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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF THE
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. JULY 18, 1900 No. 24.

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 at the City Clerk's Office, Fredericton, N.B., up to

Friday, the 20th July, Instant,

for the purchase of \$4,000.00 City of Fredericton "City Debt Debentures." The said debentures are issued for the purpose of taking up certain other debentures falling due, and are in sums of \$500.00 each, with coupons for interest attached, at the rate of four per centum per annum, payable annually, the whole \$4,000.00 being payable seven years from 20th July Instant, being date of issue. This issue is authorized by Act of the Provincial Legislature.

The highest or any tender not necessarily accepted. Any further information furnished on application to undersigned.

Dated this 3rd day of July, A.D. 1900.
By order of the City Council of the City of Fredericton.

CHAS. W. BECKWITH,
City Clerk.

TOWN OF WALKERVILLE

TENDERS,

Enclosed in a sealed envelope, accompanied by specifications, addressed to undersigned and marked "Tenders for Sidewalks," will be received by the Corporation of the Town of Walkerville until noon on **TUESDAY, THE 31ST DAY OF JULY, 1900,** for constructing about 28,028 square feet, more or less, of Granolithic Sidewalk on Second Street, Third Street, Fourth Street, Susan Avenue, Sandwich Street, and Lincoln Avenue, in the Town of Walkerville.

The work to be completed on or before the 31st day of September, 1900.

A satisfactory guarantee required for the perfect condition of the walks for a fixed period.
An accepted cheque for 10% of the contract price, payable to the order of the Treasurer of the Town of Walkerville, must accompany each tender, as a guarantee for the fulfilment of contract, otherwise tender will not be accepted.

This cheque will be returned in case of non-acceptance of tender.
The lowest or any tender not necessarily accepted.

CECIL H. ROBINSON,
Town Clerk.

Walkerville, 12th July, 1900.

SEALED TENDERS,

Addressed to the undersigned, will be received up to 12 o'clock, noon, of **MONDAY, JULY 23RD,** for all trades required in the erection and completion of a Commercial Building on the site, corner of Victoria Avenue and May Street, Fort William, Ont., for James McLaren, Esq. Plans and specifications may be seen and all information obtained at the office of the Architects, also at the office of James McLaren, Esq., Fort William, Ont. The lowest or any tender not necessarily accepted.

GOUINLOCK & BAKER, Architects,
714 Temple Building, Toronto.

Town of Arnprior DEBENTURES FOR SALE

\$75,000

Sealed tenders will be received by the undersigned, and marked "Tender for Debentures," up to 5 o'clock p.m. **THURSDAY, AUGUST 2ND, 1900,** for the purchase of Debentures to the amount of \$75,000.

The said debentures are payable in thirty years from the fourth day of September, 1900, and bear interest at the rate of four per cent. per annum, payable yearly. The money to be payable in Arnprior free of charge to the Town.

The highest or any tender not necessarily accepted.

W. M. HOWE, Mayor,
Town of Arnprior, Ontario, Canada

Mayor's Office, Arnprior, July 13th, 1900.



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

Tuesday, the 24th Inst., 1900,

inclusively, for Dredging in the Harbour of Sarnia, Ont., according to a plan and combined specification and form of tender to be seen at the office of H. A. Gray, Esq., Engineer in Charge Harbour and River Works for Ontario, Confederation Life Building, Toronto; on application to the Postmaster at Chatham, Ont., and at the Department of Public Works, Ottawa.

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, for two thousand (\$2,000.) dollars, 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, 10th July, 1900.

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

FOR SALE

Cross Cut Saw Bench, iron adjustable frame, at Williams' Machinery Depot; a bargain.

W. FRASER, Clinton St., Toronto.

TENDERS

Will be received up to **SATURDAY, JULY 28TH, 1900,** for the construction of about 9,000 square feet of granolithic walks. Specifications and forms of tender can be had on application from the town clerk. The lowest or any tender not necessarily accepted.

THOS. MORRIS,
Town Clerk.

Oshawa, July 16th, 1900.

BRIDGE

Separate tenders, addressed to the undersigned or to Mr. J. Hampton, Mount Forest will be received up till ten o'clock a.m. on **WEDNESDAY, AUGUST 1ST, 1900,** for the building of Masonry Abutments and Steel Superstructure of a bridge on the town line between Wellington and Grey Counties, about two miles west of Mount Forest, and known as "Scott's Bridge," and will be opened in that town at 2 o'clock p.m. on that day.

The plan and specifications for the masonry may be seen by applying to any of the following commissioners, viz.: R. Bride, Newbridge P.O.; J. Hampton, Mount Forest; James Allan, Varney P.O.; Andrew Shenk, Ayton, or to John Rutherford, County Clerk, Owen Sound.

A deposit, in the form of a marked cheque, for 5 per cent. of the amount of tender, must accompany each bid.

The lowest or any tender not necessarily accepted.

JAMES HUTCHEON, Engineer,
Guelph, Ont.

