

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF CONTRACTING

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. 12.

OCTOBER 9, 1901

No. 36

THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY WEDNESDAY

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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.



Sealed tenders addressed to the undersigned and endorsed "Tenders for fittings, Armouries, Windsor, Ont.," will be received at this office until WEDNESDAY, 10TH OCTOBER, 1901, inclusively, for the fittings required for the Drill Hall, Windsor, Ont.

Plans and specifications can be seen and forms of tender obtained at this Department and at the office of Charles Smith, Clerk of Works, Windsor, Ont.

Sealed tenders endorsed "Tender for fittings, Post Office, Picton, Ont.," will also be received at the same time for fittings required for the post office building, Picton, Ont.

Plans and specification can be seen and forms of tender obtained at this Department and at the office of Peter Pulver, Clerk of Works, Picton, 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 cheque on a chartered bank, 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,

FRED. GELINAS,
Secretary

Department of Public Works,
Ottawa, Sept. 28th, 1901.

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

CONTRACTING MANUFACTURERS

A young man with good education and address desires employment with a contracting manufacturing firm where there would be opportunity to advance. Understands shipping and freighting of merchandise and material, and has done some travelling. Apply Box 35, CONTRACT RECORD.

PUMPS AND WATER WHEELS FOR SALE

1 right and 1 left hand 48 inch Leffel Water Wheels.
2 No. 6 Rotary Pumps with large air chamber shafting, gearing and boxes complete
1 large Escape Valve and connecting pipes, &c.
The above are in good condition and will be sold cheap. For further particulars apply to

J. W. SANDERS,
Town Clerk.

Port Hope, 25th Sept., 1901.

GOAL TAR FOR SALE

Would Contract to Supply
Year's Output.

APPLY TO

Stratford Gas Co.
STRATFORD, ONT.

TENDERS WANTED

FOR

Drainage Work

Sealed tenders endorsed "Tenders for Drainage," and addressed to J. A. Cockburn Crisler, will be received up to the hour of 10 o'clock, a.m., on TUESDAY, THE 15TH OCTOBER, 1901, for the construction of a Drain known as the Stark Creek Drain. Estimated cost \$1,500.

Plans, specifications, forms of tender, &c., to be seen at the office of J. A. Cockburn, Clerk of the Township of Finch, and at the office of T. H. Wiggins, Engineer, Finch.

The lowest or any tender not necessarily accepted.

JOHN K. McLEAN, Reeve.
J. A. COCKBURN, Clerk.

T. H. WIGGINS, Engineer.

Corporation OF THE City of Three Rivers

Sealed tenders will be received at the office of the undersigned, until 4 o'clock p.m., MONDAY, THE TWENTY-FIRST (21ST) DAY OF OCTOBER NEXT, for the purchase of Debentures of the following denominations: "St. Maurice Bridge Bonds," (to the amount of one hundred and twenty-five thousand dollars (\$125,000)), "Drainage Bonds," (to the amount of twenty-five thousand dollars (\$25,000)), "Paving Bonds," (to the amount of ten thousand dollars (\$10,000)), and "School Debentures," (to the amount of eight thousand dollars (\$8,000), all of which will be redeemable in 50 years from the first May, 1901, and bearing interest at the rate of three and a half per cent. (3 1/2 p.c.) per annum, payable semi-annually.

I. T. DESAUVIERS,
Sec.-Treas. Three Rivers Corporation.

City Hall, Three Rivers, 25th Sept., 1901.

TENDERS WANTED

HOUSE OF REFUGE

Sealed tenders will be received by the undersigned until TUESDAY NOON, OCTOBER 9TH 1901, for the erection of a House of Refuge for the County of Ontario.

Plans and specifications may be seen at all offices of the architects, G. M. Miller & Co., Yonge street, Toronto; of James Carr, 21 Chairman of the Building Committee, 10 Perry, and of the County Clerk, Whitby.

The lowest or any tender not necessarily accepted.

JNO. E. FAREWELL,
County Clerk, Whitby.



Sealed cheques addressed to the undersigned and endorsed "Tender for Heating apparatus Windsor, Ont.," will be received at this office until FRIDAY, OCTOBER 5TH, inclusively, for the supplying and placing in position of heating apparatus at the Drill Hall, Windsor, Ont. according to plans and specification to be seen at the Department of Public Works, Ottawa, and at the office of Charles Smith, Clerk of Works, Windsor, Ont.

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, equal to ten per cent. (10 p.c.) of the amount of tender, 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,

FRED. GELINAS,
Secretary.

Department of Public Works,

Ottawa, September 12th, 1901.

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

TENDERS

Tenders will be received up to 5 o'clock p.m. on TUESDAY, THE 9TH INST., for the necessary Carpenter and Joiners' Work, Plastering and Painting and Glazing required for the completion of the

R. C. MEMORIAL CHURCH at Penetanguisheno, Ont.

The building will not be required to be read for plastering before April 15th, 1902.

It will be necessary for the contractors to personally visit the building to obtain proper data on which to base their tenders.

Tenders are to be addressed to the Revd. T. J. Laboureneau, Penetanguisheno.

Plans and specifications can be seen at the Freshwater, Penetanguisheno, and also at the office of the architect, A. W. Holmes, 120 Spadina Avenue, Toronto.

The lowest or any tender will not necessarily be accepted.

CONTRACTS OPEN.

SPRINGHILL, N.S.—A new post-office is under construction here.

AMHERST, N.S.—Dykes in this vicinity were destroyed by floods last week.

HILLSIDE, ONT.—Mr. Hodgson, postmaster, is about to build a new residence.

