

# CANADIAN Contract Record

*A Weekly Journal of Public Works, Tenders,  
Advance Information and Municipal Progress*

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. 15.

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No. 34

## THE CANADIAN CONTRACT RECORD

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## TENDERS FOR Heating System

Sealed Tenders will be received by the undersigned, up to OCTOBER 10TH, at 5 p. m., for the installing of a hot water heating system in the West Ward School, in the Town of Midland. Plans and specifications may be seen at the office of the secretary. A marked check equivalent to 10 per cent. of the contract price to accompany each tender. The lowest or any tender not necessarily accepted.

THOS. I. TRUERMANN, Secy. P. S. Board.  
Midland, Sept. 21, 1904.



## Notice to Contractors

### TENDERS FOR STEEL ROOF NEW ENGINE HOUSE, MAIN PUMPING STATION

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to OCTOBER 11TH, 1904, for the construction and erection of the Steel Roof Principals and Purtils over the New Engine House at the Main Pumping Station of the Toronto Waterworks.

Envelopes containing tenders must be plainly marked on the outside as to contents. Plans and specifications may be seen and forms of tender obtained at the office of the City Engineer on and after the present date.

The usual conditions relating to tendering as prescribed by the City By-law must be strictly complied with.

The lowest or any tender not necessarily accepted.

THOMAS URQUHART (Mayor),  
Chairman Board of Control.  
City Hall, Toronto, Sept. 24th, 1904.

## BRICK CLAY FOR SALE

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## TENDERS

### Collegiate Institute Building GALT, ONTARIO

Separate or lump tenders for the various trades, addressed to Thomas Carscadden, Secretary Collegiate Institute Board, Galt, Ont., will be received until 6 o'clock p. m. of MONDAY, OCTOBER 17TH, 1904, for the erection and completion of a proposed Collegiate Institute Building at Galt, Ontario, to be erected on the site of the present Collegiate Institute Building, formerly the Dr. Tassie School.

Drawings and specifications can be seen, and all other information obtained at Galt, also at Hamilton, Ontario, at the offices of the Architects, Stewart & Wilton.

The lowest or any tender not necessarily accepted.

## CONTRACTS OPEN.

ATHENS, ONT.—A new residence will be built by E. Taylor.

KNOWLTON, QUE.—L. G. Green will build a large addition to his hotel.

KENSINGTON, P.E.I.—Plans are being prepared for a new station here.

MEAFORD, ONT.—Knight & Son are considering the extension of their factory.

PERTH, ONT.—James Reid has decided to rebuild his foundry on a larger scale.

CRANBROOK, B.C.—Plans have been prepared for a new fire hall, two stories.

LEAMINGTON, ONT.—George Fox will build a grocery store on Erie street.

FROCKINSVILLE, ONT.—George Bingham purposes building a new residence.

HILLSBORO, N.B.—A waterworks system for fire protection purposes may be installed.

CHATHAM, N.B.—The Underwriters have recommended that the town install a fire alarm system.

NEW WESTMINSTER, B. C.—It is reported that the Great Northern Railway Company intend establishing large car shops at this place.

STREETSVILLE, ONT.—A by-law to raise \$3,000 to install an electric high plant was defeated by the ratepayers.

MORDEN, MAN.—The Manitoba Cement Co. have decided to start work at once on their new mill.

RED DEER, N.W.T.—The citizens have voted in favor of the construction of a waterworks system.

PETERBORO, ONT.—Improvements are to be made to the post office building here, at a cost of \$4,000.

CHICOUTIMI, QUE.—The Dominion Government have selected a site here for a new post office.

PORT ELGIN, N.B.—The Underwriters have advised the Council to purchase a chemical fire engine.

MONTMAGNY, QUE.—A site or a new post office here has been purchased by the Dominion Government.

ST. GEORGE, N.B.—The construction of a waterworks system has been recommended by the Underwriters.

ST. JOHNS, QUE.—The trustees of the Catholic church have decided to build a residence for the caretaker.

MILLBANK, ONT.—The congregation of Grace church have decided to build a new edifice, at a cost of \$5,000.

STONY CREEK, ONT.—A concrete lock-up is to be built here from plans by Stewart McPhee, architect, Hamilton.

CENTREVILLE, N.B.—The construction of a 150,000 gallon stand pipe has been recommended by the Underwriters.

KASLO, B.C.—George Alexander has been granted exemption from taxation in consideration of his installing an electric light plant.

BERLIN, ONT.—The City Council are looking into the question of the advisability of constructing block asphalt pavements.

FALKENBURG, ONT.—William Naismith wants tenders for construction of a bridge on town line one mile from Bracebridge.

FORT WILLIAM, ONT.—The town engineer has been instructed to report on a sewerage system to cover the west end of the town.

HENSALL, ONT.—A by-law to loan \$5,000 to W. Kelehan to establish a machine shop here was carried by the ratepayers last week.

OWEN SOUND, ONT.—The Queen City Oil Company have been given permission to build an oil storehouse within the corporation limits.

STURGEON FALLS, ONT.—It is understood that the Imperial Paper Mills Co. will erect a mill to make book paper

at Smoky Falls, 12 miles up the river from this place, and connect the two by a railway.