Toronto Public School Board

TENDERS WANTED

Sealed tenders, addressed to the Secretary Treasurer of the Board, will be received until

Monday Noon, July 23rd, 1900,

for the erection of

NEW SCHOOL BUILDINGS

ON

Bathurst Street,
Essex Street,
Withrow Avenue,

and for certain trades in connection with the

Enlargement of Park School,

also for the balance of

Midsummer Repairs.

Plans and specifications may be seen and all information obtained at the office of the Superintendent of Buildings, corner of York and Richmond Streets.

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

W. W. HODGSON,
Chairman of Property Committee.

W. C. WILKINSON,
Secretary-Treasurer.

FOR SALE

300 ft. 16 inch flexible ward joint cast iron pipe for submerging under water. Price \$35 per ton. Apply McQUILLAN & CO., 1457 Queen St. West, Toronto

CITY OF BRANTFORD**NOTICE TO CONTRACTORS**

Sealed tenders, addressed to R. Waddington, Esq., Chairman of the Board of Works, in care of the City Clerk, Brantford, will be received till

12 o'clock, Noon, on Thursday,
July 26th, 1900,

(a) For about 70 cords of Rubble Stone, average thickness 4 inches, no stone to vary from this thickness by more than one inch, or to contain less than one-half a cubic foot.

(b) Also about 25 cords of rough quarry or field stone, varying in size from two to six cubic feet, no stone to be less than one foot in thickness.

F. O. B. cars at Brantford
Specifications may be seen at the office of the City Engineer, Brantford.

A marked cheque, payable to the order of the City Treasurer, to the amount of 5 per cent of the estimated amount of the contract, must accompany each tender. A separate price required for (a) and (b).

The lowest or any tender not necessarily accepted.

T. HARRY JONES,
City Engineer.

Brantford, July 17th, 1900.

TENDERS

For the supply of 250
to 350 tons of Asphalt.

Sealed tenders, addressed to the Chairman of the Committee on Works, for the supply of from 250 to 350 tons of Asphalt for Street Paving, will be received at the office of the undersigned up to 8.30 p.m. on

WEDNESDAY, JULY 25TH, 1900

Specifications and forms of tender may be obtained at the office of H. N. Ruttan, City Engineer, Winnipeg. Samples of asphalt, about one (1) pound in weight, and an analysis of the asphalt must accompany each tender.

The price stated is to be f.o.b. cars on the railway at the City Asphalt Works in the City of Winnipeg.

Deliveries of asphalt to commence not later than three weeks from date of notification of acceptance of tender and to continue at the rate of ten tons per day until the contract is completed.

Each tender must be accompanied by an accepted cheque, draft or cash deposit for the sum of \$400.00, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract if called upon to do so. Cheques must be payable at par in Winnipeg or be for an amount sufficient to cover exchange over the sum called for.

The city reserves the right to reject any or all tenders or to accept any one which appears advantageous to the City of Winnipeg.

C. I. BROWN,
City Clerk.

City Clerk's Office,
Winnipeg, Canada, July 6th 1900.



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

Wednesday, 25th July, 1900,

inclusively, for the construction of a Drill Hall at Windsor, Ont.

Plans and specifications can be seen and form of tender and all necessary information obtained at this Department, and on application to the Caretaker at the Post Office, Windsor, Ont.

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 check, 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 declines to enter into a contract when called upon to do so, or if he fails to complete the work contracted for. If the tender be not accepted the check 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, June 29th, 1900.

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

CONTRACTS OPEN.

GOLDEN, B.C.—The C. P. R. will build a station here.

KINGSMILL, ONT.—Chas. Dance will build a residence here.

HAMILTON, ONT.—Tenders have been taken on repairs to public schools.

PARIS, ONT.—A number of granolithic walks will be put down this season.

LANSDOWNE, ONT.—Extensive improvements will be made to St. John's church.

GANOQUE, ONT.—The Jones Manufacturing Co. will enlarge their warehouse.

GUELPH, ONT.—The Robertson-Taylor Co., of Galt, will remove their industry to this city.

ORILLIA, ONT.—Messrs. Janes & Son are considering the erection of a factory building.

SEAFORTH, ONT.—A new bridge is to be built between McKillop and Hullett townships.

MEAFORD, ONT.—The town clerk has been instructed to offer for sale \$56,000 of debentures.

RENFREW, ONT.—It is proposed to expend \$30,000 in making improvements to roadways.

WHITE'S COVE, N.B.—The erection of a new Baptist parsonage will be commenced shortly.

HARRISTON, ONT.—The ratepayers defeated a by-law to loan \$11,000 to assist a furniture factory.

MURILLO, ONT.—A. Reid has invited tenders for finishing Presbyterian church in Oliver township.

DIGBY, N.S.—Mr. Bowing, of Springfield, Mass., states that he will build half a dozen cottages here.

FOXBORO, ONT.—The North Methodist church at this place was badly shattered by lightning last week.

MILVERTON, ONT.—A joint stock company may be organized here to install an acetylene gas plant.

BERLIN, ONT.—The Anthes Manufacturing Co. contemplate building a brick addition to their factory.