RICHMOND, QUE.—J. P. Lane has purchased a lot and intends building a new hotel.

PRINCE ALBERT, N. W. T.—It has been decided to build the proposed elevator by day labor.

ORANGEVILLE, ONT.—The county council has decided to spend \$66,000 in improving the county road.

SAULT STE. MARIE, ONT.—The Superior Brewing Co. will erect a brewery here 330 x 400 feet.

OTTAWA EAST, ONT.—About \$1,000 has been subscribed towards the erection of a new church here.

CORNWALL, ONT.—A movement has been started in the city council to take over the electric light plant.

NEWMARKET, ONT.—S. Travis is about to build a residence on corner of Hiron street and Prospect avenue.

GRANBY, B.C.—The construction of a smelter will be commenced by the Granby Smelter Co. next spring.

OAKWOOD, ONT.—J. B. Weldon is taking tenders up to 12th inst. for laying tile drain; estimated cost, \$1,432.

LANARK, ONT.—Surveyors last week located the route of the proposed railway between this place and Carleton Place.

GEORGEVILLE, QUE.—Charles Boynton, of this place, purposes building a saw mill if a suitable location can be found.

AMHERSTBURG, ONT.—Tenders have just been taken by the town for the construction of a sewer on Rankin avenue.

PARRY SOUND, ONT.—It is said that the Parry Sound Lumber Co. intends starting a Lox shook factory next spring.

BLYTH, ONT.—On October 18th the ratepayers will vote on a by-law to loan Henry Beese \$6,000 to establish a flour mill.

GODFREY, ONT.—Tenders for building a school house in school section No. 2 are invited by John Giles up to October 20th.

ST. JOHN, N.B.—In connection with the C.P.R. improvements at Sand Point it is intended to erect a warehouse over 400 feet long.

IROQUOIS, ONT.—A by-law to borrow \$2,000 for construction of electric light plant was carried by the ratepayers last week.

COLLINGWOOD, ONT.—D. Williams is asking for tenders up to 19th inst. for the erection of a two-story, brick cased house.

BROCKVILLE, ONT.—There is an agitation for the construction of sewers on Perth and other streets, at an estimated cost of \$5,000.

CRYSLER, ONT.—J. A. Cockburn invites bids up to October 15th for construction of the Stark Creek drain; estimated cost, \$1,300.

STRATHCONA, N. W. T.—The Imperial Bank has purchased property on Whyte avenue and will likely erect a block next spring.

RICHIBUCTO, N. B.—Property on Queen street has been purchased by the Government as a site for a new post office and custom house.

WINDSOR, ONT.—The Department of Public Works at Ottawa is taking

tenders up to 10th inst. for fittings for the drill hall in this city.

ST. LOUIS, QUE.—The council has adopted a by-law granting a bonus of \$25,000 to the L. O. Grothe Co. to extend their cigar factory.

CACHE BAY, ONT.—Tenders closed yesterday for erection of a two roomed school building. Particulars from George McFarland, secretary-treasurer.

WINDSOR, ONT.—Rev. Father Muenier has under consideration the erection of a large three-story building for the use of the Catholic societies.

SMITH'S FALLS, ONT.—Thomas Jones has purchased the building known as the old stone house, belonging to the Matheson Estate, and will remodel it.

COLLINGWOOD, ONT.—It is said that negotiations are under way looking to the removal of a large engine and boiler works from Toronto to this town.

RAPID CITY, MAN.—It is proposed to build a new four room school building to cost \$7,500, hot air heating, etc. W. H. Shillinglaw, of Brandon, architect.

INDIAN HEAD, N.W.T.—Bids are asked by H. H. Campkin, secretary-treasurer of the municipality, up to Tuesday, 22nd inst., for the purchase of \$1,500 debentures.

REVELSTOKE, B. C.—Tenders are requested by B. R. Atkins up to 10th inst. for erection of Queen Victoria Hospital. Plans by W. T. Dalton, architect, Vancouver.

CEJDAR HILL, ONT.—Tenders close 19th inst. for \$10,500 debentures to be issued by the township of Pakenham. Particulars from Joseph Connerly, township clerk.

SHAWINIGAN FALLS, QUE.—Tenders have just been taken by the secretary-treasurer of the municipality for the construction of a city hall and of an aqueduct.

MICHIPICOTON RIVER, ONT.—It is understood that tenders are being taken for building a canal for the Michipicoton River Power Co., in which O. B. Snider is interested.

GODERICH, ONT.—The ratepayers of the town will vote on a by-law on October 21st to grant a loan of \$10,000 to William H. Smith to build a summer hotel here.

COATICOOK, QUE.—It is the intention of the management of the Eastern Township's bank to erect a new bank building on the corner of Main and Cutting streets.

THOROLD, ONT.—The Thorold Pulp Co. have made a proposition to the town to establish a pulp mill, the building and plant to be completed by July 1, 1902, and to cost \$70,000.

SANDWICH, ONT.—Tenders close 10th inst. for purchase of \$10,000 debentures issued for purpose of building House of Industry. Particulars from Henry Moran, county-treasurer.

PICTON, ONT.—Tenders for fittings in the post office here are being called for by the Public Works Department,

Ottawa, up to 16th inst. Plans at the office of Peter Pulver, clerk of works.

DELOKIMIER, QUE.—A by law will be introduced at next council meeting to grant certain concessions to the McCready Co. to establish a boot and shoe factory here. The proposed building will be 600x188 ft. and three-stories high.

PENETANGUISHENE, ONT.—Bids are wanted by 19th inst. for carpenter work and plastering of Memorial Church. Plans at the residence of the Rev. Father Laboureau. A. W. Holmes, 170 Spadina avenue, Toronto, is architect.

