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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF 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. 6.

JULY 18, 1895

No. 24.

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

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## Counties of York and Peel TENDERS FOR MASONRY

Tender endorsed "Tenders for Bridge at Craig's," will be received by the undersigned up to 12 o'clock noon of TUESDAY, AUGUST 6TH, 1895, for the construction of two stone abutments for a bridge over the Etobicoke River on the Base Line at Craig's, between the Counties of York and Peel.

Plans and specifications may be seen at the office of the undersigned, and at the County Clerk's office, Brampton, County of Peel, on and after July 22nd, 1895.

The lowest or any tender will not necessarily be accepted.

By order,

JAS. McDUGALL, C.E.,  
Court House, Adelaide St. East., Toronto.

County Engineer's office, July 16th, 1895.



## NOTICE TO CONTRACTORS

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, JULY 20, 1895, for the following works:

### CEDAR BLOCK PAVEMENT

on Oxford Street, from Spadina Avenue to Augusta Avenue.

Plans and specifications may be seen and forms of tender obtained at the office of the City Engineer on and after Saturday, July 14th, 1895.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000 and 2 1/2 per cent. for the value of the work tendered for over that amount, 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 do not bind themselves to accept the lowest or any tender.

DANIEL LAMB,  
Chairman Committee on Works.

Committee Room, Toronto, July 9, 1895.

## TO HOT WATER HEATING ENGINEERS

Tenders for fitting up Hot Water Heating Apparatus in the new Deaf and Dumb Institution, Halifax, will be received until noon SATURDAY, JULY 27TH, at this office, where plans and specifications may be seen. The lowest or any tender not necessarily accepted.

J. C. DUMARESQ, Architect,  
197 Barrington St.,  
Halifax, N. S.

## SEALED TENDERS

addressed to the Town Council, Niagara Falls, Ont., and marked "Tenders for Debentures," will be received by the undersigned up to AUGUST 3RD, 1895, for the purchase of

**\$5,000**

of 5 per cent. debentures, dated August 1st, 1895, and payable in from one to ten years, the principal and interest in each year amounting to \$647.57.

Lowest or any tender not necessarily accepted.

JOHN ROBINSON,  
Town Clerk.

Niagara Falls, Ont., July 5th, 1895.

## ORANGEVILLE WATER WORKS

### NOTICE TO CONTRACTORS

Sealed Tenders will be received by the Mayor of the Town of Orangeville until 6 o'clock p.m. on

WEDNESDAY, 31ST DAY OF JULY, A.D. 1895,

For the construction of a

### Complete System of Water Works

for said town. Plans, Specifications, Contracts, etc., may be seen and forms of tender and instructions to bidders may be obtained at the Mayor's office, Orangeville, or at the office of the Chief Engineer, 103 Bay Street, Toronto, on and after July 22nd, A.D., 1895.

W. T. BAILEY, Mayor.  
WILLIS CHIPMAN, Chief Engineer.

## TENDERS

Will be received by the undersigned at his office up to 5 o'clock p.m. on Saturday, 27th July, 1895.

1st. For the furnishing of materials and construction of a Heavy Stone Culvert over run of water on Queen Street East, between East Toronto Village and the Township of Scarborough.

2nd. For re-planking the Moore Park steel viaducts, situate 1/4 of a mile east of Yonge street, at Deer Park.

Plans, specifications, etc., can be seen at said office.

Lowest or any tender not necessarily accepted.

PETER S. GIBSON, C.E. & O.L.S.,  
York Tp. Engineer.

Office at WILLOWDALE, (2 miles north of electric railway terminus on Yonge St.), 16th July, 1895.

## CONTRACTS OPEN.

GALL, ONT. Trinity church will be enlarged.

RENFREW, ONT.—It is said that a new stone station, 40 x 80 ft., for the C. P. R., will be built here.

FRANKTOWN, ONT.—Tenders are invited by John Burns until the 22nd inst., for repairs to the school building.

BELLEVILLE, ONT.—The City Council has decided to expend the sum of \$4,000 in raising the grade of Front street.

ST. JOHN, N. B.—The Common Council has resolved to invite tenders for a new bridge at Newton's brook, to cost \$4,500.

REVELSTOKE, B. C.—A new railway bridge across the Columbia river at this place is likely to be constructed by the C. P. R.

RODNEY, ONT.—Debentures to the amount of \$1,500 are offered for sale by the township of Aldborough. Address H. F. Jelf, clerk.

TRURO, N. S.—The Town Clerk invites tenders until noon on Thursday, the 25th inst., for laying about 2,000 feet of asphalt sidewalk.

WINDSOR, ONT.—The announcement is made that a company with a capital stock of \$100,000, proposes to build a dry dock at this place.

PEMBROKE, ONT.—G. M. Bayly, architect, of Ottawa, is preparing plans for extensive alterations and additions to Thos. Hale's residence in this town.

ST. MARY'S, ONT.—The Town Council has resolved to invite tenders for lighting the town with 32 arc lights of 1000 candle power each, for a term of five years.

SPRINGHILL, N. S.—The Cumberland Railway and Coal Company invites tenders until the 27th inst., for various stores required during the twelve months commencing August 1st next.

