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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE PUBLIC WORKS 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. II. MAY 30, 1900 No. 17.

THE CANADIAN CONTRACT RECORD,
PUBLISHED EVERY WEDNESDAY

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

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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.

TENDERS

Sealed Tenders will be received until FRIDAY, JUNE 15TH, 1900, for all the trades necessary in the erection of a Four Roomed Public School at Sturgeon Falls, Ont.

Plans and specifications may be seen either at the Architect's office or at the Secretary's office, Sturgeon Falls.

A marked cheque for 5 per cent of the amount to accompany each tender, which will be returned to the unsuccessful tenderers as soon as tenders are opened, and to the successful contractor as soon as contract is finished.

No tender necessarily accepted.

JAMES HOLDITCH,
Secretary School Board,
Surgeon Falls, Ont.

HENRY SIMPSON, Architect,
9½ Adelaide Street East, Toronto, Ont.



TENDERS FOR STEAM BOILERS

Tenders, addressed to the undersigned, will be received, by registered letter, up to noon on

Thursday, June 7th, 1900,

for two New Steel Steam Boilers, to be supplied and erected in the Boiler House at the Machinery Hall, Exhibition Grounds.

Plans and specifications and forms of city contract may be seen and forms of tender and all necessary information obtained at the office of the Park Commissioner, City Hall, Toronto.

Tenders must be accompanied by a marked cheque, payable to the order of the City Treasurer, or a cash deposit, equal to 2½ per cent. of the total amount of the contract, and the same will be forfeited to the city in the event of the person whose tender is accepted failing to execute the necessary contract, or give satisfactory sureties for the due fulfilment of the same.

The deposits of unsuccessful tenderers will be returned.

The lowest or any tender not necessarily accepted.

E. A. MACDONALD (Mayor),
Chairman Board of Control
City Hall, Toronto, May 28th, 1900.

Tender for Brick

Sealed tenders, addressed to the undersigned, and endorsed "Tender for Brick," will be received by registered post only up till noon of

Wednesday, June 13th, 1900,

for the supply and delivery of Brick required in the construction of the Glebe Drainage System by the Corporation of the City of Ottawa.

Specifications, form of tender, and full particulars, may be obtained at the office of the City Engineer, City Hall, Ottawa.

JAMES DAVIDSON,
Chairman Board of Works.
City Engineer's Office, May 25, 1900.

Local Improvements

TOWN OF RENFREW

Sealed tenders will be received by the undersigned until 7 p.m. on FRIDAY, JUNE 8TH, 1900, for the construction of about 70,000 square feet of Concrete Sidewalk, and about 19,000 square yards of Macadam Roadway. Contractor to rent Corporation Crusher and Roller.

Plans and specifications may be seen at the office of myself, Town Clerk, Renfrew. The lowest or any tender not necessarily accepted.

A marked cheque for \$500.00 to accompany tenders, which will be forfeited in the event of a successful tenderer refusing to sign contract and go on with the work.

J. K. ROCHESTER,
Town Clerk.
Renfrew, Ont., May 25th, 1900.

TENDERS FOR BRIDGE

Sealed tenders, addressed to George Stewart, Esq., County Clerk, Peterborough, will be received up to MONDAY, JUNE 18TH, 1900, at four o'clock p.m., for the erection of a

Floating Bridge and Approaches

over Chemong Lake, Peterborough County.

Tenders received either for entire work or for separate parts thereof.

Plans, etc., may be seen at the office of J. E. Belcher, Esq., County Engineer Peterborough.

An accepted cheque for five per cent. on amount of tender up to \$10,000.00 must accompany each tender. Where tender exceeds \$ 0,000.00 two and one-half per cent. on the excess must also accompany the tender.

The lowest or any tender not necessarily accepted.

JOSEPH FORSTER,
Warden.

NOTICE TO BRIDGE BUILDERS

Sealed tenders, marked "Tender for Kemptville Bridge," for the Superstructure of a

STEEL SWING BRIDGE

over the south branch of the Rideau River, in the Village of Kemptville, Ont., will be received by the undersigned, until the arrival of the last mail on SATURDAY, JUNE 2ND, 1900.

Plans, specifications, etc., may be seen and all other information obtained at the office of the undersigned, in Carleton Place, Ont., and at the drug store of Angus Buchanan, Chairman of Bridge Committee, Kemptville, Ont.

