, cost \$2,000; Robert Figon, brick house on John street west, cost \$2,000; four dwellings, 11 and 12 St. Patrick street south, of brick, cost \$2,500.—E. F. E. Roy, secretary Department of Public Works, will receive tenders until Thursday, March 10th, for the construction of a wharf on Honora Bay, Manitoulin Island. Plans at offices of H. A. Gray, Confederation Life Building, Toronto, the Postmaster at Honora, and at the above department.—Plans have been completed by M. C. Edey, architect, for the main exhibition building for the Canada Central Fair Association. The structure will be 136 x 350 feet, with tower dome in centre 140 feet in height. The roof will be covered with corrugated iron and the sides with pressed iron. The tower will also be covered with iron sheeting, the floors to be of concrete and the entrances of galvanized iron. The estimated cost is \$20,000.—T. H. Smallman, and others, of London, are seeking power to build a steam or electric railway from London to Grand Bend, on Lake Huron.—The British American Light & Power Co. want authority to construct and operate by electricity or other power tramways in Dawson city, Fort Selkirk and other points in the Yukon district.—The Ontario and Rainy River Railway Co. are seeking an extension of time for the construction of a railway and a railway bridge across the Rainy river to a point in the state of Minnesota. Mr. Frederic Nichols, of Toronto, is president of the company.—Residents in the vicinity of Rossland and Trail Creek have petitioned for the construction of a railway to open up the boundary country.—The Canadian Gazette contains an application for incorporation of a company to construct a nickel refinery in Ontario. The capital stock is placed at \$20,000,000, and the promoters include N. Dymont, of Barrie, A. T. Wood, M.P., of Hamilton, Geo. A. Cox, of Toronto, and others.

FIRES.

A large frame building at Morden, Man., owned by W. J. Steele, was burned last week.—Heffler & Webber's shingle and saw mill at Sackville, N.B., was burned recently; loss \$2,000, no insurance.—The Methodist church at Skead's Mills, Ont., has been burned. The building was owned by John Falls.—On the 19th inst. fire destroyed Mrs. Sutherland's and Mrs. Bedal's brick block on Prince Edward st., Brighton, Ont.; insured.—The Bismarck cheese factory at Wellandport, Ont., has been burned; loss \$2,500, partially insured.—The saw mill of T. M. Reid at Cascades, Ont., was burned a few days ago, at a loss of \$1,500; no insurance.—A large stone flour and grist mill at Burlington, Ont., owned by Mr. Redpath, of Montreal, was totally consumed by fire on Sunday last.—A barrel

factory at Loquille, Annapolis County, N. S., was recently destroyed by fire. It was owned by the Union Bank of Halifax, and was valued at \$15,000.—The waterworks building at Markham, Ont., in which the electric light plant was situated, was destroyed by fire on Wednesday of last week. The electric light plant was owned by W. J. Fletcher, of Alliston, and was uninsured.—H. Middleditch's machine shop and foundry at Bothwell, Ont., together with several smaller buildings, were burned last week; small insurance.

CONTRACTS AWARDED.

WINNIPEG, MAN.—The tender of T. E. Robertson, for the supply of lumber to the city, has been accepted; price, \$1,478.

ARNPRIOR, ONT.—George Grant, of this place, has contracted to build the Burnstown bridge, at the price of \$2,900.

TORONTO, ONT.—The tender of Taylor Bros. for the supply of paving brick has been accepted by the city; price, No. 1, \$14, No. 2, \$9.

FREDERICTON, N.B.—The Provincial government have accepted the tender of the Bank of British North America for the purchase of \$1,010,000 of debentures.

HAMILTON, ONT.—The Cataract Power Co. have let the contract for the erection of a transfer station at the intersection of the G.T.R. and Victoria avenue. The building will be one story, 50 by 100 feet, cost \$5,000.

