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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF CONTRACTS AND TENDERS

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. 11. OCTOBER 24, 1900 No. 38

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

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Advertising Rates on application.

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

*Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publishers of any irregularity in delivery of paper.*

**DEBENTURES FOR SALE.**

Sealed tenders will be received by the undersigned up to noon on WEDNESDAY, THE 31ST OCTOBER, inst., for Debentures of the United Counties of Prescott and Russell, for the sum of Eight Thousand Dollars (\$8,000), repayable in fifteen annual instalments, bearing interest at 4 per cent. The counties have no other debenture indebtedness, therefore the security is choice. For further information apply to

**E. ABBOT JOHNSON,**  
 Clerk United Counties of Prescott and Russell.  
 L'Orignal, Oct. 12th, 1900.



Sealed tenders, addressed to the undersigned, and endorsed "Tender for Works at Port Colborne," will be received at this office until FRIDAY, THE 9TH OF NOVEMBER, inclusively, for the construction of a breakwater and for Rock Excavation at Port Colborne, Welland County, Province of Ontario, according to a plan and specification to be seen at the offices of H. A. Gray, Esq., Engineer in charge Harbour and River Works for Ontario, Confederation Life Building, Toronto; the Resident Engineer, room 411, Merchant's Bank Building, St. James St., Montreal and Mr. Ph. Beland, Clerk of Works, Post Office, Quebec; on application to the Postmaster at Port Colborne, Ont., and at the Department of Public Works, Ottawa.

Tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank payable to the order of the Minister of Public Works, for Thirty Thousand Dollars (\$30,000), must accompany each tender. The cheque will be forfeited if the party decline the contract or fail to complete the work contracted for, and will be returned in case of non acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

By order,  
**JOS. R. ROY,**  
 Acting Secretary.

Department of Public Works,  
 Ottawa, October 10th, 1900.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

## TENDERS FOR DEBENTURES

Sealed tenders will be received by the undersigned up to noon on 30th OCTOBER, 1900, for Debentures of the Town of Walkerville, viz., Granolithic Sidewalks, which will be delivered and must be settled for at the Treasurer's Office.

The said debentures are payable in twenty (20) annual instalments of \$21.79, on the 1st day of October, 1901, and one in each of the succeeding 19 years, respectively, at the Canadian Bank of Commerce, Walkerville, Ont.

Previous debt, \$28,043.10.  
 Assessment, \$1,000.00.  
 General taxation, 8 1/2 mills.

The highest tender not below \$3,150.00, with accrued interest (being at the rate of 4% per annum, compounded half yearly), will positively be accepted.

As a guarantee of good faith, tenders must be accompanied by marked cheque, payable to the Town Treasurer, for 5% of the amount offered.

**CECIL H. ROBINSON,**  
 Town Clerk.

Walkerville, October 6th, 1900.



## TENDERS FOR Swiss Cottage Hospital

Separate or lump tenders, addressed to the undersigned, will be received through registered post up to noon on

**Wednesday, Oct. 31st, 1900,**

for the following works and services in connection with the erection of the above hospital, viz.:

1. Excavation, Masonry, Brick and Cut Stone Work.
2. Lathing and Plastering.
3. Carpenters' and Joiners' Work.
4. Painting and Glazing.
5. Galvanized Iron Work.
6. Plumbing and Gas Fitting.
7. Hot Air heating.

Plans and specifications may be seen, and forms of tenders, addressed envelopes, and all further information obtained upon application at the office of George H. Harper, Esq., Architect, Room 51, Canada Life Building.

Each and every tender must be accompanied by a cash deposit, or marked cheque payable to the order of the City Treasurer, equal to 2 1/2 per cent. on the amount of the tender if over \$1,000, and 5 per cent. if under \$1,000, and must bear the bona fide signatures of the contractor and his sureties, otherwise they will be ruled out as informal.

Should the party or parties whose tender is accepted fail to execute the necessary contract and bond, and give satisfactory security for the due fulfillment of the contract, the deposit accompanying his or their tender will be forfeited.

The deposits of unsuccessful tenderers will be returned. The lowest or any tender not necessarily accepted.

**JAMES CRANE,**  
 Chairman Local Board of H. alth.  
 City Hall, Toronto, October 15th, 1900.

The dissolution is announced of the firm of Cornish & Stewart, painters, St. Marys, Ont., Chas. Stewart continuing.

Contractors will confer a favor upon the publishers by mentioning the **CONTRACT RECORD** when submitting tenders for works advertised in this paper.

