

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF 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. 13.

JUNE 18, 1902

No. 19

THE CANADIAN CONTRACT RECORD,
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DRAUGHTSMAN WANTED.

Architectural Draughtsman wanted: good salary to right man.
GOVINDLOCK & BAKER, ARCHITECTS,
702 Temple Building, Toronto.

TENDERS WANTED

Tenders will be received by the undersigned at his office in the Village of Port Colborne up to MONDAY, JUNE 24th, inst., at 12 o'clock noon, for the purchase of

\$13,271.65

Concrete Sidewalk Debentures of the Municipality of the Village of Port Colborne.

Debentures drawing 4 per cent. for a term of 20 years, from October 15th, 1901, and to be Port Colborne delivery.

Highest or any tender not necessarily accepted.

DR. WITT CARTER,
Recve.

Port Colborne, June 18th, 1902.

Tenders Wanted

Sealed tenders addressed to E. S. Brown, Esq., Chairman Public School Board, Collingwood, will be received up to six o'clock on MONDAY, THE 24th DAY OF JUNE, for the several trades required in the erection and completion of an Addition to the East Ward School. Plans and specifications can be seen at the office of the architect, Collingwood, Ont. The lowest or any tender not necessarily accepted.

JOHN WILSON,
Architect.

Sealed Tenders

Will be received up to 7 o'clock, p.m., on WEDNESDAY, THE 26th DAY OF JULY, 1902, for the necessary labor and material required in constructing about 40,000 superficial feet of Granolithic Sidewalks in the Village of Wainston during the current year.

Specifications supplied on application to the undersigned. The lowest or any tender not necessarily accepted.

RICHARD CODR, Village Clerk,
Alvinston, Ont.

EXTENSION OF TIME

TOWN OF EDMONTON

District of Alberta.

Waterworks and Sewerage Works

Sealed tenders will be received by the Secretary-Treasurer of the Town of Edmonton, Alta., until 8 p.m. on MONDAY, JUNE 24th, 1902, for the following works:

Contract "A"—All labor for laying water mains, sewers and appurtenances.

Contract "B"—Furnishing all materials for and erecting power house for the waterworks and electric light purposes.

Contract "C"—Furnishing and delivering cast iron pipes and specials.

Contract "D"—Furnishing and delivering hydrants and valves.

Contract "E"—Furnishing and delivering sewer pipes and junctions.

Plans and specifications will not be sent out to prospective bidders, but they may be examined at the office of the Secretary-Treasurer, Edmonton, or at the office of the Chief Engineer, Toronto.

The contracts for Water Tower, Sedimentation Basin and Machinery will be advertised at an early date.

No tender necessarily accepted.
For further information apply to either of the undersigned.

WILLIS CHIPMAN, Chief Engineer,
103 Bay Street, Toronto.

GEO. J. KINNAIRD,
Secretary-Treasurer, Edmonton, Alta.

WATERWORKS PUMPING PLANT

Sealed Tenders, addressed to the undersigned and endorsed "Tender for Pumping Plant," will be received by the Council of the Town of Cornwall until the evening of

Saturday, June 28th, 1902,

for the construction of a Water Power Pumping Plant in connection with their existing Waterworks system.

Plans and specifications can be seen and forms of tender procured at the office of the engineer, Wallace C. Johnson, 1724 Notre Dame street, Montreal, and at the office of the undersigned, on and after the 15th instant.

An accepted cheque on some chartered Canadian Bank, payable to K.A. Pringle, Treasurer of the Town of Cornwall, for ten per cent. of contract price, must accompany each tender, otherwise tender will not be considered. The cheque of the unsuccessful parties tendering will be returned when the contract has been entered into. The lowest or any tender not necessarily accepted.

GEORGE S. JARVIS,
Town Clerk.

Town Hall, Cornwall, June 5th, 1902.

TENDERS WANTED

Tenders will be received by the undersigned for the several trades required in the erection of Main Wings and Improvements of Collegiate Institute, in the City of St. Thomas, Ont., up to 6 o'clock p.m. on MONDAY, JUNE 24th, 1902.

Plans and specifications may be seen on and after Tuesday, June 18th, and forms of tender obtained at office of the undersigned.

A marked cheque payable to the Treasurer of St. Thomas Board of Education, equal to 5 per cent. of the amount of tender, to accompany each tender. The lowest or any tender not necessarily accepted.

N. R. DARRACH, Architect.

Tenders Wanted

Sealed tenders will be received up to 12 o'clock noon, on MONDAY, THE 30th INST., for the several works required for the repairs at the various Separate Schools during the summer vacation. Specifications may be seen and all information obtained at the office of the Architect, Arthur W. Holmes, 172 Spadina Ave. Each tender must be accompanied by the deposit mentioned in the specifications. Tenders to be addressed to M. Walsh, Esq., Chairman Sites and Building Committee, Separate School Board, 25 Duke St. The lowest or any tender not necessarily accepted.

Plans for Public Library Building

CITY OF SAINT JOHN, NEW BRUNSWICK

Competitive Plans will be received at the office of the Common Clerk of the City of Saint John, in the Province of New Brunswick, up to 3 o'clock in the afternoon of WEDNESDAY, THE 4th DAY OF JULY NEXT, for a building to be used as a Public Library. The lot on which such building is to be erected is a level lot 60x182 ft. and fronting on three streets, the main frontage being 175 ft. Plan to consist of sketches showing floor plan and elevation. Cost of building strictly limited to \$50,000, including Architect's commission.

