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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS AND TENDERS

PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY THURSDAY

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. 8.

APRIL 15, 1897

No. 11.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

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TENDERS

Tenders will be received by the undersigned up till noon of **THURSDAY, APRIL 22ND**, for the different trades required in connection with the erection of an office building in Melinda street.

DARLING & PEARSON, Architects,
Mail Building, Toronto.

Lowest or any tender not necessarily accepted.

POSTPONEMENT



TENDERS FOR STEEL BRIDGES

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on

Wednesday, the 14th Day of April Next,

for the construction of the following works:
Two Steel Bridges, carrying Grand Trunk Railway.
One Steel Bridge, carrying Canadian Pacific Railway, over Queen Street Subway.

Specifications and drawings may be seen and forms of tender obtained at the office of the City Engineer, Toronto.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ 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 signature of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

R. J. FLEMING (Mayor),
Chairman Board of Control.

City Hall, Toronto, March 31, 1897.

The time for receiving the tenders referred to in the above advertisement has been extended until noon on Thursday, the 13th day of May next.

ROBERT J FLEMING (Mayor),
Chairman Board of Control.

City Hall, Toronto, April 9th, 1897.

TENDERS

Tenders will be received by the undersigned until 5 P.M. on **THURSDAY, APRIL 22ND**, for the various works required in the erection of a brick house on Rusholm Road. The lowest or any tender will not necessarily be accepted.

GORDON & HELLIWELL, Architects,
26 King St. E., Toronto.

NOTICE TO CONTRACTORS

Sealed tenders, endorsed "Tenders for York Mills Bridge," will be received by the undersigned up to 10 a.m. of **TUESDAY, APRIL 20TH, 1897**, for the construction of Two Stone Abutments for a Steel Bridge over the West Branch of the Rive Don at York Mills, on Yonge Street. Plans and specifications may be seen and all necessary information obtained at the office of the undersigned on and after Monday, April 13th, 1897.

A deposited cheque for \$200 must accompany every tender, which will be returned if the tender is not accepted.

The lowest or any tender will not necessarily be accepted.

By order,
J. McDOUGALL, County Engineer

Court House, Toronto, April 7th, 1897

TENDERS

Tenders for the erection of two cottages at the Muskoka Home for Consumptives at Gravenhurst will be received by the undersigned until

SATURDAY, 24TH INST.

Plans and specifications may be seen on application to T. M. Robinson, Gravenhurst, or at the office of the Architect.

The lowest or any tender will not necessarily be accepted.

D. B. Dick, Architect,
17 Toronto Street, Toronto.

April 14th, 1897.



TENDERS FOR SODDING AND PAVEMENT

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on **WEDNESDAY, THE 28TH INST.**, for the following works:

Sodding of Boulevard on Huron street, from College Street to Bloor Street.

A Brick Pavement on Orange Avenue, from Spadina Avenue to Esther Street.

Plans may be seen and forms of tender obtained at the office of the City Engineer, City Hall, Toronto.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for a sum not less than 2½ per cent. of the value of the work tendered for, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties, (see specifications) or they will be ruled out as informal.

The committee does not bind itself to accept the lowest or any tender.

R. J. FLEMING, Mayor,
Chairman Board of Control.

City Hall, Toronto, April 13th, 1897.

The Drummond-McCall Pipe Foundry Company, of Montreal, have been granted supplementary letters patent changing their name to the Montreal Pipe Foundry Company, Limited.

CONTRACTS OPEN.

ATHENS, ONT.—W. D. Parish will erect a three-story block.

LEAMINGTON, ONT.—W. R. Graham will erect a brick block on Mills street.

ALMONTE, ONT.—Debentures will be issued by the town to raise the sum of \$2,000.

SHERBROOKE, QUE.—The town is considering the question of providing a water supply.

WALKERVILLE, ONT.—E. Chater and Frank Pulfer are talking of erecting new residences.

THAMESFORD, ONT.—James Patterson and Mrs. M. Hull will each erect new residences.

WOODSTOCK, ONT.—D. W. Karn & Co. will erect a factory in which to manufacture church organs.

PARRY SOUND, ONT.—Residences will be erected this spring by W. Taylor, jr., E. J. Vincent and Mr. Ard.

TRENTON, ONT.—There is some talk of an effort being made to secure the construction of a system of waterworks.

MIDLAND, ONT.—Mr. Gregory proposes erecting a saw mill this spring.—Ogilvie Bros. will probably erect a large flour mill.

ST. JOHNS, QUE.—It is understood that the sum of \$25,000 has been placed in the Dominion estimates for drainage work in this town.

COLLINGWOOD, ONT.—Tenders are asked by A. D. Knight, town treasurer, until June 1st, for the purchase of \$15,000 of debentures.

WOODSTOCK, N. B.—The Maritime Pure Food Company have purchased a site on which they will erect a factory building, 30 x 40 feet.

CALGARY, N. W. T.—A bid to raise \$3,000 to replace the Elbow bridge has been carried. The Island Park bridge proposal was defeated.