**CONTRACTS OPEN.**

**HARROW, ONT.**—Mr. Arner intends building this fall.

**BROCKVILLE, ONT.**—The council may purchase a new fire engine.

**ARNPRIOR, ONT.**—Tenders have been invited for a sewer on John street.

**LEEDS VILLAGE, QUE.**—S. McKee intends erecting a residence next spring.

**BURBY, ONT.**—A site has been selected on which to build a new English church.

**CANNINGTON, ONT.**—A bridge will be built over the Trent canal at the centre road.

**FENWICK, ONT.**—It is stated that a large canning concern will erect a factory here.

**PARRY SOUND, ONT.**—Steps are being taken to form a company to manufacture brick.

**PORT COLBORNE, ONT.**—McLeod & White are getting figures on the building of a new tug.

**DUNDAS, ONT.**—The School Board is negotiating for a site on which to build a High School.

**DARTMOUTH, N. S.**—The residents of the north end have petitioned for a better water supply.

**WATERVILLE, QUE.**—The corner stone of the new Congregational church was laid last week.

**CHARLOTTETOWN, P. E. I.**—J. E. F. Lefurgy has purchased property for building purposes.

**NELSON, B. C.**—The erection of an addition to the General Hospital has been decided upon.

**TEESWATER, ONT.**—The managers of Knox church will probably install an acetylene gas plant.

**BUCKINGHAM, QUE.**—It is rumored that American capitalists are about to establish a pulp mill here.

**BANFF, N.W.T.**—The C.P.R. are said to be considering the erection of an addition to the Banff hotel, to cost \$60,000.

**HEPWORTH STATION, ONT.**—It is reported that J. E. Murphy will establish a bobbin factory in Warton.

**PENETANGUISHENE, ONT.**—P. Payette has commenced the foundation for proposed addition to foundry.

**BAIRDSON, ONT.**—About \$3,000 has been subscribed towards the building of proposed Presbyterian church.

**BRACEBRIDGE, ONT.**—Work has commenced on the new power plant, under the direction of C. W. Dill, C.E.

**SAULT STE. MARIE, ONT.**—The Presbyterian congregation will either enlarge the church or erect a new edifice.

**ELMWOOD, ONT.**—Brant township council will take steps to have Crispin's bridge replaced by a new structure.

**BRANTFORD, ONT.**—Revised plans of the proposed isolation hospital are on view at the office of Jos. Stratford.

Tenders close October 27th.—A movement has been started to build a manual training school.

POINT EDWARD, ONT.—It is stated that the Grand Trunk railway will make improvements to the elevator and docks here.

CAMPBELLTON, N.B.—Surveying is in progress for the Restigouche and Western railway, under the direction of C. LeB Miles.

THURSO, QUE.—Mr. Thomson, mayor, will receive tenders up to November 15th for purchase of forty annual debentures of \$220 each.

ST. IRENE, QUE.—R. Forget, of the Richelieu & Ontario Navigation Co., with others, will build a summer hotel here, to cost \$25,000.

ROSSLAND, B. C.—Next spring the Vernon & Nelson Telephone Co. will build a direct telephone line from this place to Cascade.

WALKERVILLE, ONT.—Bids are asked by C. H. Robinson, town clerk, up to October 30th for purchase of about \$31,000 of debentures.

FORT WILLIAM, ONT.—The council has given notice that debentures to the amount of \$48,000, bearing interest at 4½ per cent., will be issued.

OWEN SOUND, ONT.—Two new concerns contemplate locating here. One of these has submitted plans of proposed buildings to local contractors.

CARLETON, QUE.—Plans of wharf extension to be built here by the Dominion government are on view at the post office. Tenders close November 16th.

LANCASTER, ONT.—The Dominion government is asking for tenders up to November 9th for construction of landing pier here. Plans at post office.

MEAFORD, ONT.—The council has given notice of its intention to construct cement walks on portion of Canning street and Leslie street, cost \$800.

BROMPTON FALLS, QUE.—The bonus of \$10,000 to the American Paper Co. to erect a pulp and paper mill here, was carried by the ratepayers without opposition.

ZURICH, ONT.—Bids are invited by Fred Hess, township clerk, up to November 3rd, for cleaning out Zurich drain. Amount of work to be done, 4,500 cubic yards.

NAPANEE, ONT.—A by-law will be submitted to the ratepayers in January to raise \$45,000 by the issue of debentures for the purchase of the waterworks system.

CARLETON PLACE, ONT.—G. A. Burgess is forming a company to engage in electric lighting and power business. It is proposed to utilize the water power at Arklan.

DONROCH, ONT.—The Presbyterian church congregation have decided to build a new church, brick with stone basement, for which tenders will shortly be invited.

HINTONBURG, ONT.—Robert Surtees, C. E., has been instructed to report on the condition of the present waterworks system prior to the commencement of work on extensions.

BLENHEIM, ONT.—Mr. Jones, superintendent of the Chatham water works, will prepare an estimate of the cost of installing an electric plant for lighting the streets of this town.

NEW WESTMINSTER, B. C.—Plans will shortly be invited for a new city hall on Columbia street, to cost between \$25,000 and \$30,000. It will probably be of sandstone on granite foundation.

BRIDGEWATER, N.S.—The ratepayers last week voted in favor of constructing a water works system and purchasing the present electric light plant.—Proposals

for sinking two shafts, each 50 feet deep, 12 feet long and 4 feet wide, are invited by C. Orwitz up to November 1st.

GUELPH, ONT.—The Raymond Manufacturing Company have been granted permission by the city council to build an overhead steel bridge and underground tunnels connecting their two factories.

WINDSOR, ONT.—Dr. Soper has purchased the sanitarium property on the river front, below this city, and intends carrying out the original scheme by completing the building, at a cost of \$100,000.

SHERBROOKE, QUE.—The building of a new court house at this place is to be commenced at once.—The foundation of the new opera house to be built by Mr. Clement will likely be commenced this fall.