OTTAWA, ONT.—The Sisters of the Precious Blood opened tenders last week for the erection of a monastery on Sandy Hill. It is understood that the tender of Jos. Bourque, which was about \$60,000, will be accepted.

QUEBEC, QUE.—J. H. Gignac has secured the contract for the erection of a summer residence at St. Laurent for Hon. C. A. T. Pelletier, to cost \$2,000.—It is understood that the tender of a Brooklyn firm has been accepted for the proposed bridge across the St. Lawrence.—A building permit has been issued for a three story house, 36 x 34 ft., stone front and mansard roof, to be built on Couillard street for Dr. Dionne. Probable cost, \$6,000; contractor, L. S. Boivin.

MONTREAL, QUE.—The Newfoundland government has awarded to Mr. W. J. Reid, contractor, of this city, the contract to operate the entire railway system of the colony of 600 miles for fifty years in return for a land subsidy of 2,500 acres per mile.—Robert Findlay, architect, has prepared plans for seven residences to be built at Westmount. Contracts have been let as follows: Masonry, W. Oman; brickwork, A. Leger; roofing, Campbell & Gilday; plastering, A. Gosselin; painting, John Murphy; iron work, Dominion

Bridge Co.—R. Falbord, architect, has let to T. Guilbault the masonry contract of five houses to be built at the corner of Prince Albert and Western streets, Westmount, for Charles Depocas. Some architect has accepted the tender of E. Le-cavalier for two villas at Pointe aux Trembles, for D. V. Vue F. Blair.

ALUMINIUM IN STRUCTURAL WORK.

(Concluded.)

Castings of aluminium in comparison can be taken at 16,000 lbs. per square inch for pure aluminium, and from this to 24,000 lb. per square inch for alloys. Using again a safety factor of five, an allowable working strain is given of from 3,200 lb. to 4,600 lb. per square inch. But the pure metal should not be used in castings, except for electrical purposes, as it resembles pure copper in being difficult to cast and is soft, comparatively weak, and has a large shrinkage. In its stead for most casting purposes alloys with from five to twenty per cent. of copper, nickel, or other hardeners should be used.

The alloys of aluminium in rivets and similar shapes in shear have an ultimate shearing strength of from 24,000 lb. to 27,000 lb., which, using here a safety factor of six, gives an allowable working strain of from 4,000 lb. to 4,500 lb. per square inch. The ratio of the ultimate shearing strength to the ultimate tensile strength for double riveted joints is about sixty per cent., and for single riveted joints the ratio is about seventy per cent. The ratio for steel is about seventy-five per cent. In beating, the ultimate value of the alloys of aluminium is from 32,000 lb. to 40,000 lb. per square inch, which, using a safety factor of four, gives an allowable working strain from 8,000 lb. to 10,000 lb.

The attention of those contemplating the use of aluminium for structural purposes is called to the fact that the elastic limit is closer to the ultimate tensile strength than in any other of the commercial metals, and for this reason the safety factor of four or five means a great deal more than it does in steel or iron where the same safety factor is used. Where any great strength in aluminium is desired the metal should be protected in such a way that its temperature will

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not be raised very much beyond that of the ordinary atmospheric temperature, for the reason that aluminium melts at a little less than 1,200 degrees Fahr.

The values given above are for temperatures of less than 100 degrees C (212 degrees Fahr.); for temperatures between 100 degrees and 200 degrees C. the unit strain should be decreased by fifty per cent., and above 200 degrees aluminium should not be designed to be used in strain.

H. F. Cumming and W. A. McCaffrey, dealers in builders' supplies, Cornwall, Ont., have dissolved partnership. The business will be continued by Mr. Cumming.

EXPERIMENTS IN MEASURING WIND POWER.