VICTORIA, B. C.—The by-law to borrow \$100,000 for extension of the sewerage system will be submitted to the ratepayers to-morrow.—The Boyle system of heating has been decided upon for the new high school. The architect is F. M. Rattenbury.

RICHMOND, QUE.—It is expected that a bridge across the St. Francis river will be constructed at an early date. Col. Harkon, manager of the Richmond County Electric Co., is the prime mover and is in negotiation with the town council with a view to obtaining a grant.

QUEBEC, QUE.—It is officially stated that the contract for the building of the loop line in connection with the Great Northern Railway from St. Gabriels to Carneau Junction has not yet been awarded.—It is probable that a double track will be built for the Great Northern road.

BRANDON, MAN.—Alexander Law & Co. have completed arrangements for the erection this fall of a new 200 barrel grist mill, consisting of mill building 40 x 70 feet, 4 stores, warehouse 50 x 80 feet, and engine room 40 x 50 feet, stone and brick. W. H. Shillinglaw, architect.

BRANTFORD, ONT.—Building permits were last week granted as follows: F. Grobb, brick addition to residence, Victoria street, cost \$1,500; S. F. Simpson, brick dwelling on Park avenue, cost \$2,850; George Simpson, brick dwelling on Fort street, cost \$900; L. J. Bennett, brick residence on Superior street, cost \$900.

VANCOUVER, B. C.—The council has decided to purchase property on Alexander street as a site for proposed waterworks buildings and yards.—The Dominion Government has approved of the plans for the proposed Phoenix branch of the Victoria, Vancouver & Eastern Railway.—It has been decided to adopt the hot air system for heating the new Carnegie library.

TORONTO JUNCTION, ONT.—New houses will be built on High Park avenue by Mr. Ross, of the C. P. R., Mr. Stutz and B. Connell.—James Hall will build another residence.—Mrs. Ellen Johnston, of Toronto, has filed with the town clerk plans for a new building to be erected on Dundas street, to be 20 x 40 feet and used as a Gospel Hall.

HAMILTON, ONT.—The management committee of the Board of Education have decided to recommend the purchase of land adjoining the Mary street

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ECONOMICAL DURABLE FIREPROOF

THE PATERSON MANFC Co., LIMITED

TORONTO MONTREAL ST. JOHN HALIFAX

school with a view to building thereon a twelve room school building.—Building permits were last week granted as follows. Robert Somerville, brick dwelling on Sanford Avenue, to cost \$1,000, Sun Oil Company, brick building, East Hamilton, to cost \$1,000.

CHESTERVILLE, ONT.—Bids are invited by Thomas Hamilton, reeve of the township of Winchester, up to November 1st, for the purchase of the following debentures: \$46,615.49 five per cent twenty year; \$1,530.46 four per cent ten year; \$982 four per cent five year; \$855.92 four per cent five year; \$1,786.50 four per cent ten year. The debentures are issued to provide for the construction of drainage work, the most important being the Petite Castore river and the Annable Creek drainage works.

WINNIPEG, MAN.—A survey party is now locating the route of the proposed C.P.R. branch to extend north west from Moosmin.—It is reported that the Winnipeg Street Railway Co. and the Ogilvie Milling Co. have combined with a view to bringing electric power into Winnipeg from the nearest available point on the Winnipeg river. Engineers are now making plans of the power development and plant.—A by-law will be submitted to the ratepayers at the next municipal election to issue debentures for the purpose of improving and increasing the electric light plant.—The C.P.R. is making surveys for a railway from Greenway to Holdner, a distance of about 100 miles.—It is the intention of the Canadian Northern Railway Co. to erect next spring, new freight sheds on their property on Rorie street.—The Manitoba Water Power Electrical Co. is seeking incorporation. The promoters include Henry Burkholder, financial agent of Chicago; N. G. Leslie, bank manager; I. M. Ross, contractor; and H. Cooper, financial agent, Winnipeg.

OTTAWA, ONT.—Alex. Fraser is about to make improvements to his water power at the Chaudiere, at an estimated cost of \$25,000, for which tenders are being taken.—The Department of Public Works invites tenders up to 21st inst., for the reconstruction of wharf at St. Nicholas, Levis County, Quebec. Plans at above department, at office of P. Beland, post office, Quebec, and at 411 Merchants Bank building, Montreal.—Extensive improvements, including the building of new piers, will be made at the Chaudiere slides at the close of navigation.—James Davidson, Chairman Board of Works, will receive tenders up to October 16th for construction of pipe sewers. Plans at the office of N. J. Kerr, city engineer.—L. K. Jones, Secretary Department Railways and Canals, invites tenders up to 21st inst. for water power at Dam 5 of the Trenton canal, between Peterborough and Lakefield. Plans at above department and at office of superintending engineer, Lakefield.—Building permits have been granted as follows: Bank of Ottawa, addition to bank including new vault, cost \$12,000; Thomas Lowry, brick dwelling, 63 Frank street, cost \$900; William McKay, addition to shop, 19 Sparks street,

cost \$2,000; J. W. Venn, brick veneer dwelling, 19 Rochester street, cost \$2,200; George Matthew, brick stable and alterations to house, 47 and 48 Gilmour street, \$3,000; Jas. Wilson, brick veneer dwelling, 17 Slater street, cost \$1,800. Edward Selby, brick veneer dwelling, 20 Cartier street, cost \$800. W. W. Stumbles, of the Marine and Fisheries Department, Ottawa, has gone to Goderich, Penetanguishene and Waubausene in connection with proposed harbor improvements at these places.