WINDSOR, ONT.—The Board of Trade have reported against the granting of a bonus of \$25,000 to the C. P. R. for the construction of an elevator here.

GODERICH, ONT.—Tenders are asked by C. E. Nairn, until the 19th inst., for alterations to Knox church, from plans prepared by W. E. Binning, architect, of Listowel.

MACOO, QUE.—Mr. George White-Fraser, E. E., of Toronto, was recently in town in connection with the proposed electric light plant to be installed by the corporation.

VALLEYFIELD, QUE.—A deputation from Beauharnois county have requested the Minister of Railways and Canals to make repairs to the Beauharnois canal this spring.

ST. JOHN, N. B.—The citizens have selected a site for the proposed library building, and plans for the same will be prepared at once.—R. C. John Duhin,

architect, has prepared plans for a spire 112 feet high, to be built to St. Rose's church, Fairville.

CHATHAM, ONT.—The Town Council have authorized the construction of sewers on several streets.

FREDERICTON, N. B.—Hale & Murchie are preparing to erect a chimney at the Victoria mills 100 feet in height.

WELLAND, ONT.—E. R. Helles, clerk, asks tenders until 8 p.m. of the 16th inst., for constructing a system of fire alarm for the town.

OWEN SOUND, ONT.—J. C. Forster, architect, prepared the plans for the public school building at Chesley, for which tenders were recently asked.

KINCARDINE, ONT.—A deputation from this town have asked the Minister of Public Works to carry out dredging improvements in the harbor here.

ST. CATHARINES, ONT.—Plans of a proposed club house and gymnasium to be erected in this city are on view at the office of M. J. McLaren, and tenders are asked until the 15th inst.

KINGSTON, ONT.—A proposition has been submitted by Mr. Hugh McClennan, of Montreal, James Richardson & Sons, of this city, and others, to erect a grain elevator here, at a cost of \$25,000.

PEMBROKE, ONT.—A deputation from this town have requested the Dominion government to grant a subsidy towards the building of the Pembroke Southern Railway between this town and Golden Lake.

HUNTSVILLE, ONT.—William Wright is excavating for a new dwelling at the corner of Lorne and Caroline streets.—Shaw, Cassels & Co. are making preparations to erect large buildings on the tannery grounds.

CHATHAM, N. B.—Tenders are asked by M. S. Benson, town clerk, until Friday, the 30th inst., for the erection of a brick town building here. Plans may be seen at the offices of the town clerk and G. E. Fairweather, architect, St. John.

VICTORIA, B. C.—E. E. Billinghurst gives notice that application will be made to the provincial parliament for the incorporation of a company to construct a railway from a point on the south boundary line of the province northward, with branches.

WALKERTON, ONT.—The electors have voted \$10,000 to build a new town hall and \$6,000 for sewer extension. The Town Council will select plans for the latter at once, when tenders for construction will be asked.—Fred. White will erect a residence on First street.

MONTREAL, QUE.—At the annual meeting of the C. P. R., estimates of proposed expenditures were submitted as follows: Permanent bridge ballasting, and other improvements, \$1,165,723; construction and other facilities, \$514,012.—J. C. Turgeon, architect, has invited tenders for two stores and a large hall to be erected on St. Catherine street for T. Prefontaine. The front elevation will be of stone and pressed brick.—Messrs. Lortie & Son architects, are calling for tenders for repairs to a house at Chabville square for R. Presseau. Same architects have in hand a residence at Hochelaga.

LONDON, ONT.—McBride & Jones, architects, have in hand the following work: Alterations and additions to warehouse, cost \$8,000; block of houses, cost \$14,000; church at Appin, cost \$4,000; and several private residences, cost about \$12,000.—It is said to be the intention of Michael Devaney to erect a large store on the corner of Richmond and Simcoe streets.—New York capitalists are considering the construction of an electric railway between this city and Port Stanley.—A. O. Graydon, city engineer, asks tenders until the 22nd inst. for annual sup-

plies, including stone walks, sewer pipe, concrete pipe, cement, lumber, hardware, iron castings, stone paving, etc.

STRATFORD, ONT.—A. W. Hepburn, architect, has in hand the rebuilding of the Methodist church recently burned; cost \$2,200.—Repairs to schools are contemplated, at an expenditure of \$5,000. A heating plant, to cost \$1,500, will be put in at the Shakespeare school, and thirteen rooms are to have new seats. D. G. Baxter, architect, will have charge of the work. Same architect has prepared plans for a town hall at Hespeler, for an opera house for A. Brandenberger, cost \$12,000, for remodelling Knox church, this city, cost \$10,000, house for Mrs. Wilson and the American Hotel.—H. J. Powell, architect, is erecting a double house on Albert street, to cost \$2,000.