No plan will be paid for except those accepted.

HERBERT E. WARDROPER,
Common Clerk.

Saint John, N. B., 14th June, 1902.

TENDERS

—FOR—

COLD STORAGE AND ABATTOIR

Sealed tenders, addressed to the undersigned and endorsed "Sealed Tenders for Cold Storage and Abattoir," will be received until FRIDAY, THE 4th DAY OF JULY next, for the erection and completion of a Cold Storage and Abattoir Building at Fergus. Separate tenders for each trade or bulk tenders for the whole work will be received.

Plans and specifications may be seen and tender forms obtained at my office or at the office of G. M. Bayly, Architect, Ottawa. The lowest or any tender not necessarily accepted.

JAMES BEATTIE,
Secretary.

Fergus, June 11th, 1902.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE.]

Good wages will be paid to first-class draughtsmen, year's engagement.

DARLING & PHARSON,
Toronto.

MUNICIPAL DEBENTURES

The undersigned is prepared to receive Sealed Tenders up to one o'clock, p. m., on MONDAY, THE 21st DAY OF JULY, 1902, for the purchase of \$2500 twenty year 4 per cent. debentures, dated July 1st, 1902. The highest or any tender not necessarily accepted.

J. H. RUPPEL,
Village Clerk.

Elmira, July 9th, 1902.

CONTRACTS OPEN.

ATHENS, ONT.—A site has not yet been selected for new town hall.

LAMBTON, ONT.—The C. P. R. intend building a new station here.

FLESHERTON, ONT.—F. Deagle is about to install an electric light plant.

STURGEON FALLS, ONT.—John McNeil is about to build a new residence.

PAKENHAM, ONT.—The Down Milling Co. will erect a 50,000 bushel elevator.

DUNDAS, ONT.—Plans have been prepared for new Bank of Commerce building.

WESTMOUNT, QUE.—Contracts will be let immediately for the laying of sidewalks.

SARNIA, ONT.—The extension of the waterworks system will likely be undertaken.

MERRICKVILLE, ONT.—A by-law to purchase a fire engine was carried last week.

PETROLIA, ONT.—The council has decided to build an iron bridge over Bear Creek.

WOODSTOCK, ONT.—The question of building an addition to the hospital is under consideration.

NIAGARA FALLS, ONT.—Plans are under way for improvements to waterworks system.

NEW WESTMINSTER, B. C.—Six sets of plans have been submitted for proposed Carnegie library.

GALT, ONT.—The Galt, Preston & Hespeler Street Railway Co. will extend their line to Puslinch Lake.

REVELSTOKE, B. C.—A by-law will be submitted to the ratepayers to raise \$8,000 for school purposes.

HINTONBURG, ONT.—It is probable that a new separate school, to cost \$2,000, will be erected here.

PARRY SOUND, ONT.—The Parry Sound Lumber Co. have decided to build a large addition to their box factory.

NEW WESTMINSTER, B. C.—The city is getting estimates on a new marble switchboard for power station.

WATERLOO, ONT.—Tenders will shortly be invited for a sewer on Allen street, from Herbert to William street.

MCLEOD, N. W. T.—Charles H. Baker invites bids up to July 1st for purchase of \$12,000 6 per cent. debentures.

AMHERSTBURG, ONT.—Williams Bros., of Windsor, are preparing plans for improvements to public school here.

CARLETON PLACE, ONT.—Plans have been completed for the C.P.R. line of railway from this place to Sharbot Lake.

LONDON, ONT.—H. C. McBride, architect, is taking tenders for alterations and repairs to brick store on Richmond street.

ESSEX, ONT.—Bids are asked by John Walters, town clerk, up to June 30th for laying about two miles of silex sidewalks.

ARNPRIOR, ONT.—The town is about to issue debentures.—S. R. Rudd

purposes establishing a large furniture factory here.

ETHEL, ONT.—John McIntosh will receive tenders for erection of concrete or stone abutments for a bridge at lot 6, concession 14.

RENFREW, ONT.—Tenders are wanted by June 21st for 100 barrels of Hercules or Rathbun's Star cement. Address, C. J. Scott.

KINGSTON, ONT.—Power & Sons, architects, are this week taking tenders for erection of farm residence at Cataract for J.W. Suddard.

UXBRIDGE, ONT.—The county council will probably rebuild Dobson bridge at Cannington and the Beaver river bridge at Beaverton.

PORTAGE LA PRAIRIE, MAN.—The government has agreed to bear one-third of the cost of building a new bridge over the Assiniboine river.

WELLAND, ONT.—An almost unanimous vote was given last week in favor of granting exemption from taxation on proposed steel plant.

NIAGARA FALLS, ONT.—A by-law to raise \$20,000 for increased school accommodation will be submitted to the ratepayers on July 8th.

ST. MARY'S, ONT.—The question of the purchase of a steam road roller has been left in the hands of the Road and Bridge Committee.

HALIFAX, N.S.—J. C. Dumaresq & Son, architects, are taking tenders for erection of brick and stone building for the People's Bank of Halifax.

SMITH'S FALLS, ONT.—The Public Library Board have accepted the plans of H. C. McBride, architect, London, for new library building.

