### Technical and Bibliographic Notes / Notes techniques et bibliographiques

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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.

#### OCTOBER 17, 1895

No. 37.

#### THE CANADIAN CONTRACT RECORD,

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

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Tenders will be received by registered post only, addressed to the City Engineer, Toronto, up to 12 0 c ock a m. on SATURDAY, OCTOBER 26th, 1893, for the following work:

#### AN ASPHALT PAVEMENT

On Leader Lane, from Wellington Street to Colborne Street.

Specifications may be seen and forms of tender obtained on aid after Saturday, October, 19th, 1895, 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 5 per cent. on the value of the work tendered for, must accompany each and every tender, otherwise it will not be entertaired.

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

DANIFL LAMB, Chairman of Committee on Works.

Committee Room, Toronto, Oct. 15th, 1895.

CONTRACTS OPEN.

BRISTOL, N. B.—Guy Dyer is building a new saw mill here.

CHESLEY, ONT,-The Council propose to erect an eight roomed school

OTTAWA EAST, ONT.—The contract for a system of waterworks has not yet been let.

CARLETON, N. B .- W. C. Purves is said to have decided to rebuild his saw mill here.

ROSSLAND, B. C.-J. E. Saucier is endeavoring to float an electric light and power project.

PICTON, ONT.—It is said that a large number of new residences will be built here next year.

BEAUPRE, QUE.—A new organ, to cost \$8,000 is to be placed in the sanctuary of La Bonne St. Anne.

HANOVER, ONT .- D. Knechtei, of this place, proposes to put in an electric light plant at Maple Hill.

ARMSTRONG, B. C.—A by-law has been passed granting a bonus of \$20,000 for the erection of a grist mill here.

PERTH, ONT.—The proposed water-works scheme has been abandoned, the company forfeiting their deposit.

THOROLD, ONT.—The construction of a waterworks system is being agitated. The cost is estimated at \$40,000.

SIMCOE, ONT.—A vote of ratepayers is to be taken in January on the question of establishing an Industrial Home.

SMITH'S FALLS, ONT .- The citizens are agitating for a waterworks system, the supply to be drawn from Rideau Lake.

BRANTFORD, ONT .- Mr. Julius Waterous of the Waterous Engine Works Company proposes to establish a wire nail manufactory.

STAPLES, ONT .- Preparations are being made for the erection of a new R. C. church. It will be of brick, and will cost about \$2,000.

CHATHAM, N. B.—The government engineer was in Loggieville last week, in connection with a proposed public wharf at that place.

ACTON, ONT.-T. T. Moore, Clerk, invites tenders until the 4th of November for the purchase of \$4,500 5 per cent. 20 year debentures.

ST. HYACINTHE, QUE. - Messrs. Harris & Youngheart, cigar manufacturers, of Montreal, have applied to the council for a bonus to erect a factory here.

BELLEVILLE, ONT. - A by-law will be submitted to the ratepayers in January next to authorize the expenditure of \$5,000 for a new school in Bleecker ward.

SEBRINGVILLE, ONT.—Tenders are invited by John Pearson, Township Clerk, until Monday, the 28th inst., for improving, altering and extending the North Black Creek drains. Plans may be seen Plans may be seen at the clerk's office.

ORANGEVILLE, ONT.—Mr. Ritchie, architect, of Mount Forest, is preparing plans for a residence to be built for the editor of the Orangeville Sun in this

BATH, N. B.—Tenders are asked for building a bridge over the Gisiguit stream, in the parish of Wicklow. Plans and specifications at Supervisor Robert Robert Squires.

RENFREW, ONT.—A joint committee appointed for the purpose has recommended to the Council the purchase of two acres of land and the building of a hospital thereon.

COBOURG, ONT .- P. Kandall, the promoter of the proposed electric railway between Cobourg and Port Hope, states that \$40,000 stock has already been subscribed.

ACTON, ONT. - The by-law to purchase a steam fire engine and apparatus and to provide for the construction of water tanks, was carried last week. Debentures to cover the amount will be issued.

ST. THOMAS, ONT.—The Committee appointed by the City Council to report on the construction of an electric railway have recommended the construction of a subway at Ross street and a bridge at Hinks street.

VANCOUVER, B. C.—A company has been incorporated here for the purpose of building a marine railway. The railway building a marine railway. will be erected on Dead Man's Island and be built for the purpose of handling the largest boats.

NEW WESTMINSTER. B. Brunette Saw Mill Co.'s mill at Sapperton, recently burned down, is to be rebuilt on the old site. The plans are completed, and show a one-story structure somewhat smaller than the burned mill.

LONDON, ONT.-Charles Taylor has taken out a permit for two brick cottages on Horton street, to cost \$1,200 each.—J. M. Moore, architect, of this city, has been engaged to prepare plans for the reconstruction of the High school building at Leamington.