**CHATHAM, ONT.**—S. F. White has just taken tenders for a steel bridge to be built over Government drain No. 2, in Township of Raleigh.

**CARBERRY, MAN.**—Negotiations are being carried on with Mr. Boyce, of Portage la Prairie, for the establishment of an electric plant here.

**DAUPHIN, MAN.**—Bids desired by W. Smith Jackson, up to 8 p.m. of Thursday, 6th inst., for purchase of \$4,500 5 per cent. school debentures.

**TEESWATER, ONT.**—The ratepayers will vote on a by-law on October 25 to grant a loan of \$2,000 to Arcscott Bros. to extend their tannery.

**TILSONBURG, ONT.**—A. E. Baynes, Town Clerk, will receive bids up to October 15th for digging about 1,000 feet of trench for water pipes.

**ATWOOD, ONT.**—The Municipal Clerk of the Township of Elma has been instructed to invite tenders up to October 17th for improvement of the Wilson drain.

**BRANDON, MAN.**—John Fry is about to erect new livery stables 40x80 feet, frame and metal clad with cement foundations, from plans by Architect Marshall.

**KINCARDINE, ONT.**—The Board of Education will immediately engage an architect to prepare plans for enlarging the High school building; estimated cost \$7,500.

**KINGSTON, ONT.**—The City Council have given J. W. Campbell permission to build a transmission line from his power plant at Kingston Mills to his mill in this city.

**RAINY RIVER, ONT.**—A by-law to issue debentures for \$3,500 for erection of a town hall and fire hall station was unanimously carried by the ratepayers last week.

**REGINA, N. W. T.**—J. K. Hunter, Secretary-Treasurer of the Corporation, is this week taking tenders for the construction of three water tanks for fire protection.

**GRAND FALLS, N.B.**—The Underwriters have recommended a pumping station, arrangement for auxiliary service, and a 250,000 gallon stand pipe for fire protection.

**ORILLIA, ONT.**—An engineer's report on the installation of a sewerage system places the cost at \$100,000, which would provide 54,872 feet of tile pipe sewers.

**RAT PORTAGE, ONT.**—The directors of the Rat Portage Lumber Co. are said to have decided to rebuild their sash and door factory in Winnipeg instead of at this place.

**BATHURST, N.B.**—The Board of Underwriters have requested that the town obtain a water supply for fire protection by gravitation or by building nine tanks of 10,000 gallons each.

**FREDERICTON, N. B.**—Tenders are invited by the Commissioner of Public Works for substructure and superstructure of the New River Mills bridge, Restigouche County.

**TORONTO JUNCTION, ONT.**—H. G. Brown will build a \$3,000 brick residence on Gothic ave.—Changes will be made in the specifications for plumbing at the Western avenue school.

**WOODSTOCK, N. B.**—The Department of Public Works, Ottawa, are asking for tenders up to Monday, October 10, for the construction of an armory at this place. Plans at the office of F. B. Carvell, barrister, and at the Department, Ottawa.

**STRATFORD, ONT.**—The Grand Trunk Railway have commenced the construction of their own waterworks system. The supply will be obtained from a small lake a few miles distant. Estimated cost, \$20,000.

**GLADSTONE, MAN.**—The municipal councils of Westbourne and Lansdowne will let the contract this week for the construction of a Warren steel truss bridge with concrete abutments over the White Mud river.

**COLLINGWOOD, ONT.**—The question of providing dock accommodation was considered at a meeting of the council last week, and it is probable that plans will be prepared and tenders asked for the work at once.

**GEORGETOWN, ONT.**—The Canada Coating Mills Co., Ltd., of Toronto, have broken ground here for their new mill. The main building will be 200x80 feet, with a wing 56x30 feet. John R. Barber, M.P.P., is interested.

**GALGARY, N.W.T.**—Tenders have been invited for the erection of a six storey building for T. J. S. Skinner.—Application has been made for a charter for a railway to extend from Calgary to the Nee Hill coal mines, a distance of 70 miles.

**CREEMORE, ONT.**—None of the tenders for construction of proposed waterworks system have been accepted by the council. The contractors were unable to guarantee that they would complete the work this fall on account of the scarcity of pipe.

**MONCTON, N.B.**—D. Pottinger, manager Intercolonial Railway, desires tenders by Monday, 10th inst., for erection of a station building, freight shed and out-buildings at Mitchell, Que., and a station building and freight shed at Aulac, N.B.

**OCHRE RIVER, MAN.**—Tenders will be received by Thomas S. Curtis, Secretary-Treasurer of the municipality, up to Monday, 8th inst., for the supply of one dozen slush scrapers, two wheel scrapers, two steel reversible road scrapers and one elevator grader.

**ST. JOHN, N.B.**—A committee of the City Council has unanimously recommended the adoption of the report of Mr. Barbour, of Boston, on the extension of the waterworks system. The proposal is to extend the service to Loch Lomond, at a cost of \$168,000.