MEDICINE HAT, N.W.T.—Bids are invited by W. N. Adsit up to July 15th for purchase of \$25,000 waterworks debentures and \$22,000 gas debentures.

WINDSOR, ONT.—A city hall to cost \$45,000 may be erected here.—S. R. Disbrie has asked the council for assistance towards building an automobile factory.

SANDWICH, ONT.—Debentures for \$50,000 will be placed on the market by the town, the funds to be used for construction of pavements and sewerage system.

QUEBEC, QUE.—G. E. Tanguay, architect, has prepared plans for completion of the interior of the church at St. Raphael, Beauce, and for the building of a sacristy.

PORT COLBORNE, ONT.—The amount of debentures for which tenders are invited up to 23rd inst. is \$13,271.65, instead of \$9,481.35 as stated in last issue.

ST. JOHN, N.B.—Plans of J. McKean, architect, have been accepted for Elm street school; it will be brick and stone, two-storeys, ten rooms and exhibition hall.

PEMBROKE, ONT.—The by-law to raise \$14,500 for the purchase of road machinery and construction of permanent roadways was carried last week by a large majority.

BARRIE, ONT.—The question of improving the jail is under consideration by the county council.—J. F. Falling is taking tenders up to 26th inst. for repairs to schools.

TRENTON, ONT.—The ratepayers have decided to grant assistance towards the establishment of a cold storage plant. Eben James, of Woodall & Co., Liverpool, England, is interested.

ST. GEORGE, N.B.—James Dodds is taking tenders up to 28th inst. for erection of almshouse.—Tayte, Meating & Co. are excavating the foundation for their new

mill.—The St. George Pulp & Paper Co. are preparing to build dams in connection with proposed pulp mill.

TORONTO JUNCTION, ONT.—R. E. Speakham, C.E., of Toronto, has recommended the intermittent downward filtration system of sewage disposal for Annette street school, at cost of \$2,000.

FREDERICTON, N. B.—C. Labilolois, Commissioner of Public Works, will shortly call for tenders for rebuilding several bridges. One at Newcastle and one at Cole's Island, Kings county, will be permanent structures.

SPRINGHILL, N. S.—Prof. W. R. Butler, of Kingston Military College, is consulting engineer for the town, which is about to construct a gravitation system of waterworks, for which a contract will be let at an early date.

VANCOUVER, B.C.—H. H. Howland is purchasing agent for the Vancouver Power Co., which is about to establish a water power electric plant at Coquitlam Lake.—It is understood that tenders will be invited at once for excavation of tunnel for Vancouver Power Company.

LINDSAY, ONT.—G. M. Miller & Co., architects, Toronto, have submitted an estimate of \$11,500 for erection of public library building.—The Board of Education have asked the City Council to provide \$14,000 for erection of new school building.

VICTORIA, B.C.—A motion has been introduced in council to provide \$15,000 for purchase of a site for Carnegie library.—Hooper & Watkins, architects, are calling for tenders for cut stone and brick work for new building for D. Spencer.

PETERBOROUGH, ONT.—R. E. Wood is taking tenders up to 20th inst. for building Mission school in connection with St. Paul's Presbyterian church.—The Central Ontario Power Co. are reported to have purchased Buckhorn Falls, where 2,000 horse power will be developed and transmitted to Peterborough and surrounding towns.

BRANTFORD, ONT.—The Von Echa Electric Railway Co. have secured an option on the purchase of the Brantford Street Railway, and it exercised will expend a considerable sum on improvements and extension.—The Cockshutt Plov Co. intend building a new factory, for which plans have been prepared.

SAULT STE. MARIE, ONT.—Plans have been prepared for addition to Baptist church.—W. C. Nixon will receive tenders up to July 1st for construction of bridge over Root river.—The High School Board has requested local architects to submit plans for a new high school, to cost about \$30,000.

GUELPH, ONT.—The Guelph Rag & Metal Co. desires tenders by 19th inst. for erection of stone and brick building.—L. C. Wideman, architect, has just taken tenders on alterations and additions to station of Guelph Light & Power Co.—A pressed brick power house and a large circular barn will be erected in connection with the Ontario Agricultural College.

MONTREAL, QUE.—The Canadian Pacific Railway Co. are preparing to make extensive improvements to the underground quarters of the Windsor street station, including the erection of large fire-proof steel coal hoppers.—The city council has decided to build the hospital for scarlet fever and diphtheria patients on Fletcher's Field. The sum of \$30,000 has been voted for the purpose.—R. M. Rodden, architect, is preparing plans for farm building for T. B. McAuley, at Hudson Heights.—Same architect is calling for tenders for the painting and plastering of J. Robinson's house in Westmount.

COOKSHIRE, QUE.—The council has decided to purchase the water power on the St. Francis river and to establish an electric light and power plant.

HAMILTON, ONT.—The Westinghouse Air Brake Co. have purchased property on Princess street, and it is reported that they will build a large addition to their factory.

COLLINGWOOD, ONT.—W. A. Clarke, chairman Board of Works, invites tenders up to 21st inst. for construction of granolithic sidewalks.—S. H. Lindsay is taking tenders up to 23rd inst. for erection of building for Canadian Bank of Commerce.—Tenders are invited by E. S. Brown up to June 25th for addition to East Ward school, from plans by John Wilson, architect.—Plans are being prepared by J. Wilson for a two-storey residence to be built on Maple street for Mrs. John Henderson.