ST. CATHARINES, ONT.—A by-law to borrow \$10,000 for local improvements was passed in council last week.—The Niagara, St. Catharines and Toronto Railway Co. have been granted a site for a wharf by the government.

RAPID CITY, MAN.—D. E. B. Daly, town clerk, will receive bids up to November 1st for erection of two stone abutments for a bridge across the Little Saskatchewan river. Approximate quantity of masonry, 110 cubic yards.

VICTORIA, B. C.—Plans have been prepared for two new C.P.R. steamers to run between Nelson and Kootenay Landing.—A proposal has been made by the Great Northern railway looking to the extension of the road to this city.

THESSALON, ONT.—James Donaldson has made a proposition to the council to establish an electric light plant here.—The corporation will issue debentures to the extent of \$4,878 for the purpose of rebuilding and extending the waterworks system.

MAISONNEUVE, QUE.—The Royal Shoe Company and the George A. Slater Shoe Company, who were granted bonuses by the municipality last week, each agree to build a two-story brick building, on stone foundation, and to install machinery to the value of \$3,000.

HULL, QUE.—Last week the council decided to grant H. J. Beemer exemption from taxation for fifteen years. Mr. Beemer binds himself to build within a year a central station to cost \$4,000.—It is rumored that the new union station of the Pontiac and Pacific Junction and Ottawa and Gatineau Valley railways will be built on Chaudiere street.

LEAMINGTON, ONT.—The congregation of the Roman Catholic church intend building a parish residence.—Misses Alleys have purchased property on Talbot street on which they will erect a brick building.—W. L. Clark will likely erect a brick building adjoining Irwin's new block.

QUEBEC, QUE.—The two railway companies are reported to have purchased from Mr. Nelson, of Ottawa, the river frontage on the Beauport shore commonly known as New Water Cove. On this property it is proposed to build several factories. The same parties have also secured the frontage formerly the property of the Hotel Dieu, on which workmen's residences will be built.

NIAGARA FALLS, ONT.—The council will construct a sewer on Ontario avenue, cost \$900.—The International Rapid Transit Company, of Buffalo, has been incorporated. The company have in view the connection of Fort Erie, Crystal Beach and Niagara Falls by electric railway.—The council has authorized the calling for tenders for a new bridge over Muddy Run at Buttery avenue.

CORNWALL, ONT.—Plans have been prepared by T. Pringle & Son, of Montreal, for developing the water power at Shicks dam, at the foot of the Longue

Sault Rapids, ten miles west of this town. The power house will be brick, with stone foundation, 60x90 feet. At first machinery for only 1,000 h.p. will be installed, but the power house, dam, etc., will admit of the development up to 4,000 h.p.

WINNIPEG, MAN.—If the C.P.R. can make a satisfactory arrangement with the city for the construction of a subway at Main street, the company will at once proceed with the erection of an hotel, station, and offices, as well as improvements to the yards, shops and freight shed accommodation. The council has decided that the Main street subway shall be 62 feet in width, instead of 42 feet as provided by the plans of the C. P. R.

ST. JOHN, N. B.—W. A. Nelson has purchased part of the foundry lot opposite Hanson's drug store in Fairville, and purposes erecting a large building thereon.—The Safety Board, at a meeting held last week, discussed at some length the proposal to install a municipal electric light plant. The Board will recommend to council that the present contracts for lighting be continued for five years.—The C. P. R. are arranging for additional sidings here, and will erect a new rolling platform for heavy timber.

KINGSTON, ONT.—A handsome summer cottage will be built on Whitecal Island for E. L. Atkinson, to be completed by June 1st, 1901.—On October 16th the ratepayers, by a large majority, carried the by-law granting a bonus of \$50,000 to Queen's University for the erection of a new arts and science building. Principal Grant states that \$150,000 will be spent in the next two years in buildings, apparatus, etc.—Arthur Ellis, architect, wants tenders by noon to-day, (Wednesday), for steam heating assembly room, and sundry plumbing at Collegiate Institute.

HAMILTON, ONT.—The sewage committee has decided to advertise for new tenders for the east end sewers.—The Cataract Power Company last week submitted to the Barton Township Council their scheme for extension of street railway system to Bartonville. It is the intention to commence work on the main street immediately.—The Hamilton, Beamsville & Grimsby Railway Company will probably make application to Parliament for power to extend their road to St. Catharines and Niagara.—Richard Buscombe has been granted a permit for a brick dwelling on Tom street, between Sophy and Devonport streets, cost \$1,400.

VANCOUVER, B. C.—L. D. Kinney, promoter of the proposed railway from Skagway to Eagle City, states that the construction of the road will be proceeded with at once. The building of a tunnel 3,500 feet in length through the summit of the Chilcoot will be a part of the scheme.—A movement is said to be on foot to establish a large pulp mill at Ladysmith.—Parr & Fee, architects, have just taken tenders for building a residence on Robson street.—Hon. C. H. McIntosh, of Rossland, will shortly leave for England in connection with the Stave Lake power project, which it is expected will be commenced at an early date.—The C.P.R. intend building a new hotel here, to contain 250 rooms and a large assembly hall.