GREENWOOD, B. C.—A by-law to raise \$20,000 for street improvements has been carried by the ratepayers.

ST. MARY'S FERRY, N.B.—Rev. W.D. Manzer invites offers for purchase of \$4,600 of school debentures.

SUMMERSIDE, P. E. I.—Steps may be taken at an early date to construct waterworks and sewerage systems.

RICHMOND, QUE.—The Orford Mountain railway will probably be extended from Kingsbury to this place.

SHELBURNE, ONT.—A by-law has been read a second time in council to raise \$25,000 for water works extension.

HESPELER, ONT.—A by-law was carried by the ratepayers a few days ago to raise \$10,000 by the issue of debentures.

BELLEVILLE, ONT.—The water commissioners will ask the council for a grant of \$2,000 for waterworks extension.

LAKEFIELD, ONT.—The ratepayers have carried a by-law to aid the proposed cement works to the extent of \$10,000.

PALMERSTON, ONT.—It is expected that work will be commenced immediately on the construction of granolithic walks.

PETROLEA, ONT.—The sum of \$32,500 has been subscribed towards the establishment of a pork packing factory here.

ARNPRIOR, ONT.—The ratepayers have approved of an expenditure of \$75,000 for waterworks and sewerage systems.

KINGSTON, ONT.—New York architects are preparing plans for the club

house to be built on Col. O. G. Staple's island.

NEW HAMBURG, ONT.—Mr. Wriederhold, of this place, has prepared plans for a new school house for section No. 12, Wilmont.

PORT HOPE, ONT.—A by-law has been passed in council authorizing the borrowing of a sum of money to meet current expenses.

DURHAM, ONT.—Separate or bulk tenders are invited up to 21st inst. for erection of stone and brick residence for Dr. Freel.

COLLINGWOOD, ONT.—F. T. Hodgson, architect, invites tenders up to the 20th inst. for erection of brick store adjoining post office.

CORNWALL, ONT.—A deputation went to Ottawa recently to urge upon the government the erection of a new drill shed at this place.

PEMBROKE, ONT.—Mr. McLaughlin, of this place, is interested in a company that has been organized to establish a creamery here.

STRATHROY, ONT.—The ratepayers have voted in favor of granting a bonus of \$10,000 to the Strathroy & Western Counties Railway.

ST. JOHNS, QUE.—The town offers for sale \$60,000 of debentures. Tenders received by J. E. Mollieur or G. H. Wilkinson up to 25th inst.

AMHERSTBURG, ONT.—The council has given notice of its intention to construct a sewer on Dalhousie street; estimated cost, \$3,493.40

TYNDALL, ONT.—Separate or bulk tenders for the erection of a two story frame school house are invited by Thos. Pierson up to July 24th.

THOROLD, ONT.—The casket factory here has been sold to Buffalo parties, who will enlarge it and engage in the manufacture of interior woodwork.

WINNIPEG, MAN.—The city engineer has recommended that the corporation purchase 425 tons of pipe and specials, at an estimated cost of \$195,000.

PRESCOTT, ONT.—The town has offered a free site and exemption from taxation to the McKay Milling Co., of Ottawa, to erect their flour mill at this place.

WESTPORT, ONT.—Tenders for roofing, plastering, galvanized iron work, etc., on St. Edward's church, are invited by Rev. E. Walshe, pastor, up to 28th inst.

NEW WESTMINSTER, B. C.—It has been decided to rebuild the orphanage that was burned at Sapperton. The building will be of brick, with frontage of 164 feet.

HOPEWELL CAPE, N. B.—The Dominion Government invites tenders up to 27th inst. for construction of wharf at this place. Cheque for \$3,000 to accompany tender.

SHERBROOKE, QUE.—The Eastern Townships Exhibition Association have asked the town council for a grant of \$2,000 with which to repair the exhibition buildings.

BROCKVILLE, ONT.—Excavating for a new hotel has commenced.—A by-law to raise \$100,000 to establish a civic lighting plant will be submitted to the ratepayers on July 31st.

OWEN SOUND, ONT.—The Board of Education, at a meeting on Monday last, decided to build a ten-room addition to Beach street school and make alterations in Hill street school.

VICTORIA, B. C.—A cedar block pavement will be laid on Broad street, from Fort to Yates, and on Yates street, from Government to Douglas.—Local architects are preparing plans for several new buildings.

QUEBEC, QUE.—The Commissioner of Crown Lands has sold to American parties

two water powers at Lake St. John. The purchasers bind themselves to erect within four years pulp mills and other establishments to the value of \$4,000,000.

SYDNEY, C. B.—Graham Fraser, of the Nova Scotia Steel Co., states that the company will immediately proceed with the development of the local areas recently purchased. They will sink several new shafts and build twelve miles of railway.

PARRY SOUND, ONT.—The by-law to raise \$20,000 to aid in the construction of the James Bay railway to this place will be submitted to the ratepayers on August 6th.—The Ontario Government will have plans prepared immediately for the enlargement of the jail here.