ALEXANDRIA, ONT. — Government officials visited this village recently for the purpose of ascertaining the amount of building material to be secured in this vicinity for the proposed Dominion Re formatory. Samples of stone from several quarries were taken away to be tested.

ONT. - The Ontario KINCARDINE, People's Salt & Soda Co.'y have erected a building 140×64 feet, in which they will install an electric light plant for the manufacture of bicarbonate of soda and chloride of lime. They are going to place in this building 32 wooden tanks, 50" x 10"×18".

ST JOHN, N. B.—Work has been started on the foundation of a building, 60 ×40 feet, to be erected on Pond street, opposite the railway warehouse, for J. W. Smith.—A number of New York capitalists are negotiating for the purchase of property at Mink Cove, near Digby Neck, where they intend to erect a summer hotel at a cost of \$50,000.—H. H. Mott, architect, is asking for tenders until Monday next, the 21st inst. for erecting a store and dwelling house for J. A. Likely.

COLLINGWOOD, ONT.—Chas. Mickler, builder and contractor, is erecting for himself, a large dwelling on the corner of Sixth and Hurontario streets. The building will be brick clad, fitted up with all modern improvements, installed for electric lights, heated with hot water, and will cost about \$5,000. The house is to be completed about May 1896.

HALIFAX, N. S.—It has been decided to build an immigration quarters here. The edifice will be of wood and situated upon the filled portion of the I. C. R. terminus at deep water. An extension will be placed upon creosoted spiles. Specifications are to be prepared at once and contracts called for. The building will accommodate fifteen hundred immigrants.

YARMOUTH, N. S.—The Coast Railway Company is actively pushing the construction of their line, which is to extend from Yarmouth to Shelburne and Lockport, and 13½ miles will be completed about the middle of December. The election of stations along the line is shortly to be commenced, those at Arcadia, Tusket and Belleville being among the first to be built. The land is now being expropriated for the one in this town, which will probably be the largest one.

CHATHAM, ONT.—C. R. Oldershaw, architect, has prepared plans for a residence for W. J. Oldershaw, to be built of brick, with shingle roof, wood mantels, plate glass, electric bells, gas fixtures, furnace, bathroom outfit, plumbing, wash stands, water closet fixtures, etc. The same architect has also prepared plans for a club house and boat house to be erected at Erie, Ont., for the Chatham boat club, to be 30×50 feet in size, two and one half stories, built of frame, with metal and shingle roof, iron roof crestings, plate glass, electric bells, grates and bathroom outfit.

WINNIPEG, MAN.—The Department of Public Works for Manitoba is about to undertake the drainage of St. Andrews' marsh, within the boundaries of townships 13, 14, 15 and 16, Ranges 2 and 3 east. The work is a large undertaking requiring the excavation of 850,000 cubic yards, principally Gumbo clay, and redeeming 100,000 acres of land. Tenders for the whole work will be received by Mr. Robert Watson, Minister of Public Works, up to noon on Tuesday the 22nd inst. and must be completed not later than November 15th, 1896. A plan may be seen at the above department.—Work has been started on the foundation of the Parsons Produce Co.'s new cold storage warehouse, near the foot of Lombard street. The superstructure will not be erected until next spring.

OTTAWA, ONT. — J. H. Balderson, Secretary Department of Railways and Canals, invites tenders until noon on Tuesday, 17th December next, for the supply of the following rails: 1000 tons of 50 lb. steel rails, to be delivered c. i. f. on the Prince Edward Island railway wharf at Summerside, Prince Edward Island; 3000 tons of 67 lb. steel rails, to be delivered on the Intercolonial railway (Princess pier) wharf, at Levis, opposite Quebec. All the above to be delivered in month of July, 1896. Further particulars may be obtained on application to the above department.—The City Engineer is asking for tenders for sewer excavation.—Plans are being prepared by the Department of Railways and Canals for the new lift locks to be constructed at the Trent Valley canal.—The congregation of St. Barnabas church will probably erect a new church, the site spoken of being the corner of Kent and James streets.—The directors

of the Protestant Hospital held a meeting on Saturday last to consider the erection of an addition to the building, at which Mr. K Arnoldi was appointed to report upon the cost of the improvements as fore-shadowed by the building committees report. In all probability the directors will ask for competitive plans for the new wing.

QUEBEC, QUE.——A company has been formed of residents in Leeds, Inverness, Broughton and St Sylvester, to build a railway passing through the counties of Beauce, Megantic and Lotbiniere. The line will start from a point on the Quebec Central in the Township of Broughton, passing through the township of Leeds and the Harvey Hill copper mines, along Palmer's River and through the township of Nelson, to Lyste.—Mr. H. Staveley, architect, has received instructions to prepare a new plan on a more enlarged scale for the station of the Quebec, Montmorency and Charlevoix railway.—There is talk of the erection of a large summer hotel on the site of the old Parliament house, instead of the proposed extension to the Chateau Frontenac, adjoining the present building.