HAMILTON, ONT.—The following building permits have been granted: Thomas Allen, brick dwelling on York street, between Queen and Oxford streets, cost \$1,800; Charles Mills, brick addition to factory for Hamilton Cotton Co., cost \$5,000, and brick dwelling on King street, for Mrs. Moggridge, cost \$1,500; E. B. Patterson, brick dwelling on West avenue, for John McMurray, cost \$1,700; George H. Milne, brick dwelling on West avenue, between Hunter and Stinson streets, cost \$1,800.—The city council has decided to issue debentures for \$25,000 to build the Mary street school.

WINNIPEG, MAN.—James Chisholm, architect, is this week taking tenders for erection of brick and stone residence on Edmonton street for J. W. Harris.—Tenders are about to be invited by the city for purchase of \$50,000 4 per cent. school debentures.—Kelly Bros. & Co., Nanton Block, want tenders by 25th inst. for supply of 25,000 to 30,000 barrels of Portland cement.—A. Cusson, architect, has prepared plans and taken tenders for stone and brick school on Selkirk street.—C. J. Brown, city clerk, invites tenders up to June 24th, at 8.30 p. m., for supply of 19,000 feet of sewer pipe and a quantity of traps and junctions.

OTTAWA, ONT.—F. Gelinus, secretary Department of Public Works, invites tenders up to July 3rd for erection of post office and custom house at Fort William, Ont.; plans at above Department and at post office at Fort William.—The Ottawa Improvement Commission are preparing to commence work on the Elgin street subway.—The Carleton County Council, at a meet last week, discussed the question of building good roads.—Tenders close July 2nd, at office of city clerk, for construction of asphalt pavements on St. Patrick street, Sussex to Dalhousie, and on Clarence street, Sussex to Barret's lane.—The Salvation Army have acquired property on Slater street, near Bank street, on which to build a barracks this fall, to cost about \$7,000.—Recent building permits issued

THE GREY AND BRUCE PORTLAND CEMENT COMPANY
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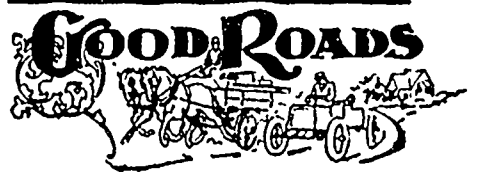
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A. D. CREASOR, Sec'y-Treas.
Head Office, Owen Sound, Ont.

include the following: Canadian Conservatory of Music, brick building, S a er street, cost \$7,000 (E. L. Horwood, architect); S. J. Davis, two brick veneered dwellings, O'Connor street, cost \$2,600; James Vaughan, two brick veneered shops and dwellings, Dalhousie street, cost \$4,200.—It is stated that a company will be formed to build an electric railway from this city to Lachine.—The Minister of Railways and Canals arranging for the strengthening of bridges between Montreal and Levis.

TORONTO, ONT.—Darling & Pearson, architects, are taking tenders up to noon to-day (Wednesday) for erection of plow factory at Paris.—C. F. Wagner, architect, has just taken tenders for a pair of houses on Spadina avenue and for the laying of a water service from East Toronto village to St. John's church cemetery, Norway.—The W. & D. Dinneen Co. have purchased property on Temperance street adjoining their present store and intend erecting a factory

for the manufacture of furs, to be four storeys in height and fitted up with stor-



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MUNICIPAL DEBENTURES BOUGHT

ÆMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-21 King St. West, TORONTO, Ont.

age vaults and other modern improvements.—A. R. Denison, architect, is taking tenders for removing the old brick building at the north-west corner of Bay and Wellington streets.—J. Catto & Son are about to make extensive alterations to their store front.—The city has given notice of its intention to construct the following works: Asphalt and black pavement on Church street, from Queen to Bloor, cost \$76,770; asphalt pavement on Elm avenue, from Sherbourne street to 861 feet west, cost \$7,630; and on Widmer street, from Adelaide street to Richmond, cost \$2,750; macadam roadway on St. Albans street, from Yonge street to Surrey place, cost \$5,010, and on George street, from Shuter street to Wilton avenue, cost \$3,795.—The city engineer has recommended that the Crawford street bridge be replaced by a new structure, at a cost of \$15,000.—Tenders are invited by the Board of Control up to June 25th for construction of a number of concrete sidewalks and the following pavements: Asphalt pavements on Fern avenue, Sorrauen avenue to Roncesvalles avenue; Phoebe street, from Soho street to Spadina avenue; Spadina avenue, from Queen to Collage; west side, from Baldwin to College, and east side, from Baldwin to College. Brick pavements on York street, from Pearl to Adelaide street. Macadam roadways on Grange avenue, from Beverley street to Huron street; Wellesley avenue, from Wellesley street to a point 249 feet north. Brick on track allowance on Avenue road, from Davenport road to the C. P. R.

CONTRACTS AWARDED.

LEAMINGTON, ONT. — Episcopal church: Henry Foster, contractor; price \$6,150, exclusive of furniture.

GALT, ONT.—Carnegie Library and Jackson Park debentures: Gore Mutual Insurance Co., purchasers, at 1.04 1-2.

BROCKVILLE, ONT. — Plumbing and heating of hotel at Winchester for (Continued on page 6.)