QUEBEC, QUE.—The probable expenditure this year by the corporation is estimated at \$115,000, while the works projected so far by private citizens will reach in value \$135,000. In the civic expenditure are included the following: Two bridges at Victoria Park, \$27,000; demolishing St. John's gate, \$8,000; new steel pontoon, \$8,000, new street through city walls, \$7,000; levelling park, \$10,000.—According to details furnished by E. S. Shaw, of Boston, the quantity of steel required for the proposed bridge over the St. Lawrence will be 22,135 tons, at a cost of \$2,015,310, and the quantity of masonry 450,000 tons, costing \$1,081,300.

HAMILTON, ONT.—The Hamilton Golf Club propose to erect a new building on the club's grounds, from plans prepared by W. W. LaChance, architect.—J. F. Rastrick & Sons, architects, are receiving tenders for a pair of houses.—It is rumored that the Grand Trunk Railway Company will undertake at an early date the erection of a large central depot.—It is said to be the intention of the C. P. R. to erect freight sheds in this city.—Building permits have been granted as follows: Thomas Allen, two-story brick dwelling, corner Catherine and Cannon streets, cost \$1,200; A. W. Peene, two-story brick dwelling, corner Main street and Grant avenue, cost \$3,500; W. W. LaChance, architect, alterations to hotel for A. D. Stewart, cost \$6,000.

OTTAWA, ONT.—The foundation is now built for the C. Ross Company's building, estimated to cost \$50,000. A. M. Calderon, architect.—Excavations are now being made for the Butterworth building, cost \$15,000. Arnoldi & Ewart are the architects.—E. L. Horwood, architect, has prepared plans for the Sun Life Assurance Co.'s building; St. Luke's hospital, cost \$25,000; and a residence for Shirley Ogilvie, to cost \$10,000.—James Mather has prepared plans for a residence for Mr. Woods, to cost \$5,000.—Plans have been prepared by M. C. Edey, architect, for an extension to Archibald street school, to cost \$10,000.—A deputation of citizens has requested the government to place an amount in the estimates for the building of a bridge across the canal at the end of Concession street.—Plans have been adopted for remodelling Harmony Hall, to meet the requirements of the Masonic society. James Mathers, architect.—The Fire and Light Committee have recommended the purchase of a hook and ladder truck.—W. G. Bronson has had plans prepared for remodelling his residence near Christ's church. The plans provide for erecting an additional brick wall around the outside of the present building.—The City Engineer is preparing separate estimates of the cost of constructing an asphalt, granolithic and brick pavement on Sussex street.—The Dominion estimates were presented to the House last week. The following appropriations are made for canals: Soulanges, construction, \$1,250,000; Cornwall, enlargement, \$185,000; Cornwall, converting

basin into dry dock, \$15,000; Farran's Point, enlargement, \$375,000; Rapid Platte, enlargement, \$115,000; Galops, enlargement, \$1,635,000; North Channel, straightening and deepening, \$375,000; Galops Channel, straightening and deepening, \$50,000; River Reaches, \$50,000; Lake St. Francis, removal of boulders, etc., \$75,000; Trent, construction, \$650,000; Sault Ste. Marie, construction and equipment, \$75,000; Lachine, enlargement, \$216,000; Lachine, deepening river at St. Pierre, \$40,000; Lake St. Louis Channel, straightening and deepening, \$86,000; Grenville, enlargement, \$90,000. The amounts for public buildings and public works in Ontario are: Collingwood harbor, improvement, \$80,000; Rainy river, improvement of navigable channel, \$20,000; general repairs and improvements to harbor, river and bridge works, \$10,000; Kingston harbor, Lake Ontario, \$6,500; Owen Sound harbor, dredging, etc., \$35,000; Toronto harbor, works at eastern entrance, \$20,000; Burlington Channel, repairs to piers, \$8,000; Cobourg, repairs to piers, \$3,000; Goderich, reconstruction of breakwater and repairs to piers, \$53,000; Kincardine, repairs to piers, \$12,000; L'Original, reconstruction of wharf, \$16,500; Port Burwell, improvement of harbor, provided interested parties expend a sum of \$50,000, \$25,000; Thornbury, repairs to wharf, \$10,000; Port Stanley, repairs to piers and dredging, \$16,000; Dominion public buildings, Ontario, renewals, improvements, repairs, etc., \$10,000; Toronto, Dominion public buildings, improvements, renewals, repairs, etc., \$5,000; Arnprior post-office, custom house, etc., under contract, \$15,000; to dredge channel at upper entrance of Bobcaygeon, \$2,500; to build guard pier, entrance at Bobcaygeon, \$600; to remove rock in Channel above Burleigh lock and Stoney Lake, \$2,000; to dredge in Katchewan Lake, \$2,500; to complete dam at Chisholm's Rapids, \$2,000; to renew superstructure west of Port Dalhousie, \$20,000; to renew fender works of bridges in new canal, \$18,500. The votes for public buildings in the province of Quebec are: Renewals, etc., \$12,000; Grosse Isle quarantine station, \$3,000; Montreal buildings, repairs, \$5,000; Quebec post-office, \$3,500; Richmond post-office, \$2,700; Rimouski post-office, \$3,000; Quebec immigration buildings, \$5,000.