HAMILTON, ONT.—W. P. Witton, architect, is receiving tenders this week for alterations to the Royal hotel.—It is probable the city will advertise for tenders for the purchase of \$50,000 debentures for the new Collegiate Institute.—Mr. Kinchling, C. E., of Rochester, has completed his report on the disposal of sewerage by the city, and recommends the interseption of the sewage by bringing the contents of all the sewers to a point near the bay shore between Wentworth and Wellington streets, and running it into a tank. The cost of this plan is estimated at \$270,000.

—The Board of Education have decided to purchase the Wanzer property as a site for the new Collegiate Institute building.—The Council have been asked to make a grant to the Salvation Army towards the proposed shelter and barracks.

—A. W. Peene has been granted permits for three two-story brick dwellings, corner Catharine and Young streets, to cost \$5,000, and for three two-story brick dwellings on Mag'll street for Ed. Harris, to cost \$2,500.—The Toronto, Hamilton and Buffalo Railway Company have purchased land near Welland for the exection of a round house and repair shops.

MONTREAL, QUE. -- The church wardens of St. Louis de France have borrowed \$90,000 to complete the parish church.—The Grand Trunk Railway Company is asking for tenders, addressed to .. J. Seargeant, general manager, until Wednesday, the 30th inst. for the supply of lumber, fence posts, etc., required during the year 1896.—At the last meeting of the St. Henri town council, it was decided to have extensive alterations, repairs and improvements made in the present premises occupied by the City Hall, fire and police. Mr. MacDuff, the town's architect, has been authorized to call for tenders for the work, which is expected to cost between \$7,000 and \$8,000.—Mr. P. W. St. George, City Surveyor, has recommended the construc tion of several new intersepting sewers, at an estimated cost of \$414,403, as follows; Sherbrooke street sewer, \$149,300; St. Catherine street, \$11,740, St. James street, \$103,894; de Levis street, \$139,469, and \$10,000 for the extension of the main sewer now discharging into Elgin basin. He further recommends that Sherbrooke street sewer and de Levis street sewer be let by contract, and that the St. James sewer be done by day work.—A meeting of the Provincial directors of the Southwestern Railway Company, which were recently granted a charter by the Provincial Government to build a railway from Caughnawaga to Valleyfield, was held in this city last week, at which the charter was transferred to

Dr. Seward Webb, representing the New York Central and Adirondack and St. The work of con-Lawrence railways. structing the road will be commenced at once, as it is proposed to have it completed not later than July of next year. The City Clerk is asking for tenders until noon of the 18th inst. for repairs necessary to the drainage of the city hall .- The new Sorel Bridge over the Richelieu river on the South Shore Railway will be begun at an early date. The cost of the structure, including approaches will be about \$150,000.—An English engineer will shortly make an examination of the site for the projected bridge from Montreal to Longueuil, and if his report is favorable work will at once be begun.—Building permits have been granted as follows: Mrs. Joseph Lemein, 3 story brick tenement building, Joly lane, cost \$3,000; W. H. Sheep, two story brick tenement building, Wellington street, cost \$2,000; building, Wellington street, cost \$2,000; Mrs. M. Bourdean, three 3 story stone front buildings, Sanguinet street, cost \$9,000; Mme. L. Forget, self contained residence, Sherbrooke street, three stories, stone front, cost \$9,800.

TORONTO, ONT.—The plans of a station to be built by the C. P. R. at the Don, at the Queen street crossing, have been approved of by the city. It will be 32×24 feet, to be built of wood and covered with metallic sheeting .- F. L. Fellowes, C. E., 18 King st. west, is receiving tenders this week for supplying and laying 21, 3, 12 and 1 inch iron piping, and for excavating and back filling.—The City Engineer has approved of the plans for the overhead bridge at York street, and only a few preliminaries are now necessary to enable the work to proceed .- Messrs. Strickland & Symons, architects, are about to let contracts for brick stables and driving sheds for the Verral Baggage Transfer Co.—In his fortnightly report presented to the Board of Works on Monday last, the City Engineer recommends the asphalting of the lane between Adelaide and Temperance streets at a cost of \$2,100 and renewing the macadam roadway on Jarvis street between King and Queen streets, at a cost of \$1,400. With reference to at a cost of \$1,400. deepening and widening the channel from Lake Ontario to Ashbridges Bay, to provide for the harvesting of a sufficient supply of ice, the Engineer reported that the cost of widening the channel to the full 500 feet and deepening it six feet below zero level would be approximately \$10, 500, and if decided to proceed with the work, \$1,500 additional would be required to cover the cost of deepening the channel from Leslie street to connect with the present cut into the lake.—A meeting of the Hospital committee will likely be held next week to further consider the question of a site for the proposed consumptive hospital. Several sites have been inspected, and large bonuses are being offered by different towns to secure it.—