AYLMER, ONT.—Tenders are invited by the corporation until the 5th of August, for lighting the streets of the town by electricity for a term of one, two or five years. Alex. Milne, Town Engineer.

BLENHEIM, ONT.—Tenders for the erection of a Presbyterian church here are invited until Monday, the 22nd inst. The work is to be completed by May 1st, 1896, and tenders to be addressed to D. McLachlan, Chairman of Committee.

BUCKINGHAM, QUE.—Tenders for additions and alterations to the public school here are invited until noon on Friday, the 19th inst., addressed to Geo. Bothwell, Chairman of Committee. Plans may be seen at the office of M. H. Palmer.

NORTH GOWER, ONT.—Jas. E. Craig, municipal clerk, invites tenders until noon on Saturday, the 20th inst., for the excavation of the stream known as Cranberry Creek, in the township of North Gower, a distance of about 480 claims, in accordance with plans prepared by Henry Osborne Wood, C. E., and which may be seen at the clerk's residence.

**BELLEVILLE, ONT.** Thos. Hanly, contractor for the Albert College annex, is asking for tenders for cutting the stone, including steps, required for the work. Plans at Mr. Hanley's office and at the office of G. M. Miller, architect, Toronto.—The Council will purchase a fire alarm system.

**NEW WESTMINSTER, B. C.**—It is stated that the Brunette saw mills will be rebuilt.—The Dominion supplementary estimates contain an item of \$5,000 for the drill shed in this city.—James Cunningham will erect a new block at the corner of Columbia and Alexander streets, 32 x 100 feet.

**VICTORIA, B. C.**—The Railway Committee of the Dominion Government has passed the charters of the Red Mountain railway and the Trail Creek and Columbia River railway. The two roads will run from Rossland, the one to Northport, Wash., and the other to the Columbia River at Trail Creek.

**KINGSTON, ONT.**—Power & Son, architects, are receiving tenders this week for alterations and improvements to shop and front and heating the Orange Hall building.—The Board of Education have requested the City Council to submit a by-law to the ratepayers at the coming municipal elections to provide the sum of \$20,000 for new school buildings.—It is said that the Thousand Island Club are negotiating for a site at Alexandria Bay for their proposed casino. It is proposed to erect a building costing about \$100,000.

**WOODSTOCK, ONT.**—Tenders are invited by Jas. Anderson, Clerk of East Zorra, until Tuesday, the 30th inst. for work and material required in the construction of the Maloney drain in the township of East Zorra.—Tenders are being received for the erection of new market buildings, from plans prepared by Davis, Van Buskirk and Ford, architects.—Proposals for the construction of the Henry drain (about 9,000 yards) situated on the 6th concession of West Zorra, are invited by G. S. McLeod, Commissioner, until Tuesday, the 23rd inst., according to plans prepared by Wm. Davis, C. E., of this town.

**NIAGARA FALLS, ONT.**—At the annual meetings of the Niagara Falls and Clifton Suspension Bridge Companies held on Tuesday of last week, the question of the new steel arch bridge was discussed. The plans call for a span of 830 feet, and the bridge will be built to the same grade as the present suspension bridge. It is not known just when work will be commenced, but Mr. C. H. Smythe, of Clinton, N. Y., the president of the company, states that the directors have authorized the calling of tenders for the masonry work.—Ellis & Clark, architects, have been instructed to prepare plans for a two roomed addition to the public school and to submit plans and estimates for a complete system of heating and ventilation.

**HAMILTON, ONT.**—F. W. Fearman is receiving tenders this week for repairing the Dominion Packing house. Plans at office of Lucien Hills, 60 King street west.—The announcement is confirmed of the purchase of the Toronto, Hamilton and Buffalo railway by the Vanderbilt interests by which the Canadian Pacific will operate the line from Buffalo to Toronto and the rest of the road will be controlled by the Vanderbilt interests. Definite plans regarding the Toronto branch have not been made, but it is understood steps will be taken at once to build the line from Hamilton to Toronto, the intention being to have the entire system in operation this year. There remains to be built a section from Hamilton to Toronto, 43 miles, and another from Hamilton to Welland, 40 miles.

**WINNIPEG, MAN.**—It is the intention of the Imperial Oil Company to erect

several new buildings and additions to present structures on their property across Louise bridge. A new barrel warehouse will be built, and a wing added to the cooper house.—The Hudson's Bay Company have decided to add two stories to their office building on the corner of York avenue and Fort street. Mr. George Browne is preparing the plans.—The Board of Education have accepted the plans of C. H. Wheeler, architect, for two new schools, one on Argyle street and one in Dufferin park, and tenders for construction will be invited at once. The latter school will cost \$25,000, and will contain twelve rooms.—It is stated that the survey of the Hudson Bay railway has been completed as far as Lake Dauphin, a distance of about twenty-five miles, and that the work of construction will be commenced immediately.