MONTREAL, QUE.—It is said that the capital has been subscribed for the proposed Longueuil bridge.—The directors of the Richelieu & Ontario Navigation Co. have decided to build another steamer.—The superintendent of the water department states that it will require about \$300,000 to make the necessary repairs and improvements to the waterworks system.—The Grand Trunk Railway Co. proposes to build a modern elevator on Windmill Point as soon as the consent of the harbor commissioners can be secured. The plans for same are being prepared by R. A. Waite, architect.—The Standard Light and Power Co. has notified the city council that it is the intention to proceed with the laying of conduits for its underground wires.—The C. P. R. have under consideration an immense irrigation scheme in the Northwest Territories, by which it is proposed to reclaim barren lands between Calgary and Medicine Hat. The report of James Anderson, engineer for the work, has been laid before the company, and it is understood that as an experiment 300,000 acres of the 3,000,000 barren acres will be put under irrigation.—Building permits have been granted as follows: H. Winer, two-storey house, 85 St. Famillee st., cost \$1,000 (Bernard & Paris, architects); Dame J. Cornier, three-storey house, Laval ave., cost \$4,330 (C. A.

Reeves, architect); A. Perrault, three-storey house and store, cost \$4,900 (J. Karch, architect); B. Charest, house and store, 290 Laurier ave., cost \$1,000 (Perrault & Lesage, architects); M. Kenny, three storey house, Dorchester street, cost \$2,500 (A. Chenevest & Cie, contractors); Wm. Rafferty, one and a half storey house and factory, Valle s., cost \$7,000 (H. A. James, architect); W. Boivin, dwelling, 520 St. Paul street, cost \$5,000 (Z. Resther, architect); Rev. Sers. Grises, house and two stores, St. Jacques st., cost \$2,500 (Jos. Venne, architect); F. Dansereau, three three-storey dwellings, Dorchester street, cost \$4,500 (J. B. Montbriant, architect); R. Dobbie, house on Paris street, cost \$2,000 (Isaac Collins, contractor).

TORONTO, ONT.—Tenders are wanted at Room 1,147 Yonge street, for erection of brick dwelling.—The question of erecting a Presbyterian church on the island was considered at a session of the Toronto Presbytery last week.—The Toronto Suburban Railway Co. are considering the advisability of extending their road to Cooksville.—At the opening meeting of the Medical Faculty of Toronto University on Tuesday last, the necessity of providing new buildings was pointed out. President Loudon stated that the accommodation in the eastern building and the biological building was inadequate.—It is proposed to construct a macadam roadway on Bredalbane street, from Yonge street to St. Vincent street, at a cost of \$1,800.—The city engineer has recommended the construction of the following local improvements: Brick pavement on Shannon street, from Ossington avenue to Dovercourt road, cost \$6,110; concrete sidewalks on Queen street, south side, Ontario to Parliament, \$1,213; Carlton street, south side, for 400 feet east of Sumach, \$368; King street, north side, Wilson avenue to

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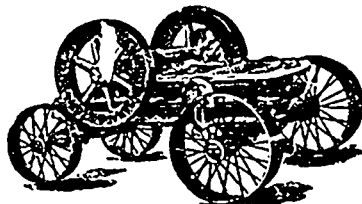
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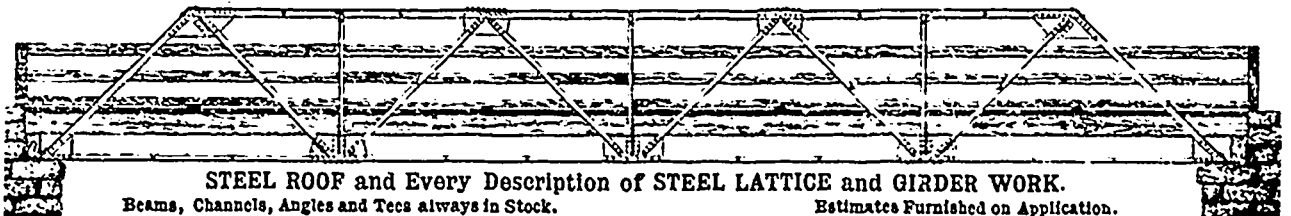


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STEEL ROOF and Every Description of STEEL LATTICE and GIRDER WORK.
Beams, Channels, Angles and Tees always in Stock. Estimates Furnished on Application.

Roncesvalles, \$1,108; Wellington street, north side, between Dorset and John streets, \$241.—Building permits have been granted as follows: Garrett & Hill, alterations and brick cellar at 93 and 95 Homewood avenue, cost \$1,000; J. F. Hynes, alterations to old Boisford store, corner Queen and Hackney street, for purposes of a hotel, cost \$6,000; Thomas B. Greening, four-story warehouse on old Upper Canada College grounds, cost \$20,000; W. Marks, pair brick dwellings, 27 and 29 Hamburg avenue, cost \$3,000; Pure Gold Mfg. Co., four-storey pressed brick factory, King street west, near John street, cost \$20,000.—A. P. Westervelt, secretary Provincial Winter Fair, invites tenders up to noon of Thursday next for the alterations and additions to the Winter Fair Building at Guelph. Plans at Mr. Westervelt's office in the Parliament Buildings.—Tenders close at noon to-day (Wednesday), for the supply of 100 toise of stone at the House of Industry, Elm street.—The corner stone of a new church for the congregation of the Church of Christ was laid on Friday last. The site is at the corner of Vaughan road and Helena avenue.—The city has given notice of its intention to construct a macadam roadway on Simcoe street, from Queen to Caer Howel street, at a cost of \$13,300.

FIRES.

