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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE TRADE

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. 10.

AUGUST 23, 1899

No. 30.

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SEALED TENDERS

Will be received by the undersigned up to THURSDAY, AUGUST 31ST, for all trades, excepting Plumbing and Heating, required in the erection of a Residence in Rosedale and one in Parkdale. Plans and specifications may be seen at the office of the architect, to whom tenders are to be addressed. Lowest or any tender not necessarily accepted.

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

Sealed Tenders

Will be received by the undersigned to 5 p.m. 2ND SEPTEMBER NEXT, for building Superstructure of a Steel Bridge, 100 feet span, in the Township of York, County York, Ont. For further information apply to the undersigned. The lowest or any tender not necessarily accepted.

P. S. GIBSON & SONS,
Engineers Township York.

Willowdale, Ont., 15th August, 1899.

TENDERS WANTED

Sealed tenders will be received by the undersigned up to 6 o'clock p.m., FRIDAY, AUGUST 25TH, 1899, for the construction of about

10,000 Square Feet of Granolithic Walk

Specifications can be had on application to the Town Clerk.

The lowest or any tender not necessarily accepted.

WM. MITCHELL,
Town Clerk.

Goderich, Ont., August 14th, 1899.

NOTICE TO Sewer Contractors

Sealed tenders, addressed to the undersigned, will be received until

Friday, the 1st Day of September, 1899,

for the construction of a Concrete Sewage Screen Tank, about 2,000 feet of 18-inch Sewer, with Manholes, Inverted Siphon, etc., leading from the present outlet of main sewer to the tank and from the tank to filter beds and creek. Also for the construction of one small Filter Bed, with Under-Drains, etc.

Drawings, specifications and forms of tender can be seen at the office of the undersigned on and after August 26th.

W. F. VANBUSKIRK, A.M. Can. Soc. C.E.,
City Engineer, Stratford, Ont.

FOR SALE

600 feet of 16 inch Cast Iron Flexible Pipe the Ward joint, new. Apply JOHN LANTON, 1457 Queen Street West, Toronto.

ST. MARY'S WATERWORKS

Sealed tenders will be received by L. Harstone, Town Clerk, St. Mary's, Ontario, until 7 p.m. on FRIDAY, THE FIRST DAY OF SEPTEMBER 1899, for the different sub divisions of the above works, comprising

PIPE LAYING
PUMP HOUSE
WATER TOWER
PIPES
HYDRANTS
VALVES and
PUMPING MACHINERY

Plans and specifications may be seen at the office of Town Clerk, St. Mary's, Ontario, or at the office of the Chief Engineer, Toronto, on and after August 22nd.
No tender necessarily accepted.

WILLIS CHIPMAN, Chief Eng. near,
103 Bay Street, Toronto.

L. HARSTONE, Town Clerk,
Town Hall, St. Mary's, Ont.



NOTICE TO CONTRACTORS

Tenders for Roadway

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on THURSDAY, AUGUST 31ST, 1899, for the following work:

MACADAM—Crescent Road, Yonge Street to Rosedale Road.

Contents of envelopes containing tenders must be plainly marked on the outside.

Conditions and specifications may be seen and forms of tender obtained at the office of the City Engineer, on and after August 24th, 1899.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2 1/2 per cent. on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor),
Chairman Board of Control.

City Hall, Toronto, August 21, 1899.

TO CONTRACTORS

Tenders will be received until TUESDAY, AUGUST 29TH, for the several works required for the erection of a
Large Brick Sunday School Building

in connection with 1100r Street Baptist Church, near the south-west corner of 1100r and North Streets, Toronto, in accordance with plans and specifications prepared for that purpose, which may be seen and all information obtained at the office of the Architect.

E. J. LENNON, Architect

TENDERS WANTED

Sealed tenders, in bulk or separate tender, addressed to the undersigned, and endorsed "Tender," will be received up to and including MONDAY, AUGUST 28TH, 1899, for a BRICK DWELLING HOUSE to be erected at the Corporation Waterworks Pumping Station, Kensington Avenue, Town of North Toronto. A plan and specifications can be seen at the Clerk's office, in the Town Hall, North Toronto (Eglinton), at any time during office hours. The lowest or any tender not necessarily accepted.

ELIJAH ARMSTRONG,
Chairman Committee on Works,
Dated August 22nd, 1899. Eglinton P.O.

NOTICE TO Sidewalk Contractors

Sealed tenders, addressed to the undersigned, will be received until six o'clock p.m. on

Thursday, the 31st Day of August, 1899,

for the construction of about 6,300 square feet of Cement Concrete Sidewalk, and about 4,000 square feet of Sidewalk composed of Vitrified Brick laid in Cement Mortar.

Specifications can be obtained from the undersigned on and after August 26th, 1899.

W. F. VANBUSKIRK, A.M. Can. Soc. C.E.,
City Engineer, Stratford, Ont.

CONTRACTS OPEN.

RICHMOND, QUE.—J. D. Smith is preparing to erect a building.