SARNIA, ONT.—The Dominion Government is now inviting tenders for dredging in the harbor at this place.—The Department of Public Works at Ottawa invites tenders up to Friday, August 3rd, for erection of post office at this place. Plans on application to John B. Watson, Front street, and at the above Department.

NELSON, B. C.—Cane & McDonald, architects, have prepared plans for a new three storey stone and brick hotel to be built here, to cost \$40,000.—The ratepayers vote to-day on a by-law to provide \$15,000 for waterworks extension, \$15,000 for electric light works, \$30,000 for sewerage, and \$26,000 for road improvements and road machinery.

FORT WILLIAM, ONT.—The Tickokan Iron Co. has been organized here, with a capital of \$1,000,000. Peter McKellar is interested.—Mr. James McLaren purposes erecting this summer, on the site corner Victoria ave. and May street, a large business block, containing stores, offices, and lodge rooms, from plans and designs prepared by Messrs. Gouinlock & Baker, architects, Toronto.

BRACEBRIDGE, ONT.—At the last council meeting the mayor was authorized to expend the sum of \$300 in obtaining the necessary reports from a sanitary engineer in regard to a system of sewers for the town. It was also decided to make a test of granolithic walks on one of the residential streets.—The council contemplate putting in a new and up-to-date plant for fire protection, including electric alarm system.

VANCOUVER, B. C.—The First National Bank has sold the Michigan saw mill here to an eastern man, who will put in new machinery.—G. W. Grant, architect, has taken tenders on erection of three story building, corner Granville and Georgia streets.—David Spencer, dry goods merchant, of Victoria, has purchased the large lot on the north-west corner of Hastings and Homer streets, and will likely erect a building thereon.

CHARLOTTETOWN, P. E. I.—The Dominion Government invites tenders up to Friday, Aug. 10th, for the construction of the substructure of a combined highway and railway bridge over the Hillsboro river at this place. Plans of the work are at the office of the superintendent of the P. E. I. railway at Charlottetown and the chief engineer of the Intercolonial railway at Moncton. A cheque for \$20,000 is to accompany each tender.

LONDON, ONT.—The G. T. R. officials have decided upon improvements and changes here. An asphalt platform will be built at the Richmond street station, the double track from East London to the Cove bridge completed and in the near future continued westward to Komoka, and a new bridge will be built at the Cove.—Geo. Cummings has been granted a building permit for a two-story brick veneer residence, corner Simcoe and Richmond streets.

PORTAGE LA PRAIRIE, MAN.—The erection of the N. P. station here will shortly be commenced.—The council

has granted \$6,667 towards the cost of building a steel bridge over the Assiniboine river.—P. T. Bailey has decided to defer the erection of his proposed block until next year.—The Northern Pacific Railway Co. has surveyed two routes to Lake Manitoba from their present terminal point at Oakland. The distance is about six miles. At the point where the railway will reach the lake shore it will be necessary to build a pier 700 feet in length.

MONTREAL, QUE.—The city has extended the time for receiving tenders for brick and iron work of fire station in Hochelaga ward to the 19th inst.—L. O. David, city clerk, invites tenders up to noon of Friday, 30th inst., for improvements to the city hall. Plans by Maurice Perrault, architect.—The Board of Management of the Sheltering Home on St. Urban street are endeavoring to obtain funds with which to erect a new building.—Mr. Baldwin, of the Baldwin-Melville Stock Co., will erect a new theatre on the site of the Theatre Francis on St. Catharines street, which was burned last spring.

ST. JOHN, N. B.—Wm. Pearson, of Paris, recently inspected the water power at Plaster Rock, on the Tobique river, and the outcome may be the establishment of a pulp mill there.—No steps have yet been taken towards rebuilding the Stetson & Cutler mill at Kingsville.—R. C. John Dunn, architect, has completed plans for club house at Ashburn Lake for the Ashburn Fishing Club.—The Peters' tannery, to be built on Erin street, will consist of four large buildings and a separate brick engine and boiler house.—Ald. Millidge has given notice of a resolution for the issue of bonds as follows: \$20,000 for the Spruce Lake water extension; \$35,000 for the improvement of the east side water supply; \$7,000 for the purchase of a new fire engine and improvements in connection with the north end hook and ladder station; \$6,000 for the purchase of the Ryan and Brayden properties at Little River.—The council has adopted the report of the waterworks superintendent, which recommends that a 20-inch cast iron pipe be laid from the Marsh bridge to the corner of Union and Pitts streets, at cost of \$13,500, and a 15-inch pipe along Union street, a distance of 920 feet, at cost of \$3,000.