Also sealed tenders, marked "Tender for Piers, Kemptville Bridge," for the building of a Concrete Pivot Pier and Two Abutments, for the above bridge, will be received at the same time, apply same places for information.

The lowest or any tender, in either case, not necessarily accepted.

E. T. WILKIE, C.E.,
Carleton Place, Ont.
Engineer for Village of Kemptville, Ont.



SEALED TENDERS, addressed to the undersigned, and endorsed "Tender for Drill Hall, Brockville, Ont.," will be received at this office until

Wednesday, the 13th of June,

for the construction of a Drill Hall at Brockville, Ont. Plans and specifications can be seen and form of tender and all necessary information obtained at this Department, and at the Inland Revenue Office, Post Office, Brockville.

Persons tendering are notified that tenders will not be considered unless made on the form supplied and signed with their actual signatures.

Each tender must be accompanied by an accepted bank cheque made payable to the order of the Honourable the Minister of Public Works equal to ten per cent. (10 p.c.) of the amount of the tender, which will be forfeited if the party decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

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, May 21st, 1900.

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

SEALED TENDERS, addressed to the undersigned and endorsed "Tender for Close Piling, Owen Sound, Grey, Ont.," will be received at this office until

Friday, 15th Day of June, 1900.

for the construction of Close Piling at Owen Sound, County of Grey, Ontario, according to a plan and a specification to be seen at the office of H. A. Gray, Esq., Resident Engineer Confederation Life Building, Toronto, Ont.; on application to the Custom House Officer at Owen Sound, 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 bank cheque, payable to the order of the Minister of Public Works, for three thousand dollars (\$3,000.00), 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, May 23rd, 1900.

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

TO CONTRACTORS

Tenders, addressed to the undersigned, will be received until JULY THE 1st PROXIMO for the Plastering, Steam Heating, Painting, Galvanized Iron Work, and the Electric Lighting of the Roman Catholic Church of this town. The above tenders may be made either jointly or separately, and bondsmen will be required in every case. Plans and specifications will be found at the R. C. Presbytery or at the office of Thomas Hanly, Architect, Belleville, Ont.

THOMAS DAVIS, Pastor.

Perth, Ont., May 22nd, 1900.

CONTRACTS OPEN.

BLUEVALE, ONT.—A. Ross will build a new residence this summer.

BRANTFORD, ONT.—C. L. Smith purposes building two residences.

BEAVERTON, ONT.—Alex. McRae is preparing to build a brick residence.

WINDSOR, ONT.—A pavement will be constructed on Sandwich street east.

WALKERTON, ONT.—There is an agitation in favor of granolithic walks.

WESTON, ONT.—A manse for the Presbyterian church will probably be built.

FAIRVIEW, B. C.—A site has been acquired for proposed Episcopal church.

WATERLOO, ONT.—The corporation is taking tenders for laying water mains.

SHAWNIGAN LAKE, B. C.—The Hotel Strathcona, burned recently, will be rebuilt.

PALMERSTON, ONT.—The council is considering the question of laying granolithic walks.

CHARLOTTETOWN, P. E. I.—Robert Palmer is about to erect a residence on the Brecken lot.

WHITBY, ONT.—A committee has been appointed by the council to obtain plans for a water supply.

PORT ELMSLEY, ONT.—Tenders closed June 2nd for building Anglican church. Address Alfred Moore.

PORT PERRY, ONT.—The council has taken steps looking to the construction of granolithic pavements.

NIAGARA FALLS, ONT.—The enlargement of the reservoir is under consideration; estimated cost, \$9,000.

ESSEX, ONT.—Laing, Ritchie & Co. have purchased property on which they will build a saw and stave mill.

MEAFORD, ONT.—The Botsford-Jenks Co., of Port Huron Mich., are about to commence work on elevator here.

WELLAND, ONT.—J. A. Ellis, architect, of Toronto, has been commissioned to prepare plans for a new town hall.

WALKERTON, ONT.—The farmers propose to start a binder twine factory here. James Tolton is acting as secretary.

ST. JOHN, N. B.—The Baptists of the Tabernacle church will erect a new house of worship at foot of Waterloo street.

SIDNEY, MAN.—John McElrea will build a store and public hall, 32 x 80 feet, two storeys and basement, cost of \$4,000.

NELSON, B. C.—The C. P. R. will proceed at once to erect new building here and rearrange its yards, at cost \$70,000.

MORDEN, MAN.—H. S. Griffith, architect, of Winnipeg, is drawing plans for a residence for P. C. Heckels, of this place.