OTTAWA, ONT.—Ahearn & Soper have purchased the Little Chaudiere water power, with the intention, it is understood, of developing it for manufacturing purposes.—J. J. Mix has purchased the residence of Mrs. Johnstone, corner of Primrose avenue and Cambridge street, and will make extensive improvements to the property.—Building permits have recently been granted as follows: Robert Carpenter, three brick buildings, 20 Albert street south, cost \$4,500; Thos. McCloy, brick building, 15 Duke street, cost \$1,700.—L. K. Jones, secretary Depart-

ment Railways and Canals, invites tenders up to October 30th for supply of iron railings, gates and turnstiles to be placed around the grounds at the head of the Soulanges canal at Coteau Landing. Plans at above department and at engineer's office at Coteau Landing.—Tenders are invited by the Department of Public Works up to November 2nd for construction of wharf at Ecum Secum, Guysborough county, N. S. Plans at offices of E. D. Millidge, Antigonish, and C. E. W. Doddwell, Halifax, at post office at Ecum Secum and at above department. Tenders are also invited up to Friday, November 9th, for construction of landing pier at Lancaster, and up to Friday, 10th inst., for extension of wharf at Carleton, Bonaventure county, Que.—John Hardie, Deputy Minister of Marine and Fisheries, asks tenders up to November 1st for construction of two steamers for fisheries protection service in British Columbia, to be built either at Nanaimo, Victoria, Vancouver or New Westminster.—The sum of \$60,000 is being spent on the deepening of the channel at the Chaudiere leading to the McKay Milling Company's former establishment, and it is again stated that J. R. Booth and David Scott will next spring erect a large mill on the property.

MONTREAL, QUE.—Plans are in course of preparation for the reconstruction of the principal lines of the Montreal Street Railway Co.—The plans for the new building for the Bank of Montreal are being prepared by A. T. Taylor, F. R. I., B. A., of this city, in conjunction with a firm of New York architects. The statement in last issue that the plans were being prepared solely by a New York architect was an error.—The president of the Montreal Marine Underwriters' Association has received a communication from the Lloyd's Insurance Company, of London, England, that they have decided to erect a signal station on Belle Island.—Notice has been given by the city that it is proposed to construct sewers on the following streets: Chris. Columbus street, from St. Zouique street, six hundred feet southwards; S. Denis street, from De Fleurimont street to Beaubien street; Labelle street, from Belanger street to Beaubien street.—The Luing Packing & Provision Co. purpose erecting a large packing house on the Government property south of Mills street.—Building permits have been issued as follows: Dominion Cotton Mills Company, one-storey warehouse, Darling street, cost \$2,200 (T. Pringle & Son, architects); F. Dansereau, three three-storey houses, 111, 113, 115 Mentana street, cost \$3,000 (R. Montbriand, architect); Sisters of Mercy, two-storey building, St. Andre and Logauchetiere sts., cost \$4,000; J. R. Dougal, two-storey building, corner St. Peter street and Fortification lane, cost \$8,000 (Taylor & Gordon, architects); Quebec bank, repairs to building on Pipineau street, cost \$1,600.

TORONTO, ONT.—Tenders are wanted at 105 Albert street for erection of pair of brick houses.—The Public School Board has authorized the Supply Committee to spend \$3,000 in furnishing the offices and Board room.—The City Engineer has been instructed by the Committee on Works to prepare a complete report on the situation at the pumping station so as to assist the council in its decision regarding additional pumping plant.—Plans have been completed by the City Engineer for the proposed subway at Lansdowne avenue.—Plans of landing pier to be built at Lancaster, Ont., may be seen at the office of H. A. Gray, C.E., Confederation Life Building, this city.—An effort is being made to form a company to erect a summer hotel at Balmy Beach. Plans for same have been prepared by J. Francis Brown, architect. F. W. Roberts, Lee

avenue post office, is one of the chief promoters.—Tenders are wanted for building two dwellings. Plans at 231 Sherbourne street.—Rev. Mr. Anger proposes to build a residence next spring.—In his fortnightly report presented last week the city engineer recommended sewage disposal works for the proposed sewers in the Indian road district to cost about \$5,000. He also recommended the construction of the following works: 18-inch and 15-inch tile pipe sewer for Indian road, from Lake Shore road to Garden avenue, cost \$1,801; 15-inch tile pipe sewer for Indian road, from Garden avenue to Cherry avenue, cost \$2,003; 12 inch tile sewer on Cherry street, from Indian road to eastern boundary of High Park, cost \$1,834; 12-inch tile pipe sewer in High Park, from Cherry street to Fermanagh avenue, cost \$1,252; 9-inch tile pipe sewer on Indian road, from Cherry street to Fermanagh avenue, cost \$943; 9-inch tile pipe sewer on Fermanagh avenue, from Roncesvalles avenue to Indian road, cost \$1,505; 9-inch tile pipe sewer on Fermanagh avenue, from Indian road to ten feet west of eastern boundary of High Park, cost \$1,150; cement concrete walks on north side of Elm street, from Yonge street to Teraulay, cost \$719; north side Elm street, from Teraulay to Centre avenue, cost \$494; south side Gerrard street, from Parliament to Sumach, cost \$1,462; north side King street, from Bathurst to Niagara street, cost \$1,336; south side King street, from Bathurst to Niagara street, cost \$1,229; Queen street, from Grant street to DeGrasse street, cost \$1,300; north side Queen street, from Lansdowne avenue to a point 782 feet east, cost \$344; north side Queen street, from point 46 feet east of Dundas street to Euclid avenue, cost \$8,560; east side Huron street, from Prince Arthur avenue to Lowther avenue, cost \$365; west side Spadina Place, from Cecil street to a point 214 feet north, cost \$299.—Building permits have been granted as follows: Dr. A. A. Macdonald, two-storey addition to residence, 180 Simcoe street, cost \$16,000; A. M. Campbell, two-storey stone and brick dwelling on Grenville street, cost \$3,500; Wm. Davies Company, brick addition to office, 521 Front street east, cost \$4,200; Hobson Dunkley, two-storey brick residence, 120 Lansdowne avenue, cost \$2,000; Mrs. Margaret Dunkley, two-storey brick dwelling, 148 Lansdowne avenue, cost \$1,600; J. H. & E. P. Pearson, brick dwelling and store, 2-4 Louisa street, cost \$1,800; J. M. Kelgore, two-storey brick dwelling, 33-35 Cowan avenue, cost \$4,000; Wm. Davies Company, two-storey brick stable and a one-storey wagon shed, Eastern avenue and Walter street, cost \$16,000; F. B. Poucher, pair two-storey brick dwellings, Huxley street, cost \$5,000; A. McCurdy and W. E. Meredith, pair of brick dwellings on Dovercourt road, near College street, cost \$5,000.