Industrial school at Joliette, Que., totally destroyed; loss \$30,000.—Ice house of W. & D. Cushing at London, Ont.; loss \$3,000, no insurance.—Saw mill at Terra Nova, operated by R. H. Little, of Lisle.—Saw mill and lumber yard of Arthur Paquet in Montreal; loss \$10,000.—Building on Water street, St. Stephen, N. B., owned by J. S. T. Max-

ALWAYS IN STOCK

PIG LEAD, PIG TIN AND SOLDER

Syracuse Smelting Works, Montreal, P. Q.

well and Mrs. C. R. Maxwell; loss largely covered by insurance.—The opera house block at Truro, N. S., owned by G. Gunn, was burned on October 1st. The opera house was totally destroyed, also several stores. The loss is about \$50,000.

CONTRACTS AWARDED.

PRESCOTT, ONT.—The town has sold \$6,000 electric light debentures at a bonus of \$105.

WEST LORNE, ONT.—Mr. Drake, late of Alvinston, is about to commence the foundation for his box and basket factory.

GANANOQUE, ONT.—The Ontario Building & Savings Society, of Kingston, have purchased \$10,000 town debentures, at \$10,100.

BERLIN, ONT.—The following tenders were received by the county council for purchase of \$10,000 debentures: W. H. Brouse, Toronto, \$9,725 (accepted); G. A. Stimson & Co., \$9,675; Central

Canada Loan & Savings Co., Toronto, \$9,626.

BROCKVILLE, ONT.—W. C. Frendenburgh has secured the contract for building engine house at Westport for the Brockville and Westport Railway.

VICTORIA, B.C.—The contract for the new Government house has been let to Richard Drake; approximate cost \$50,000.

HULL, QUE.—The council have accepted the tender of the Trump Mfg. Co., of Springfield, Ohio, for a water wheel to run the electric light plant.

MEAFORD, ONT.—The J. F. Pease Furnace Co., of Toronto, have been awarded the contract for an ideal ventilator and heater for the public school here.

ST. JOHN, N.B.—Freeze Bros., of this city, have been awarded the contract for galvanized iron work on the Higgins and Senator McSweeney buildings at Moncton.

Pumping Machinery
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Power Pumps
Duplex Pumps
Electric Pumps
Artesian Well Pumps
Compressed Air Pumps

We are prepared to equip municipal or other water works plants with Pumping Machinery of the latest and most approved designs. We manufacture Steam and Power Pumps of all types, for any duty. Our long experience is behind all our products. They are the standard in Canada for excellent service. Catalogues and specifications on request from The Northey Company, offices and workshops at Toronto, Ont.

We have several excellent second hand pumps in first-class condition for water works services at close prices. Send for Catalogues.

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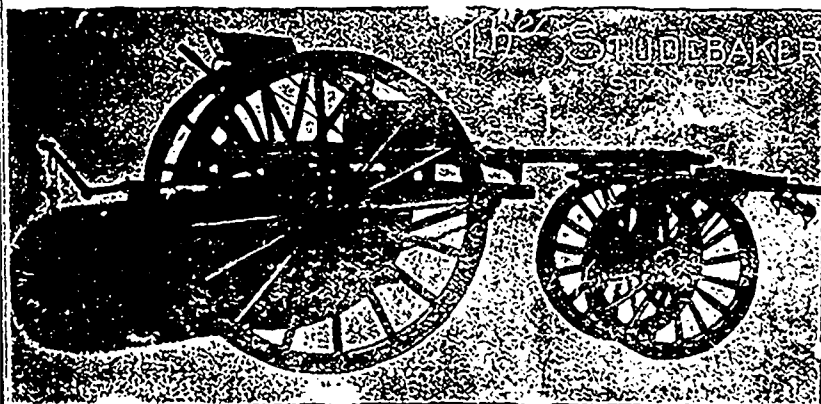
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patent Improved **Street Sweeping Machine** is the Standard of Perfection.

Because no sweeper so effectually does the work it is designed as "The Studebaker."
It Sweeps Clean. No sweeper is constructed with the same degree of care and mechanical precision.
It Wears Well. "The Studebaker" has the smallest possible number of working parts, and has less than any other sweeper made. It is free from unnecessary complications. With reasonable care it will get out of order. Send for complete descriptive catalogue.

Geo. Heaman, Mfr., London, Ont.

OTTAWA, ONT. — Holbrock & Sutherland have been awarded the contract for improvements to the American Bank Note building and for building a store house; estimated cost, \$25,000.

TORONTO, ONT. — The Mackey Stained Glass Co., of this city, have secured the contract for the stained glass windows for the Presbyterian church at Fordwich; Rev. Mr. Dobson, Pastor.

WINNIPEG, MAN. — The contract for the new Canadian Northern station at St. Boniface has been let to Mayor Senecal, of that place; estimated cost, \$5,000. — Tenders were received as follows for erection of a crematory building. B. Ritchie, \$3,979; William Bryson, \$3,900; S. B. McComb, \$3,581; R. McElvany, \$3,553; city engineer, \$3,375. The work will be done by the city engineer.

NIAGARA FALLS, ONT. — It is expected that the contract given to A. C. Douglas by the Canadian Niagara Power Company will take about 18 months to complete. The tunnel will be 2,200 feet long and will be through soft clay shale on the top, which will be required to be timbered, and in limestone on the bottom, and will be lined with 16 inches of brick work throughout, except at the portal, where the work will be of limestone and granite masonry.

REAL ESTATE TRANSFERS.

The following recent transfers of property in Toronto have been registered:

Michael Ryan to Edward Hughes, 90 x 150 ft. in rear of east side of Jones avenue, assessed at \$34.