**OTTAWA, ONT.**—G. M. Bayly, architect, has prepared plans for alterations in J. R. Booth's lumber office, also for alterations and additions to house on James street for Wm. Mason.—An item of \$20,000 for a Dominion Reformatory has been passed by the Government, and a site comprising 100 acres has been secured for the building, which it is estimated will cost upwards of \$100,000. The plans have not yet been prepared.—The following building permits have recently been granted: S. McArthur, double tenement house, 2 Concession street; Aug. Doehmer, frame dwelling, 30 Creighton street; Jas. A. Corry, four shops and dwellings, solid brick, 35 Somerset street; R. W. Gibson, double brick veneered dwelling, 22 Osgoode street; Jas. Hope, double brick veneered dwelling, 61 Slater street; F. Gougeon, brick veneered house, 4 Chapel street; John Crawley, frame house, 9 Division street; Taylor Lackey, brick veneered house, 4 Osgoode street; Hy. Burgess, three brick veneered dwellings, 10 Frank street; Albert Broadhead, frame dwelling, 11 Raymond street; G. W. Randall, frame dwelling, 11 Jane street; A. Belanger, frame dwelling, 209 Division street; Andrew Kerr, frame dwelling, 7 Division street; A. Burton, frame dwelling, 33 McLeod street.

**MONTREAL, QUE.**—A meeting of property owners in St. Louis du Mile End will be held at an early date to discuss the erection of a new school, to cost \$10,000.—It is the intention of the Chambre de Commerce to proceed with the erection of a new building at an early date, a bill authorizing the issue of \$500,000 debenture stock having been passed by the Dominion Government.—Tenders are asked until the 22nd inst., by Ernest Marceau, superintending engineer, 709 Notre Dame street, for the supply of timber, lumber, cast and wrought iron, hardware, tools, oils, cement, coal, etc., required for one year by the Chambly, St. St. Ours, Lachine, Beauharnois, Ste. Anne, Carillon and Grenville Canals.—The School Commissioners of St. Henri have effected a loan of \$130,000 which will be used in erecting two new schools in Ste. Elizabeth parish. One will be erected at the corner of Poplar and Ste. Elizabeth streets, and will be of brick, three stories, fitted with modern improvements for which J. H. Macduff, of Ste. Henri will prepare the plans. Estimated cost \$40,000. The other building will be a college, the front to be of Canadian cut stone and the walls of brick, and containing twelve classrooms and the residence of the Brothers of St. Viateur, of Joliette. Mr. Theo. Daoust, architect, is preparing the plans. Estimated cost \$75,000.—The Road Committee intend laying permanent pavements and sidewalks on Notre Dame street, from Inspector street to Fulford street.

**TORONTO, ONT.**—The City Engineer has presented another report respecting the proposed tunnel scheme and other

improvements, and estimates the cost as follows: tunnel, including new six foot conduit, complete, \$540,000; 36-inch main to reservoir, \$135,500; 24-inch main in Front street, \$40,000; branch pipes off 24-inch main in Front street, \$22,400; Avenue road main, \$5,500; improvements to district east of Don, \$2,600; improvements to Parkdale supply, \$20,000.—In his fortnightly report presented to the Board of Works on Monday last, the City Engineer recommended the construction of the following pavements: macadam, River street, Queen to Gerrard, \$5,140; Sackville street, Queen to Gerrard, \$3,680; Wilton avenue, Parliament to River, \$2,740; John street, Front to King, \$950; Gerrard street, Parliament to River, \$2,670; Berkeley street, Esplanade to Wilton avenue, \$6,800; Adelaide street, Spadina to Bathurst, \$2,500; Gloucester street, Yonge to Church, \$1,066; Oak street, Parliament to River, \$2,610; Bloor street, Yonge to Avenue road, \$1,700; Portland street, Front to Queen, \$2,770; Christopher street, University to Chestnut, \$430; Sheppard street, Adelaide to Richmond, \$520; Anderson street, McCaul to Simcoe, \$400; Parliament street, King to Queen, \$1,025. Asphalt, Wellesley street, Jarvis to Sherbourne, \$9,200 and on Wellesley place. Cedar blocks, Brunswick avenue, College to Ulster, \$2,630; Baldwin, Beverley to Spadina, \$2,360. The laying of a brick sidewalk on south side of Queen street, between John street and Spadina avenue, is also recommended.—Mr. Phillip Jamieson has secured a lease for 21 years of the property at the north-west corner of Yonge and Queen streets, and will commence at once the erection of a large departmental store thereon, the plans for which are in course of preparation.—G. A. Stimson, 9 Toronto street, is asking tenders until the 30th inst. for the purchase of \$140,000 of bonds of the Toronto Suburban Street Railway Co.—The plans of a five-storey building proposed to be erected by the Cobban Mfg. Co. were submitted to the Property Committee on Tuesday. The architect is Mr. E. J. Lennox.—The question of placing an iron roof on the new Court House is under consideration by the Property Committee. The architect estimates the cost at \$25,000.—Building permits have been granted as follows: Corporation of Toronto, sheep buildings on Exhibition grounds, cost \$5,600; W. R. Johnston, 571 Jarvis st., alterations and additions, cost 5,500; J. Wilson Gray, architect, interior alterations to 8 Adelaide st. e., cost \$2,000; Separate School Board, 2 storey bk. school, Bolton ave., cost \$3,000; James Robertson Co., dry cedar building, Dorset st., cost \$1,000; Tegan's Boys Home, George st., additions and alterations, cost \$2,000.