GREENWOOD, B. C.—W. S. Fletcher purposes erecting a variety theatre.

LEAMINGTON, ONT.—W. D. Cox purposes building a new dwelling house.

REVELSTOKE, B. C.—The council will establish an electric fire alarm system.

MCLEOD, N.W.T.—Steps are being taken to select a site for new city hall.

GALT, ONT.—The Ainslie street extension will be proceeded with immediately.

YMIR, B.C.—Tenders have been invited for erection of public school building.

SANDWICH, ONT.—The council is considering the raising of \$2,500 by debentures.

KASLO, B.C.—A stock company is being organized to develop the Kaslo stone quarry.

WHITBY, ONT.—By-law was carried on Monday in favor of county house of refuge.

WESTON, ONT.—The council has decided to submit to the ratepayers a by-law providing \$6,000 for the purchase of

an electric light plant. A waterworks by-law may be submitted at the same time.

ST. JOHN'S, QUE.—At last council meeting new stone sidewalks and drains were ordered.

VANCOUVER, B. C.—Parr & Fee, architects, are taking tenders on residence for Mr. Greenfield.

PORT ARTHUR, ONT.—Robert Hamer has completed plans for brick store on Cumberland street.

LACOMBE, N. W. T.—Mr. Hamilton, of this place, is arranging to build an hotel at Gull Lake.

MOYIE, B. C.—J. C. Drewry will erect a building 29x60 feet, three storeys high, to contain 26 rooms.

DELI, ONT.—It is understood that a brick hotel will be erected on the site of the one destroyed recently.

WATERLOO, ONT.—New tenders are invited for the purchase of waterworks and isolation hospital debentures.

ALMONTE, ONT.—Voting on the by-law to raise \$50,000 for an electric light plant will take place on September 25th.

WOODSTOCK, ONT.—J. B. Tindale has prepared plans for the proposed rectory in connection with St. Paul's church.

BRIDGEBURG, ONT.—Plans have been prepared for roundhouse to be built by the Grand Trunk and Wabash railways.

BRANTFORD, ONT.—It is probable that the construction of the proposed House of Refuge will be deferred until next year.

SHAWINIGAN FALLS, QUE.—The Pittsburg Reduction Co. have broken ground for the erection of their buildings here.

DESERONTO, ONT.—Major General Hutton was in town last week inspecting the site for the proposed new artillery range.

HARROW, ONT.—A by-law was carried last week to raise \$800 by debentures for purchase of fire engine and other appliances.

EDMONTON, N.W.T.—The machinery of the Electric Light Co. was recently damaged by flood to the extent of several thousand dollars.

HULL, QUE.—The mayor has signed a contract granting a bonus of \$50,000 to H. J. Boemer for the establishment of car shops in this city.

LACHINE, QUE.—The by-law authorizing the expenditure of \$155,000 on a sewerage system was carried by the ratepayers last week.

TORONTO JUNCTION, ONT.—The town clerk was last week interviewed by several gentlemen from Philadelphia regarding a suitable site for a factory.

DARTMOUTH, N. S.—Alfred Elliott, town treasurer, wants bids by 25th inst. for loan of \$6,000, to be used for waterworks and sewerage extension.

PARRY SOUND, ONT.—It is understood that the Parry Sound Copper Co. has purchased property from the Beatty estate on which to erect a smelter.

LEVIS, QUE.—The county council of Levis has passed a resolution urging the Quebec government to assist the scheme for the establishment of an abattoir.

HARRIE, ONT.—E. F. B. Johnston, Q.C., of Toronto, has purchased a block of land on the bay shore opposite the town and will erect a summer residence thereon.

CALEDON EAST, ONT.—A. Sanderson, secretary of Union School Section No. 14, Albion, wants bids by 25th inst. for purchase of \$2,900 of 4 per cent. debentures.

GODERICH, ONT.—Bids close on September 1st for the purchase of \$50,000 Goderich Elevator and Trust Company debentures. Address, H. F. Mooers, secretary.

CHATHAM, ONT.—The Lake Erie & Detroit River Railway are having plans prepared for a large summer hotel at Erieau, the summer resort on Rondeau Harbor.

L'EMPHANIE, QUE.—The municipal council has invited tenders for the construction of a bridge on the River L'Achigan. Address, O. Pauze, secretary-treasurer.

WINDSOR, N. S.—The construction of a dock in connection with the Midland Railway is talked of. Dr. Haley has been promised government assistance for the project.

NELSON, B. C.—The power house of the Nelson Electric Tramway Co. will be built at the eastern boundary of the city limits. C. S. Drummond is president of the company.

TILBURY, ONT.—The congregation of the English church have appointed a building committee to erect a church, to cost about \$5,000. W. C. Crawford and W. A. Shaw are members thereof.

SMITH'S FALLS, ONT.—It is rumored that Capt. Foster will build a schooner here next winter.—The by-law to raise \$20,000 for purchase of road roller and improving streets was carried last week.