Imperial Loan Co. to D. M. Macdonald, 50 x 178.7 north side Woodlawn avenue, being lot 41, plan 669, assessed at \$1,000.

John J. Walsh to Louisa Weismiller, 25x100, rear of Henley street, being southerly part lot 1, plan 1,128, assessed at \$100.

John J. Walsh to Hannah M. Richards, 25x100, rear of Henley street, s.s., being southerly part lot 2, plan 1,128, assessed at \$100.

Emerson Coatsworth to Asynath King, 17x130 north side Lake front, east of Woodbine avenue, being part lot 49, plan 198E; assessed at \$1.

O. B. Macklam to V. Robins, 35x143.9, east side Dunbar road, assessed at \$1,225.

Toronto General Trusts Co. to Wm. Reeve, 21,6x132, east side Ontario st., being part lots 11 and 12, block 5, plan 193, assessed at \$1,650; total assessment, \$2,490.

Thomas Ward to Alex. R. Auld, 232 x118, south side South Drive, being lot 3, plan 39E, assessed at \$3,750.

Rev. Robert Cade to Joseph T. V. May, 33x146, east side Delaware avenue, being parts lots 9 and 10, block O, plan 328, assessed at \$330.

Thomas Boland to John Boland, 88 x 472, south side Paton road, being lot 32, plan 392, assessed at \$440.

George Burnfield to Agnes Macfarlane, 85x129, east side Indian road, being parts

lots 3 and 4, block A, plan 77, assessed at \$340.

Robert A. Stevenson to York County Loan & Savings Co., 45x125 west side Roncesvalles avenue, being block E, plan 729, assessed at \$450.

Canada Landed & National Investment Co. to Walmer road Baptist church, 50x130, east side Christie street, being lots 109 and 110, plan 560, assessed at \$300.

Protestant Orphans Home to Andrew Little, 24.2x100 west side Portland street, being part lot 11, section C, military reserve, assessed at \$735; twenty-one year lease at \$60 per year.

Central Canada Loan & Savings Company to James J. Foy, 33.8x120, north

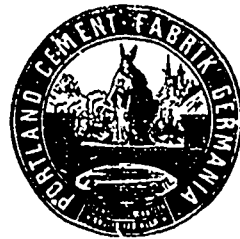
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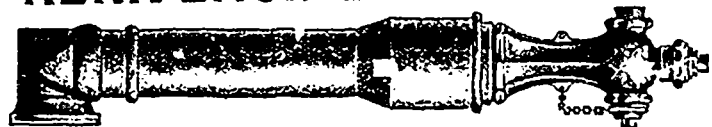
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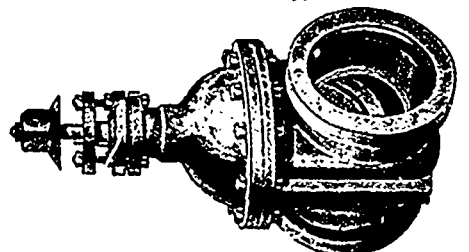
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side Arthur street, being lot 42, plan 748, assessed at \$606.

Henry S. Mara to Eleanor Nash, 25x142, east side Lansdowne avenue, being part lot 28, plan 525, assessed at \$2.

John A. Walker to Thomas Urquhart, 30x140, west side St. Clarens avenue, being part of lot 23, plan 588, assessed at \$210.

Esther A. Drummond, to Thomas Urquhart, 33.8x134, east side St. Clarence avenue, being part lot 22, plan 152, assessed at \$210.

Wm. H. Draper to Wm. H. Ashworth, 21.4x127 west side Brunswick avenue, being part lot 206, plan 608, assessed at \$425.

Florence Sadd to Daniel Schwalm, 45x137 west side Ossington avenue, being lot 23, block K, plan 329, assessed at \$720.

Lucy M. Carlaw to Canadian Kodak Co., 51x187, north side of King street, being lot 2, plan 1086, assessed at \$2,250.

Land Security Co. to Jane Denver, 20x120, north side Hallam street, being part lot 43, plan 861, assessed at \$100.

John H. Mills to Charlotte McWilliams, 270x100 south side Maplewood avenue, being lots 10 to 18, plan 826, block D, assessed at \$198.

Andrew Reddick to Frederick S. Watson, 217x130, south side Bloor street, being part lot 1 and all lots 2 to 6, block A, plan 430, assessed at \$868.

Peter B. Whytock to Wm. C. Norman, 133x80, north side Arthur street, being parts lots 1 and 6, block II, plan \$399, assessed at \$1,066.

Wm. C. Norman to Douglas Ponton, 48x209, south side of Queen street, assessed at \$595; also lands described above; total assessment, \$1,661.

Fred A. Brophy to Samuel B. Herbert, 48x115, west side Pape avenue, being lot 15 and part lot 16, plan 718, assessed at \$432.

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The Acetylene Gas
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LONDON - - ONT

Lizetta Bedford to Walter Littleford, 50x125, south side Hunter street, being part lot 11, assessed at \$100.

Lizetta Bedford to Benjamin Bedford, 40x120, south side Hunter street, being part lot \$11, assessed at \$80.

Lizetta Bedford to Edward Holliday, 40x125, south side Hunter street, assessed at \$80; and 131x233, in rear of south side of Hunter street, assessed at \$140; total assessment \$220.

Trustees of University of Toronto to Thomas B. Greening, 60x185, north side King street, east of John street, assessed at \$5,400.

STONE AND WOOD FOR BUILDING.