#### FIRES.

Warehouse of the Sault Ste. Marie Pulp & Paper Co. at Sault Ste. Marie, Ont.—Residence of Chas. King in East Zorra, Ont.—Residence of Dexter Adams, at Carling, Ont.

#### CONTRACTS AWARDED.

NEWMARKET, ONT.—Extension of power house. A. Hunter, contractor.

SAULT STE. MARIE, ONT.—West end canal mission: J. H. Fisher, contractor; cost about \$2,000.

CHARLOTTETOWN, P. E. I.—Large building on Apothecaries Hall site: Lowe Bros., contractors.

ST. CATHARINES, ONT.—W Carson, of this city, is said to be the successful tenderer for new drill shed here.

DRAYTON, ONT.—Residence for Robt. Waters: Masonry and brickwork, Harry Shueck; carpenter work, Robt. Slummon.

ORMSTOWN, QUE.—Repairing Presbyterian church: R. C. Crawford, of Huntingdon, successful tenderer, at \$950.

MONTREAL, QUE.—The Catholic School Commissioners have accepted the tender of the City and District Savings Bank for the purchase of \$100,000 of bonds; price, 104½.

SYDNEY, C. B.—Contracts for sewer construction have been let to M. G. Henginger & Co., W. Sutherland & Co., T. Cook & Co., Low & Low, and The Dominion Iron & Steel Co.

PELEE ISLAND, ONT.—The tender of Jas. Clark, of Warton, has been accepted for Pelee Island dock.—Wilson Bros., of Amherstburg, have secured contract for excavating, piling and stone work necessary in connection with new dash wheel of Big Marsh drainage system; price, \$1,470.

ST. JOHN, N.B.—The Treasury Board opened tenders last week for \$66,500 ¾ per cent. debentures, as follows: Jos. Parker & Co., Boston, 90.06 and interest; Andrew Jack, city, \$20,000 worth at 100½; Miss C. A. Olive, Carleton, \$500 at par; Jos. Bullock asked for \$10,000 worth at the highest price offered. It was decided to accept Mr. Jack's tender and to allot Mr. Bullock \$10,000 at the same price.

OTTAWA, ONT.—The following tenders were received by Carleton county council for \$15,000 of debentures: Aemilius Jarvis & Co., Toronto, \$17,770 (accepted); Central Canada Loan & Savings Co., Toronto, \$17,350; James Ballintyne, Ottawa East, \$17,100; Insey, Parker & Co., Boston, \$16,831.50; G. A. Stimson & Co., Toronto, \$16,528; Bank of Ottawa, \$16,125; John Christie, Ottawa, \$15,900; Denison, Prior & Co., Cleveland, \$15,150.—Dupuis & Chamberlain, this city, have secured contract for construction of bridge over the Riviere a la Grasse; contract price, \$8,000.—Sequin & Saborin have secured contract for completion of Mr. Langlois' houses on the Glebe property.

#### WHITEWASH.

The enduring whitewash used in all departments of the United States Government where such a preparation is needed is thus made. Take a half bushel of unslaked lime, slake it with boiling water, cover during the process to keep in steam, strain the liquid through a fine sieve or strainer, and add to it a peck of salt, previously dissolved by soaking in warm water; three pounds of ground rice boiled to a thin paste and stirred in while hot; half a pound Spanish whiting and one pound of glue, previously dissolved by soaking in cold water, and then hanging over in a small pot hung in a larger one filled with water. Add five gallons of hot water to the mixture, stir well and let it stand a few days covered from dirt. It should be applied hot, for which purpose it can be kept in a portable furnace. The east end of the president's house in Washington is embellished by this brilliant whitewash, and it is used by the government to whitewash lighthouses. A pint of this mixture, if properly applied, will cover a square yard, and will be almost as serviceable as paint for wood, brick or stone, and is much cheaper than the cheapest paint.

Flook & Babcock, contractors, Chatham, Ont., have dissolved partnership.