TORONTO, ONT.—Ground has been broken for a pair of houses on the north side of Walmer road, corner of Admiral road.—The supplementary estimates of the Ontario government include the following: Statue to Governor Simcoe, \$10,000; fire apparatus at Osgoode Hall, \$650; electric supplies and public improvements to Parliament buildings, \$850; Toronto Normal school museum, \$1,800; Mimico asylum, \$2,500; to refit old Victoria College building, Cobourg, \$5,000; telegraph line from the C. P. R. to Fort Frances, \$5,000, and to Ash Rapids, \$4,000; purchase of site for London Normal school, \$7,500.—William Harris, of Coxwell avenue, is negotiating with the Grand Trunk Railway for the purchase of property just east of the cattle market, on which he proposes to build an abattoir.—The recommendation of the chief of the fire brigade for the extension of a 12-inch water main on Lake street to a point 750 feet west of the Cobban factory has been sent to the Board of Control.—The secretary of the Law Society has written to the City Engineer asking for an estimate of the cost of laying a granolithic pavement in front of Osgoode Hall.—Building permits have been granted as follows: Drs. McKenzie and Galloway, pair semi-detached two-story and attic residences, 14 Bloor street east, cost \$10,000; John Taylor & Co., addition to soap factory, Front street east, cost \$6,000; Kormann Brewing Co., four-story brick brewery, 97

Duchess street, cost \$10,000; S. Barton, 18 Czar st., pr. s. d. brick dwellings, 485-7 Bathurst st., cost \$4,000; A. Nelson, 326 Manning ave., 2½-story brick dwelling, east side Spadina rd., near Bloor, cost \$7,000; F. H. Herbert, architect, 9 Toronto st., 1½-story brick and mansard dwelling, north side Elgin ave., near Bedford rd., cost \$3,000, Strickland & Symons, architects, 2-story and attic brick residence on Lowther ave., near Bedford road, cost \$5,500.—The City Engineer has recommended the construction of the following pavements: Asphalt on Carlton st., from Parliament to Metcalfe sts.; cedar block on Brock avenue, from Queen to Dundas sts.; Marion ave., from O'Hara to Lansdowne aves.; O'Hara ave., from Queen to a point 1,455 feet north; Queen st., from Gwynne ave. to Roncesvalles ave.; Gladstone ave., from Queen to Dundas sts.; gravel on Dunn ave., from Queen st. to the lake; Lansdowne ave., from Queen to Union sts.; Macdonald ave., from Queen st. to a point 2,826 feet north; Maple Grove ave., from Brock to O'Hara ave.; Melbourne ave., from Cowan ave. to Dufferin st.—The cost of the necessary breastworks along the waterfront from Bay to York sts. is estimated at \$6,000.—Tenders will be asked at once for a macadam roadway on Queen's Park crescent, for 200 toise of stone, and for the construction of the Dominion street sewer.—Tenders are asked by F. H. Herbert, architect, until Saturday, 17th inst., for alterations and additions to hotel, and for the erection of three attached residences at the north-east corner of King street and Strachan avenue. The same architect invites tenders until the 20th inst for all trades except carpenter work for a pair of semi-detached houses on Cathira square.—It is understood that the proprietors of the Conservatory of Music have purchased a site at the corner of Queen's avenue and College street, and will commence at once the erection of a new building, to be completed by the first of August.—J. Francis Brown, architect, Board of Trade building, will invite tenders next week for a residence on Palmerston avenue, for alterations to a house in Rosedale, and for the erection of a residence at Napanee.—Henry Simpson, architect, has prepared plans for a residence at Pary Sound for Mrs. Bryson, contracts for which will be let next week.—The plans of J. A. Ellis, architect, of this city, have been accepted for an hotel building at Jack Fish Bay, and tenders for construction will shortly be invited. Same architect is receiving tenders for a residence on King street west for Mr. Conboy.

FIRES.

A saw mill at Angus, Ont., owned by A. Warner, was destroyed by fire on the 7th inst., loss \$1,000.—The Globe flour mills at Cornwall, Ont., owned by the estate of the late John Munroe, were completely destroyed by fire last week. The mill was a three and a half story stone structure, and with the plant was valued at \$30,000, insurance \$8,000.—The dairy buildings of Abraham Stouffer, near Stouffville, Ont., were burned a few days ago. The loss is placed at \$3,000, only a small portion of which is covered by insurance.—The Portland Packing Company's lobster factory at Canso, N.S., was totally consumed by fire on the 6th inst.—At DeCewsville, Ont., on the 6th inst., fire destroyed the sash and door factory of William Jack. The loss is estimated at \$4,000.—The Hotel Thomas, on Papineau road, Montreal, was destroyed by fire last week. The building was a two-story brick structure, and was partially insured.—The Clifton House at Summerside, P. E. I., has been burned; loss \$2,250.

Edmond Dore and Armand Langlois, carpenters, Montreal, have formed a partnership.

CONTRACTS AWARDED.

DASHWOOD, ONT.—Hoffman Bros. have secured the contract for Moser's brick hotel.