**VICTORIA, B. C.**—R. Marpole, superintendent of the Canadian Pacific Railway, Vancouver, has just taken tenders for the construction of a warehouse on the company's wharf in this city.—S. McClure, architect, has prepared plans and taken tenders for a frame residence to be built on Belcher street.

**ST. CATHARINES, ONT.**—L. K. Jones, Secretary Department of Railways and Canals, will receive tenders up to 10th inst. for the substructure of a new bridge crossing the Welland canal at Niagara street, this city. Plans at the office of the Superintending Engineer.

**ARCOLA, N.W.T.**—J. J. Murison, Secretary-Treasurer, will receive tenders up to October 10 for building a town hall, 40x60 feet, solid brick, two stories, containing council chamber, fire engine room and stalls, lock-up and public hall. Plans by W. A. Elliott, architect, of Brandon.

**LONDON, ONT.**—It is again reported that the Grand Trunk Railway contemplate the erection of a new station in this city.—A. O. Graydon, City Engineer, has just taken tenders on the construction of sewers on Colborne and Nelson streets and Queen's ave.—Mathews & Murray, architects, are preparing plans for an addition to a store on Dundas street for Geo. McCormick.

**NEWCASTLE, N. B.**—The new building here for the Royal Bank of Canada will be commenced immediately and will be two stories, brick with stone trimmings.—The Council have been requested to increase the waterworks reservoir to 20,000 gallons by January 1st, 1905, in which case a reduction in insurance rates is promised.

**SYDNEY, N.S.**—William Owen, an expert engineer of London, Eng., is here in connection with the preparation of plans for extensive additions and improvements to the Dominion Iron & Steel Co.'s plant. It is understood that the new additions will comprise rail and finishing mills and a new dam for the water supply at Sydney river.

**SEAFORTH, ONT.**—The Canadian Furniture Manufacturers, Limited, contemplate the erection of a factory here for the manufacture of interior fittings, mantles, etc., to be brick, three stories, 60x150 feet.—George A. Sills will receive tenders up to Friday, 7th inst., for erection of a skating and curling rink, frame on cement foundation.

**INDIAN HEAD, N.W.T.**—John Galt, C.E., of Toronto, has reported to the Council that the Squire Hill's spring, 8 miles west of the town, will furnish a daily supply of 150,000 gallons of water when properly developed. The cost, including an electric lighting plant, is placed at \$87,000.—The E. S. Harrison Co., of Winnipeg, are exploiting a scheme for establishing an electric plant for this place, and public sentiment appears in favor of accepting their proposition.

**NIAGARA FALLS, ONT.**—New tenders will be invited for Section 14 of the sewerage system.—A committee has been appointed to take steps looking to the erection of a hospital, H. E. Simpson being secretary. It is estimated that a suitable building can be erected and equipped for \$25,000.—F. McClive will erect a new building on Queen street.—John V. Eitle has sold his house on Walnut street and will build another.—John Armstrong is about to build two houses, one on Bridge street, the other on Victoria avenue, and Harry Symmes intends building a house.

**HAMILTON, ONT.**—An order-in-council has been passed at Ottawa approving of the purchase of certain properties to permit of the extension of the drill hall in this city.—Building permits have been granted as follows: Thomas Lovejoy, four brick houses, corner Wentworth and Cannon streets, cost \$6,400; William Johnson, four frame cottages, corner Hughson and Macaulay streets, cost \$1,600; W. A. Noble & Co., three houses, corner Hannah and Caroline streets, cost \$4,500; John Shuart, brick house on Queen street, between Markland street and Aberdeen avenue, cost \$2,000, and another of same value on Stanley avenue, between Kent and Queen streets.—The Gurney-Tilden Co. purpose building an addition to their works.

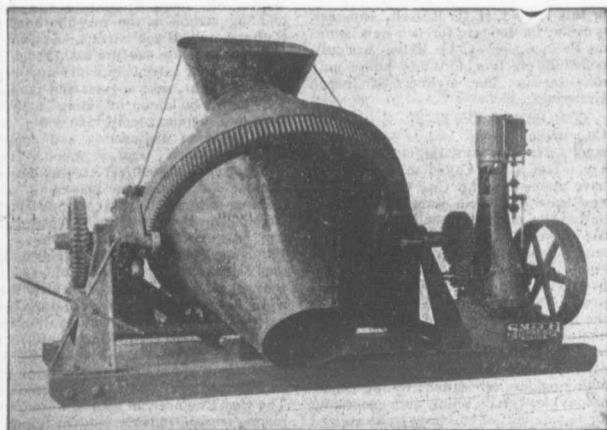
**VANCOUVER, B. C.**—The British Columbia Electric Railway Company, who have absorbed the Vancouver Gas Company, purpose making a large addition to the office buildings at the corner of Carrall and Hastings streets, work on which will be commenced early next spring. An extension of the gas plant is also proposed.—It is probable that the Council will construct vitrified brick pavements on some of the streets.—The Capilano Lumber Co. have decided to rebuild their saw mill burned last week. A large flume will also be constructed for floating the logs from the limits to the mill.—Harvey Hadden, an Englishman, has purchased a lot on the north side of Hastings street, between Abbott and Cambridge street, on which he will erect



a modern two-story Tenders will be construction of a

**MONTREAL** mond Pulp Co., city, are reported plans for the ere mills at St. Ra committee of the was held last we tion of a new by corner of St. La street is consid —The Protestan missioners will the erection of Mount Royal The wing to t comprise from while a smaller the Lansdowne posed to build Catherine street