TORONTO, ONT.—R. J. Edwards & Wagner, architects, 18 Toronto street, invite tenders for painting, glazing and decorating of a residence on Wellesley street.—Tenders are invited in this issue for erection of new school buildings on Bathurst street, Essex street, and Withrow avenue, and for enlargement of Park school and balance of midsummer repairs.—The Ontario government will establish a new separate industrial school for girls. It will be located on West Lodge avenue, adjoining the convent of the Good Shepherd.—The city invites tenders up to noon to-day (Wednesday), for supply of broken limestone and scoria blocks for the year ending December 31st, 1900.—The New Century Club, at a meeting held last week, appointed a committee, consisting of G. H. Wood, Frank Stanley, J. E. Stanford, and J. H. W. Mackie, to select a site on which to build a club house.—The council will be requested to submit a by-law to the ratepayers to provide funds to erect the necessary buildings for the holding of a Dominion Exhibition in 1901.—It is reported that Mr. Campbell, of the Grand Union hotel, will shortly build an addition of 50 bedrooms to the hotel.—The Milk Trust, in which Mr. W. E. H. Massey is interested, is said to have purchased the Wilson property on Spadina crescent, west of Knox College, as a site for their proposed building.—The owners of the Methodist Book Room have acquired a block of property on Temperance street, to the

east of their present premises, and intend erecting an addition. They will also add another storey to their present building.—Building permits have been granted as follows: T. E. George, three-storey brick residence, 72 avenue road, cost \$3,000; Thomas Buckley, two-storey roughcast dwelling, 53 River street, cost \$1,000; Wardens of St. Paul's Episcopal church, addition, cost \$7,000; Bessie Page, detached brick dwelling on Crescent road, near Rosedale road, cost \$3,500; Public School Board, school at corner Hamilton and St. Paul streets, cost \$11,000; W. H. Essery, pair semi-detached brick dwellings on Jameson avenue, east side, near King, cost \$7,000; Eby, Blain & Co., two-storey addition to warehouses, 5 and 7 Scott street, cost \$6,000; Public School Board, school building, corner Perth and Irving avenues, cost \$9,500, also addition to school on Hallam street, cost \$10,500; Gwatkins & Hughes, brick front and alterations to dwellings, 234 and 286 Robert street, cost \$1,200.—S. F. McKinnon & Co. have purchased the property immediately east of their warehouse on Wellington street east. It is believed that a large warehouse will be built on the property.—It is expected that tenders will be invited this week for a post-office building in connection with the elevator for mail purposes at the Union Station.—The foundation of the Grand Trunk passenger station at Queen street east crossing has been commenced. The building will be of brick, and will cost \$8,000.

OTTAWA, ONT.—Tenders are invited by the Department of Public Works up to Friday, July 27th, for the reconstruction and extension of the breakwater at Wilson's Beach, Charlotte county, N.B. Plans at the offices of E. T. P. Shewen, St. John, N.B., and C. E. W. Dodwell, Halifax, N.S., on application to the postmaster at Wilson's Beach, and at the above department.—The Ottawa Saw Works will shortly begin operations on their new building.—The Board of Health has decided to engage an architect to prepare plans and estimates for a new contagious diseases hospital on Porter's Island.—The W. C. Edwards Co. have secured control of the Capital Planning Mill Co. and the Ottawa Specialty Co., and will immediately improve the plants. About \$50,000 will be expended in machinery and other improvements.—A bill for the incorporation of the Ottawa, Brockville and New York Railway Company has passed the Railway Committee of the Dominion government. It is said that the company propose to transmit electric power to the town of Brockville.—John Sutherland and John Kelly have succeeded in forming a company here to manufacture horseless carriages. A factory will likely be built.—The corporation desires tenders by Wednesday, 25th inst., for construction of an asphalt and Nepean sandstone pavement on Somerset street, from Bank to Bay streets. Particulars from John Galt, city engineer.—The congregation of the Erskine Presbyterian church have decided to build a new edifice on the east side of Concession street, between McLaren and Gilmour

CENTRAL CANADA LOAN AND SAVINGS COMPANY

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F. W. BAILLIE, Secretary.

E. R. WOOD, Managing-Director.

streets. This decision will be submitted to the Presbytery in August for final ratification.—The question of rebuilding the French Presbyterian church is still under consideration.—The city engineer is preparing plans for tunnelling the cliff at the end of Maria street.—About 250 building permits have been issued this year, representing a value of \$459,000. Recent permits include the following: Mrs. A. Cook, brick veneered dwelling, Maple street, cost \$1,250; J. B. Giroux, brick veneered house, Queen street, cost \$1,200; Andrew Fogerty, four brick veneered tenements, Lloyd street, cost \$2,500; J. H. Primeau, two brick stores and dwellings, Duke street, cost \$1,500; Andrew Mulligan, frame house, Rochester street, cost \$800; A. James French, brick veneer dwelling, Henderson avenue, cost \$900; Mrs. Margaret Dunn, brick veneer house, Sherwood street, cost \$1,000.

CONTRACTS AWARDED.

ASHCROFT, B.C.—Presbyterian manse: D. Johnson, contractor.

ORILLIA, ONT.—School house, section No. 6, Mara: J. R. Eaton, contractor.

OTTAWA, ONT.—Desks for George street school: Oliver Bros., contractors.

MIDLAND, ONT.—Residence for Mr. James Devenport: Chas. Hopwood, contractor.