OTTAWA, ONT.—The contract for sewer pipe required by the city has been let to McKinley & Northwood.

ST. CATHARINES, ONT.—Wilson & Newman have the contract for improvements to the electric light station.

AHMIC HARBOR, ONT.—John Arthurs has given a contract to S. Paul to erect a store and dwelling combined, 50x100 ft.

APPIN, ONT.—The tender of Malcolm Gillespie, of Alvington, has been accepted for the Methodist church here. Estimated cost \$4,000.

DESERONTO, ONT.—The Rathbun Company have been awarded the contract by the Dominion government for 25,000 barrels of cement.

GALT, ONT.—Daniel Allen has been awarded the contract for roofing additions to the Iroquois Hotel, two large stores and hotel stables, by Mr. George Bernherdt.

BRANTFORD, ONT.—The contract for building, painting, plumbing and heating the new Albion street school has been awarded to Schultz Bros., of this city. E. B. Jarvis, architect, Toronto.

GUELPH, ONT.—D. G. Baxter, architect, of Stratford, has let the contract for heating G. D. Forbes' house to Purdy, Mansell & Mashinter, of Toronto, at \$834. Daisy boiler and Safford radiators will be used.

CHATHAM, ONT.—The Sawyer & Massey Co., of Hamilton, have been given a contract by the city for road machinery. A test of machines was held here on the 8th inst.—The tender of Stanton & Co. for flag stone walks, and that of John Flook for stone crossings, has been accepted by the town.

STRATHALLAN, ONT.—James Anderson, clerk of East Zorra, writes that the Stratford Bridge & Iron Works Company

were the successful tenderers for the steel bridge in East Zorra. For the McIntosh dam the offer of Beaton Worrie, at \$1,482 for the whole contract, was accepted. The engineer's estimate for this work was \$1,510.

NIAGARA FALLS, ONT.—Four tenders were received for a steam road roller, and the contract has been given to the Pitts Steam Roller Company, of Buffalo.—The following table shows a comparison of the bids received for sewerage works:

SECTION	Clark & Connolly, Ont.	A. J. Brown, Toronto, Ont.	Newman Bros. St. Catharines, Ont.
1 { Lump Sum.. \$ 13,927	\$ 14,497	\$ 16,000	
Rock..... 1,792	1,600	1,600	
Total..... 15,719	16,097	17,600	
4 { Lump Sum.. 5,245	5,620	5,800	
Lump Pt. 1. 7,692	7,113	7,900	
Rock..... 2,320	1,600	1,600	
Lump Pt. 2 4,000	3,476	3,000	
Total..... 14,012	12,141	12,500	
6 { Lump Sum.. 6,414	4,682	8,800	
Rock..... 3,550	4,500	4,000	
Total..... 11,934	11,182	12,800	
7 { Lump Sum 5,430	4,108	5,500	
Bulk Tender { Lump Sum 42,728	47,538	45,500	
Rock..... 8,064		7,200	
Total..... 50,792	49,238	52,700	

Barry & Ross, of Niagara Falls, Ont., submitted a bulk tender at \$49,584.60, and Clement & Co., of Niagara Falls, N. Y., at \$51,280. Bell & Lorenzo tendered on section 4 at \$5,400. Sections 3 and 4 have been awarded to Clark & Connolly, and sections 5, 6 and 7 to A. J. Brown.

FORT ERIE, ONT.—The Fort Erie Jockey Club have let contracts as follows: Grand stand, James Stewart & Co., Buffalo and St. Louis, price about \$50,000; steel work, Hamilton Bridge Company; stable, fences, and smaller buildings, Coleman Lumber Company, Hamilton and Burlington, grading and construction

THE Authorities at Ottawa have been investigating the merits of the new Wall Plaster, known as

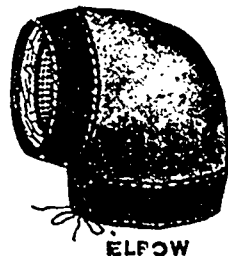
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which is nearly the pure product of Asbestos, and possesses all the remarkable qualities of that mineral, being Absolutely Fire-Proof, and as a Plaster, Cohesive and Elastic, besides allowing a Perfect Surface Finish. The result of such examination and investigation, from actual work done in Ottawa, and the opinions of eminent Architects, is to prove that it is all that it is claimed to be. A large order has been given for this material, which is to be used in the reconstruction of the Parliament Buildings, lately destroyed by fire.

The Authorities have shown great wisdom in their choice, as the cost over ordinary plaster is very trifling, and the advantages so manifest to every Architect who has given this remarkable production careful attention, that it cannot fail to commend itself as a positive assurance of safety against fire risk, entailing the minimum of cost for such an object.

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of track, Craig & Craig, Buffalo. The grand stand will be 311 feet long and 115 feet wide.