**OTTAWA,** M.P.P., H. K. ganizing the B Co. It is prop this city in wh notes.—An ass the Ottawa Loic Association a few days agr erect a free ho connection wit near Gravenh offered to prep the building, v about \$3,500.-to construct a Daly ave., froi at a cost of walks on an understood th is taking tend system to be Montreal.—T the Departm up to Tuesda leak through Galops canal, Iroquois sec Department Superintende burg, Ont.—Board of V Wednesday, tion of a bitu street, betw streets, and stone setts i Nicholas str Wilbrod stre



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a modern two-storey brick building.—Tenders will be invited at once for the construction of a septic tank.

MONTREAL, QUE.—The St. Raymond Pulp Co., with head offices in this city, are reported to have completed plans for the erection of pulp and paper mills at St. Raymond, Que.—A special committee of the Chambre de Commerce was held last week to consider the erection of a new building. The south-west corner of St. Lambert hill and St. James street is considered the most suitable site.

—The Protestant Board of School Commissioners will commence immediately the erection of additions to the Aberdeen, Mount Royal and Lansdowne schools. The wing to the first two schools will comprise from eight to twelve rooms, while a smaller addition will be made to the Lansdowne school. It is also proposed to build a new Senior school on St. Catherine street.

OTTAWA, ONT.—Denis Murphy, M.P.P., H. K. Egan and others are organizing the British Canadian Bank Note Co. It is proposed to erect a building in this city in which to manufacture bank notes.—An association to be known as the Ottawa Local of the National Sanitarium Association, was formed in this city a few days ago, the object of which is to erect a free hospital for consumptives in connection with the Muskoka Sanitarium near Gravenhurst. J. W. H. Watts has offered to prepare the necessary plans for the building, which is expected to cost about \$3,500.—The City Council intends to construct a tar macadam pavement on Daly ave., from King to Nicholson street, at a cost of \$8,308, and concrete sidewalks on a number of streets.—It is understood that the Postmaster General is taking tenders for the pneumatic tube system to be installed in Toronto and Montreal.—Tenders will be received by the Department of Railways and Canals up to Tuesday, 11th inst., for stopping leak through the south bank of the Galops canal, at the west end of the Iroquois section. Plans at the above Department and at the office of the Superintendent of Operation, Morrisburg, Ont.—James Davidson, Chairman Board of Works, desires tenders by Wednesday, October 12th, for construction of a bitulithic pavement on O'Connor street, between Wellington and Queen streets, and an asphalt pavement with stone sets in the track allowance on Nicholas street, between Rideau and Wilbrod streets.

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WINNIPEG, MAN.—J. J. Roy, of the Department of Public Works, Ottawa, was here last week looking over the route of the canal which it is proposed to construct between the Assiniboine river and lake Manitoba. The canal will be 15 miles long.—It is understood that the Canadian Pacific Railway Company are considering a scheme for improving the grade over the Selkirk mountains at Rogers Pass. The plan is to construct a tunnel about three miles in length through the mountain between Glacier and Bear Creek.—The Department of Public Works, Ottawa, are asking for tenders by Friday, 14th inst., for the construction of a magazine in this city. Plans on application to James Chisholm, architect.—John Woodman, architect, has been commissioned to prepare plans for a commercial building to be built on the south-east corner of Portage ave. and Donald street, 132x30 feet, six stories.—James Chisholm, architect, is this week taking tenders on a residence on Colony street for F. Jakeway.—A. & W. Melville, architects, have just taken tenders on additions and alterations to the Bethel Methodist church, Alexandria avenue.—C. J. Brown, City Clerk, desires tenders by Monday, October 10, for the supply of 986 tons of water pipe of different sizes.—Tenders are invited for alterations to the Central fire hall. Plans by A. & W. Melville, architects.—S. F. & W. A. Peters, architects, have in hand a stone and brick warehouse to be built on Market street east for Pilkington Bros.—The Board of Young church have unanimously decided to double the seating capacity of the church at once.—It is understood that Darling, Pearson & Over, architects, have completed the

plans for new post office to be built in this city. The foundation will be put in this fall.—J. H. G. Russell, architect, is calling for tenders for two new stores on Portage ave.—C. O. Kelley has postponed the erection of his new house until next spring. The architect is Joseph Greenfield.