WALLACEBURG, ONT.—Extensive repairs are to be made to the Methodist church here.—James Beattie has purchased a residential property from J. D. McDonald, and purposes reconstructing it.

CHILLIWACK, B. C.—The Lands and Works Department, Victoria, invite tenders up to September 8th for the completion of the Chilliwack dyke. Plans at office of E. A. Wilmot, engineer-in-charge, this place.

KINGSTON, ONT.—H. P. Smith, architect, has invited tenders for the erection of dwelling on Johnston street for Capt. A. H. Malone.—The plans for the new opera house are expected to be completed this week.

ST. JOHN, N. B.—The laying of 6,000 yards of asphalt sidewalk has been recommended.—The school trustees had a conference a few days ago with R. C. John Dunn, architect, regarding plans for the Indian town school building.

SYDNEY, C. B.—It is reported that a deal is about to be consummated in England to amalgamate the Nova Scotia Steel Co., of New Glasgow, and the General Mining Association, the intention being to establish a ship-building and steel rail plant at this place.

COATICOOK, QUE.—The Coaticook Electric Light & Power Co. have made application for exemption from taxation on proposed plant, to be used as an auxiliary to the present lighting station.—A bonus has been granted by the town to the Penman Manufacturing Co.

ST. CATHARINES, ONT.—Manager Wilson purposes making improvements to the Grand Opera house this fall, including a new furnace.—Messrs. Osborne and Poole have purchased the vacant property between the Russell House and the American Bazaar and purpose erecting a block of stores thereon.

HAMILTON, ONT.—Wm. & Walter Stewart, architects, will remodel the Star Theatre and build an addition.—Tenders are invited for erection of building to be used as a storage battery factory. It is understood that the Cataract Power Co. are interested.

RAT PORTAGE, ONT.—The town engineer has been instructed to prepare plans and invite tenders for construction of sewers, also to purchase the necessary sewer pipe.—The council invites tenders up to Thursday, Sept. 7th, for a franchise for five years for street electric lighting, fire alarm and telephone service. Particulars from J. K. Brydon, town clerk.

RENFREW, ONT.—Mr. McCubbin, C. E., has been instructed by the council to prepare plans for sewer extension. Tenders for digging and filling in connection with same are invited up to 26th inst. Address, H. Moss, chairman Waterworks Committee.—It is probable that the town will put down some granolithic pavements.

CAMPBELLTON, N. B.—Thos. Malcolm, railway contractor, of Edmonton, states that the Restigouche and Western Railway will be completed next year. The road will be 110 miles long, and its construction will include several small bridges and two large bridges over the Restigouche and St. John rivers.

WELLAND, ONT.—The town is offering a prize of \$100 for accepted plan for town hall, to cost \$7,000, same to be received by September 4th. Address, W. G. Somerville.—Tenders close Saturday, 26th inst., for construction of 120,000 feet of concrete sidewalk. Particulars from C. H. Reilly, chairman Street Committee.

QUEBEC, QUE.—It is expected that contracts will be let this week for construction of proposed Quebec bridge across the St. Lawrence.—It is reported that in a few days tenders will be called for the enlargement of the graving dock here, for which parliament recently voted \$117,000. It is also expected that work on the new Intercolonial station at Levis will be commenced at an early date.—The Canadian Electric Light Co. will shortly let contracts for power house, hydraulic and electric machinery and transmission line. T. Pringle & Son, Montreal, engineers in charge.

ROSSLAND, B. C.—The Oddfellows' lodge have in view the erection of a hall.—The gas franchise by-law was carried by the ratepayers recently. Dr. Doolittle, of Toronto, is one of the promoters.—In connection with the Boundary Falls water power development, a tunnel is being driven about 130 feet through the rock, and from the lower end of the tunnel to the power house there will be a flume 1,800 feet in length, supported on trestles. It is understood that a power plant will be put in later. Francis McLean, of Greenwood, has charge of the work.

BERLIN, ONT.—The Berlin Gas & Electric Light Co. are reported to be considering the building of an electric railway to Preston. Should this step be decided upon a new power house will likely be erected.—On August 23rd the ratepayers will vote on a by-law authorizing the expenditure of \$18,000 in extending the waterworks system.—C. Knechtel, architect, is preparing working plans and specifications for the new Christian Scientist church.—F. H. Fehrenbach has purchased property on King street east and will erect thereon a modern brick block, to be 24x70 feet, two storeys, to contain harness shop, sales room and offices.

WINNIPEG, MAN.—The Committee on Works has recommended that the machinery at the waterworks pumping house be repaired, cost \$1,200, and that an 80 h.p. boiler and a 10 ton asphalt roller be purchased.—Bradey, Love & Troyn contemplate the erection of several elevators through the province this fall.—W. G. McMahon has purchased property on Caletton street on which he will likely build next year.—It is reported that the Winnipeg Street Railway Co. will build new car barns next year.—Tenders close to-day (Wednesday) for construction of sewer on Selkirk ave.—The Northern Pacific Railway Co. have surveyors at work locating the proposed extension from Portage la Prairie to Birtle.