ALMONTE, ONT.—The by-law to raise \$50,000 for waterworks purposes will be submitted to the ratepayers on June 29th.

ST. ANDREWS, N. B.—The McGill property has been purchased by Edward Odell, who will erect a residence thereon.

RAT PORTAGE, ONT.—T. S. Alexander is negotiating for the purchase of a site on Peter street on which to erect a residence.

DESERONTO, ONT.—A committee of the council has recommended the exten-

sion of water mains and the fire alarm system.

UXBRIDGE, ONT.—The by-law to raise \$4,000 for new town hall was defeated by the ratepayers on Monday last.

ST. JOHNS, QUE.—Saulnier & Balcer purpose enlarging their hat factory, and have been granted a bonus by the town of \$6,000.

WESTBOURNE, MAN.—The Episcopal congregation will build a stone church, from plans by H. S. Griffith, architect, of Winnipeg.

HARRISTON, ONT.—A by-law will be submitted to the ratepayers to loan \$11,000 to R. Dowling for building a furniture factory.

PORT DALHOUSIE, ONT.—The by-law to grant a bonus of \$6,500 to the Toronto Rubber Shoe Co. was carried by the ratepayers last week.

CHATHAM, ONT.—The Wm. Grey & Sons Co. are taking tenders this week for additions to their factory. Plans by T. J. Rutley, architect.

MELITA, MAN.—John Crerar will build a new store and residence, to cost \$4,000, from plans by W. H. Shillinglaw, architect, Brandon.

DURHAM, ONT.—The new McIntyre block will be 53 x 126 feet, containing six stores and a dwelling. The contract will be let immediately.

STONEWALL, MAN.—Dr. A. N. McLeod will build a new residence, to cost \$2,000; heating, etc. Plans by W. H. Shillinglaw, Brandon.

WOODSTOCK, ONT.—The promoters of the electric railway between this town and Ingersoll expect to commence work in about two weeks.

SEAFORTH, ONT.—Mr. McNab, C. E., has been taking levels for granolithic walks. He will also make a plan of the town for sewerage purposes.

COLLINGWOOD, ONT.—F. T. Hodgson, architect, is preparing plans for a store to be built by W. A. Hamilton. Mr. Boone intends building a new scow.

MONCTON, N. B.—The Intercolonial Railway management wants tenders by June 5th for grading and track-laying at Sydney and North Sydney Junction.

LANGFORD, ONT.—Tenders are wanted by June 16th for putting in cement floor in basement of school house in S. S. No. 20. Particulars from J. T. Ludlow.

SHERBROOKE, QUE.—Contracts are being let this week for the new St. Peter's church.—The movement for a new opera house is making satisfactory progress.

WINDSOR MILLS, QUE.—The ratepayers voted on a by-law last week to raise \$40,000 for sewerage and fire protection purposes. Result not learned.

BEDFORD, QUE.—The vestry of St. James' church have decided to proceed at once with the erection of a parochial hall. H. A. Best is one of the committee.

ST. JEROME, QUE.—The corporation desires tenders by June 7th for completion of the waterworks of the town. Particulars from E. Marchand, secretary-treasurer.

GUELPH, ONT.—The Raymond Co. expect to commence work on a new building this year.—The G. T. R. will likely commence the erection of a new station here at an early date.

BERLIN, ONT.—Tenders are asked for lighting the town with 80 arc electric lights.—Adam Wahl has purchased land on Courtland avenue and purposes erecting a residence.

GRAND FORKS, B. C.—Dr. Averil has submitted a proposition to the management of the Pathfinder mine for the erection of a 50-ton smelter on that property.—The Presbyterians will erect a church shortly.

HALIFAX, N. S.—The Port Hood Coal Co. wants tenders for supply of 70,000 lineal feet of spruce or hemlock wharf logs and 43,000 lineal feet of spruce or hemlock ballast floor logs.

MURRAY BAY, QUE.—The Labrador Electric and Pulp Co. are said to have decided to build a large pulp mill here. R. Prefontaine, Mayor of Montreal, is president of the company.

WIARTON, ONT.—A by-law to raise \$15,000 as a bonus to J. C. Siemon to establish a wooden table factory here, was submitted to the ratepayers yesterday. Result not learned.

RUSSELL, ONT.—Tenders are invited up to Monday, June 11th, for construction of bridge over the Castor river, on county line between Carlton and Russell. Particulars from A. Carson, this place.