TORONTO, ONT.—A. E. Rae & Co., manufacturers and importers, will erect a five-storey building at 97 Spadina ave.—The Royal Canadian Yacht Club have applied to the City Council for a new lease of certain water lots for the purpose of rebuilding their club house.—Mr. Cawthra Mulock has offered to donate the sum of \$100,000 to build and equip a separate building for an outpatient department at the General Hospital. The offer has been accepted by the Board of Trustees and the preliminary matters pertaining to the erection of the building will likely be considered at an early date.—The Board of Control are taking tenders up to noon to-day (Wednesday) for certain piling and concreting for foundations of buildings to be erected south of Lake street.—Information has been received from the Department of Public Works, Ottawa, that plans for the extension of the breakwater at the island have been completed and that tenders will be called for in a few days.—The Fire and Light Committee last week forwarded to the Board of Control a detailed statement of the proposed fire protection expenditures. The items are as follows: Fire boat, \$50,000; three 750 steam fire engines for high level district, \$16,500; five steam heaters for engines, \$1,500; central office for fire alarm telegraph system, \$35,000; renewing and changing present alarm boxes to succession boxes,

\$10,000; site and building station on Wellington street, \$100,000; site and building station in the neighborhood of Bathurst and Bloor streets, \$25,000; addition to Rose ave fire hall, \$10,000; cost of mains, valves, hydrants and connections, \$261,000; engines and pumps, \$145,000; building, including foundations and suction supply, \$60,000; gas main, \$5,000; engineering and contingencies, \$55,000; total, \$774,000.—John Poucher, 44 Yonge Street Arcade, desires tenders for plumbing, plastering and painting of house.—J. Davis, 77 Adelaide street east, wants tenders for plumbing and heating of a ten-roomed house.—The Robert Simpson Co have purchased the Knox church property on Queen street, just west of Yonge, which they will utilize for the extension of their departmental store. The congregation will retain possession of the church until 1908, and in the meantime a site will be acquired in a more northerly part of the city and a new edifice built thereon.—The City Engineer, in his 1st fortnightly report, recommends the construction of a 12 inch water main on Spadina ave., from Front to College streets, at a cost of \$13,908, also the following cement concrete sidewalks: Lisgar street, from Queen to Argyle; West Market street, from King to a point 76 feet 8 inches south; Walmer road, from a point 250 feet north of Bernard ave. to Dupont street; Brunswick ave., from Ulster to Bloor; Baldwin street, from Spadina ave. to Augusta ave.; Burton ave., from Howland ave. to Albany ave.—The Militia Department at Ottawa have approved of the plans for new barracks to be built in this city, to cost \$250,000.—Mr. Finney, 20 Victoria street, wants

tenders for all tra for two houses.—T will receive tenders the construction of and purlins over the main waterwo Plans at the office c The following b been granted: two and a half ing, 24 McPh \$3,000; Very Re storey brick boiler near St. Mary, cos pair two-storey bri 68 Dewson street, Johnston, two-sto vanized and corrug Esplanade, near \$6,000; Trustees sion, one-storey st 381 and 383 Yong Northrop, Lyman brick warehouse Richmond street Jessop & Sons, five stone warehouse, \$23,000; W. Little roughcast dwellin Boutbee street, Pinel, 2 1/2 storey b foundation, east Harbor street, ce pair 2 1/2 storey br ley street, cost \$3, one-storey brick Bellwoods ave., cost \$3,200; Can storey brick and street west, near Mrs. Annie Gie stone and brick d ave., cost \$2,500 two-storey brick Providence, stor street, near Quee Hutchison, 2 1/2 s Crescent road, co Co., two-storey l Niagara street, \$1,800; Gale Ma storey brick wa southwest corner lington street, co ter, two pair two dwellings, Have bourne, cost \$7, storey brick and dale road, near W. O. McTagga roughcast dwelli court road, also \$6,000, also pa dwellings, brick near Hallam st Elnor, two-store Euclid ave., cos pair 1 1/2 store Melville ave., n \$3,000; Merris ing, brick basem

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tenders for all trades except plumbing for two houses.—The Board of Control will receive tenders up to October 11th for the construction of steel roof principals and purlins over the new engine house at the main waterworks pumping station. Plans at the office of the City Engineer.—The following building permits have been granted: Wm. H. Thomson, two and a half storey brick dwelling, 24 McPherson avenue, cost \$5,000; Very Rev. V. Marjon, one-storey brick boiler house, Chapel street, near St. Mary, cost \$4,000; H. Hutson, pair two-storey brick dwellings, 66 and 68 Dewson street, cost \$5,000; H. B. Johnston, two-storey iron and galvanized and corrugated iron factory, Don Esplanade, near Cornwall street, cost \$6,000; Trustees of Yonge street Mission, one-storey stone and brick mission, 381 and 383 Yonge street, cost \$12,000; Northrop, Lyman & Co., three-storey brick warehouse and office, 86 and 88 Richmond street west, cost \$15,000; Jessop & Sons, five-storey brick and cut stone warehouse, 80 Bay street, cost \$23,000; W. Littleford, pair two-storey roughcast dwellings, Jones ave., near Boulthbee street, cost \$1,650; Arthur Finel, 2½ storey brick dwelling, cement foundation, east side Euclid ave., near Harbor street, cost \$2,300; W. Downs, pair 2½ storey brick dwellings, 46 Huxley street, cost \$3,600; John H. Vivian, one-storey brick warehouse, east side Bellwoods ave., near Robinson street, cost \$3,200; Canadian Kodak Co., four-storey brick and stone factory, King street west, near Portland, cost \$40,000; Mrs. Annie Greenshields, 1½ storey stone and brick dwelling, 49 Lansdowne ave., cost \$2,500; Sisters of St. Joseph, two-storey brick addition to House of Providence, stone foundation, Power street, near Queen, cost \$3,000; W. H. Hutchison, 2½ storey brick dwelling, 63 Crescent road, cost \$4,000; Elias Rogers Co., two-storey brick and wood stable, Niagara street, near Bathurst, cost \$1,800; Gale Manufacturing Co., three-storey brick warehouse and factory, southwest corner Spadina ave. and Wellington street, cost \$30,000; J. V. Hunter, two pair two-storey brick and stone dwellings, Havelock street, near Hepburne, cost \$7,000; C. B. Miles, 2½ storey brick and stone dwelling, Rosedale road, near Crescent, cost \$7,000; W. O. McTaggart, two pair two-storey roughcast dwellings, brick fronts, Dovercourt road, near Shanley street, cost \$6,000, also pair two-storey roughcast dwellings, brick fronts, Dovercourt road, near Hallam street, cost \$3,000; H. Elnor, two-storey brick dwelling, 809 Euclid ave., cost \$1,200; Chas. Joliffe, pair 1½ storey roughcast dwellings, Melville ave., near Christie street, cost \$3,000; Morris Read, two-storey dwelling, brick basement, Lee ave., near Vi-