DEBENTURES

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

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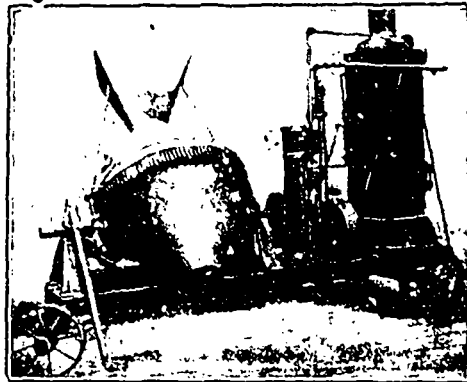
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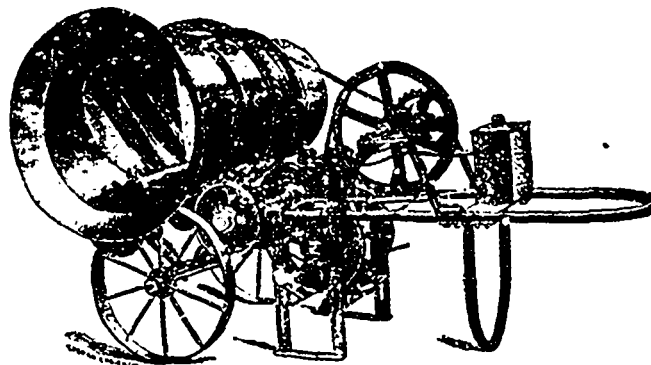
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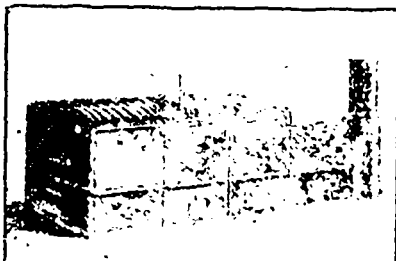
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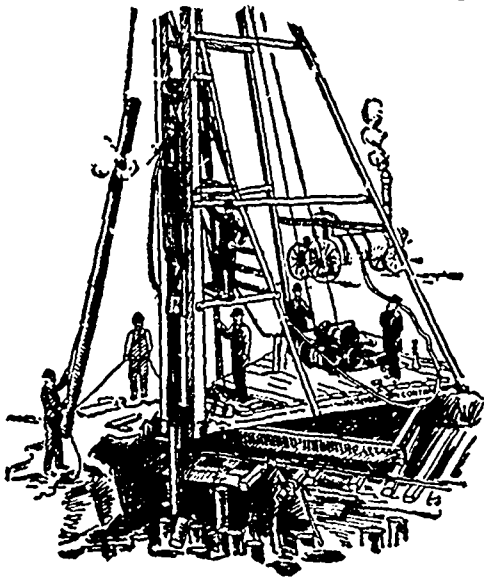
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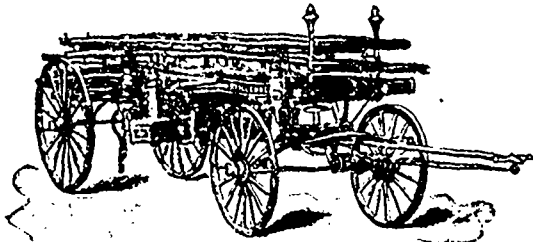
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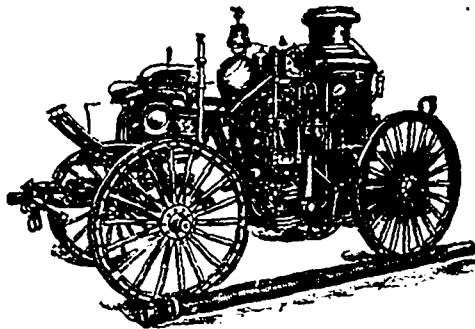
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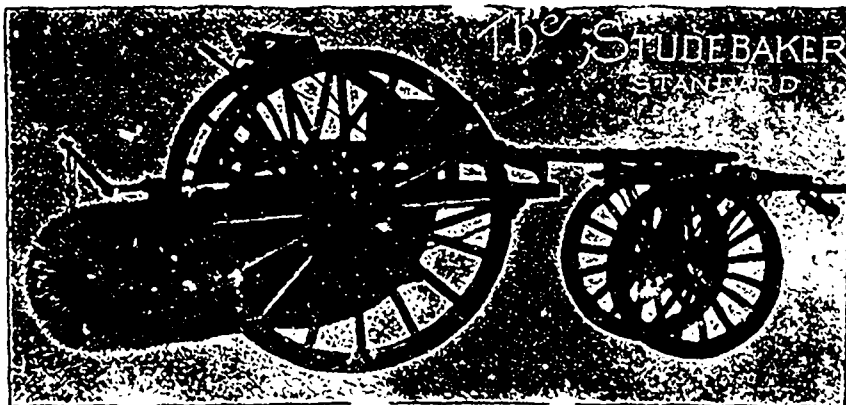
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Alex. McDonald; George Ross & Co., this city, contractors.

WATERLOO, ONT.—Cement walks: C. Brann, successful tenderer, 10½ cents per foot.—12-inch trunk sewer with 6-inch drain, \$1.20 per foot, and branch sewer on Yonge street, 9-inch pipe only, 65 cents per foot, E. Durmel, successful tenderer.

OTTAWA, ONT.—Distributing station for Consumers' Electric Co.; Holbrook & Sutherland, contractors; building 100 feet long, cost \$9,000.