#### FIRES.

John McAdams' lumber mill at Mackawick, N. B., was burned on Saturday last. Loss, \$5,000; insurance, \$2,300.—The Brighton Beach hotel and W. O. Whiting's residence at Torrance, Ont., were destroyed by fire a few days ago.—The Globe hotel on Market Square, Winnipeg, was gutted by fire on the 14th inst. Loss, \$2,000.—The piano warehouses of Brush, Bonbright & Co., on Sparks street, Ottawa, have been damaged by fire to the extent of \$6,000, the loss on building being \$1,000.—At Aylmer, Ont., on the 12th inst., fire destroyed the dwellings of A. J. Parker, J. L. Lambert, Mr. McMath, and Richard Snook, and two frame buildings owned by A. J. McKenzie. The loss is placed at \$11,000.—Robert Simpson's saw and shingle mill at Hamilton, Ont., has been damaged by fire to the extent of \$1,000.—The planing mill of Thomas McClay, at Woodstock, Ont., was burned on the 11th inst. Loss, \$1,000; insurance, \$3,000.—Knapp's hotel at Blue Bonnets, Que., near Montreal, was entire-

ly destroyed by fire on Monday last, loss about \$10,000.

**CONTRACTS AWARDED.**

**SARNIA, ONT.**—Alex. Joss has received the plumbing and heating contract for the new hospital here.

**KINCARDINE, ONT.**—\$2,500 of electric light debentures have been purchased by G. A. Stimson, of Toronto, at \$2,602.

**ST. STEPHEN, N. B.**—The contract for building the St. Stephen and Milltown railway has been awarded to Lorán Thomson and Osburn Budd.

**OTTAWA, ONT.**—G. M. Bayly, architect, has awarded contracts for the erection of three houses on Frank street for Wm. Hay. Estimated cost, \$6,000.

**EDMONTON, N. W. T.**—The contract for the new public school has been awarded to K. A. McLeod, his tender being \$6,275. It will be of brick, two stories and basement, with tower 9 x 18 feet.

**WINNIPEG, MAN.**—The contract for the erection of the large sorting elevator for the Northern Elevator Co. has been let to Meldrum & McDougall, the foundation and masonry work going to Kelly Bros., and the machinery and boilers, to the Waterous Engine Co.

**HAMILTON, ONT.**—The promoters of the Toronto, Hamilton and Buffalo railway have awarded a contract to Fellows & Lewis, of London, for the construction of a culvert at Binkley Hollow, to be 210 feet long, and requiring the excavation of 3,000 cubic feet of material.—The contract for building the Welland branch of the Toronto, Hamilton and Buffalo railway has been awarded to M. P. Chapman Company, of Watkins, N. Y. The first fifteen miles have been sublet to Maxey, Larson and Company.

**LONDON, ONT.**—The contract for masonry for the London and Port Stanley railway bridges has been let to James A. McMahon, of St. Catharines, at \$5,558.70.—The City Council received the following tenders for the construction of an asphalt pavement on Dundas street, between Ridout and Wellington streets, and on Richmond street, between the G. T. R. tracks and Fullerton street: Toronto Con.

(Continued on page 4)

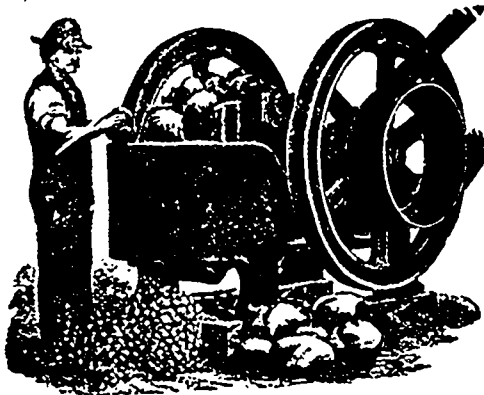
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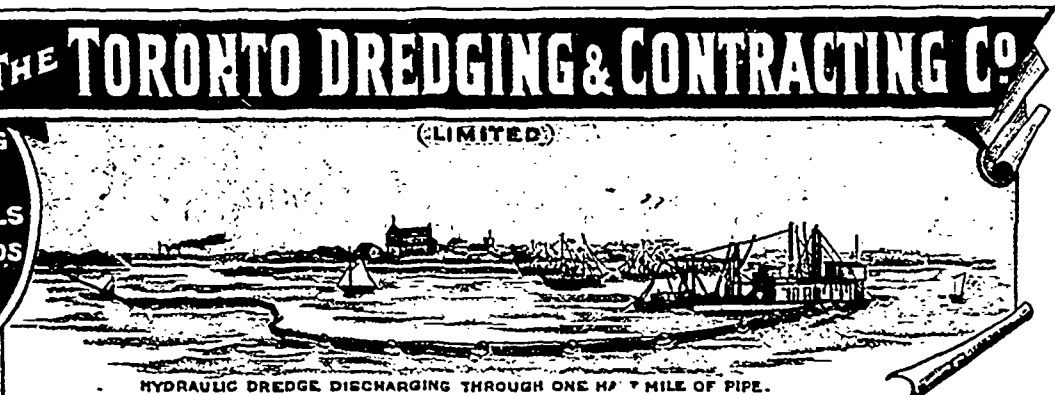