let street, cost \$1,100; Alfred Defries, two-storey and attic frame dwelling, brick foundation, Waverley road, near Queen street, cost \$2,000.

#### CONTRACTS AWARDED.

MICHEL, B. C. — Construction of lock-up: White & Comteis, contractors.  
DOAKTOWN, N.B. — Erection of Orange hall: J. E. Doak, contractor.

AIWOOD, ONT.—\$10,383 township debentures: W. C. Brent, Toronto, purchaser.

CHATHAM, ONT.—Warehouse for George Stephens & Co.: Scott Bros., contractors.

ST. BONIFACE, MAN.—New hotel for E. & V. Coutere: J. E. Cusson, this place, contractor.

NELSON, B.C.—Brick block for J. L. Stocks: John Burns, contractor, cost about \$5,500.

BRANDON, MAN.—New dumping station: Brick work, Chambers & Co.; carpenter work, C. W. Hall.

FREDERICTON, N.B.—Residence on University ave. for R. W. McLennan: Harry M. Clarke, contractor.

ORILLIA, ONT.—Cement abutments for steel bridge at Bennett's: J. O. Coates, this town, contractor, price over \$3,000.

BERLIN, ONT.—The Dominion Securities Corporation, Toronto, have purchased \$7,000 High school debentures.

WARWICK, ONT.—Superstructure of steel bridge over Brown's creek: Hamilton Bridge Co., successful tenderers, \$980.

MONTREAL, QUE.—New Catholic church in St. Cunegonde: Louis Payette, contractor. The building will cost about \$138,000.

VICTORIA, B.C.—Two storey bungalow on Rockland ave. for Alexis Martin: S. McClure, architect; Ash & Gleeson, contractor.

OWEN SOUND, ONT.—Building a dock on east side of harbor: Tender of Green & McKinnon, \$1,850, recommended for acceptance.

PICTON, ONT.—Supply of 500 to 8,000 barrels of Portland cement for corporation work: National Portland Cement Co., Durham, Ont., successful tenderers.

NIAGARA FALLS, ONT. — The City Council have finally awarded contracts for sewer construction as follows: Sections 11 and 12, Barry & McMordie; section 13, Peter Lorenzo, \$11,012.

BROCKVILLE, ONT.—The James Smart Manufacturing Co., this city, have secured contracts for heating and ventilating public schools at Beeton and Dutton, Ont., with their Kelsey generators.

TORONTO, ONT.—The DeLano-Osborne Engineering Co., this city, have received the contract for the inspection work on a new bridge to be erected by the New Brunswick Southern Railway and for several bridges across the Welland canal.

NORTH VANCOUVER, B.C.—The contract for supplying and laying waterworks pipe has been awarded to J. C. Graham, of this place. The tender is for the main pipe only and does not include the distributing pipe. Length of main, 5¼ miles. Wired wooden pipe will be used.

HUNTSVILLE, ONT.—Tenders for heating new school were received as follows: Toronto Furnace & Crematory Co., \$2,971; Keith & Fitzsimmons, Toronto, \$2,375; Harrison & Robinson, Toronto, \$2,200; Purdy, Mansell & Co., Toronto, \$2,153; White Bros., Huntsville, \$2,255 (accepted).

VANCOUVER, B.C.—The Britannia Mines Company have awarded the Canadian Westinghouse Company, Hamilton, the contract to supply the electrical plant and wire cables for the tramway to be

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built at the mine. The Hinton Electrical Company, of this city, will install the plant and build the transmission line.

FORT WILLIAM, ONT. — The Ogilvie Flour Mills Co. have given a contract to the Nordyke, Marmon Co., of Indianapolis, for the machinery of a 3,000 barrel flour mill to be built at this place, and the erection of the building proper will be commenced at once, under the direction of Mr. Chalfant. Building will be 50 x 100 feet, five stories, with power house 50 x 75 feet and store house 85 feet square and three stories high, of cement, stone and brick, with pile foundations.