**PASSING OF AIR THROUGH CEMENT WORK.**

So far, there are but few records of the exact porousness which would admit of air passing through or absorption by capillary actions of different cement and lime mortars. One of the most noteworthy, which is determined by careful tests, was made by Professor Lang, who made examinations of different artificial building blocks, mortars and cements, both in their dry and wet condition, of which the following table shows the proportion of air passing through different materials at ordinary pressure or exposure :

Materials.	Dry	Wet
Lime mortar . . . . .	1.00	0.07
Portland cement mortar . . . . .	0.15	0.00
Portland cement concrete . . . . .	0.40	0.00

The above shows that there is no communication of air through wet cement work of any kind, under natural, ordinary conditions as occurring in general buildings. In the dry state, cements have about 1-7 the porosity of common lime mortars.

It is estimated that with the density and nonaffinity for air the ability for drying out or evaporation of moisture from cement work is also lessened, which goes forward comparatively speedy in lime mortars.

**LIGHTNING MOST DANGEROUS IN THE COUNTRY.**

PEOPLE are afraid of lightning, perhaps to an extent disproportioned to its disastrous effects on human life. The Weather Bureau of the United States has been collecting statistics as to persons killed and property burned by lightning stroke. According to these, 312 inhabitants of that country, on an average, are struck by lightning each year. Twenty-five hundred were struck during the last nine years. Farmers suffered most, probably because of their exposed occupation, for the danger from lightning is found to be four times as great in the country as in the cities. January naturally is the least dangerous month, and July is the most dangerous—123 persons were killed in July, 1893. During the eight years ending with 1897, 7,558 buildings, valued at \$17,672,772, were destroyed in the United States by lightning; 4,891 of these were barns. Comparatively few churches were struck. In 1898 buildings valued at \$1,441,880 were destroyed. New York State headed the list with 395. There were no disastrous strokes in Idaho, Arizona, California, Oregon, Nevada, or Utah.

It will be observed that almost two-thirds of the buildings struck were barns. Lightning is attracted towards them because after harvest their contents of hay or grain cause a vapor to arise which serves as a sort of conduit for the electric fluid. Better ventilation would, in a measure, cure this. In the same year 1,842 animals, valued at \$48,000, were killed in the United States by 710 strokes of lightning. This mortality was unequally divided among cattle, horses, mules, pigs and sheep, whole flocks of the latter being killed by single volts.

There is no means of finding out the exact number of trees struck, but it is interesting to learn that the list of liability is headed by the oaks. Firs, beeches, pines, larches, ash and birch trees are most liable to be struck in the order named, on account of their conducting qualities.

**STAINING LIGHT WOODS.**

The employment of alkaline manganates for imparting to light woods in furniture and floors an attractive, uniform and durable walnut brown is useful. The action depends upon the decomposition of salt in the pores of the wood, with the separation in them of very finely divided brown hydrate peroxide of manganese, and an addition of magnesium sulphate to the solution is found to hasten the reaction. In practice the following method is said to be successful: Equal parts of manganate of soda and crystallized epsom salts are dissolved in twenty to thirty times the amount of water, at about 144 degrees, and the planed wood is then brushed with the solution; the less the water employed the darker the stain, and the hotter the solution the deeper it will penetrate. When thoroughly dry, and after the operation has been repeated if necessary, the furniture is smoothed with oil and finally polished, the appearance being then really beautiful. Before smoothing, however, a careful washing with hot water will have the effect of preventing the efflorescence of the sulphate of soda formed. In the treatment of floors, the solution may be employed boiling hot, and if the shade produced is not dark enough, a second application of a less concentrated solution is made; after it is quite dry it is varnished with a perfectly colourless oil varnish. On account of the depth to which the colouring solution penetrates, a fresh application is not soon required.

**THE LUMINOUS PALACE.**

The Luminous Palace, which, according to a late issue of the Electrical World and Engineer, is a feature of the Paris Exposition, is thus described by our contemporary.

This building possesses considerable architectural merit, and is attractive by day as well as by night, although its night appearance is its chief glory. Large masses of glass in the rough are incorporated in the walls of the building, so that the walls may be said to be practically constructed of that material.

The glass is very irregular in form and is used without any previous preparation or finishing. It is of a green color, the shade varying according to the thickness of the glass. The main entrance to the building is reached by two flights of wide winding stairs made entirely of glass, cut into slabs of the proper length and thickness, and of the same color as that used in the walls. Glass is used in the construction of this building wherever it is possible to use it. The interior of the building is brilliantly lighted at night by electric light, which, shining through the transparent walls, presents a beautiful and fairy-like scene as viewed from the outside. The glass in the walls being of irregular shape and thickness, has the effect of breaking the light into rays of different intensities and shades of color, which produce a charming effect. The stairways glow with a soft diffused light, the glass used in their construction having a flat, ground surface. An electric fountain is erected in front of the main

entrance, glass also being used very plentifully in its construction.

**BUSINESS NOTES.**

Evans Hardie, painter, Hamilton, Ont., has ceased business.

P. Brouillet & Co., builders, Montreal, have registered partnership.

Geo. H. Metzler has commenced business at Sydney, N.S., as painter.

Brethour, Ferrier & Company, plasterers, Montreal, have registered partnership.