LEVIS, QUE.—The projected improvements in connection with the Intercolonial Railway, this place, will be commenced at an early date. A new station will be built, also extensive wharves.

VICTORIA, B. C.—John Hepburn has broken ground for a two-storey and basement building on Cormorant street, and will also erect a two-storey brick structure to replace the old Prince of Wales building.

MORRISBURG, ONT.—A by-law authorizing the corporation to acquire water privileges and construct electric light and power works was carried on Monday last. Debentures will be issued to raise the necessary funds.

CORNWALL CENTRE, ONT.—John Mullin, clerk Cornwall township, invites tenders up to Monday, June 11th, for construction of Beaver creek drain, cost \$5,655.20. Plans by F. D. McNaughton, engineer, Cornwall.

BARRIE, ONT.—A committee has been appointed by the council to employ an engineer to supervise the waterworks extension to ward 6.—The Board of Works has recommended the construction of several granolithic walks.

BATHURST, N. B.—The lowest tender for building new court house was \$29,300, but the lawsuit pending against the county is likely to prevent building operations immediately, and it is probable that new tenders will be asked for.

PARRY SOUND, ONT.—Three tenders were received for iron bridge, the lowest being \$3,050 for superstructure alone. The contract has not yet been let.—It is probable that new tenders will be invited for building Presbyterian church.

OWEN SOUND, ONT.—The Grey & Bruce Portland Cement Co. held its annual meeting recently, at which it was decided to proceed with operations as quickly as possible. James McLauchlan, of this place, is president of the company.

VANCOUVER, B. C.—It is expected that the Stave Lake Power Co. will shortly commence work in connection with proposed power plant at Stave Lake falls.—The British Columbia Electric Railway Co. contemplate making further improvements to their system, and will likely install additional plant.

ROSSLAND, B. C.—Wm. Henderson, surveyor for the Dominion Government, has been laying out the site for the Government building to be built here, for which plans will be prepared immediately.—It is reported that the C. P. R. will shortly commence some extensive building operations at this place.—Bids for purchase of \$25,000 corporation debentures will be received by Wm. McQueen, city clerk, up to June 19th.

GALT, ONT.—An electrical engineer has been engaged to value the plant of the Galt Gas Light Co.—The Robertson-Taylor Manufacturing Co. have made a proposition to the town to enlarge their premises by an addition 80 x 40 feet, cost \$4,000.

—Waterworks extension will be made on several streets.—W. T. Jennings, C. E., of Toronto, will likely be engaged to report on the necessary flood protection works here.

HULL, QUE.—Tenders are asked up to June 2nd for construction of Christian Brothers' school for boys, estimated cost, \$20,000.—Ground has been broken on Main street for the new Bank of Ottawa building, which will be three stories, pressed brick with sandstone trimmings, cost \$10,000.—At next meeting of city council the question of rebuilding the city hall, fire station and police station will be discussed.—Dr. Graham will rebuild his private residence and business blocks.

QUEBEC, QUE.—Mr. Resther, architect, of Montreal, has prepared plans for the new theatre to be built on the site of the old Academy of Music, St. Louis street.—The parish of Limoulou is agitating for the construction of a bridge connecting the city.—David Ouellet, architect, will call for tenders in about a fortnight for the erection of a church at St. Honori de Strealy (Beauce) and for the inside work of a church at St. Odilon de Cranborn (Beauce).

BRANDON, MAN.—Western Agricultural and Arts Association is calling for tenders for new wing to main exhibition building, extension to grand stand and other improvements.—Adams Bros. will make improvements to terrace, to include extension, plumbing, heating, etc.—Tenders are now being called for new isolated hospital building for Brandon General Hospital, to be in by June 4th. Building will be heated by steam; plumbing, etc.; estimated cost \$6,000. W. H. Shillinglaw, architect.—The corporation purposes issuing debentures.

MONTREAL, QUE.—L. O. David, city clerk, invites tenders up to Thursday, 31st inst., for repairs to Trinidad asphalt pavement on St. James street, from Notre Dame to Magill streets, and on Notre Dame street from Berri to Magill street, also for construction of main sewer on Belanger, St. Hubert, and St. Zotique streets. Mr. David also wants tenders by June 8th for paving with asphalt and granite blocks part of Craig street, from Bleury to St. Alexander streets.—Chas. Dooley, manager of the Montreal baseball club, with others, intends building a new theatre and club house at Maison-neuve.