WINNIPEG, MAN. — Addition to Mrs. Gallagher's residence on Ross ave.: J. Chisholm, architect; Maurier Bros., contractors; cost \$8,000. — Franklin Press building: Architect, J. H. G. Russell; masonry, Davidson Bros.; carpentry, B. W. Latimer; cost about \$7,000. — Addition to Ames Holden block, corner Princess and McDermott streets: Masonry, S. Brown; carpenter work, J. J. Vopin; cost about \$17,000. — Darling, Pearson & Over, architects for the new block to be built by the Alaska Feather & Down Co., corner Princess and Logan aves., have let the contract for the excavating and foundation. The building will cost about \$30,000.

HAMILTON, ONT.—The Canadian Otis Elevator Company, of this city, have been awarded the following contracts for elevators: International Stock Food Co., Toronto; and Anderson Furniture Co., Newcastle, N.B.; Calgary Brewing and Malting Co., Calgary, N.W.T.; Joseph E. Seagram, Waterloo, Ont.; A. C. McCrea, Winnipeg; Laurentide Paper Co., Grand Mere, Que.; Rodger Hardware Co., Charlottetown, P.E.I.; National Trust Co., Toronto; Masonic Temple, London, Ont.; Warwick Bros. & Rutter, Toronto; St. Boniface Hospital, St. Boniface, Man.; School of Science, Toronto; Collingwood Meat Co., Collingwood, Ont.; Gutta Percha & Rubber Co., Toronto; Beardmore Belting Co., Toronto; Newfoundland Clothing Co., St. Johns, Nfld.

Rudd & Smith, painters, Winnipeg, have dissolved, M. H. Smith continuing.

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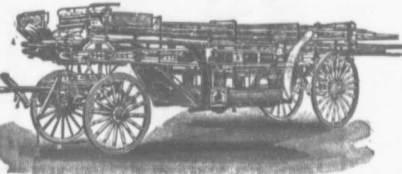
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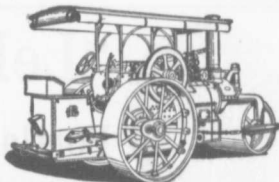
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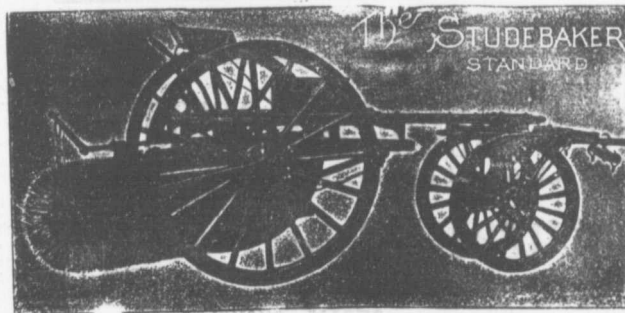
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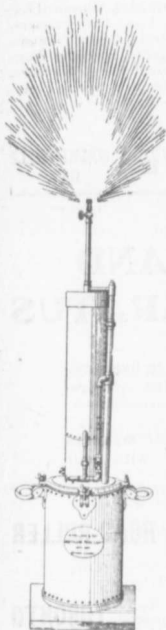
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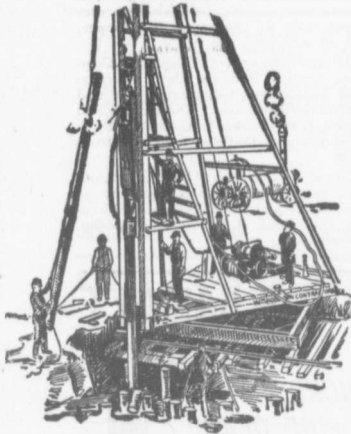


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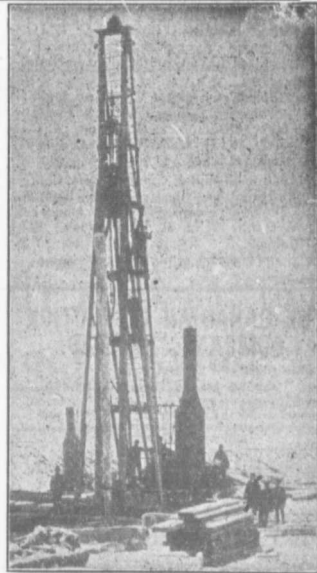
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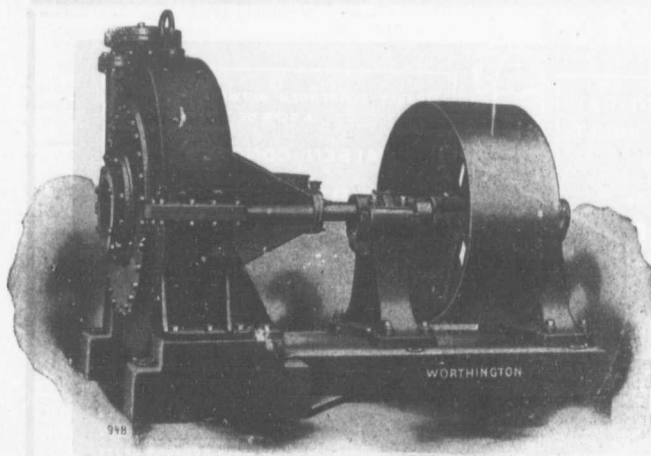
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Hamilton Biscuit & Confectionery Company, Hamilton, incorporated, capital \$100,000. Directors, W. H. Schneider, T. W. Hand, W. H. M. Williams and R. A. Ptolemy.