SPRINGHILL, N. S.—The town has disposed of \$160,000 4 per cent. debentures to J. Parker & Co., bankers, of Boston, at 97 5-7 cents on the dollar, funds to be used for construction of waterworks system.

WINDSOR MILLS, QUE.—New buildings for Canada Paper Co.: Greenleaf & Doring, of Lewiston, Me., successful tenderers. There will be seven stone, brick and steel buildings, the cost of which will be about \$250,000. Contracts for machinery have not yet been let. George F. Hardy, of New York, is consulting engineer.

MONTREAL, QUE.—The city council has accepted the tender of Coates & Son, of London, England, for new civic loan of \$3,000,000. Price 98 1-2.—Addition to customs warehouse: Theophile Leclair, contractor; cost about \$20,000.—Office building for Guardian Life Insurance Co.: P. Lyall & Sons, contractors. The building will cost about \$300,000.—A. J. Cooke, architect, has awarded contracts for H. Reinhardt's residence on Pine Avenue as follows: Masonry, A. Charette; carpentry, John O'Leary.

TORONTO, ONT.—Illsley & Horn have secured the contract for erection of Medical School in connection with the University of Toronto. The contract is about \$125,000.—York county council have accepted the tender of O'Hara & Co. for loan of \$84,000.—Tenders were awarded by the city council last week as follows: Sewer, from Beatrice Street to College Street, City Engineer, \$900; pavements, asphalt, Morris Street, Huron street to Spadina, Barber Asphalt Co., \$3,450; Bay Street, King to Front

Streets, Constructing and Paving Co., \$6,799; brick, Orde Street, Murray to McCaul Street, City Engineer, \$2,740; macadam roadways, Simcoe Street, Queen Street to Caer Howell, City Engineer, \$9,395; Caer Howell, University to Simcoe Street, City Engineer, \$584; concrete sidewalks, Jameson Avenue, east side, King Street to G. T. R., 54 cents per lineal foot; west side, same street, W. R. Payne & Co., 53 cents; Ontario Street, west side, Gerrard to Carlton, \$1.09 per foot; Parliament Street, east side, Queen to St. David, \$1.27, Howard Leitch; Winchester Street, north side, Rose to Parliament, 60 cents; Wellesley Street, north side, No. 444 to 124 feet east of Parkview, 48 cents; Beverley Street, east side, D'Arcy to Baldwin, 71½ cents; Elm Street, south side,

Yonge to Teraulay, 50½ cents, A. Gardner & Co.; Parliament Street, west side, Wellington to Howard, 59½ cents, A. Chambers & Co.; Gwynne Avenue, both sides, King to Queen, \$1.05, W.F. Grant & Co.

BRIDGEBURG, ONT.—The following tenders have been accepted for construction of waterworks system: Water tower, Ontario Wind Engine & Pump Co., Toronto, \$2,955; pumps, Smart, Eby Co., Hamilton, \$2,632; intake and pump house, J. J. Brown, Toronto, pipes and special castings, Gartshore, Thomson Pipe & Foundry Co., Hamilton, pipe laying, W. F. Grant & Co., Toronto; gas engine, Gould Mfg. Co., Seneca Falls, N. Y., \$2,395. Willis Chipman, C. E., of Toronto, is consulting engineer.

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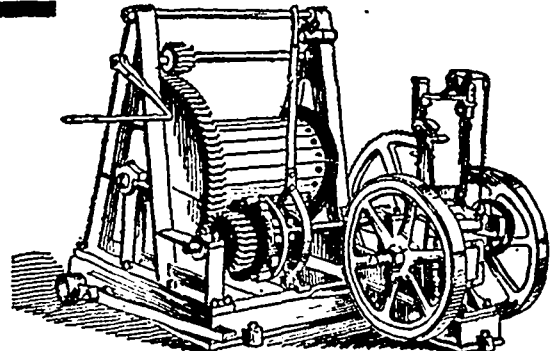


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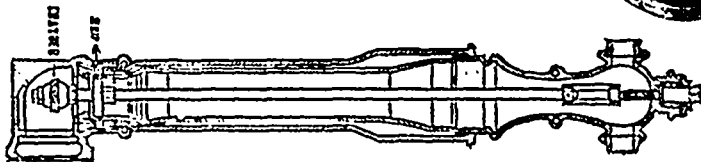
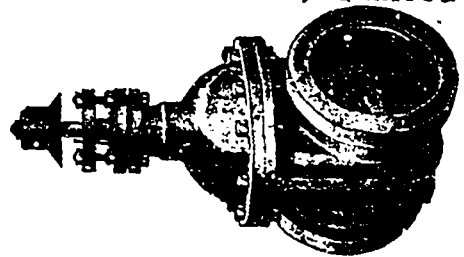
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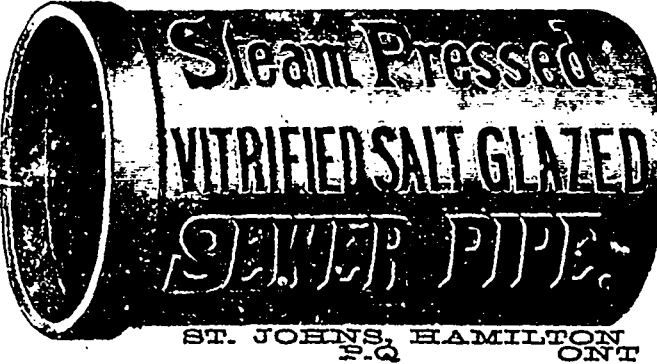
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SEWER CONSTRUCTION.
(Continued from last week.)