According to a recent article in the Morning Post, by W. E. Martin, neither porosity nor weight, nor resistance to strain nor chemical composition is alone to be considered in judging the durability of a building stone. A series of experiments conducted by the writer has convinced him that the physical condition in which the competent minerals exist in a stone has much to do with its durability, and taken into consideration with the various properties enumerated above it has everything to do with it. The ring of a stone under a chisel struck smartly with a heavy mallet is a good index to its weathering properties, for it tells of the physical condition in which the materials exist in the stone; and an intelligent workman being consequently in an unique position to decide on the goodness or badness of any stone which may pass under his hands, he should be relied on in this matter by whoever takes an interest in erecting a durable building.

Less, he remarks, is known of the structure and properties of timber than of any other material which passes through the builder's hands. This ignorance is frequently shared by the architect, who is apparently indifferent as to whether the wood used under his superintendence is likely to last a reasonable time or perish by premature decay. When about the beginning of the sixteenth century the use of oak was gradually being abandoned in this country, hewn pine logs, cut from large trees grown in provinces bordering on the Baltic, were imported to replace the home-grown timber. This has since completely superseded oak in all our public and private buildings, but when it was

first introduced great prejudice existed against its use, for workmen could not be made to understand that a roof of it would answer the purpose nearly as well as oak and be much cheaper. True, now that the tide of public opinion has set the other way no one thinks of using oak, except occasionally in churches, any rubbish shipped from Sweden, Russia or Canada being good enough for the jerry-built structures found in all our towns.

To gauge the change in this respect one has only to try to realize what the difference is between a piece of "heart of oak" and an "inferior fifth" quality of Swedish deal, a by no means uncommon class of building timber in England at present. Soon after the removal of the timber duty (in 1866) the country was flooded with foreign-sawn scantlings, chiefly planks, deals and battens, which varied in size from 11 in. by 4 in. to 7 in. by 2½ in., and these largely displaced the logs hitherto sent, for they saved sawing and were consequently cheaper than the same sizes cut from logs here. This flood of foreign-sawn timber continues to increase, while the sizes of scantlings diminish, and the quality of the timber goes from bad to worse. Logs of reasonable size must be cut from well-grown large-size trees, but a 4 in. by 2 in. rafter can be and is cut from a scaffold pole nearly all sapwood. On many scantlings, including flooring boards, the bark may be seen where the corners are "waney" and do not hold the full-sized specified, which is another growing fault with these imported pieces. In fact this marked deterioration of foreign-sawn timber is so well known that it is rigidly excluded from many important works, and such timbers only allowed which are cut from large logs especially selected as free from sap, shakes and large knots.

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Correspondence invited.

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IF NOT, WHY NOT ?

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We beg to refer to a few of the following places where we have installed Tower Clocks, all of which are considered correct standards of time.

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" " STRATFORD, "	" " PETROLIA, ONT.
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In connection with the Evening Telegram clock, there are twelve electric clocks running correctly since they were installed in November, 1899.

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Manufacturers of Tower Clocks, and Contractors for the Installation of Electric Time Systems and Office Regulators.

Kind of clock—time or strike.....

Number of dials.....

Are dials to be illuminated?.....

Diameter of dials inside moulding.....

Square of tower from dial to dial inside.....

Are the dials above or below the clock floor?.....

How far from centre of dials to clock floor?.....

Is there a bell?—if so, give weight.....

Will a bell be required—if so, of what weight?.....

Will bell be above or below dials?.....

Will bell be above or below clock floor?.....

Fall of weights.....

Name of building in which clock is to be placed.....

.....

.....

Our Optical Department

is in charge of qualified Opticians who are always at your disposal.

If your eyes trouble you a consultation with them will afford you much satisfaction, and for which there is "NO CHARGE."

All the latest and improved patterns of Spectacles and Eye Glasses and Silk and Gold Eye Glass Guards, etc., will be found in this Department.

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MUNICIPAL DEPARTMENT

FRENCH PRACTICE IN THE MANUFACTURE OF CAST-IRON PIPES.

Continued from last week.

The pattern of socket mostly adopted by engineers on the Continent and abroad is similar to that used by the Post Office authorities in London for cable pipes, and admits of a straight pipe being set at an angle of 1 in 24 without allowing the pressure of water to come in contact with the caulking material, as the spigot even at this angle, sits tightly on the seating of socket. As it is seldom that a line of pipes is laid perfectly straight, and difficulties invariably arise in making and joints at all angles and curves, the advantage of employing the socket and spigot above referred to will be readily appreciated. The greater lengths of pipes used on the Continent also affects a saving in the jointing, owing to the reduction in the number of joints. The risk of leakage is also reduced for the same reason.

Providence seems to have specially favored France in providing her with the finest sand for foundry purposes, large quantities of which are imported into Great Britain. The fine skin seen on French pipes is attributable not only to the careful mixing of the pig-iron, but also to the quality of sand in which they are cast.

The standard lengths of cast-iron pipes in use on the Continent are, as has already been stated, longer than those adopted in this country. The following table gives a comparison between the French and English standards.

FRENCH PIPES.		BRITISH PIPES.	
15 in. and 2 in. to lay 2 metres 50 (8 ft. 2 in.)	3 1/2 in.	2 in.	to lay 6 ft. 0 in.
2 1/2 in. to 8 in. " 3 " (9 ft. 10 1/2 in.)	4 in.	2 1/2 in. to 15 in. " 9 ft. 0 in.	
9 in. and upwards " 4 " (13 ft. 7 in.)		12 in. and upwards " 12 ft. 0 in.	

The saving in the cost of laying secured by the longer lengths totals up very considerably, when the reductions in jointing material, weight of sockets, weight of lead and iron, and in men's time are taken into consideration.