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## MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

& Paving Co., trinidad, per sq. yard, \$2.26; Kramer-Irwin Rock Asphalt Co., Hamilton, trinidad, \$2.83; Ontario Paving & Con. Co., Detroit, bermuda, \$2.30; John F. Connolly, Toronto, trinidad, \$2.88; N. and M. Connolly, Kingston, \$3.23; Barber Asphalt Co., Buffalo, trinidad, \$2.65; Furin-Bambrick Co., St. Louis, trinidad, \$2.49. The tender of the Barber Asphalt Co., of Buffalo, has been accepted by the Council.

TORONTO, ONT.—The Separate School Board has awarded contracts for the erection of two new schools as follows: For the Winchester street school, John McGlue, mason and brick work, \$2,059; John Hanrahan, carpenter work, \$2,850; Duckworth Bros., plastering and blackboards, \$393; E. Bird & Co., plumbing, \$82; Stewart & Killackey, slating roof, \$550; Jas. J. O'Hearn, painting, \$219; Tucker & Dillon, galvanized iron work, \$133; Smead-Dowd Co., heating, \$585. Bolton avenue school, M. Murphy, brick work, \$1,349; Wm. Clark, carpenter work, \$1,296; Wm. J. Hynes, plastering, \$187; Bird & Co., plumbing, \$293; Tucker & Dillon, galvanized iron work, \$35; James J. O'Hearn, painting, \$73.—A sub-committee of the Board of Works awarded the following contracts on Saturday last: D. L. Van Vlack, cedar block pavements on D'Arcy street, McCaul street to Spadina avenue, \$2,645; Northcote avenue, Queen street to Aston avenue, \$2,313; Sullivan street, Spadina avenue to Beverley street, \$1,483; Construction and Paving Company, asphalt pavement on Avenue road, between Bloor street and Davenport road, \$14,164. Concrete sidewalk on Yonge street, east side, Maitland to Bloor street, \$2.05 per lineal foot; A. J. Brown, concrete sidewalk on Sherbourne street, east side, from Wellesley to Howard street, \$1.08 per lineal foot.—The Property Committee of the Public School Board have recommended the acceptance of the following tenders: Enlargement of Borden street school—masonry, Robert Clayton, \$6,460; carpenter work, J. Hoops, \$4,996; plumbing, Purdy, Mansell & Mashinter, \$384; plastering, H. R. Beaver, \$498; painting, Barrett & Co., \$360; metal ceilings, George Ringham, \$997; roofing, J. Reggin, \$866; tinsmithing, W. McSpafford, \$90; heating and ventilating, Toronto Furnace Co., \$1,962. enlargement of Palmerston ave. school—masonry, Harman & Teagle, \$2,820; carpenter work, Enos Hollett & Co., \$3,470; plumbing, James Sherlock, \$93; plastering, E. Warren, \$318; painting, J. Phinmore, \$298.50; metal ceilings, Wheeler & Bain, \$618; roofing, Wm. Forbes, \$776; tinsmithing, Wheeler & Bain, \$210; heating and ventilating, Smead-Dowd Co., \$965. For a four-roomed school in Rose-dale—masonry, Richard Chalkley, \$4,670; carpenter work, Enos Hollett & Co., \$3,499; plumbing, James Sherlock, \$197; plastering, Thos. Gander & Son, \$337; painting, Jas. Phinmore, \$198; metal ceilings, A. B. Ormsby & Co., \$720; roofing, Stewart & Killackey, \$976; tinsmithing, Tucker & Dillon, \$525; heating and ventilating, Toronto Furnace & Crematory Co., \$837.

## BUSINESS NOTES.

Kelly Bros., contractors of Montreal, have dissolved.

The Manitoba Paving Co., Winnipeg, have dissolved.

A. M. Featherston, paints, etc., Montreal, Que., is reported to have assigned.

J. B. Harrison and Arthur Walkley, contractors, Victoria, B. C., have dissolved partnership.

The Hamilton Bridge Works have been granted incorporation by the Dominion Government.

George Scott, planing mill and builder, Mount Forest, Ont., is reported to have assigned to Wm. G. Scott.