S. V. Smith, contractor, Parry Sound, Ont., is announced to have assigned to Simon Cotton.

J. M. M. Duff has been appointed curator of the estate of Wood & Company, painters, Montreal.

Mrs. Emeric Byron has registered proprietress of the business of E. Byron & Company, contractors, Montreal.

Mrs. Richard Tees has registered proprietress of the business of Tees & Company, desk manufacturers, Montreal.

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Architects, engineers, municipal authorities and others are reminded that the CONTRACT RECORD is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week.

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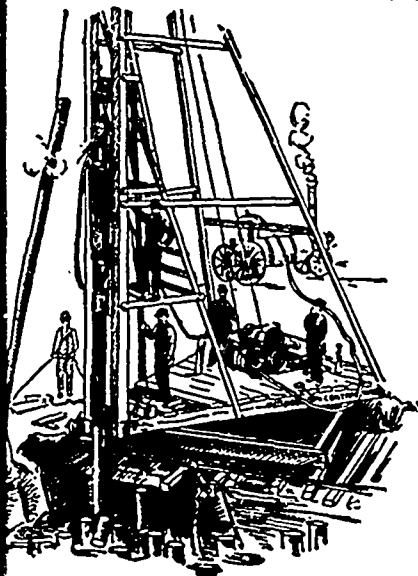
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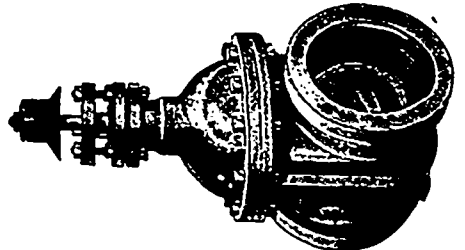
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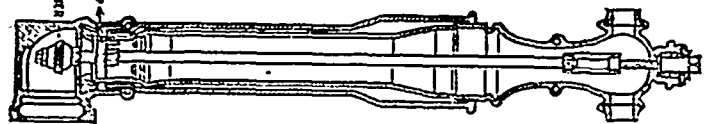
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# MUNICIPAL DEPARTMENT

## TAR MACADAM.

The United States consul at Hamilton, Ont., has made the following report to his government on the use of tar macadam for pavements:

After years of experiment, this city is laying a pavement that for excellence, durability and cheapness is commended for examination to those in charge of similar work in the United States.

The possibility of making good roads at reasonable cost has been demonstrated, and tests extending over a number of years on business streets prove that tarred macadam makes not only a smooth and solid roadway, but one that can be kept in perfect repair at nominal expense.

The first cost in this city, where limestone is abundant and near at hand, is from 70 to 86 cents per square yard; and the engineer estimates the cost of repairing on heavy traffic streets at less than 1 cent per yard per year, while asphalt costs over 3 cents.

The addition of tar renders the roadway impervious to water, frost proof in winter, and prevents mud and dust in summer. It is easily repaired and does not require scraping, thus avoiding much wearing of the surface.

One block of tar macadam laid more than a year ago on a business street, where there is heavy teaming, shows no perceptible wear to-day. In residential streets, these pavements have been in use eight years without any repairs, and are still in good condition.

The success of this method of road making depends on care in its execution as in the case of all composite work of this character, and I submit for the information of those interested, the substance of an interview with the engineer of public works, Mr. E. G. Barrow, covering details of the process in use here.

Either stone or cement curbing should be placed before beginning the roadway. Cement costs here 50 cents per lineal foot, and is six inches thick, 20 inches in depth and laid on broken stone or gravel. Corners are rounded and an iron plate imbedded for protection. On business streets stone is preferable.

An essential in road-making is a hard and compact foundation, which can be secured only by the liberal use of heavy rollers (12 to 16 tons), while the base is being prepared.

The grade and camber should be so designed as to carry water off the surface quickly, and all earth above the sub-grade

should be removed so as to conform to its level—12 inches below the natural surface—which sub-grade should be thoroughly rolled and soft spots filled with stone.

The foundation must be compact, a solid bed of stones not less than six inches in thickness. If the soil is of a spongy nature, large flat stones are preferred. All interstices should be filled with small stone and gravel, well rolled in. Over this a coating of gravel should be rolled hard, and then a layer of tar-saturated stone, not exceeding 2 inches in diameter. These stones before being mixed with boiling tar (8 to 12 imperial gallons to the cubic yard), must be thoroughly dried, either in the summer sun, or by exposure on heated plates, until all moisture is expelled.

After thorough rolling another strata of tarred stone of the same dimensions and thickness is added, rolled, and covered with a layer of gravel and quarry chips, also mixed with tar, one inch in thickness, to be rolled down from three-fourths to one-half an inch. A top dressing of screenings is then added, and if a light color is desired, it may be obtained by adding cement.

Most of the stone used here is machine-crushed, but during the winter season is broken by hand labor and paid for per cord, to furnish employment in lieu of alms to the needy.

Limestone is used, because it is abundant, but granite or flint stone would absorb less tar and stand more pressure and wear.

## AN ASPHALT BREAKER.

A novel use for a pile-driver has been found in Brooklyn, where one of these appliances is being used for breaking up asphalt pavements. The pile-driver frame is about 15 feet high, and is mounted on a heavy cart, which also carries a little hoisting engine used to lift the ram. The latter weighs about 15 cwt., and has a chisel edge at the bottom about 14 inches long. At every few blows of the ram the cart is dragged along a foot or so, and after the cart has covered a sufficient length of pavement a gang is put on the work to complete by hand the breaking of the surface.