WATERLOO, ONT.—Benton street roadway: Mr. Griffith, Woodstock, contractor, \$3,240.

QUEBEC, QUE.—Iron passenger bridge over St. Maurice river: L. H. Gaudry, contractor.

ST. CATHARINES, ONT.—Alterations to St. George's church: E. C. Nicholson, contractor.

TRURO, N.S.—Section B of sewerage system: Frank Dexter & Co., contractors, price \$6,394.70.

BLAIR, ONT.—Bridge near Hespeler: Hamilton Bridge Co., successful tenderers, at \$1,045.

KINGSTON, ONT.—Alterations to Queen's University library: Hunter & Carroll, contractors.

KEMPTVILLE, ONT.—Bridge over the Rideau River: W. M. Hendershott, of Thorold, contractor.

WATFORD, ONT.—Granolithic sidewalks: P. L. Marden & Co., of London, successful tenderers.

BERLIN, ONT.—Benton street roadway: M. Griffith, of Woodstock, successful tenderer, at \$3,542.

WINNIPEG, MAN.—Drainage work in Franklin drainage district: Messrs. McDonald & Buchanan, contractors.

GRAND FORKS, B.C.—\$50,000 of city debentures have been sold at par to the Trust & Guarantee Co., of Toronto.

FREDERICTON, N.B.—Interior finish for the U. N. B. science building: Tabor & O'Neil, contractors, price \$1,200.

NANAIMO, B.C.—Lighthouse on Ballinac Island: Geo. Frost, Nanaimo, contractor.—Rectory for St. Paul's church: James Young, of Victoria, contractor; price \$5,000.

NEWCASTLE, N.B.—Four tenders were received by the town for the purchase of debentures. The tenders of E. P. Williston for \$8,000, and P. R. Laird for \$10,000, have been accepted.

SAULT STE. MARIE, ONT.—Foley Bros., of St. Paul, Minn., have been awarded the contract for building 100 miles of the Algoma Central Railway extending north-west from the Soo to the C.P.R.

CHATHAM, ONT.—Residence for Mrs. Holmes, of Harwich: Blonde Bros. & Co., contractors.—The Massillon Stone & Brick Co. have secured the contract to supply vitrified brick for the King street pavement, at \$23.40 per thousand.

HULL, QUE.—New separate school: Excavation and mason work, Mr. Latreux; carpenter work, J. Limerick, of St. John, N.B., at \$4,305. Building will be three stories and basement, stone foundation, brick veneered with iron roof.

ST. JOHN, N.B.—Addition to St. Patrick Industrial School: G. E. Fairweather, architect; E. Bates and John Flood, contractors.—Stables on Rebecca street for J. & W. Shaw: H. H. Mott, architect; Robt. Maxwell, mason work; S. C. Drury, woodwork.

NELSON, B. C.—Block for Kirkpatrick, Wilson & Clements: Ewart & Currie, architects; W. G. Gillette, masonry, carpentry, plastering, roofing, etc.; Lawrence Hardware Co., steam heating, plumbing, gas-fitting and sheet metal work; contract price, \$35,400.

MONTREAL, QUE.—The Water Committee of the council last week awarded contracts as follows: Meters, Drummond, McCall & Co., Montreal; pipes, St. Maurice Foundry & Machine Co., Three Rivers; special castings, P. Amesso & Co., Montreal; brass castings, Rubenstein Bros.; lead pipes, Montreal Rolling Mills; pig lead, James Robertson Company; tin, D. J. Coghlin, Montreal; scrap iron and lead, M. Cole, Montreal. General stores and cements were referred to a general committee to be decided upon later.

HAMILTON, ONT.—Tenders for supplies for the city have been accepted as follows: Brick, W. Hancock, \$5.75; sand, W. Hancock, 95 cents a yard; water lime, Dow Bros., \$1 a barrel; castings, Burrow, Stewart & Milne, \$2.20 per 100 pounds; lead pipe, F. A. Carpenter & Co., \$3.89 per 100 pounds. The contract for lime has not yet been let.—The Imperial Cotton Co. has accepted the following tenders for erection of factory buildings on Sherman avenue: Mason work, George T. Webb, \$27,899; carpenter work, William Halliday, \$30,780; painting, F. W. Kirk, \$3,138; plumbing, J. Wallace & Son, \$295; roofing, etc., James Sweney, \$3,500; iron work, Hamilton Bridge Works Company, Limited, \$480.