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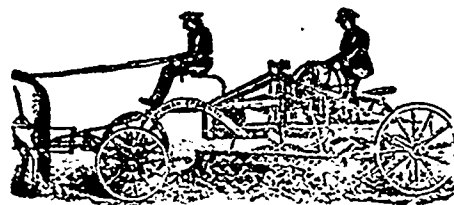
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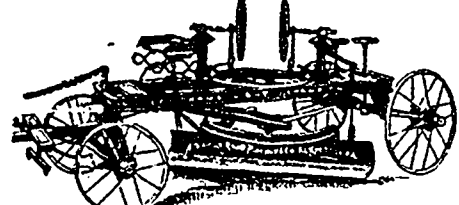
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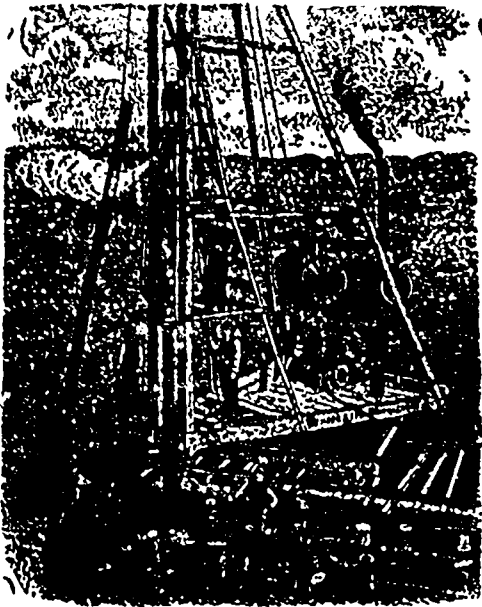
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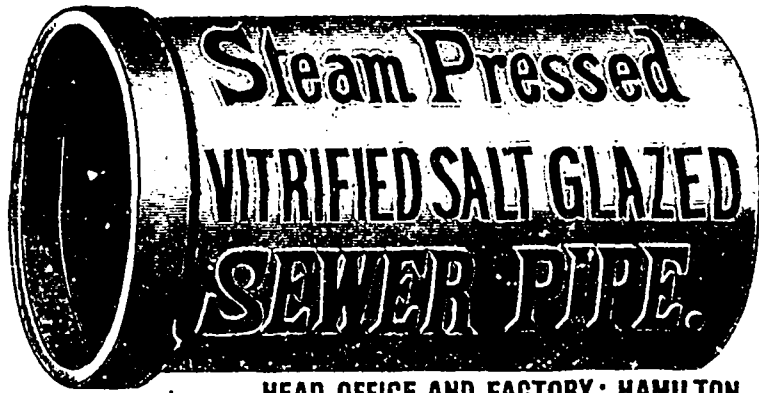
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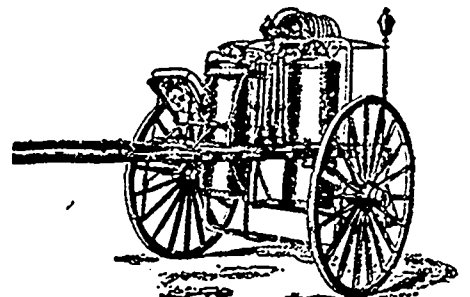
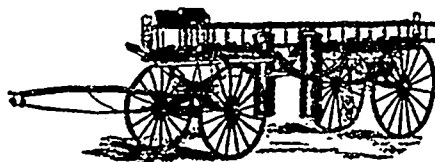
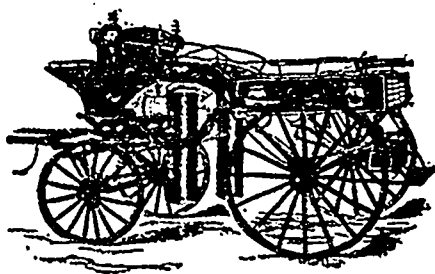
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# MUNICIPAL DEPARTMENT

SANITATION: AN IDEAL AND A  
REVIEW.\*  
(Concluded.)

The next topic touched on was an ideal for the systematic management of the sick of all classes, but especially the contagious sick in our communities. There was no comparison in the system of managing the sick in private houses and in properly constructed hospitals; the latter was so much more perfect. In the well-built hospital everything was at hand at a moment's notice—proper beds, correct ventilation, uniform temperature, skilled and able nursing, correct supplies of food, good water, and constant medical supervision. Moreover, for contagious cases, the hospitals could be constructed and conducted in a manner free from spread of contagion. A grand reform in sanitation, therefore, would come when all the evils arising from the present mixed system of sick houses and sick hospitals were abolished, when maudlin sentiment in regard to the management of the sick had no argument; and when recovery from sickness on the part of everyone became the true business of life, conducted in such a way that no sick person should be a peril to friends, neighbors, or to those that might succeed them in the houses where they lived. The idea set forth was that all communities, according to numbers statistically required, hotel-hospitals, comfortably and even elegantly furnished, should be erected with everything that was necessary for the sick in any kind of disease. The hotel hospitals should be conveniently planted for the services of everyone, so that if a person was ill from acute disease he should be able to find a room in one of them where he could be looked after either by his own medical attendant and friends or by the medical officers of the place, and where he could secure every necessity for the management of his illness. No private house would then become the center of infection, or be darkened by the gloom that always attended the part of a house in which death has been a visitor. All that might be done with less expense than was now devoted to the inferior management of sickness in the private dwelling. For purely contagious cases a special system should be adopted. Instead of taking such cases in the upper rooms of private houses, there should be light, elegant, small hospitals placed at proper distances on the tops of special houses, with lifts for taking the sick into them; with every facility for free ventilation through them, and with the further provision that from the roofs of these infectious hospitals themselves gas-fire shafts should be built,

so that all the air that circulated into them from the outside windows and ventilators should be drawn up into the shafts, moving through the purifying air on its way. In that manner the fire itself would draw off as well as consume all those particles of disease which disseminated through the private house, become so frequently the cause of disease. He had himself constructed a model of a hospital of that nature, and had hopes of seeing it in practical operation before long.