As an observer, I would say that in the trade, the undertaking of contracts seems to be particularly avoided by almost all plumbers, and I am of the opinion that the principal reason is because of lack of knowledge as to how to figure cost of construction. Reliable data can be obtained through the different magazines on municipal engineering and construction as to exact cost in different kinds of soils, and these should be resorted to by those undertaking contracts without previous experience, to assist them in determining what they can bid.

The modern sewer is at wide variance and constructed on different plans from those constructed in the old times, the sizes of pipe not running as large, requiring less flushing, and performing better service. The time was when a city of any ordinary size, such as our county seats within this state, would never think of building anything smaller than a 36-inch sewer. These are now supplied with pipe outfall sewers in 13, 15, 18 and 24-inch at great saving to the taxpayer.

One of the principal features of sewer construction to which I would call your attention is the utilizing of all available fall, as the capacity is determined solely by the velocity, and the velocity depends entirely upon the fall. Most plans and specifications require the careful fitting of pipes upon the ditch before being let down into the trench. These specifications also cover the method of calking with oakum gaskets previous to cementing. The size of the thread of oakum is usually not specified in specifications, but is deter-

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mined solely by the space between the spigot end of the pipe and the socket into which it enters. The gaskets should be carefully tamped with a wooden tamper into place so as to absolutely prevent the entering of any of the cement, within the inner radius of the pipe. We find in looking over sewers where these provisions have been neglected, that dams are found frequently of from one to two and sometimes three inches, resulting from not having been properly calked. The introduction of anything fixed inside or pro-

truding into the pipe from between the joints, not only makes it impossible to have a perfect flow, but prevents proper flushing, and makes the danger of stoppages more frequent.

(To be Continued.)

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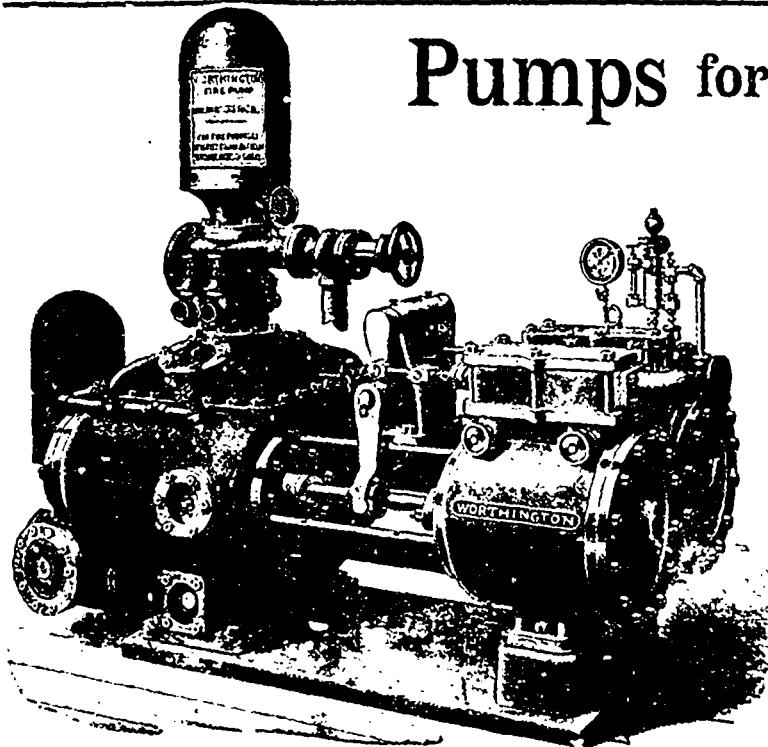
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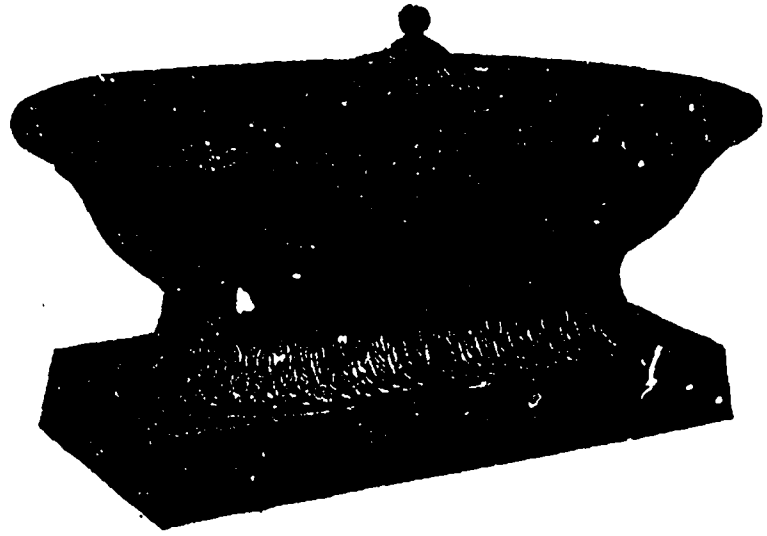
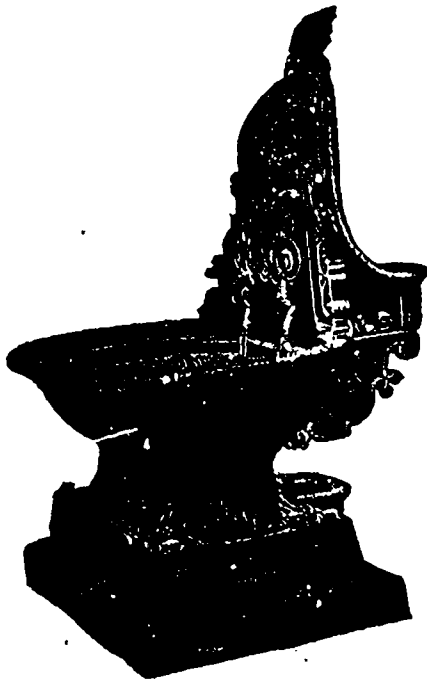
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Mason	30 00	