LONDON, ONT.—W. C. Kipp is about to erect three two-storey brick residences on Hellmuth avenue.—Lawrence Nichols has been granted building permit for one and one-half storey brick veneered residence on Elmwood ave., cost \$1,500.—

Instead of building a new Sunday school building in connection with St. Andrew's church, it has been decided to repair the church, the repairs to include re-flooring and painting, remodelling the gallery, and putting in new pews throughout.—Rogers & Davidson are building a two storey brick veneer residence on Piccadilly street, cost \$1,700.—Waterworks debentures to the extent of \$55,000 will be issued.—Bids are invited by A. O. Graydon, city engineer, up to Thursday, 24th inst., for construction of London West breakwater.

WINDSOR, ONT.—Work has commenced on the new Stearns laboratory on Sandwich street west; estimated cost, \$30,000.—The House of Refuge Committee of the county council have accepted the plans submitted by Powell & Wideman, architects, of Guelph, for proposed building. Eight designs were submitted.—Phillips & Co., showcase manufacturers of Detroit, are about to establish a branch of their business in this city.—J. H. Shepard is about to erect a residence.—A by-law has been introduced in council authorizing the borrowing of \$25,000.—John Curry will build brick block, corner Ouellette avenue and Chatham street, cost \$25,000.—Stephen Lusted, town clerk, will receive tenders on behalf of the corporation up to Friday, September 1st, for construction of concrete sidewalks throughout the city.

MONTREAL, QUE.—Tenders have been invited for additional repairs to the civic hospital.—Mr. Aubrey, the well known horseman, is promoting a scheme for building a new trotting and running track near the city. The sum of \$12,600 has been subscribed for the purpose.—The trustees of the First Baptist church, corner St. Catharine and City Councilors streets, have decided to dispose of the property and erect a new place of worship.—Joseph Venne, architect, will call for tenders next week for a Roman Catholic church at Perce, Que.—Bernier & Brodeur, architects, are preparing plans for a cottage to be built by Ferdinand Tremblay, at the corner of Sherbrooke and Cadieux streets.—Joseph Sawyer, architect, is preparing plans for the furnishing and fixtures of the office of the Society of French-Canadian Artisans, corner Notre Dame and St. Francois Xavier streets.

TORONTO, ONT.—Mr. E. J. Lennox, architect, desires tenders by the 29th inst. for the erection of a large brick Sunday School building in connection with Bloor street Baptist church.—Mr. Alex. Leslie, hotel keeper, has purchased the lease of the property now occupied by the Hobberlin Bros. Co. at south-east corner Yonge and Richmond streets. The present occupants are to vacate the premises by September 10th, when improvements will be proceeded with.—The city has given notice of its intention to construct a macadam roadway on James street, from Albert to Louisa, cost \$900, and on Florence street, from Dufferin street to Brock ave., cost \$1,940.—The York township council, at a recent meeting, considered the proposed Avenue road and Mount Pleasant extension of Toronto Street Railway. Should the extension be decided upon, the cars would cross the bridge of the Scottish Canadian and Manitoba Loan Co., which would have to be improved at a cost of about \$10,000.—The Grand Trunk Railway Co. have decided to abandon the idea of building an art gallery on the exhibition grounds this year.—Work is about to be commenced on an addition to the trunk and umbrella factory of East & Co.—Building permits have been granted as follows: J. D. King & Co., addition to factory on Wellington street, cost \$7,000; John Denny, pair brick houses on Stewart street, cost \$4,000; L. P. Steward, two-storey brick residence, 84 Delaware ave., cost \$2,800.—

Mr. Henry Simpson, architect, 9½ Adelaide street east, is taking tenders on a clubhouse on Broadview ave.—It is expected that Mr. S. Weatherbee, architect of the Department of Militia, Ottawa, will shortly inspect the drill hall here, with a view to the erection of sheds for the artillery.—Ald. Hallam has secured an option on property adjoining the Athletic Club building on College street as a site for proposed technical school.