MONTRÉAL, QUE. Local architects have awarded contracts as follows. A. Raza—Two stores and four tenement houses on St. George street for A. Dionne. Masonry, Ouimet & Labelle, carpenter and joiner's work, Rochon & Fournier, brick, S. Rochon, jr. Clift & Pope—Modifications and alterations to a house on St. Catherine street for R. A. Dickson, jr. Contractors, Simpson & Peel. Gamelin & Huot—Four houses on Quiblier street, Westmount, for the Estate Masson: Masonry, Boucher & Huberdeau; carpenter and joiner's work, Desiré Houle; roofing, plumbing and heating, Pelletier & Brosseau; brick, Daniel & Delongchamps, plastering, E. Morache, painting and glazing, D. A. Gauthier; electric apparatus, Canada Electric Co.

TORONTO, ONT.—F. H. Herbert, architect, has awarded contracts as follows for a residence on Elgin avenue: Mason and brick work, Orr Bros.; carpentry, Langskill & Booth; plastering, C. B. Simpson, plumbing, Bennett & Wright; painting, H. W. Johnston; galvanized iron, A. B. Ormsby & Co., tiling, W. D. Hutson &

Son, heating, Pease Furnace Company. Same architect has accepted the following tenders for a detached residence on Spadina road: Mason and brick work, Dancy Bros.; plastering, C. B. Simpson; painting, H. W. Johnston; galvanized iron, A. B. Ormsby & Co.; roofing, W. D. Hutson & Son. Plumbing and heating not yet let. Henry Simpson, architect, has let contracts as below for a residence on

Greenwood avenue for J. Price. Brick and plastering, Dancy Bros.; painting, James Casey; roofing and galvanized iron work, Douglas Bros.; carpentry, Thomas D. Liddell. Heating and plumbing not yet awarded.

Lalonde & Girard, manufacturers of doors, sashes, etc., Montréal, have dissolved partnership.

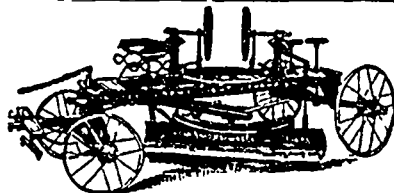
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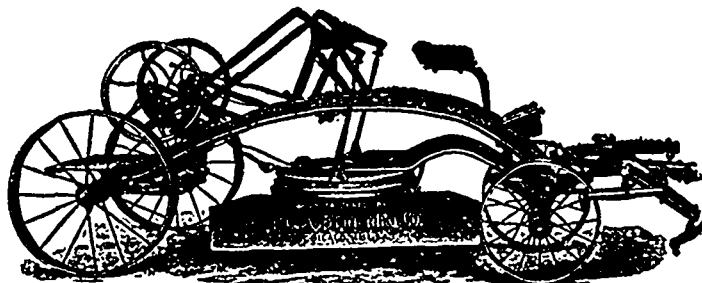


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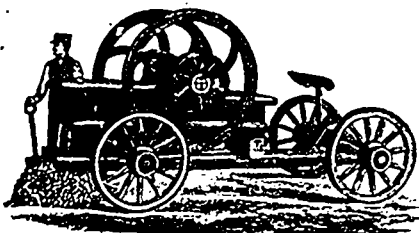
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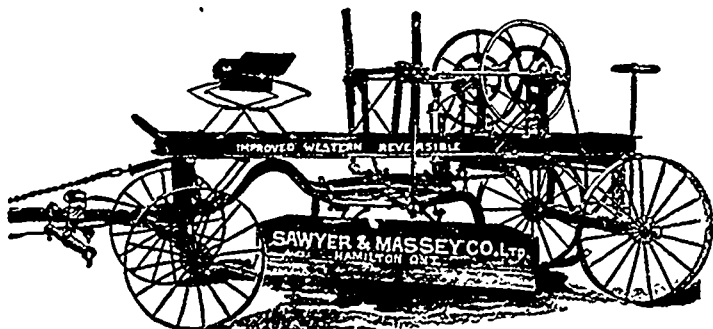
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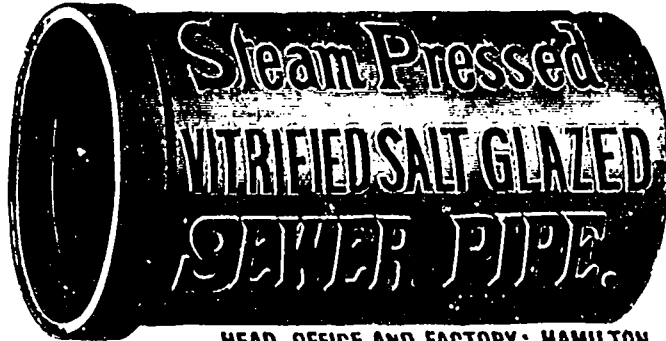
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MUNICIPAL DEPARTMENT

AN IMPROVED METHOD OF FILTRATION.