WELLAND, ONT.—The town council received the following tenders for the erection of a town hall, on plans prepared by J. A. Ellis, architect, Toronto:

Bulk—M. Vanderburgh (no heating or plumbing), \$7,871; J. E. Cutler (less \$280 for heating), \$8,350. Mason work—M. Vanderburgh (with plastering), \$4,375, Self Bros., \$4,180; H. J. Ashfield & Co., \$3,643; Alex. McCurdy, \$4,912; J. Lovell, \$3,643; Carpenter work—J. E. Cutler, \$2,645; J. Lovell, \$3,765; Mr. Henry, \$4,500. Sheet metal work—J. Lovell, \$350; A. Mathews, \$423; Mr. Douglass, \$385. Furnace—J. Lovell, \$300; Pease Co., \$950. Plastering—J. Lovell, \$690.50; Gander, \$800. Plumbing—J. Lovell, \$325; Purdy, Mansell & Co., \$419. Painting and glazing—J. E. Cutler, \$360; J. Lovell, \$430; Casey, \$596. The tender of M. Vanderburgh for masonry and plastering, at \$4,375, and that of J. E. Cutler for all other trades except heating, at \$3,595, have been accepted.

TORONTO, ONT.—The School Board has accepted the following tenders for the enlargement of Dovercourt, Winchester, Park and Dewson street schools: Dovercourt school—Masonry, Wickett Bros., \$4,267; carpentering, E. Hollett, \$5,020; plastering, E. Warren, \$540; painting, T. Barrett, \$580; roofing, A. Mathews, \$610; tinsmithing, H. Tucker, \$61; plumbing, Purdy, Mansell & Co., \$185; heating and ventilating, Rutley Warming and Ventilating Co., \$845; grand total

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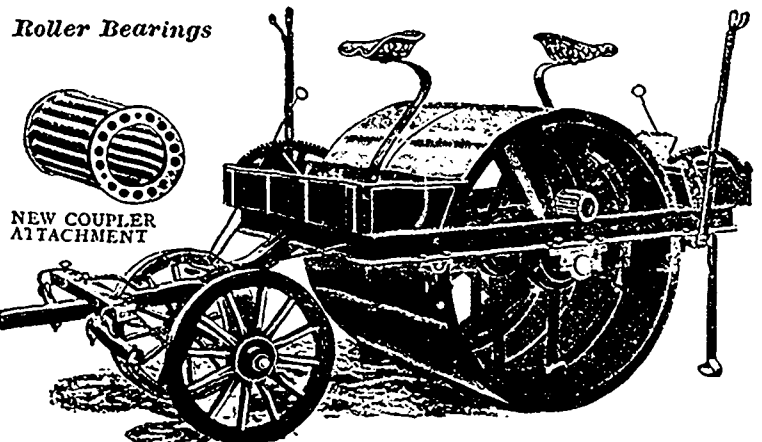
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\$12,108. Winchester school—Masonry, Self Bros., \$6,230; carpentering, M. Hutchinson, \$8,194; plastering, Beaver Bros., \$999; painting, Faircloth & Co., \$595; plumbing, James Sherlock, \$178. Smithing, H. Tucker, \$105; roofing, Robt. Rennie & Son, \$1,668; heating, W. Mashner, \$5,100; grand total, \$23,089. Park school—Masonry, Self Bros., \$2,385; carpentering, M. Hutchinson, \$6,449; roofing, Geo. Ringham, \$619; grand total, \$9,453. Dewson street school—Carpentering, Alfred Coyell, \$4,730; plastering, Thos. Gonde & Sons, \$150; painting, James Phinmore Co., \$72; grand total, \$6,950.—The Fensom Elevator Co. have secured the contract for an electric elevator to be used in connection with the handling of mail matter at the Union station in this city.

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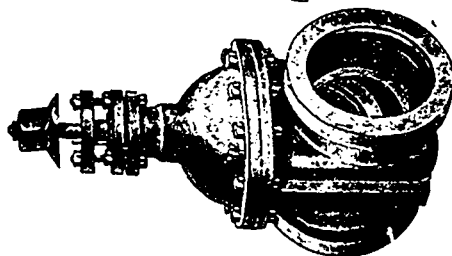


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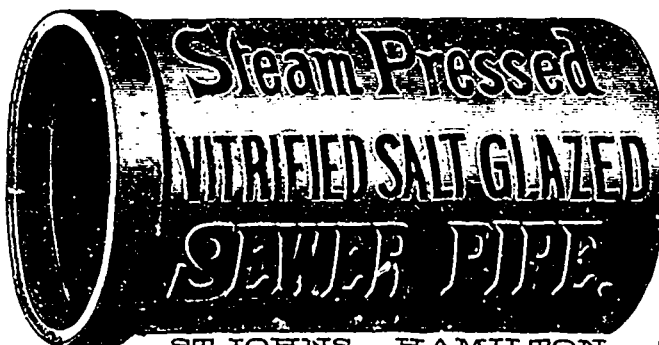
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TESTS OF CEMENT AND CLAY SEWER PIPES.