OTTAWA, ONT.—The Ottawa Power Co. has been formed, with a capital of \$250,000. A. W. Fraser and M. C. Edey are interested.—E. F. E. Roy, secretary Department of Public Works, desires tenders by Friday, 25th inst., for dredging channel at Coteau Landing, Que., the work to cost about \$6,000.—The Dominion government having recently voted \$60,000 to the city for general improvements, several plans are being considered for spending the money. The building of a new bridge across the Rideau river, and from there paving a street to Sussex street, is spoken of. Another proposition is to bridge in the space between the Sapper's and Dufferin bridges and build a bridge over the canal at Somerset street.—The butchers of the city have petitioned in favor of an abattoir.—The new militia stores building, for which tenders will shortly be invited by the Dominion government, will be brick, 150 x 70 feet, with an annex 40 feet square, and will cost about \$25,000.—The Separate School Board are about to commence work on four new buildings. The plans of E. L. Horwood, architect, have been accepted for the one to be built in the Glebe district, and those of E. E. Perrault for the Dalhousie ward school.—Petitions have been presented to council for concrete walks on a number of streets.—The construction of the Bank street subway is likely to be commenced at an early date.—Building permits have been granted as follows: Bellhouse, Dillon & Co., frame building, Catherine street, cost \$2,000; Public School Board, brick sheds to Central school west, cost \$4,000; B. Slinn, double brick tenement dwelling, veneered, Creighton street, cost \$1,500; G. M. Bayley, frame dwelling, James street, cost \$2,000; D. O'Connor, jr., two brick veneered dwellings, Gilmour street, cost \$5,000; James J. Neville, terrace of six dwellings, with brick veneered front, Cartier street, cost \$3,000.—The Department of Railways and Canals desires bids by Saturday, Sept. 2nd, for widening, straightening and deepening the upper entrance of the Cornwall canal. Plans at office of the chief engineer of the above department, and at the engineer's office, Cornwall.—Tenders are invited for the

construction of a school house in Dalhousie ward.

FIRES.

The Ontario Box Co.'s factory at Hamilton, Ont., totally destroyed; loss \$30,000, covered by insurance. J. J. C. Thompson is president of the company.—House at Kingston, Ont., owned by Jacob Matthews.—Saw mill at Wilbur, Ont., owned by W. C. Caldwell; machinery totally destroyed.—House, barn and drive house of David Henderson, at Collin's Bay, Ont., completely destroyed.—Manson & Boright's mill at Magog, Que.; small insurance.—Premises of the Dominion Transport Co. and Wm. Paxton & Son, on Dalhousie street, Montreal; loss about \$12,000.—Convent of the Grey Nuns at St. Ferdinand d'Halifax, Megantic county, Que.; loss \$50,000, insurance \$30,000.—Freight sheds of the G.T.R., at Woodstock, Ont.; loss \$6,000.—Fire at Stirling, Ont., destroyed Jerome Conley's barrel and cooper shop, John Ralph's building and S. Barrow's residence.

CONTRACTS AWARDED.

GREENWOOD, B.C.—Baptist church: Smith Bros. & Travis, contractors.
COTTAM, ONT.—The council has let the Noble drain contract to R. Rasmusson.
ALVINSTON, ONT.—McCabe Bros.' brick block: M. Gillespie & Co., contractors.
CREEMORE, ONT.—Cement walks: H. G. Wynes, Collingwood, successful tenderer, 13½ cents per square foot.
ST. CATHARINES, ONT.—Mason work of bridge on Q. & G. stone road: Bennett & McLaren, contractors; price \$1,450.
WALKERTON, ONT.—German Methodist church: Henry Miller, of Mildmay, successful tenderer; cost about \$3,000.
BRANTFORD, ONT.—Two buildings on Chatham street for Ald. T. Pearce: Masonry, James Fitness; carpenter work, Havill & Whitham.
ALMONTE, ONT.—F. McEwen, proprietor of the Dominion Quarry, Beckwith, has received the contract for stone for the Appleton bridge.
PETERBORO', ONT.—The contract for granolithic walks on Hunter, Simcoe, Charlotte and Aylmer streets has been let to Richard Sheehy, at 13 95-100 cents per square foot.
FORT WILLIAM, ONT.—John O'Neill, of Kemptville, Ont., John R. Turnbull, of Winnipeg, and L. Madigan are reported to have secured contracts for five-mile sections of the Ontario & Rainy River Railway. John R. Turnbull is believed

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and CAISSON FOUNDATION a Specialty**

to have also received the contract for building bridges and trestles between Stanley and Fort William.

RENFREW, ONT.—Nine tenders were received for the purchase of \$13,400 of town debentures. The tender of H. O'Hara & Co., Toronto, has been accepted, at premium of \$260.

LONDON, ONT.—The contract for iron work for new waterworks dam has been given to Geo. White & Son, this city, at \$1,085. The Hamilton Bridge Works will furnish the steel beams, at \$870.

SAULT ST. MARIE, ONT.—The contract for the section of the Algoma Railway between Lake Superior and the mines of the Lake Superior Power Company has been awarded to James Connee, M.P.P., of Port Arthur.

ST. JOHN, N.B.—The Board of Works has recommended the acceptance of the tender of the Good Roads Machinery Co., Hamilton, Ont., for a double cylinder steam road roller, a steel rock crusher, and a 16 h.p. Waterous engine.

WINNIPEG, MAN.—90,000 cubic yards of drainage work in Franklin municipality: W. R. Sinclair, this city, successful tenderer.—Gault Bros.' warehouse, corner Bannatyne and Arthur street: Carpenter work, A. C. Sutherland; masonry, Philip Burnett; plumbing and heating, Plawton Bros.; painting and glazing, James A. Payne; other trades not let.—Dan McGillivray, of Vancouver, and G. K. Leeson, of Calgary, are reported to have secured a 40 mile contract of the Ontario & Rainy River Railway.