LONDON, ONT.—The Presbyterian synod of Hamilton and London have decided that the new church will be built at the Botany post office site.—G. Craddock, architect, asks bids up to June 2nd for erection of additions and alterations to Women's Refuge and Children's Home on St. James street.—H. C. McBride, architect, wants bids by June 2nd for erection of three brick residences.—James Grant invites tenders up to June 4th for construction of two concrete abutments for bridge over the north branch of the river Thames.—A permit has been issued to H. C. McBride, architect, for a stone residence for Andrew Durand.—A committee of the council recently returned from Hamilton and Toronto, where they made an inspection of the various classes of pavement in use.

WINNIPEG, MAN.—Wm. Dodd, architect, has prepared plans for a business block to be built at Calgary for Senator Loughheed.—The provincial government will likely build a new library, to cost \$50,000.—J. H. G. Russell, architect, is calling for tenders for building for Girls' Home of Welcome. Tenders close May 31st.—The Ogilvie Milling Co. have decided to build elevators at the following points: Rathwell, Treherne, Pierson, Melbourne, Crandel, Poplar Point, Elm Creek, Indian Head, Dominion City, Carrol, and Findlay.—The Great West Cold Storage & Provision Co. intend building storage warehouses here and at Vancouver.—H. S.

Griffith, architect, has prepared plans for a large main exhibition building at Island Park, also for the following: Residence for Mr. Stacey; three storey pressed brick block on McDermot avenue for R. Leckie; residence on Edmonton street for Mr. Crosthwaite, cost \$3,500, block on Lombard street for W. F. Alloway, terrace of four houses for Mr. Arbutnot, and residence on Main street for Mr. McCready.—Joseph Greenfield, architect, is this week taking tenders for alterations to 467 Main street for the Confederation Life Association.—A building for the exhibits from British Columbia will be erected on the exhibition grounds of this city.

OTTAWA, ONT.—G. M. Bayly, architect, invites tenders for erection of building for J. L. Rochester & Co.—Wm York, whose grocery store at the corner of Bridge and Queen street was burned by the recent fire, has decided not to rebuild.—The city invites tenders until Thursday, June 14th, for purchase of \$245,863.59, 3½ per cent. debentures. Address Napoleon Champagne, chairman finance committee.—The Department of Railways and Canals has taken tenders for construction of glance boom and piers above the five dams on the river below Lakefield, on the Peterborough and Lakefield branch of the Trent canal.—The estimated cost of cement walks already petitioned for this year is \$11,349.61.—The Ottawa Foundry Co. will shortly commence the erection of a foundry on Catharine street.—Building permits have been granted as follows: A. Armstrong, stone and brick workshop on Duke street, cost \$1,700; Thos. Mofatt, brick veneer dwelling on Somerset street, \$1,700; John Cardiff, two semi-detached dwellings on Division street, \$1,200; George Franklin, four brick veneer dwellings on Wellington street, \$3,000; D. Provost, brick veneer hotel on Broad street, east side, \$3,000; P. D. Dakin, brick veneered dwelling, south side Poplar street, cost \$900; Alfred Bourgoin, brick veneered dwelling, west side Division street, cost \$2,000; S. W. Johnson, brick veneered dwelling, east side Rochester street, cost \$1,400; Dominion Transport Company, brick building, Sherwood street, cost \$5,000; Fraser & Hamilton, sash and door factory, iron clad, Rochester street, cost \$1,500.—G. M. Bayley, architect, invites tenders up to Thursday of this week for erection of office building for the Upper Ottawa Improvement Co.—The Separate School Board have decided upon plans for addition to St. Joseph School, to cost \$2,800.

TORONTO, ONT.—Tenders are wanted at the office of A. R. Dennison, architect, up to June 5th, for erection of brick house.—John Holmes, 222 Carlton street, has invited bulk tenders for completion of attic at 99 Crescent road.—The city has given notice of its intention to construct a brick pavement on Wilton avenue, Parliament to Sherbourne streets, cost \$10,880, and a cement concrete sidewalk on Euclid avenue, both sides, College to Ulster, cost \$2,423.—The Toronto Railway Co. is expected to extend their road to Oakville in the near future.—The Property Committee of the City Council has again recommended the purchase of the Athletic club property on College street for the purposes of a Technical school. An offer has been submitted for a part of this property by W. E. H. Massey and others, who, it is said, have in view the erection of a building for the Milk Trust.—In connection with the proposed extension of the street car service into east Rosedale, the building of a bridge at the head of Parliament street, at a cost of \$10,000, has been suggested.—The city invites tenders up to June 6th for supply of 2,500 feet of 2½ inch and 1,000 feet of 2 inch fire hose.—Building permits have been granted as follows: B. E. Bull, residence on St. George street, near Bernard avenue, cost \$7,500.—T.