The experiments in measuring the power of the wind, which are being conducted at Centralia, Ill., by Professor E. P. Nipher, of Washington University, St. Louis, and Professor Zimmerman, of Missouri State University, promise to make known what scientists thus far have been unable to discover—a method of measuring the pressure which the wind is exerting at any given point. While this force has been taken into account more since the erection of tall buildings, engineers and architects have only been able to make their calculations by approximation, and although many methods have been resorted to, there has been no scientific

basis to prove the exactness of their reckoning.

The Illinois Central Railroad has fitted up a private car and equipped it with every facility for carrying out the plans of these two professors. If they should succeed in measuring the velocity and force of the wind with any degree of exactness, they will confer a favor upon both architects and engineers, particularly the latter, who will be glad to use any data they can furnish in planning great bridges or other lofty works exposed to violent winds.

Mr. F. A. Tetu has resigned as city engineer of Hull, Que. Ald. Farley has been appointed as his successor.

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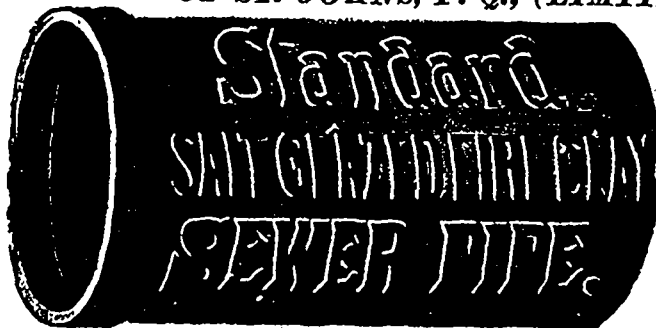


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MUNICIPAL DEPARTMENT

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

KELLY VS. CITY OF WINNIPEG.—Recently Mr. Justice Bain delivered judgment in the case of Kelly vs. City of Winnipeg on the application made to him for an interlocutory injunction to restrain the city from carrying out the resolution concerning a minimum rate of wages on city contracts. The plaintiff in the suit was Thomas Kelly, a contractor, of Winnipeg, who sued on behalf of himself and all other ratepayers. In June, 1895, a resolution was passed by the city council as follows: "That in future a clause be inserted in all contracts passed through or let by the council, to the effect that contractors on city works should not pay their laborers or other employees a less rate of wages than 17 1-2 cents per hour, and that rate shall be the minimum rate of wages for all laboring men to be employed on said contracts or on any new construction work undertaken to be done by the city, by the day."

The plaintiff submitted an injunction prohibiting the city from continuing to act on the resolution, or to pay men on new works any greater rate of wages than necessary to obtain suitable men, and to restrain the city from inserting in any contract any limitation on the minimum amount of wages to be paid by contractors doing work for the city.

His lordship dismissed the application for the interlocutory injunction. In delivering judgment he observed:

"It is necessary that the mayor and council of the city should have public works of various kinds done in the city, either by contractors or under the direction of their own officials; and it must be incident to and within the scope of the authority of the mayor and council to provide that those employed on such work be paid. The resolution in question, therefore, relates to an expenditure of money that is clearly within the authority of the mayor and council to make, and is not in itself illegal and ultra vires. The resolution is not questioned on any ground that could come under the head of fraud; and while it is urged that the mayor and council are in a sense trustees of the revenues of the city, it is necessary to remember that to describe them as trustees is not exhaustive of their powers and duties. If the court is to interfere in a matter like this, its jurisdiction would have to be based on the superintending power of a judicial character that experience has taught must be exercised in order to keep municipal and other corporations within the reasonable, as well as the legal, exercise of their powers.