WOODSTOCK, ONT.—Tenders were received by the town as follows for construction of sewers on the streets named: Nelson, Kent and Princess streets—H. Lane, Woodstock, \$767; B. Johnson, London, \$760; E. Cawsey, Stratford, \$711. Riddell street—H. Lane, \$377; B. Johnson, \$475; E. Cawsey, \$354. Hunter street—H. Lane, \$522; B. Johnson, \$353.76; E. Cawsey, \$315. Delatre street—H. Lane, \$2,760; B. Johnson, \$2,175; E. Cawsey, \$2,216. The Nelson, Kent, Princess and Riddell street sewers have been given to E. A. Cawsey, and the Hunter and Delatre street sewers to B. Johnson.

TORONTO, ONT.—The Board of Control last week accepted tenders as follows: Brick pavement on St. Patrick street, Spadina to Denison ave., Clark & Connolly, \$7,283; Pearl street, Simcoe to York, Dominion Paving Co., \$3,759; concrete sidewalk on Wilcox street, Huron to Spadina, 68 cents per lineal foot, Bay street, \$1.76 per foot, J. Gardner & Co.; concrete sidewalk on James street, Mr. Payne, \$1.99 per foot; cedar block pavement on West Lodge ave., Dominion Paving Co., \$1,754; macadam roadway on Davenport road, City Engineer, \$2,800.—The Engineering Contract Co., 603 Temple building, this city, have secured the contract for the construction of con-

crete dam, sluice-ways, bulk head, steam pipe supporters, power house and tail-race for the Canadian Electric Light Co., of Quebec city, the works to be constructed at Chaudiere Falls, near Point Levis.

MONTREAL, QUE.—David Ogilvie, architect, has accepted tenders as follows for alterations to house at 43 University street: Carpenter and joiner work, plastering and painting, T. Benard; plumbing and heating, W. J. Graham; fittings and special woodwork, Simpson & Peel.—A stone addition will be made to the church, corner Bishop and St. Catharine streets, 45 x 54 feet, roof of slate and galvanized iron, probable cost, \$8,000; architects, Messrs. Cox & Amos; masonry, Heggie & Stewart; carpenter work, W. W. Scott & Co.—Alterations will be made in two buildings, 806 to 812 Dorchester street, forming dwellings and stores, 44 x 73 feet, three storeys, brick, roof of gravel and cement; probable cost \$10,000; owner, H. Gatehouse; architect, C. B. Patterson; masonry and brick work, Heggie & Stuart; carpenter work, R. Neville.—A building permit has been granted for warehouse building corner Victoria square and Craig street, seven storeys, stone, with cement roof; probable cost \$100,000; owner, Mr. McIntyre; architects, Hutchison & Wood; masonry and brick work, Wighton, Morrison & Co; carpentry, L. Paton & Sons.

NEW METHOD OF DRIVING PILES.

A novel way of driving piles is reported to have been adopted by the Russian Engineer Corps, and one which is more expeditious than that of the ordinary pile driver. It consists of cutting grooves on two sides of the piles, of sufficient depth and breadth to carry ordinary gas pipes of 1 inch or 1½ inches in diameter, which terminate in nozzles like those of a hose pipe, and which are inclined towards the point of the pile. The pipes are fastened to the pile by light staples, and are then connected with the pump by a rubber hose. Water at a pressure of 71 pounds to the square inch is forced through the pipes, and the outflow causes the pile to sink. After the desired depth has been reached, a few blows are given by the falling weight to make sure that the pile is firm, and the pipes are removed and affixed to a new pile. This does not differ materially from the methods adopted in sinking the steel pipes at Coney Island and Long Branch for the ocean piers. They were settled in the sand by a stream of water forced out at their feet, and, as we remember, the work was very expeditious.

Albert Brunet and Emile Rasa have registered proprietors of the firm of Brunet & Rasa, painters, Montreal.

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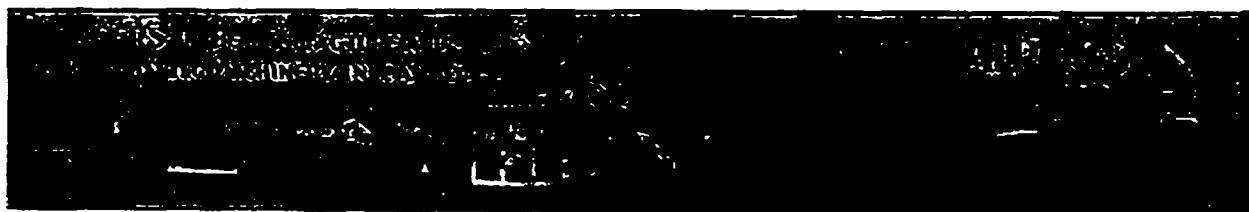
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THEY HAD NO DERRICKS.