Eaton Co., five storey building, 7 to 19 Louisa street, cost \$40,000.—Toronto Railway Co., one storey car shed on St. Lawrence street, cost \$6,000.—King Bros., four brick buildings on Avenue Road, near Yorkville avenue, cost \$10,000.—The Wm. Davies Co. purpose building an addition to their factory.—Two steam boilers will be purchased for the machinery hall on the exhibition grounds, for which tenders close June 7th. Plans at the office of Park Commissioner.—A. E. Crake has purchased property on Davisville avenue, North Toronto, and intends erecting a residence.—A sub-committee of the Public School Board will recommend the purchase of a piece of land on north side of Withrow avenue, between Broadview and Logan avenue, for a site for new school.—The council has authorized the issue of debentures for \$19,300 for the furnishing of the Public School Board offices, and \$18,000 for improvements to the Sunlight Soap Co.'s works.—A by-law will be submitted to the rate-payers to raise \$199,000 for erection of new buildings in exhibition grounds.

FIRES.

Gananoque Harness Works at Gananoque, Ont., damaged to the extent of \$5,000.—Warehouse of Tellier, Rothwell & Co., St. Dixien street, Montreal, totally destroyed; loss \$30,000.—Victor flour mill at Markdale, Ont., owned by Angus Plews; loss \$10,000, partially insured.—Twenty-six dwellings and several other buildings at Point Claire, Que., were destroyed by fire last week.

CONTRACTS AWARDED.

BRANDON, MAN.—Contract for A. B. McLeod's residence has been let to John Forbes.

VICTORIA, B.C.—A. Carter is erecting a brick and stone building on Dupont street for a Chinese merchant.

VANCOUVER, B.C.—The city has let the contract for construction of sewers to Dixon & Cook. Evans, Coleman & Evans will supply the pipe.

FREDERICTON, N.B.—Science building for University of New Brunswick: Robert Maxwell, of St. John, successful tenderer.

LONDON, ONT.—For construction of sewer on Hellmuth avenue and Waterloo street, the tender of Benj. Johnston has been accepted, at price of \$3,960 and 25 cents for side drains.

TORONTO, ONT.—For supply of bricks the city has accepted the tender of Joseph Russell, at \$8.25 per thousand west of Yonge street, and \$7.75 east of Yonge street.

KINGSTON, ONT.—Alterations to I. O. O. F. hall: Carpentering, John King; masonry, Watson & Morley; plumbing, Simmons Bros.; painting, T. F. Milo. Arthur Ellis is the architect.

BERLIN, ONT.—The following tenders were received for purchase of \$18,279.62 local improvement debentures: Central Canada Loan and Savings Co., Toronto, \$18,876; G. W. Wood & Son, Toronto,



Cor. King and Victoria Sts., TORONTO

Highest Market Prices Paid for



F. W. BAILLIE,
Secretary.

E. R. WOOD
Managing Director.

\$18,861; H. O'Hara & Son, Toronto, \$18,849.40. The tender of the Central Canada Co. was accepted.

WINDSOR, ONT.—Pressed brick residence for Andrew Anderson. B. Brooks, contractor.—Concrete sidewalks: P. L. Marden & Co., of London, successful tenderers, at 9½ cents per foot.

GUELPH, ONT.—Contracts for improvements to St. Andrew's church have been let as follows: Slating, George Brown & Co., Brantford; painting, W. Scrivens; pointing stone work, H. Benallik.

WINNIPEG, MAN.—Block for Stovel Co.: C. H. Simpson & Co., general contractor; D. D. Wood, sub-contractor for masonry. Building will be brick and stone, four stories, cost \$40,000.

QUEBEC, QUE.—A contract has been awarded to Joseph St. Hilaire, of St. Roumald, for the erection of a stone church at St. Vallier (Bellechasse), value \$23,000; David Ouellet, architect.

OTTAWA, ONT.—The government has let the contract for the new militia stores building to Bourque & Lemoine. Building will be stone and brick, 130x75 feet, with wing 30x40 feet, cost \$50,000.

HAMILTON, ONT.—The Sawyer-Massey Co. have just shipped stone crushing plants to the corporations of Walkerton, Chesley and Woodstock, Ont., Newcastle, N.B., and township of Mountain, Ont. A five-ton road roller also was shipped to Chesley.