Mr. E. R. C. Clarkson is making an effort the secure a waterworks custom for the to secure a waterworks system for the Island, estimated to cost \$15,000, and it is expected that work will be commenced early next spring.—Mr. E. J. Lennox, architect, is preparing estimates of the cost of the proposed change in the roof of the court house from wood to iron, and -Building will report at an early date .permits have been granted as follows: A R. Clarke & Co., add. to factory, cost \$1,000; S. C. Duncan-Clark, 2 story bk. add. rear 63 Spadina Rd., cost \$1,000; Kemp Mnfg. Co., 1 story factory, Bell st., cost \$2,600; Thos. Lilly, 2 story bk. store, 325 Dundas st., cost \$1,200; H. McCarten, 1052 Queen st. e., cost \$3,000; Las Alison, 2 story bk. add. to 264 Yonge. Jas. Alison, 2 story bk. add. to 264 Yonge st., Gregg & Gregg, architects, cost \$2,000.

J. B. Atkinson, plumber, Victoria, B. C., has gone out of business.

#### FIRES

The residence of G. Ouimet, 1284 St. The residence of G. Ouimet, 1284 St. Hubert street, Montreal, was burned a few days ago. Loss \$5,000.—A large stave mill at Jericho, Ont., owned by John Middleton, was consumed by fire recently. Insurance, \$1,000. The mill will likely be rebuilt.—Two houses at Hull, Que., owned by St. Pierre, have been burned. Loss partially covered by insurance:—The residences of Wm. Bowes and C. L. Smith at Grafton, N. B., were burned last week. Grafton, N. B., were burned last week. Small insurance.—The residence, barn, stables and granary of Israel Desjardines at Stoney Point, Ont., were burned on the 9th inst. Loss about \$4,000.—Wm. Wright's evaporator at Conway, Ont., was destroyed by fire recently. No insurance. destroyed by fire recently. No insurance.—Mr. C. McKutcheon's large five-storey flour mill at Alton, Ont., was totally destroyed by fire on Friday last. Loss \$4,000, partially covered by insurance.—At Collingwood, Ont., on the 11th inst., the residence of Capt. Geo. Collins, with all contents, was consumed by fire. Insurance, \$700.—A large store and office building at Orillia, Ont., owned by Mr. building at Orillia, Ont., owned by Mr Mulcahy, was totally destroyed by fire on Monday last. The loss is estimated at \$8,000, fully covered by insurance.—John Murray's residence and bakeshop at Ayr, Murray's residence and bakeshop at Ayr, Ont., has been burned. Insurance, \$1,500. —Fire at Coldwater, Ont., on the 13th inst., destroyed two brick stores owned by Geo. R. Gray, and a brick store owned by Sawyer Bros. The loss is nearly covered by insurance.—Sixty-five buildings at Chatham, N. B., were destroyed by fire on the 10th inst., entailing a loss of \$60,000. only a small portion of which of \$60,000, only a small portion of which is covered by insurance. Among the buildings burned are Gillespie's foundry and machine shop, loss \$12,000, Alex. Robinson's carriage works, loss \$3,000, and about 35 dwellings and 30 barns.

#### CONTRACTS AWARDED.

WALKERTON, ONT.-W. J. Whittock is the successful tenderer for plumbing in the public buildings.

COLLINGWOOD, ONT. — The Silica Barytic Stone Co., of Ingersoll have been awarded a contract for 25,000 square feet of pavement to be laid in this town.

PETERBORO', ONT.—At the last meeting of the Town Council the contract for section No. 3 of the outfall sewer was awarded to Robert Grant, of Toronto, who has just completed section No. 1.

KINGSTON, ONT.—The Finance Committee of the City Council has accepted the tender of the Bank of British North America for the purchase of \$48,927.73 debentures. The price offered is \$52.070.

ST. JOHN, N. B.—The contract for the erection of Vanwart Bros.' new building has been awarded to B. Mooney & Sons and John Duffy. It will be built of wood and will contain two dwellings and a drug store.

KINCARDINE, ONT. — The Ontario People's Salt & Soda Co. have awarded the contract for a steel stand pipe, 60 feet high by 3 feet diameter, to Hunter Bros., of this town, also the contract for 2 steel scrubbers 18 feet high by 4 feet in diameter.

HAMILTON, ONT.—The tender of the Bushnell Oil Co. to supply the city with cylinder oil at 50 cents per gallon and engine oil at 33 cents per gallon, has been accepted by the Waterworks Committee. -David Newlands has been awarded the contract for a sewer on Main street, at 89 cents per foot.