As to ventilation, towns themselves should be ventilated, and to secure good ventilation it was necessary to make a proper course for the winds through the streets; and, secondly to secure as far as possible that ventilation which sprang from vegetation. These facts were of vital importance in the construction of new towns; but they could be introduced even into more ancient places by the bringing of air from heights, compressing it when necessary, and letting it pass in the ordinary form, or ozonized, through close streets and alleys.

Sir Benjamin proposed the making of footways and planting flowers and small trees on the roofs of houses, making gardens there, with roadways along which foot-passengers could pass, from which the letter service could take place, the water-engines work in case of fire, and all smoke be readily consumed by means of gas furnaces placed at convenient distances.

Turning to the question of the best mode of the disposal of the dead, he recanted some of his earlier views on this matter, and explained that while he still retained a liking for Sir Seymour Haden's earth-to-earth burial, he was, on the whole, favorable to cremation, and thought, at all events, it ought to be supported. It was but fair to those who saw its advantages that every cemetery, if not every churchyard, should be supplied with a crematorium. If that were the case the yard in the vicinity of the church or chapel might be the spot where the last remains were removed from the earth without any detriment to those who lived. Not a single change need remain in what existed except in the erection of the most perfect crematory furnaces, where the body would pass into the fire.

On the topic of ideal foods and drinks the speaker dwelt at some length, urging the immediate reform of all places where animals were killed for food, the better inspection of such animals, and the better preparation of food derived from them. He suggested that a great reform in food ought to come from the transmuting of vegetable substances used as food into edible substances, having all the qualities of animal food, both as regards nutriment, flavor, and every other quality. As to drinks, we had in our possession from nature the only one drink required, viz water. That, purified, admitted of no improvement. The last great sanitary ideal dwelt upon had relation to education, both body and mind. He insisted upon such education starting from the earliest life. It should become a part of the national learning and the first part. Children

should be by nature sanitarians, and sanitary principles should enter into their learning as an ordinary process. The Jews, to some extent, admitted it. With them sanitation, quite away from the science of it, has become a part of their national nature, and by that they had lived under the most disadvantageous circumstances, showing the highest vitality of any other nation on the earth.

In conclusion he urged that education is the first principle demanded in the fulfillment of all detail. He did not mean education in the mere matter of reading, writing, and arithmetic; he did not mean education in the extreme accomplishments of what was called civilization, but he meant education in the laws of life and organization, and in those secondary forces which we called social and economical. These primary or secondary lessons would ultimately lead men and animals to their true places on the earth; to their true relations with each other; to the living but inanimate vegetable world, on which they depend for their subsistence; and to perfected health and happiness. Then selfishness, the darkest side of ignorance, would cease, and it would be learned that individual prosperity of the highest order was only possible in and with the prosperity of all mankind.

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\*An address delivered by Sir Benjamin W. Richardson before the closing meeting of the Sanitary Conference at Manchester, England, and printed in the Building News