Canada Coating Mills, Limited, Toronto,

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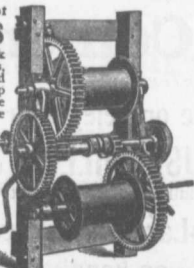
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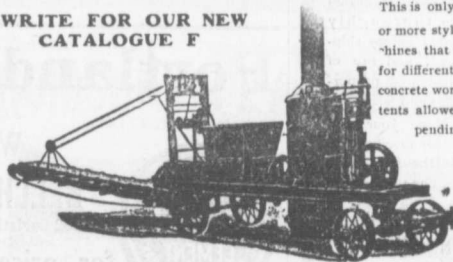
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### THE SCIENCE OF ROAD-MAKING.\*

Road-making is a science, a branch of engineering, the difficulties of which are not usually appreciated. It is a common expression that "anyone can make a road." Which merely indicates that the average man knows so little about road construction that he does not realize how much there is to know. If it is true that anyone can make a road, it is also true that anyone can build a house, a bridge or a steamship. "Anyone" can do these things, but in most cases at a great waste of money and labor, and with very inferior results. For centuries in England it was left for anyone to make the roads. It was not until McAdam and Telford appeared, but one century ago, that the people in England became convinced that "anyone" could not build a road. This work was then placed in the hands of expert road-builders and the transformation has been nothing short of wonderful.

In too many townships of Ontario "statute labor" means that once a year the rate-payers gather to make roads under the direction of "anyone." They plow and scrape the mud and pile on a ridge of gravel, after violating every rule

\* From the Eighth Annual Report of the Commissioner of Highways for Ontario.

and principle laid down by McAdam. After doing everything McAdam told the people of England not to do, the result of this statute labor is called a "macadamized road."

Among the earliest roads of which we have definite information were those built by the Romans, chiefly as military highways, leading east and west to the remote provinces, from which arose the proverb, "All roads lead to Rome." So substantially were these roads built, of layer upon layer of stone and concrete, three and four feet in thickness, that many of them still remain, and are commonly believed by the peasantry of Spain and of other countries of Southern Europe, to be of supernatural origin. These roads were built at an enormous waste of money and labor, and, while of the greatest durability, they lack the first essential of modern construction—a properly balanced union of economy and efficiency.

For several centuries after the downfall of Rome, road-making became a forgotten art. In France during the eighteenth century, under the engineer Tressaugnet, road construction was revived, but on very different principles from those followed by the Romans. The type of road built by the French engineer was that introduced into England by Telford, and consisted of a foundation of large stones, laid on edge and carefully shaped, upon which was placed a coat of finer broken stones. Early in the nineteenth century McAdam advocated and constructed in England a still more economical design, in which the foundation of large stone was omitted, but greater care

was given to drainage and roadbed. McAdam's system is that most commonly followed to-day, with a number of important alterations consequent upon the introduction of road-making machinery.

In the time of McAdam the best method attainable was to break stone by hand, which was then placed loose on the roadway and left for traffic to consolidate. The progress of consolidation was slow, during which a considerable amount of the stone was forced into and mixed with the earth subsoil, injuring the consistency of the road. Under present methods, by means of a crusher, stone is broken much more cheaply than it could be done by hand.

Stone dust and chips (screenings) are created in the process of crushing, which are used to fill the voids, instead of waiting for this to be produced by traffic, or allowing the clay or loam from beneath to be forced up among the stones. With a road roller the road metal is made thoroughly compact, forming a strong, waterproof covering over a firm subsoil. The result is that more perfect work is done in a few days and at less cost than the methods of McAdam or Telford would accomplish in several months. The main features of present day road-making, which are of recent introduction, are:

- (a) The use of grading machines for forming the earth subgrade and open drains.
- (b) The thorough drainage of the soil underlying the road so as to make a strong foundation.
- (c) The use of a roller to consolidate both the earth foundation and the surface layer of stone or gravel.
- (d) Where broken stone is employed, the use of a crusher to prepare the metal, instead of breaking the stone by hand.
- (e) The screening of broken stone so as to grade it, for application to the road in layers according to size.

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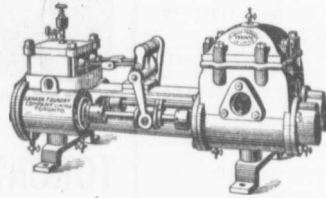
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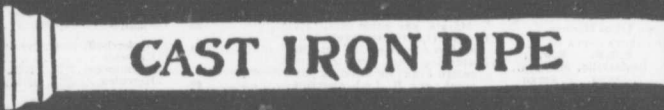
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