MONTREAL, QUE.—R. L. Strathy & Co., of this city, have been awarded the contract by the Coast Line Railway Company for fencing from Yarmouth to Belleville, N. S .- Davld Ouimet, of this city, has been awarded the contract by the Do minion Government for placing heating

apparatus in the Tracadie, N. B., lazaretto.

TORONTO, ONT.—The Board of Works on Saturday last awarded the contract for a brick pavement on Dovercourt road, from Bloor street to Union street, to the Construction and Paving Co., at the price of \$11,218. Wm. Moss, of Bathurst street was awarded the contract for 7,000 feet of fencing in the Rosedale ravine, at 48 cents per foot. For 22,000 yards of sodding in front of the Parliament buildings three tenders were received at 314 cents per yard, and it was decided to divide the work between G. Perfett, J. Stother and Collins & Campbell. For a concrete ce-

ment walk on south side of Bloor street, the tender of A. Gardner & Co., at \$1.04 per lineal foot was accepted.

Shirley & Hoy, tinsmiths, New Westminster, B. C., have been succeeded by H. T. Kirk.

A machine for bending railway rails by power has been invented by George E. Smith, contractor, of Sherbrooke, Que. It was used in the construction of the Megantic branch of the Quebec Central railway, and proved a success, rails weighing 60 and 70 pounds per yard being curved in perfect uniformity.

#### **EUREKA** The state of the s MINIRALWOOD

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#### MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

#### UTILIZING MARBLE FRAGMENTS.

The smallest fragments or chips of marble are now by simple processes, says the Magufacturer and Builder, reunited in a solid mass to form household ornaments, parts of buildings, mantels, etc., all colors and sizes, from that of a pea to that of an egg or larger, being thus utilized-those that are larger being crushed by powerful machines, then carefully screened so as to obtain an even grade of the size desired, the particles being then mixed with a composition of cement and other materials and the mass molded while soft into the shape intended, such as table tops, brackets, urns, mantels, cornices, etc. On the mosaic becoming hardened it is smoothed and polished like solid marble, taking in this way a mirror-like finish, while in some instances the various colors of the marble appear to special advantage by contrasts. It is claimed that the composition will last for a long time out of doors, as has been tested in numerous cases, such as its application for building fronts, vaults, tombstones, etc. The inexpensiveness of such mosaic work is of course an important consideration-that is, the material costs much less than solid marble in the block, while the work of molding, admitting as it does of indefinite duplication, involves less cost than cutting by hand.

#### BUSINESS NOTES.

Dion, Poitras & Larin will do business as plumbers in Montreal.

Joseph Sears, painter, Victoria, B. C., is reported to be in financial difficulties.

The Chanteloup Mnfg. Co., Montreal, has filed a declaration of its incorpora-

J. Dunkerly, contractor, of Durhams Ont., is reported to have gone into insolvency.

O'Reilly & Hooper, carpenters, Kingston, Ont., have dissolved, Joseph Hooper continuing.

Lachine, Bouchard & Brunet, brick-makers and plasterers, Montreal, have registered a partnership.

Authority has been conferred upon the Hamilton Bridge Company by supplementary letters patent to increase its capital stock from \$100,000 to \$150,000.

Some time ago Seymour Green Smith, of New York, was awarded a contract by the town of St. Henri to build an incinerator, but the council subsequently annulled the contract and Mr. Smith now sues the corporation for \$20,000 damages.

The suit of Messrs. Connolly, of Kingston, against the city of St. John, N. B. to recover the sum of \$44,000 for improvements executed to the deep water wharf, has been settled by compromise, the plaintiff accepting \$15,731.73 in full of claim.

T. T. Richards, of Parry Sound, is suing S. R. Poulin and Hugh Fitzgerald, contractors, for \$16,200. Richards took a sub-contract from the defendants for the construction of the third section of the Parry Sound Colonization railway, and he sues to recover the balance due on the contract.

During the recent difficulty in the London building trades the masters demanded the insertion of the following conditions as a preamble to the working rules:— That no workman shall be placed under any disability by reason of being or not being a member of a trade society; that no objection shall be raised to sub-letting work provided these rules are observed. The federated unions are now voting upon the following questions. (1) Are you in favor of accepting the above rules as additions to the present working rules? (2) Are you determined to stand by the working rules as agreed to in 1892? It is stated that in the event of the rules as set forth above not being accepted, there will be no agreement arrived at between the trades and employers.