The method of erecting Egyptian obelisks has long puzzled the student of Egyptian antiquities, and the numerous documents and wall-pictures found do not explain it. In a late issue of "Construction Moderne," Mr. J. C. Kruseman suggests a possible method of handling blocks of stone weighing as much as 1,000 tons, and sometimes 131 feet high and 10 feet square at the base. These blocks were also placed on pedestals considerably raised above the actual level of the soil.

Mr. Kruseman finds that these obelisks were generally placed in front of pylons or temples. He believes that the Egyptians first built a slightly inclined causeway of sand or other material, equal in height at one end to the obelisk to be erected, ending at the end in a strong wooden crib, and leaving a space between the crib and the temple for the obelisk. The base was then built and the space between the temple and the crib was about half filled with sand, and on the face of the crib a strong inclined chute was constructed leading to the base. The obelisk was then rolled up the incline on hard wooden rollers, and, with tackle leading to the temple, it was then allowed to tilt over the front of the crib, falling into the sand and guided by the chute. By slowly and carefully digging away the sand and hauling on the top of the obelisk it would thus be gradually sunk, until it would finally rest on its base.

May & McWhinnie have commenced business as roofers in Ottawa.

Mettivier, Beaubais & Polin, masons, Maisonneuve, Que., have dissolved partnership.

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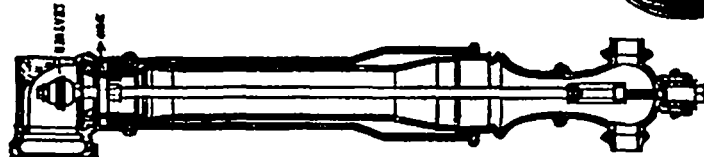
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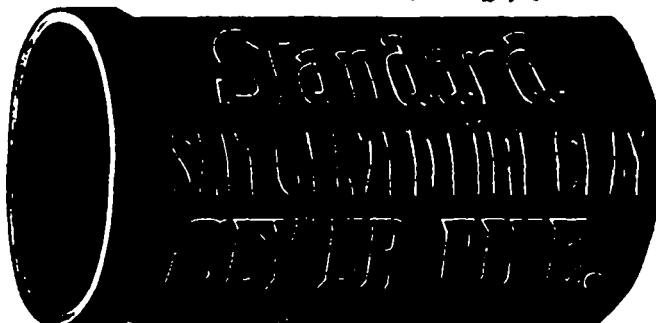
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WOODEN WATER PIPES.

Excavations along Oxford street and near the Marble Arch, Hyde Park, London, Eng., laid bare many of the old wooden water pipes which were used in times past by the New River company for supplying the metropolis with water. All were in a remarkably good state of preservation and lay at a depth of from two to three feet. The diameter of the pipes was from five to seven inches. In Park lane was found a double line of such pipes—one line forming a by-pass, joined to the main by a carved junction of cast iron. These oaken or elm pipes were laid in lengths of from four to fifteen feet; each section was neatly fitted together, trimmed down outside so as to fit into the next pipe, whose bore had been enlarged. The bark had been allowed to remain on all.

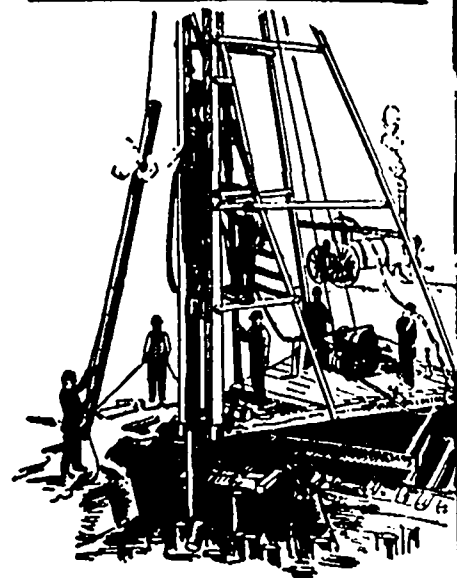
The New River Water company has laid no wooden pipes since 1817, up to which time it had expended between \$25,000 and \$30,000 annually on such material. At that time the fifty acres of land round the head of the New River in Clerkenwell, was covered with a network of pipes—"like the threads of a garment" (Engineer Mylne, "Minister of Evidence" before the House of Commons, July 29th, 1851.) The iron pipes sealed the doors of their wooden predecessors. In order to enable the New River company to make the change, Chancellor of the Exchequer Vansittart authorized the company to borrow \$500,000 on condition that the iron be Staffordshire—the iron trade of the country being at that time in a state of great depression. Pipes of fir were also found in the East End of London. So thoroughly wedded were the Londoners to the system of wooden water pipes that they displayed a vigorous opposition to the change, on the ground that iron pipes were liable to produce cancer in those who drank the water carried by them.

Mr. Charles Alston has been appointed town engineer of Greenwood, B.C.