ST. JOHN, N.B.—For erection of Portland street engine house tenders were submitted as follows: Andrew Myles, brick, \$2,120, and for wood \$2,280, for carpenter work only; J. S. & R. A. Corbett, brick, \$3,150, and for wood, \$2,780. Tenders for the mason work

only were submitted by Messrs. Corbett as follows: For the brick building, \$1,430, and for the wooden, \$550; Sproule & Burley, for the brick building, \$1,465, and for the wooden building, \$575. The tender of J. S. & R. A. Corbett for a brick building has been accepted.

SMITH'S FALLS, ONT.—For construction of sections of waterworks and sewerage system bulk tenders were submitted as follows: Martineau, Sons & Co., Montreal, \$77,957; A. J. Brown, Toronto, \$81,682; Jos. E. McCaffry, Iroquois, \$75,000; Clark & Connolly, Toronto, \$80,208; Cawsey & Young, Stratford, \$76,259.92. Separate bids were also taken. The contract for sections 3 and 6 was awarded to Cawsey & Young, Stratford, at \$25,387.39, and that for sections 3 and 5 to Clark & Connolly, of Toronto, at \$50,509.

NEW CEMENT COMPANY.

The Canadian Portland Cement Company, Limited, has been incorporated under the laws of Ontario. The capital stock is \$1,500,000. The company has been organized to take over the cement business carried on by the Rathbun Company at Napanee Mills and Marlbank, Ont.; the Beaver Portland Cement Company at Marlbank, Ont., and the St. Lawrence Portland Cement Company at Montreal. The brands turned out by these companies already have a strong standing in the market, and have been accepted and largely used by the Dominion Government, the big Canadian railways, etc. There is a large and con-

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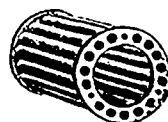
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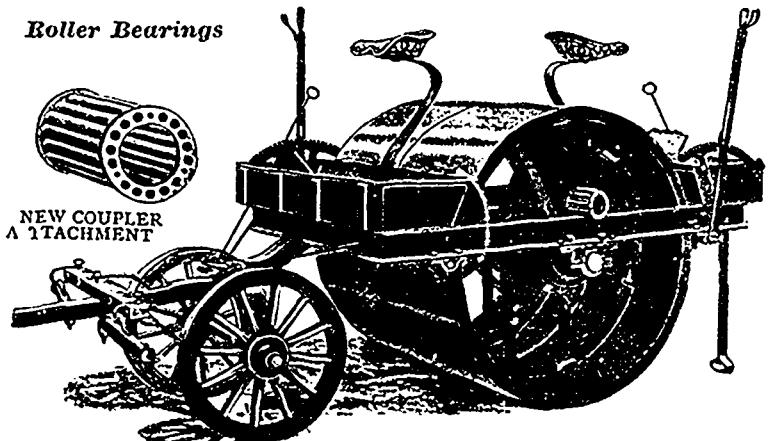
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stantly increasing market for the products of the company, the imports of Portland cement into Canada during the last fiscal year amounting to no less than one and a half million hundredweight. The new company has a strong board to direct its affairs. The president is Mr. E. W. Rathbun, president of the Rathbun Company, Deseronto; and the managing director, Mr. F. G. B. Allan, manager of the Rathbun cement works, Napanee Mills, whose success has demonstrated his ability to handle even as large an enterprise as the new company. The board is made up of the following well known gentlemen: James Dobson, Philadelphia; C. A. Masten, Toronto; B. B. Osler, Toronto; M. J. Haney, Toronto; W. D. Matthews, Toronto; E. W. Rathbun, Deseronto, and C. J. Webb, Philadelphia.