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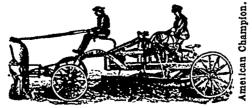
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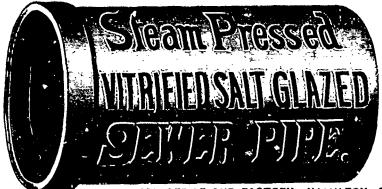
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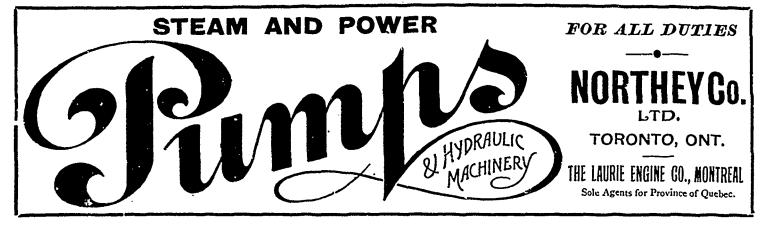
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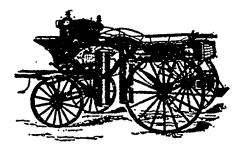
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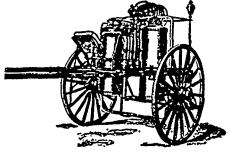


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# MUNICIPAL DEPARTMENT

#### PLACES TO LOOK FOR DANGER.

Maguire tabulates the following list of fifty-one specific insanitary and dangerous defects actually discovered in inspection of dwelling houses. These may prove suggestive to plumbers who are making inspections of systems of plumbing which are suspected of being defective:

- 1. Common brick or stone built drains under basements.
- 2. Large built drains, under or near dwellings.
- 3. Pipe drains of larger diameter than actually necessary.
- 4. Pipe drains broken, or with leaking joints, saturating the subsoil with sewage.
- 5. Pipe drains with built or imperfect junctions.
- 6. Pipe drains under dwelling without sufficient fall.
- 7. Pipe drains with fall in the wrong direction.
- 8. Drains of any kind without proper intercepting traps.
- 9. Drains of any kind without constant free current of air throughout.
- 10. Drains without easy means of inspection.
- 11. Drains carried from public sewer direct under hall door steps and under scullery floor instead of across open area.
- 12. Rat burrows from built drains undermining floors.
- 13. Rat burrows from public sewer worked along outside pipe drains into
- 14. Defective connection between soil pipes and drain.
- 15. Soil pipes inside houses under almost any culcumstances.
- 16. Soil pipes inside or outside without any or ample ventilation.
- 17. Soil pipes through pantries, larders, or stores.
- 18. Defective, badly placed, or ill-constructed water closet apparatus and house-maids' slopsinks.
- 19. Water closet cisterns with overflows joined to soil pipes or drains.
- 20. Safe trays under water closets joined to soil pipes or drains.
- 21. Two or more water closets or sinks on one soil pipe untrapping each other when used.
- 22. Overflow pipes connected to soil pipes liable to become untrapped, all very dangerous.
- 23. Water supplies over troughs taken from water closet or other contaminated cisterns, and hable to be used by careless servants to fill bedroom carafes for drinking.
- 24. Taps for supplying bedroom water fixed over housemaids' slopsinks, liable to be polluted by splash from slops emptying.

- 25. House cisterns, with overflows, joined to soil pipes or drain.
- 26. Traps of every kind, without ample ventilation to guard them.
- 27. Scullery sinks connected direct to drains, admitting foul air not only through traps, but through joints of brickwork and plaster all round.
- 28. Bell taps, with loose covers on scullery sinks.
- 29. Gullies or traps in floors of sculleries, laundries, larders or basement, etc., connected to drain, and usually dry and untrapped or full of foul deposit.
- 30. Ventilating foul air shafts, discharging near chimneys or windows or ventilating openings.
- 31. Rain pipes used as ventilators for drains, discharging foul air near bedroom windows or under roof eaves.
- 32. Rain pipes used as, or connected to soil pipes, likely to freeze soil pipe solid in severe winter.
- 33. Rain pipes passing down center of houses connected in any way to drains.
- 34. Open rain courses from valley gutters, passing under floors to outside down pipes connected to drain.
- 35. Rain pipes of low roofs, bow windows, or porches connected direct into drain.
- 36. Ashpits located near larder, pantry or dwelling.
- 37. Ashpits liable to let moisture soak into house.
- 38. Ashpits capable of retaining moisture, or unventilated.
- 39. Rat burrows from defective drains in neighboring premises.
- 40. Defective drainage or fittings in neighboring premises.
- 41. Any direct communication with drains of neighboring premises.
- 42. Water tanks in areas, near ashpits or sculleries, or with any connection of overflow to drain.
- 43. Bath waste or overflow pipes connected to soil pipes or drains.
- 44. Wash hand basin wastes or overflows connected to soil pipes or drains.
- 45. Water closet cisterns under bedroom or parlor floors.
- 46. Cesspools near houses or unventilated anywhere.
- 47. Cesspools or drains near wells.
- 48. Drains crossing your house from neighbors' premises.
- 49. Field or surface water drains, with open joints under basement connected to house drains direct.
  - 50. Damp basements or damp walls.
- 51. Drinking water defects of source, supply or storage.