The New Brunswick government has purchased from the Watrous Engine Works Co., Brantford, and will have delivered to them early in September, a Champion rock crusher and a Buffalo Pitts road roller. The rock crusher is a portable machine and can be driven by the road roller, saving the expense of a special engine. These machines will be used by the provincial government in demonstrating to the towns and settlements of the province the way to build good roads.

The waterworks system at Stayner, Ont is completed, and the town is now provided with first-class fire protection. The engineers, Messrs. Galt & Speakman, of Toronto, recently made an official test, and found everything satisfactory. The reservoir was found to contain 220,762 imperial gallons, whereas the contract only called for 200,000. At the top it is 84 ft. square and at the bottom 32 ft. square.

Its depth is 10 ft. 6 inches. Average static pressure of all hydrants 70 lbs. Pressure with 50 ft. of hose, 65 lbs. With 250 ft. of hose, water was thrown 20 ft. above the hose tower (75 ft.) at the rate of 200 gallons per minute.



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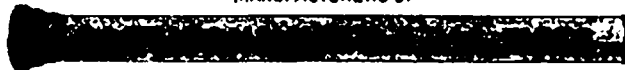
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Terra Cotta Tile, per sq. 20 00 25 00

Ornamental Black Slate Roofing 8 80 6 80

(CEMENT, LIME, etc.)

German per bh..... 2 90 3 10 2 55 2 65

London..... 2 95 3 00 2 75 2 45

Newcastle..... 2 70 3 00 2 95 2 10

" Jos n Bra Portland 3 04 3 24 2 71 2 80

" Dyckerhutz..... 3 05 3 25 2 75 2 90

" North's "Condor"..... 2 95 3 10 2 61 2 80

English, artificial, per bbl. 2 85 3 00 2 5 2 45

Belgian, natural, per bbl. 2 50 2 75 2 00 2 20

Canadian, artificial, " .. 2 85 3 00 2 60 2 70

Roman " .. 2 70 2 25

Parian " .. 5 25 5 25 5 75 5 75

Superfine " .. 1 25 7 10 8 75 9 00

" Karlstadt" (German)... 3 05 3 25 2 75 2 90

" Germania" (German)... 3 05 3 25 2 75 2 90

" Rooster" (Belgian)... 2 15 2 20

" Keystone" (Belgian)... 2 15 2 20

" Anvil" (Belgian)... 1 95 2 05

" Burham" (English)... 2 95 3 00 2 25 2 45

Hydraulic Cements.

Thorold, per bbl. 1 50 1 65

Queenston, " .. 1 50 1 50 1 60

Napanee, " .. 1 50 1 50

Hull, " .. 1 50 1 50

Ontario, " .. 1 25

Keene's Coarse "Whites"... 5 50 6 00 5 00 5 50

Fire Bricks, Newcastle, per M 30 00 35 00 16 00 21 00

Scotch 30 00 35 00 19 00 21 00

Lime, 100 lbs., Grey..... 25

" White..... 25

Plaster, Calcined, N. B..... 2 00 1 00

" N. S..... 2 00 1 00

Hair, Plasterers', per bag... 80 1 00

HARDWARE.

The following are the quotations to builders for materials at Toronto and Montreal:

Cut nails, 50d & 60d, per keg 2 25

Steel " " " 2 25

CUT NAILS, FENCE AND CUT SPIKES.

60d, hot cut, per 100 lbs 2 15

10 to 12 1/2, hot cut..... 2 25

8d, rd, " " .. 2 30

6d, rd, " " .. 2 45

4d to 3d, " " .. 2 55

2d, " " .. 3 15

Cut spike, 10 cents per keg advance.

Steel Nails, 1-c. per keg extra.

Wire nails, 2 75 base 1/4 c.

Iron Pipe:

Iron pipe, 1/2 inch, per foot.. 60.

" " 3/8 " " .. 7 1/2

" " 1/2 " " .. 8 3/4

" " 3/4 " " .. 12

" " 1 " " .. 17

" " 1 1/4 " " .. 24

" " 1 1/2 " " .. 30

" " 2 " " .. 43

Toronto, 65 per cent. discount.

Montreal, 70 per cent. discount.

Lead Pipe:

Lead pipe, per lb..... 7c } 25 00

Waste pipe, per lb..... 7 1/2 } cont. 00

Galvanised Iron:

Adam's—Mar's Best and Queen's Head and (1) 1/2 in. 16 to 24 gauge, per lb..... 4 3/4c 4 3/4c

26 gauge, " " .. 4 3/4 5

28 " " .. 5 5 1/4

Gordon Crown— 16 to 24 gauge, per lb..... 4 3/4 4 3/4

26 gauge, " " .. 4 3/4 4 3/4

28 " " .. 4 3/4 4 3/4

Note.—Cheaper grades about 1/4 c. per lb. less.

Structural Iron:

Steel Beam, per 100 lbs..... 2 75

" channels, " .. 2 85

" angles, " .. 2 50

" tees, " .. 2 80

" plates, " .. 2 55

Sheared steel bridge plate...