Architects and engineers will be interested in knowing that you are submitting a tender as the result of the advertisement for tenders placed in the CONTRACT RECORD. Mention the fact.

Water as a fuel is claimed as his invention by A. G. Ingalls, a graduate of McGill university, Montreal, Que. He discovered a process by which it may be used so as to effect an immense saving in the consumption of coal. In fact, it may be said that water practically is the fuel and coal is merely an auxiliary. The method is such that a thin spray of water is spread over a coal flame in such a way and with such auxiliaries that the heat of the flame is wonderfully augmented. The full details of the secret are not yet made public by the inventor. The discovery, it is alleged, can be applied to gas and other flames.

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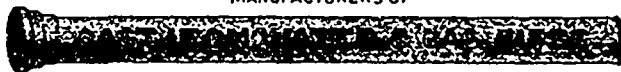
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<b>CREDIT VALLEY STONE.</b> F.O.S. quarries. Rubble, per car of 15 tons... 7 00 Brown Coursing, up to 10 in., per sup. yard..... 1 50 to 1 75 Brown Dimension, per cub. ft. 1 60 Grey Coursing, per sup. yard 1 00 Grey Dimension, per cub. ft. 45 <b>LONGFORD STONE.</b> Rubble, per 30 M. car..... 5 50 Ashlar, per cub. yd..... 2 00 Dimension, per cub. ft..... 18 <b>SLATE.</b> Toronto. Montreal. Roofing (8 square). " red..... 17 50 20 00 " purple..... 8 50 10 00 " ding green 8 50 7 00 8 00 " olack..... 7 50 6 50 Terra Cotta Tie, per sq..... 20 00 25 00 Ornamental Black Slate Roofing 8 80 6 80	<b>Toronto. Montreal.</b> <b>CUT NAILS, FENCE AND CUT SPIKES.</b> 40d, hot cut, per 100 lbs.... 2 85 2 85 10 to 12d, hot cut..... 2 95 2 95 8d, 9d, " "..... 3 00 3 00 6d, 7d, " "..... 3 15 3 15 4d to 5d, " "..... 3 25 3 25 3d, " "..... 3 50 3 50 2d, " "..... 3 85 3 85 Cut spikes, 10 cents per keg advance. Steel Nails, 10c. per keg extra. Wire nails, 3-35 base price. <b>Iron Pipe:</b> ron pipe, 3/4 inch, per 100 feet.....\$3 65 " " 3/4 " " " "..... 4 25 " " 3/4 " " " "..... 4 75 " " 2 " " " " "..... 5 71 " " 2 1/2 " " " "..... 6 00 " " 3 " " " " "..... 6 50 " " 3 1/2 " " " "..... 7 50 " " 2 " " " " "..... 13 00 <b>Lead Pipe:</b> Lead pipe, per lb..... 7c } 15 per cent. dis. Waste pipe, per lb..... 7 1/2 }
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**CEMENT, LIME, etc.**

Portland Cements -	German per ton..... 2 55 3 10 2 55 2 65
London..... 2 95 3 00 2 25 2 45	
Newcastle..... 2 70 3 00 1 95 2 10	
"Josen" Brand Portland 3 95 3 25 2 70 2 80	
"Dyckerhuch..... 3 05 3 25 2 75 2 90	
North's "Condor..... 2 95 3 10 2 65 2 80	
English, artificial, per bbl. 2 85 3 00 2 35 2 45	
Belgian, natural, per bbl. 2 50 2 75 2 00 2 20	
Canadian, artificial, " 2 85 3 00 2 60 2 70	
Roman "..... 2 20 2 25	
Parian "..... 5 25 5 25 5 75 5 75	
Keene Superfine "Whites"..... 11 00 12 00 9 00 10 00	
Keene's Coarse "Whites"..... 8 00 8 50 8 50 9 00	
Karlstadt (German)..... 3 05 3 25 2 75 2 90	
Germania (German)..... 3 05 3 25 2 75 2 90	
"Rooster" (Belgian)..... 2 15 2 20	
"Keystone" (Belgian)..... 2 05 2 20	
"Anvil" (Belgian)..... 1 95 2 05	
"Burham" (English)..... 2 95 3 00 2 25 2 45	
Hydraulic Cements -	Thorold, per bbl..... 1 50 1 60
Queenston, "..... 1 50 1 50 1 50 1 60	
Napanee, "..... 1 50 1 50	
Hull, "..... 1 50 1 50	
Ontario, "..... 1 50	
Fire Bricks, Newcastle, per M 30 00 35 00 16 00 21 00	
" Scotch 30 00 35 00 19 00 21 00	
Lime, 100 lbs., Grey..... 30	
" White..... 35 30	
Plaster, Calcined, N. B..... 2 00 1 50	
" N. S..... 2 00 1 50	
Hair, Plasterers', per bag..... 80 1 00 000	

**HARDWARE.**  
The following are the quotations to builders for nails at Toronto and Montreal:  
Cut nails, 50d & 60d, per keg 2 85 2 85  
Steel " " " 2 95 2 95