From advanced sheets of consular reports forwarded to the Bureau of Statistics, in the Department of State at Washington, by Frank H. Mason, Consul General at Frankfort, Germany, we have opportunity of presenting to our readers this week some important data in reference to the improved method of filtration now in operation in the city of Worms and at Kiel, Lansberg, near Berlin, and several other German towns and cities, says Architecture and Building. This is a matter of supreme interest not only to the municipal governments, but to all citizens alike, more or less concerned as they are with the problems of a pure water supply and of purifying river water for household and manufacturing purposes; the old method now in use, that of filtering through sand or gravel, mixed in some cases with charcoal, having been found practically inadequate.

The new system is the invention of Director Fischer. The germ, or fundamental idea, upon which the new system is based is the fact that clean, sharp sand, when mixed, in due proportion with finely pulverized glass which may be derived from the waste of glass works, old bottles, etc., forms a porous mass, which by baking under a high temperature, may be hardened in any desired form. The inventor in this case hit upon the plan of moulding this porous cement into hollow plates or plaques about 40 inches square and 8 inches thick, that is with walls 3 inches in thickness and about 2 inches of hollow space at the centre of the plaque.

In constructing the filtering plant, these plates are set upright in groups or batteries of any number, according to the desired size and capacity of the establishment, and are ranged along the lower portion of one or more tanks of hydraulic masonry, where they can be covered to a depth of 3 or 4 feet with the water to be filtered. The water is then forced by its own pressure through the porous walls of the plate into the interior hollow space, where it trickles down and is drawn off through pipes, laid at the bottom of the tank, to the reservoir which receives the filtered water. These discharge pipes are rigged with corks so that each plate and group of plates may be isolated for cleaning or other purposes while the adjacent batteries are in operation. For greater economy of space and tubing, two tiers of plates are set one above another. The water in passing through the 3 inch walls of vitrified sand, is filtered as perfectly as by traversing 3 feet of loose sand or gravel in the ordinary sand-filtering process. The plates being set upright and close to each other, increase from eight to tenfold the filtering surface that may be condensed within any given superficial area, thus

securing an important economy of space within frost-proof constructions, and where, as is often the case, land is costly and difficult to obtain.

Every practical water works engineer knows the delays, labor and expense involved by turning sand filters out of circuit and cleansing them of the mud and detritus which collect so rapidly at the bottom of the tank. With the plaque filter, the cleansing operation is easily and quickly performed by simply reversing the current of water, that is turning it backwards through the discharge pipes into the hollow plates, whence it percolates outward through the porous walls into the tank, dislodging readily the dirt that has collected on the outer surface. This falls to the bottom of the tank in which the plates are submerged and is drawn off in liquid form, assisted when the accumulation is large, by means of a hoe or shovel, and followed, when the tank has become emptied, by flushing with a jet of water from a hose, which cleans thoroughly the surface of the plates and washes out the bottom of the tank itself. The discharge cocks are then closed and reversed, water turned again into the tank, and the process of filtration resumed.

The depth or "head" of water necessary to make the filtration sufficiently rapid is from 3 to 4 feet, and the reverse head, for cleaning the plates by turning the water backwards through the discharge pipes, should be about 6 feet to give sufficient pressure for the best results. Thus constructed, the filtering plant at Worms, which may be taken as the original type and model of the system, has been in constant operation during the past four years, without accident or appreciable deterioration. From all testimony that can be obtained, the results at Worms, both as regards economy of construction, maintenance and speed and thoroughness of filtration effected, have been eminently satisfactory.

The tanks, as already stated, are made of masonry laid in hydraulic cement, and if galvanized tubing is used, to obviate rusting, the life of such a plant may be indefinitely prolonged. The demonstrated success of this filtering plant has led to the organized manufacture of the plates by the firm Bittle & Co., who have large works at Worms-on-Rhine, and furnish not only the prepared materials, but estimates and plans for filtering outfits for municipalities and manufacturing establishments, such as breweries and chemical and other works in which a large supply of limpid water in an essential requisite. Smaller installations are also furnished to works in which river water or spring, strongly charged with oxides of iron, is used for generating steam.

The city of Brussels began in 1889 the filtration of Rhine water for general purposes by the ordinary sand-filtering process, similar to that then used in Berlin. With a filtering surface of 1,300 square metres (approximately 13,000 square feet), 3,000 cubic metres (792,510 gallons) of water were filtered in twenty-four hours. This supply proved insufficient for the city, and it became necessary to construct an addition to the filtering plant, the cost of which, on the sand-filter plan, was estimated at \$30,000. It was then that the Fischer system was given a practical trial.

Instead of occupying new land and building additional constructions, one of the ten vaults containing the sand filters already in use was isolated, cleaned out, and the space filled with a battery of 500 plates of the Fischer pattern. The whole cost of the change thus made was about \$9,600, and the new filters, occupying one-ninth as much space as the sand filters, doubled the filtering capacity of the entire installation. In other words, 500 Fischer plates, costing, set up and ready for operation, \$9,600, and occupying only 130 square metres of space, filtered as much water as the sand filters, which occupy 1,170 square metres of space and cost \$30,000. To substitute the Fischer plates for sand throughout the entire establishment would be to increase the filtering surface from 1,300 to 10,000 square metres (approximately from 13,000 to 100,000 square feet) and multiply by ten the daily filtering capacity of the plant.