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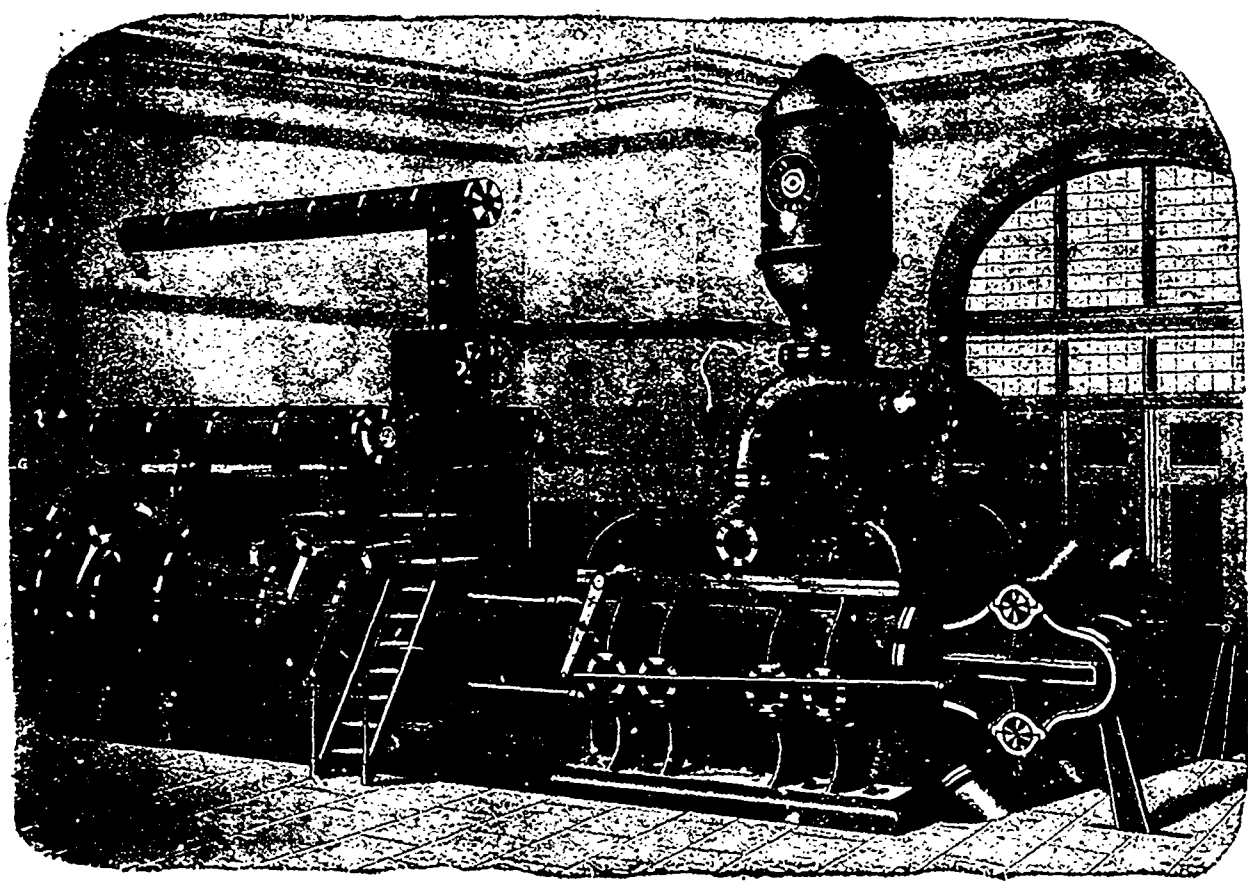
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Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: Trade remains much the same as last week, the only advance in price being for pig iron, which has advanced from 50 cents to \$1 a ton. Iron pipe is still scarce, and prices are in a more settled condition. The demand for plumber's supplies and galvanized iron is brisk, while iron pipe and soil pipe are quiet. The glass market shows a slight improvement.

MONTREAL. Building operations have not improved as much as was anticipated, and the market is without much activity. A fair business is reported in general hardware and paints and oils. The receipts of cement last week were 500 English and Belgian nil, against 4,875 English and 4,577 Belgian the previous week.

LUMBER.

CAR OR CARGO LOTS.

Table with columns for Toronto and Montreal prices for various lumber types like clear picks, pickings, and different sizes of culls and siding.

RAID QUOTATIONS.

Table listing prices for mill cull boards, shipping cull boards, hemlock scantling and joist, and cutting up planks.

B. M.

Table listing prices for various types of flooring, beaded sheeting, clapboarding, and sawn shingles.

BRICK—Per M

Table listing prices for common walling, good facing, sewer, pressed brick, and various colors of brick.

Toronto. Montreal.

Table listing prices for roof tiles, hip tiles, ridge tiles, and various types of building bricks.

SAND.

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

STONE.

Table listing prices for common rubble, large flat rubble, foundation blocks, and various types of granite and marble.

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

Table listing prices for various types of Ohio freestone, including buff promiscuous, blue dimension, and sawed ashlar.

SLATE.

Table listing prices for roofing slate, terra cotta tile, and ornamental black slate.

PAINTS. (In oil, per lb.)

Table listing prices for various types of paint, including white lead, red lead, yellow ochre, and black lamp.

CEMENT, LIME, etc.

Table listing prices for various types of cement, including German, London, and Newcastle.

Toronto. Montreal.

Table listing prices for various types of Portland cements, including Belgian, Canadian, Roman, and Superfine.

Table listing prices for various types of Hydraulic cements, including Thorold, Queenston, Napanee, Hull, and Ontario.

Table listing prices for Keene's Coarse Whites and Fire Bricks.

Table listing prices for various types of lime, plaster, and plasterers' hair.

HARDWARE.

Table listing prices for cut nails and steel nails.

CUT NAILS, FENCE AND CUT SPIKES.

Table listing prices for various sizes of cut nails and spikes, including hot cut and cold cut.

FINE BLUE NAILS.

Table listing prices for fine blue nails in various sizes.

CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.

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

FINISHING NAILS.

Table listing prices for various sizes of finishing nails.

SLATING NAILS.

Table listing prices for various sizes of slating nails.

COMMON BARREL NAILS.

Table listing prices for various sizes of common barrel nails.

CLINCH NAILS.

Table listing prices for various sizes of clinch nails.

SHARP AND FLAT PRESSED NAILS.

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

STEEL WIRE NAILS.

Steel Wire Nails, 75, 10 and 5 % discount from printed list.

Iron Pipe:

Table listing prices for various sizes of iron pipe.

Lead Pipe:

Table listing prices for lead pipe and waste pipe.

Galvanized Iron:

Table listing prices for various types of galvanized iron, including Adam's-Mar's Best and Queen's Head.

Structural Iron:

Table listing prices for various types of structural iron, including steel beams and sheared steel bridge plate.