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Toronto. Montreal

Starstead granite paving blocks, 8 in. x 12 in. x 4 1/2 in. per M.	50 00
Granite curbing stone, 6 in. x 2 1/2 in. per linear foot.	70
Boutouche Olive Freestone.	95
Olive Sandstone (Indian town, N.B.)	80
Brown " (Sackville, N.B.)	80
Most red sandstone, per cu. ft.	50 65
Black Parture buff stone, per cu. ft.	20
Nova Scotia blue grey, per cu. ft.	65
Couriers, 4 in. to 6 in. bed, f. o. b.	
St. Mary's, per cord	4 00
Footings, 2 1/2 to 3 in. wide, 6 in. thick, per running foot.	7
Bridge Stone, 10 to 13 in. thick, f. o. b. St. Mary's, per cord	9 00
Granite (Laurientian Pink) Ashlar, 6 in. to 2 in., rise 9 in., p. r. ft.	25
Dimension Stock Granite, (Laurientian Pink) for building purposes, per cu. ft., f. o. b. quarries	40
Do., for polishing purposes, up to 2 tons weight, per cubic foot.	70
Dimension stock granite for building purposes, per cubic foot	50 50
Do., for polishing purposes, up to 2 tons weight, per cubic foot	1 50
Paving sets, per thousand block	60 00

CREDIT VALLEY STONE. F.O.B. Quarries.

Rubble, per ton	37
Brown Coursing, up to 10 per sq. yard	3 00
Brown Dimension, per cub. ft.	65
Grey Coursing, per sq. yard	1 35
Grey Dimension, per cub. ft.	45

SLATE. Toronto. Montreal

Roofing (F. square)		
" red	12 50	14 00
" purple	8 50	10 00
" King's tree	5 50	7 00
" black	7 50	8 00
Terra Cotta Tile, per 1,000	20 00	25 00
Ornamental Black Slate Roofing	8 50	6 50

PORTLAND CEMENT.

English—		
Irish's Shorebridge Brand	2 20	2 30
Excelsior Brand		2 15
Belgian—		
" Jersey Brand	2 25	2 30
" North's Cander	2 25	2 30

Toronto. Montreal

Hammer		1 80	1 65
R. d Cross Brand			1 90
Anch r			2 05
Waterloo			2 25
Raevel's 395 lb. bbl.			2 40
Levic Bros.			2 55
German—			
Oberbacher Brand		1 90	2 05
Aisen's	3 00	3 25	2 60
Karstadt	2 85	3 05	2 55
Canadian—			
Star Brand	2 10	2 50	
Beaver Brand	2 00	2 40	
Ensign	1 85	2 00	
Citadel	2 00		
Trowel		1 75	1 85
Samson Brand		2 0	
M. gret		1 00	
Monarch		2 10	
American—			
Alpha Brand	2 00	2 25	2 30
Lenigh, in bbl., 375 lbs.		2 00	2 55
" cotton sacks, 250 net		2 00	2 55
" open bags		2 30	2 35
Dago extra			2 40
Keene's Superior "Whites"	10 00	12 00	9 00
Keene's Carse "Whites"	8 00	8 50	8 50
Fire Bricks, Newcastle, per M	27 00	32 00	18 00
" Scotch	28 00	33 00	17 00
Lime, 100 lbs., Grey		30	
" White		30	
Plaster, Calcined, N. B.		2 0	1 66
" N. S.		2 0	1 00
Hair, Plasterers', per bag	50	1 00	90

ARCHITECTURAL VARNISHES.
 THE IMPERIAL VARNISH AND COLOR CO. LIMITED.
 (Highest grade.)

Cans free.							
In 5 gal. cans	In 1 gal. cans	In 1/2 gal. cans	In 1/4 gal. cans	In 1/8 gal. cans	In 1/16 gal. cans	In 1/32 gal. cans	Per gal.
Extensive wear—ing body	50	55	55	55	55	55	60
Extensive rubbing	350	375	385	400	400	400	400
Elastic	350	375	385	400	400	400	400
Imperial Fine Line	500	525	535	550	550	550	600
Conchali	450	475	485	500	500	500	500
Vachins	350	375	385	400	400	400	400
Architectural Gloss	350	375	385	400	400	400	400
Guarding floor finish	250	275	285	300	300	300	300
Architectural Finishing	250	275	285	300	300	300	300