"In his affidavit Mr. Kelly stated that in his belief the resolution was passed and has been acted on in the interests of the

working men, and on the argument it was urged that the council proposed to benefit the working men at the expense of the ratepayers in the hopes of influencing the votes of the working men; the motives of the council were not, however, referred to in the statement of claim. The objection raised was that the resolution committed the council to an unnecessary and extravagant expenditure of the city's funds. The average rate of wages paid to working men, Mr. Kelly says, is 15 cents an hour, and as all city work has to be completed to the satisfaction of the city's officials, he claims that the work can be done as well for this amount as 17½ cents per hour. The courts may decide upon the reasonableness of resolutions and by-laws of governing bodies, and judge of them, whatever their purposes, by considering their nature and effect, but where, as in this case, the governing body is acting within the scope of its authority, and must of necessity exercise a discretion in carrying out its powers, it will be presumed until the contrary is shown, both that that governing body is the best judge of what is for the public benefit, and that it has exercised its discretion honestly and reasonably. In such a matter as deciding on the rate of wages to be paid men employed on city works, the mayor and council should be peculiarly the best judges, and a very clear case of unreasonableness would have to be made out before the court would interfere with their decision. No doubt the city could, as well as the contractors, hire men for less than 17½ cents per hour, but in buying materials and supplies for the city service, and in hiring men to do its work, there are many other considerations besides mere cheapness that may legitimately influence the council, and they do not necessarily subject themselves to the interference of the court if, in hiring its workmen, it does not act on the principle that only such wages are to be paid as the law of supply and demand and the necessities of the men will compel them to accept. All who make affidavits in reply to Mr. Kelly's motion agree in stating it as their belief that 17½ cents an hour is not more than a fair living wage for a competent working man in Winnipeg, and that it is in the interest of the city that laborers employed on city work be paid a fair living wage. Their reasons may or may not be convincing, but with the wisdom or unwisdom of the policy of the council, acting bona fide in a matter within the scope of its authority, it is for the ratepayers and not the court to decide upon. Nothing was adduced to show that the council are not acting in the best interests of the city, and the court will not assume that it is acting unreasonable in any legal sense if it insists that men engaged upon city work shall be paid a

fair living wage even although men might be hired to do the work at a lower rate. The resolution embodies not a hasty piece of legislation, but a policy deliberately adopted by the council in 1895 after an investigation into the facts. The provisions of this resolution have been acted upon by three successive councils, and the council of the present year proposes to act on them when the necessity arises. These councils have been elected by the ratepayers and no request has been made for a repeal of the resolution, and there has been no agitation or expression of opinion of the ratepayers against it. The council in carrying out the provision in question will be acting within the scope of its authority, and as far as the material before the court shows, in a bona fide manner, and the court would not be justified in interfering before the plaintiff has established his right at the hearing of the action."

The application for an injunction is dismissed; the question of costs reserved until the hearing.

SEWAGE DISPOSAL IN LONDON.

For years it has been maintained that the sewage of London, England, could be converted into a valuable fertilizer, and many systems have been experimented upon in this direction. But in the result it has been found better to take the "sludge" fifty miles out to sea and there "drown" it. The London county council maintained a fleet of six vessels for this purpose; they carry on each journey a load of nearly one thousand tons of sludge, and made last year more than two thousand trips, at a cost of upwards of £30,000. Now a new plan altogether is to be tried, and works are being pushed forward at Rotherhithe, where the method is to be tested. This new system aims at the conversion of the sludge into good burning furnace fuel, so that what is now so costly to throw away may be converted into a valuable commodity. The method is known as the "Henry process," and consists in drying the sludge—which contains ninety per cent. of moisture—on the surface of huge revolving hot air cylinders, scraping off the dry film formed, and pressing the residue into cakes ready for burning. It is also intended to grind some of the residue to a fine powder, and to sell it for fertilizing purposes. The experiment is an interesting one, and its results will be looked forward to anxiously, not only by the London County Council, but by the representatives of large towns and cities everywhere.

Mr. Thos. Tremblay, P.L.S. and C.E., has been appointed superintendent of the recently-acquired waterworks system at Sherbrooke, Que.

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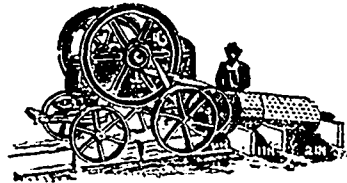
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