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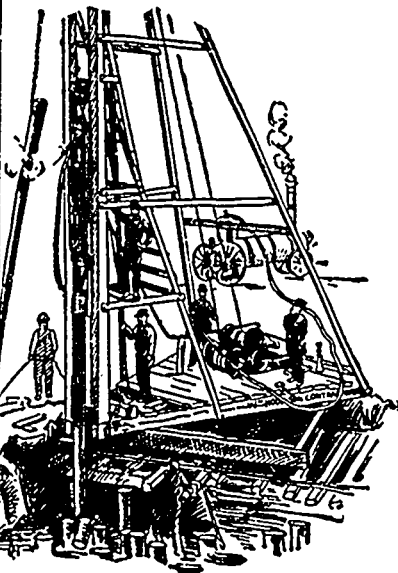
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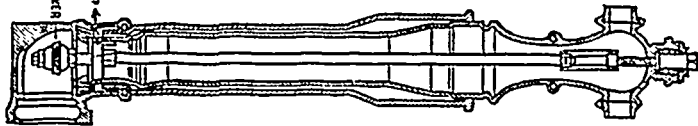
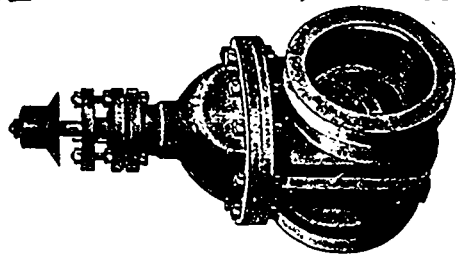
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CEMENT-CONCRETE CULVERTS*

(Continued from last issue.)

It is a natural inference to suppose that a rough, irregular surface will secure greater adhesion than one that is smooth. However that may be, there is little reason to doubt that gravel will make a good concrete. But there is a right and a wrong way of using gravel. It is not uncommon to find cement and gravel just as it is taken from the pit, mixed to form a concrete. Remembering the proper composition of a concrete, and placing beside this the fact that gravel usually contains sand, but not in any definite proportions, that some pockets of "gravel" may be almost completely sand, while in the layers adjoining there may be little if any sand, it will be readily understood why it is that, in some cases, concrete mixed in this way may be successful, yet it will always be uncertain and hazardous. The only safe method is to separate the stone and sand composing the gravel by screening, then to mix cement, sand and stone uniformly and in their right proportions.

A cause of poor concrete is the excessive amount of water used when mixing. The tendency very often is to bring concrete to the same consistency as common mortar, a very great mistake. Concrete when ready to be placed in the work should have the appearance of freshly dug earth. Where an excessive amount of water is used, the hardened concrete will have an open, spongy texture. The concrete should be mixed close to the work in a box which is sometimes specified as watertight, but the concrete will quickly make it so. It should be mixed in just such quantity as is required, and a constant stream kept passing to the work. It should be laid in layers, and each layer thoroughly rammed until moisture appears on the surface.

It is very necessary to see that the sand and stone used in making the concrete are clean, that is, free from clay, loam, vegetable or other matter which will act as an adulterant, and result in a weak and friable concrete. If such matter is intermixed with the stone it is well to flush it away with a good stream of water. Large stone used in rubble concrete should also be treated in this way. Indeed, it is well, particularly in hot weather, to dampen the stone before mixing it with the mortar. The stone in hot weather causes the moisture to evaporate, with the result that it sets too quickly; and at times there is

*From a paper read by A. W. Campbell, C. E., Ontario Good Roads Commissioner, before the Association of Ontario Land Surveyors.

more or less absorption from the mortar in immediate contact with the stone, unless the stone, as intimated, has been previously dampened.

When the work ceases for the day, or is for other reasons interrupted, the surface should be damp until work is resumed. When work is in progress in hot weather, any exposed surfaces should be kept damp and protected from the rays of the sun; otherwise the surface will, in setting too rapidly, be interlaced with hair-like cracks, which, filling with water in winter, and freezing, will cause the surface to scale off. The same scaling results from laying concrete in frosty weather.

Arch culverts of masonry or concrete fail frequently from settlement, caused by an insecure foundation.

The one element in the construction of concrete work which presents a real difficulty is the uncertainty with regard to the quality of cement. The means of perform-

ing complete tests are not within the reach of small municipalities and they are dependent upon the good reputation of the brand employed. Different batches of cement of the same brand differ, as we know, in quality, and sometimes very much to the disadvantage of the user. A brand may be, in general, good, and yet there are lapses now and then, a little carelessness in chemistry perhaps, which cause an occasional lot to be unfit for use. This is a disadvantage which small municipalities have at present to meet; yet it is one, I feel confident, is growing less, and will continue to grow less, as experience in the manufacture of cement reaches a more definite stage.

Mr. J. B. Rankin, of Chatham, Ont., has been appointed drainage referee for Ontario. Mr. B. M. Britton, M.P., resigned this position some time ago.

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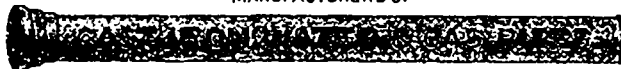
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