#### WHOLESOME PAVEMENTS.

Some investigations made in London, England, as reported in The Surveyor, are interesting, as showing the objectionable character of wood pavement. It must be remembered that the wood pavement there is not rough untrimmed lumber, but carefully cut and squared blocks of wood, impregnated with creosote, fitted closely together and finished up with a tar filling Dr. A. Wynter Blyth, medical officer of health for the district of St.

Marylebone, reports that wood paving is unhealthy, owing to its absorption of filth and subsequent exhalation of noxious effluvia. With the view of deciding whether the objectionable odor comes only from the surface or from the interior of the wood, the doctor subjected a number of blocks to chemical analysis. As the chief sources of pollution are horsedroppings and urine, both of which contain much ammonia, the blocks were tested for this substance. The blocks were cut into three horizontal slices. New blocks gave 3.6 grains of ammonia. After deducting \*.2 grains from each slice, it was found that the top slice of the block taken from the crown of the roadway gave 1.84 grains of ammonia, the middle one 1:44, and the lower one 0.15, or a total of 3.43 grains, clearly showing that the pavement is by no means impervious. But the interesting feature of the test was that a wood block taken from the channel of the roadway gave totally different results. In this instance the top slice contained 2.38 grains, middle 2.52, and the lower one 9.08, or a total of 3.9 grains. It is probable that this excess is due to the fact that foul water percolates right through the blocks, and naturally flows between the wood and the cement foundation toward the gutter, thus saturating the lower portion of the channel blocks. It is evident enough that any rise in the temperature causes a considerable evaporation, and consequent pollution of the atmosphere.

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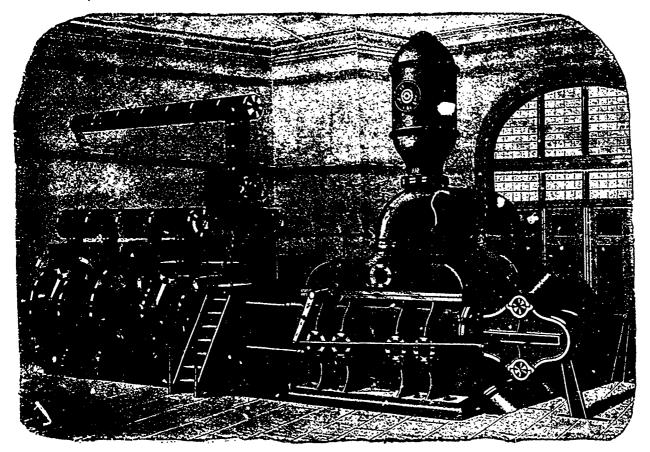
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### Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: A favorable report comes from hardware dealers, cut nails and shelf goods being especially brisk. The city trade in plumbers' supplies is good, and several large contracts have just been closed, while the country trade is steady. Cement is firm and moving freely, with quotations unchanged.

MONTREAL: Business generally is quite satis-

MONTREAL: Business generally is quite satisfactory. Heavy iron and metals retain the activity of the past month, and American manufacturers are said to be considering another advance in the price of iron pipe, the output not being equal to the demand. An advance in glass of 5 cents per box on 50 feet and 10 cents per box on 100 feet has taken place. The arrivals of cement last week were 2,150 casks English and no Belgian, and the demand for small lots continues good.