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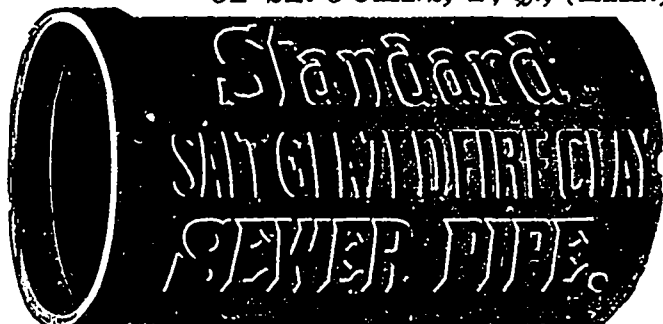
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In the "Canadian Architect and Builder."

Table listing various categories such as Architects, Contractors' Plant and Machinery, Interior Decoration, Reflectors, Roofers, etc., with corresponding page numbers.

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Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: The cut nail manufacturers have made a substantial change in the price of nails. The price of 50 penny and 60 penny nails is advanced 10 cents per keg in the province of Ontario, the figure now being \$2.25. Ten keg lots are delivered as heretofore where the rate does not exceed 25 cents per 100 lbs. This has probably been the feature of the past week. There is an improvement in glass and paints and oils, but orders are mostly for small lots. An increased demand is also reported for galvanized iron and iron pipe.

MONTREAL: The feeling during the past week has been more cheerful, and a little more business is reported. The basis in cut nails remains at \$2.15 f.o.b. Montreal. The materials showing greater strength are iron pipe, glass and cement. The iron, sheet and metal trade is also in better condition, and stocks are exceedingly low. Local consumption of cement is steady, but no large contracts are heard of except those of the Dominion government, which were divided among three local concerns.

LUMBER.

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Toronto. Montreal.

Table with columns for Toronto and Montreal prices for various lumber types including clear picks, Am ins., spruce culls, and various sizes of planks and strips.

YARD QUOTATIONS.

Table with columns for Toronto and Montreal prices for yard quotations including cull boards, shipping cull boards, hemlock scantling, and various sizes of planks.

B. M.

Table with columns for Toronto and Montreal prices for B. M. materials including flooring, dressed, F. M., and various types of shingles and sawn lumber.

Toronto. Montreal.

BRICK—M

Table listing prices for various types of bricks including Common Walling, Good Facing, Sewer, and Pressed Brick.

SAND.

Table listing prices for sand per load of 1 1/2 cubic yards.

STONE.

Table listing prices for various types of stone including Common Rubble, Large flat Rubble, Foundation blocks, Kent Freestone, and various sizes of ashlar and granite.

OHIO FREESTONE, FROM THE GRAFTON STONE CO.'S QUARRIES.

Table listing prices for Ohio freestone from the Grafton Stone Co.'s quarries, including various sizes of ashlar and granite.

LONGFORD STONE.

Table listing prices for Longford stone including Rubble, Ashlar, and Dimension.

SLATE.

Table listing prices for various types of slate including Roofing, red, purple, untinting green, black, and Terra Cotta Tile.

PAINTS. (In oil, M)

Table listing prices for various types of paints including White lead, Red lead, Venetian, Vermillion, Indian, Yellow ochre, Yellow chrome, Green chrome, Paris, Black lamp, Blue, ultramarine, Oil, linseed, raw, by bbl., Imp. gal., Oil, linseed, b'd, by bbl., Imp. gal., Oil, linseed, refined, Imp. gal., Putty, Whiting, dry, per 100 lbs., Paris white, Eng., dry, Litharge, Eng.

Toronto. Montreal.

Table listing prices for Sienna, burnt, Umber, Turpentine.

CEMENT, LIME, etc.

Table listing prices for Portland Cements (German, London, Newcastle, Belgian, North's, English, Belgian, Canadian, Roman, Parian, Superfine) and Hydraulic Cements (Thorold, Queenston, Napanee, Hull, Ontario).

Table listing prices for Keene's Coarse Whites, Fire Bricks, Lime, Plaster, and Hair Plasterers' per bag.

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Table listing prices for Cut nails, Steel, and various sizes of hot cut and cold cut nails.

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Table listing prices for Sing and box, flooring, shook and tobacco box nails, and finishing nails.

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Table listing prices for slating nails in various sizes.

COMMON BARREL NAILS.

Table listing prices for common barrel nails in various sizes.

CLINCH NAILS.

Table listing prices for clinch nails in various sizes.

SHARP AND FLAT PRESSED NAILS.

Table listing prices for sharp and flat pressed nails in various sizes.

STEEL WIRE NAILS.

Table listing prices for steel wire nails, 80% of printed list.

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Table listing prices for iron pipe in various sizes.

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Table listing prices for galvanized iron including Adam's-Mar's Best and Queen's Head, Gordon Crown, and Structural Iron (Steel Beams, angles, tees, plates, Sheared steel bridge plate).