Mr. Max Garry, who was appointed by the International Association for the Testing of Materials to take charge of the investigation of methods of testing sewer pipes of cement and clay, has set forth the results of his investigations in his report published in "Les Matériaux De Construction." In 1895 he investigated, for the German Association of Manufacturers of Portland cement, the methods employed by government, municipalities, and individuals for testing the strength of cement pipes. He found that in Germany, and also in other countries, these tests varied in each case and none were regarded as adequate. Mr. Garry concluded that the tests to be made should determine the following points: The resistance to internal and external pressure; impermeability; resistance to the attack of acids; and the wear and tear upon the interior by sand passing with the water. The tests then should determine mainly the bursting and crushing strength and the texture and composition of the paste used. The most important property in a cement or clay pipe is the resistance to external pressure, for nearly always such pipes are simply covered with earth or sand, and not inclosed in masonry. In passing judgment on the fitness of these pipes it is necessary to distinguish between the loads they are to sustain, for, as some are laid under travelled streets, under railway embankments, or under the foundation walls of buildings, the pressure upon them will differ. Mr. Garry describes the practice of several German cities in testing cement as follows:

The Department of Public Works of Leibnitz requires that a cement pipe one m. (3.28 ft.) in diameter should resist the pressure of a layer of earth 3 m. (9.84 ft.) thick; at Rasenheim, pipes covered with from 12 to 16 in. of earth should resist the pressure of a heavy vehicle; and at Colmar, when there is any doubt of the solidity of a pipe, a loaded waggon is passed over the laid pipe. At Mecklenburg-Schwerin, cement pipes must resist, without cracking, a pressure equal to 50 kg. per lin. m., and per cm. of diameter. This test is made by placing railroad rails on top of the uncovered pipe. The city of Freysing prescribes that the pipe should support a "load of 6,000 kg. concentrated upon the top of a pipe;" and Passau demands that the pipe resist a pressure of 805 lb. per lin. ft. At Zeits, where the pipes are buried from 6 to 12 ft. beneath the surface, a steam road roller is passed over them before acceptance. At Mann-

heim, clay pipes of 1 m. diam. have been tested by burying them in the earth under a layer 18 in. thick. Over the pipe was then placed a double plank platform measuring 3.28 ft. square and 3 in. thick, and on this was placed the test load. The rupturing load was found to weigh about 28,500 pounds.

For pipes of "armed cement" or cement reinforced by a double iron mesh on the Zisseler system, the engineer of bridges at Bremen prescribes the following test: The pipe is buried in sand in a solid wooden box; then by means of a cover fitting inside the box, a pressure of 7,500 kg. per running m., or about 500 lb. per lin. ft., is applied to the pipe. The pipe is required to stand this pressure without deformation or cracking. For pipes of oval section, 120 by 96 cm. and 6.5 cm. thick, armed with three layers metallic mesh, a uniform load of 9,000 kg. per m., or a little over 600 lb. per ft., is prescribed. At The Hague, Holland, the resistance of cement pipes is determined by placing them in a trench and then loading them uniformly on the square meter of horizontal projection. One pipe in every fifty is subjected to this test; and this load is carried up to 12,000 kg. for pipes 1.5 by 1 m., and 1.2 by 0.8 m. At Copenhagen, Mr. Emanuel

Jenson employs a process for testing pipes of clay and of "armed cement" which has given very satisfactory results. A heavy timber is embedded in the soil, carrying on one end a heavy counterweight of cement, and near this are two bars of iron, pierced with holes, attached to the sides of the timber. The pipe to be tested is placed in a strong box, nearly filled with sand and resting upon the timber, and pressure is applied to it by a lever and saddle with a lever support on a pin passing through the holes in the iron bars. The advantage of this process is that the commencement of cracking in the pipe can be noted; though this is of little advantage in the test of clay pipes, as after the appearance of the first crack the pipe will support but little more. But in the case of the Monier and Zisseler construction, where the iron skeleton augments the cohesion of the material, the appearance of the first fissure precedes by some time the final crushing load.

The value of the different kinds of wood for street paving has been demonstrated by an experiment at the King street subway, Toronto, where in November, 1894, blocks were laid in maple, beech, rock elm, soft elm, spruce, red pine, white pine, and cedar. An examination demonstrated the fact that hardwood was the least serviceable, the softer woods being more durable, and cedar the best of all, the latter still being in a comparatively good state of repair, while the hardwoods are badly worn.

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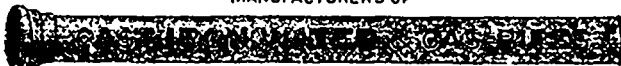
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INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Table listing various categories of advertisements such as Architects, Cemento, Interior Decoration, Roofing Material, etc., with corresponding page numbers.

Table listing prices for various types of stone and paving materials, including Sandstone, Scoriz, Masillon, and Quebec and Vermont rough granite.

Table for CREDIT VALLEY STONE, listing prices for Rubble, Brown Coursing, and other stone products.

Table for LONGFORD STONE, listing prices for Rubble, Ashlar, and Dimension stone.

Table for SLATE, listing prices for Roofing and Terra Cotta Tile.

Table for CEMENT, LIME, etc., listing prices for Portland Cement and other building materials.

Table for Iron Pipe, listing prices for various sizes and types of pipe.

Table for Galvanized Iron, listing prices for different gauges and types.

Table for Lead Pipe, listing prices for different sizes.

Table for Structural Iron, listing prices for steel beams, channels, and plates.

Table for Lead Pipe, listing prices for different sizes and types.

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