The weights of French pipes are about the same as English vertically cast, but owing to the quality of metal used the French founders claim to be able to work a lighter specification under similar conditions as regards pressure.

DEBENTURES

Municipalities contemplating the issue of Debentures will find it to their advantage to communicate with

G. A. STIMSON & CO.

Investment Dealers
24 and 26 King St. W. TORONTO

The specification adopted by the General Post Office, London, for cable pipes is largely used by French pipe-founders in supplying other European towns, South America, Japan and the East. It is also to be observed that the smaller diameters of pipes are not usually made in this country, and therefore such orders must be given to continental firms.

The coating for pipes generally used in France is Dr. Angus Smith's process, the pipe being reheated and lowered into a hot bath of solution, as in this country. The ordinary test is generally 26 atmospheres, although this is sometimes increased to 800 feet head of water in special cases.

Ever since discoveries in metallurgy permitted of the manufacture of cast-iron pipes this metal has been used for the distribution of water under pressure to the exclusion of nearly every other, and owing to the convenience and cheapness of casting pipes to any required shape and length and the natural resistance of cast-iron to oxidation, its supremacy for the purpose is practically undisputed. At the same time, the development of public water service and the increases of volumes and pressures have created new conditions which have revealed certain deficiencies in cast-iron as a material for the manufacture of water mains. For small-diameter pipes cast-iron answers perfectly well, and is adaptable to all contingencies; but as the

diameter and pressure are increased difficulties arise in connection with the transporting of such heavy pipes, and there is a natural disposition to reduce the thickness as much as possible, with a consequent sacrifice of security. This is the more serious in view of the fact that with pipes of large diameters a shock, which may be quite immaterial in the case of small-diameter pipes, attains with a larger volume of water a tremendous intensity, and cast-iron, although well adapted to resist regular and progressive pressure, is totally incapable of resisting even comparatively slight pressures if they occur in the form of sudden and instantaneous shocks.

It is to remedy these difficulties, and to give to cast-iron pipes a greater resistance against such shocks, that M. Jacquemart has introduced the system of winding steel wire, under pressure, round the extremities of the pipes, and in grooves cast in the body of the pipes.

(To be continued.)

Mrs. Joseph Galarneau has registered proprietress of the business of Joseph Galarneau, plumber, Montreal.

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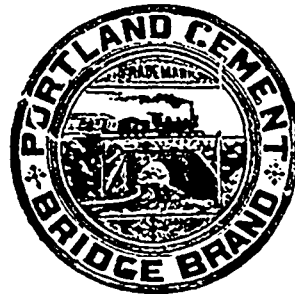
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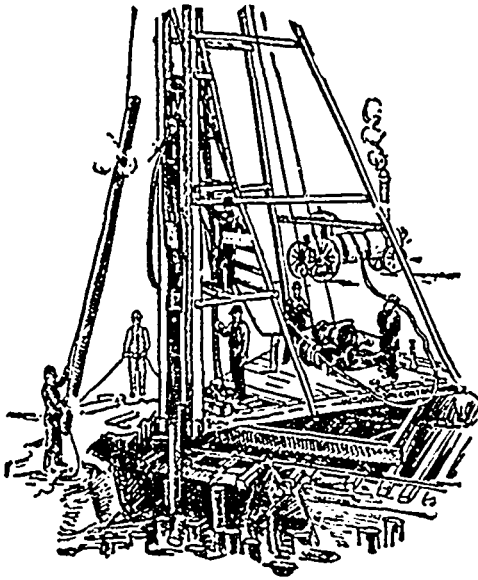
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3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

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Prices of Building Materials. PRESSED BRICK, Per M.

Table listing prices for pressed bricks in Montreal, Ontario, and F.O.B. prices. Includes items like Red No. 1, Buff No. 1, Roman Red, etc.

TERRA COTTA PRESSED BRICK WORKS.

Table listing prices for terra cotta bricks in Montreal, Ontario, and F.O.B. prices. Includes items like Red No. 1, Buff No. 1, Roman Red, etc.

TORONTO PRESSED BRICK AND TERRA COTTA WORKS.

Table listing prices for Toronto pressed bricks and terra cotta works in Montreal, Ontario, and F.O.B. prices. Includes items like Red No. 1, Buff No. 1, Roman Red, etc.

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Leonard, H. Mackey Stained Glass Co... .

McKenzie's Stained Glass Works... .

The Robert McCausland Stained Glass Co... .

Shingles and Slat. Metallic Roofing Co., Ormsby & Co., A. B. Roofers Supply Co., T. C. Pedlar People... .

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Bradshaw, W. A. Winsor Plaster Co... .

Wire Lathing. The B. Greening Wire Company... .

Metallic Roofing Co... .

Window Cord. Samson Cordage Works... .

Beamsville, Montreal.

Table listing prices for Beamsville and Montreal materials. Includes items like Buff Peerless, Roman Red, etc.

STONE.

Table listing prices for stone materials. Includes items like Common Rubble, Large flat Rubble, Granite, etc.

F.O.B. Halifax.

Table listing prices for F.O.B. Halifax materials. Includes items like Dimension stock granite, Paving sets, etc.

CREDIT VALLEY STONE.

Table listing prices for Credit Valley Stone materials. Includes items like Rubble, Brown Coarsing, etc.

SLATE.

Table listing prices for slate materials. Includes items like Red, Purple, etc.

CEMENT, LIME, etc.

Table listing prices for cement and lime materials. Includes items like Portland Cements, Fire Bricks, etc.

ARCHITECTURAL VARNISHES.

Table listing prices for architectural varnishes. Includes items like Exterior weathering body, Elastonia, etc.