and the demand for small 10		ues go	oa.
CAR OR CARGO			
To	ronto.	Mont	real.
s 1≰ to 2 clear picks. Am ins33	\$ 00@36.00	\$ 40 000	\$ @45 ∞
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Cull scantling		8 00	9 00
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inch strips, common	D 12 00	10 00	12 00 15 00
1 % inch flooring	22 17 00	12 00	15 00
16 in 2 40	2 50	2 60	2 60
Lath 2 00		1 60	1 70 1 50
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Mill cull boards and scantling Shipping cull boards, pro-	10 00	10 00	12 00
miscuous widths	13 00 16 00		13 00
Hemlock scantling and loist	00 12 60		10 00
up to 16 ft	00 13 00	12 00	13 CO
up to 20 ft		13 00	14 00
Cedar for block paving, per	5 00		5 00
Cedar for kerbing, 4 x 14, per M	14 00		14 00
per M	14 00 15 00		14 00 16 ço
" " 2c ft	16 00		16 00
Scantling and joist, up to 22 ft	17 00 19 00		17 00
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**	24 00 27 00		25 00 27 00
" " <u>4</u> " " 36 t	29 50 31 00		29 50 31 00
" " 38 ft	33 ∞		33 00
Cutting up planks, 11/2 and	34 00		36 (0
thicker, dry 25 (	O 28 00	25 00	30 00
1 1/4 in flooring, dressed, F M.26	30 00	28 ∞	31 00
134 inch flooring, rough, R M. 18 of dressed, F M. 25 of undressed, B M. 18 of undressed, B M. 18 of the undressed of the undresse	xo 27 00	18 00 27 00	22 ∞ 30 ∞
13/4 " dressed, Il M.18 (	00 20 00 00 10 00 .	18 00	19 00
Beaded sheeting, dressed 22 0	∞ 15 °C		15 00 35 00
Claphoarding, dressed	12 00		12 00
XXX sawn shingles, per M			3 00
Sawnlath 2 Cedar	2 90	2 50	2 60 2 90
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River John, N. S., brown		3d, " " 3 20 2d, " " 3 70 4d to 5d cold cut, not polished	3 to 3 60
Freestone, per cu.ft., f.o.b. 95 Ballochmyle 80 90 65	75	or blued, per 100 lbs 280 3d to 5d cold cut, not polished	2 60
New York Blue Stone Granite (Stanstead) Ashlar, 6	1 05	or blued, per 100 lbs 320	3 co
in. to zz in., rise gin., per ft. Moat Freestone	25 80	3d, per 100 lbs 3 85	3 60
Thomson's Gatelawbridge, cu. st. 75 Credit Valley Rubble, per car of 15 tons, at quarry 8 00	80	ad, " 4 35  CASING AND BOX, FLOORING, SHOOK AND TOBACC	4 10
of 15 tons, at quarry 8 co Credit Valley Brown, Cours- ing, up to 10 inch, per sup.		nails.	_
yard, at quarry 175 Credit Valley Brown Dimen.	3 25	12d to 30d, per 100 lbs 2 50 10d, 41 41 2 80 8d and 9d, 41 41 2 95	2 60 2 70
sion, per cu. R. at quarry. 60 Credit Valley Grey Coursing,	75	6d and 7d, " " 310	2 85 3 90
per superficial yard 1150 200 Credit Valley Grey Dimen-	2 15	40 to 50, 3 30 3d, 3 70	3 20 3 60
sion, per cubic foot 60 Clark's N. B. Brown Stone,	75	FINISHING NAILS.	
per cabic foot, f.o.b 1 15 Brown Free Stone, Wood- point, Sackville, N.B., per	1 00	3 inch, per 100 lbs 3 c5 2½ t0 2½ """ 3 20 2 t0 2½ """ 3 35	2 95 3 10
point, Sackville, N.B., per cub. ft x 15	1 00	132 to 134 " " 4 45	3 25 3 45
MadocRubble, delive ed, per toise 14 00 14 50 14 00	t4 50	1 " 1 445	3 85 4 35
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No. 1 Buff Promiscuous 70 No. 1 Buff Dimension 75	85 90	COMMON BARREL NAILS.	3 85
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Sawed Flagging, per sq. ft., for each inch in thickness. 0634	073/4	2½ and 2½ " " 3 10 2 and 2½ " " " 3 25	3 10
Above prices cover cost freight and duty paid. small lots a d 5 to 10 cents per cubic foot.	For	1½ 2nd 1½ " " 3 45	3 45 4.10
Quebec and Vermont rough granite for building pur-		z 4 60 SHARP AND PLAT PRESSED NAILS.	4 60
poses, per c.ft. f.o.b. quarry 33 1 50. For ornamental work, cu. ft. 35 2 0		3 inch, per 100 lbs. 3 45	3 45
Granite paving blocks, 8 in. to 12 in. x 6 in. x 4 ½ in., per M 50 00		2 and 21 " " 3 75	3 50 3 75
Granite curbing stone, 6 in.x 20 in., per lineal foot 70		134 " " 1 4 bo	3 95 4 60
SLATE. Rocting (* square).		STEEL WIRE NAILS.	5 %
11 purple 9 00 1	10 00 50 00	Steel Wire Nails, 75, 10 and 5 % discount printed list.	from ]
black 8 co	6 <del>00</del> 5 <i>5</i> 0	Iron Pipe; 1/2 inch, per foot 6c.	6-
Terra Cotta Tile, per sq 25 00 Ornamental Black Slate Roof-		n n 3≰ n n 7	6c.
ing		" " <del>"/</del> 4 " "	8½ . 12
White lead, Can., per 100 lbs. 6 25 5 50 5 50	6 ∞	11 11 11/4 11 1 24	17 24
" zinc, Can., " " 6 50 7 50 6 50 Red lead, Eng 4 00 5 00 4 50	7 50 5 00	11 1 2 11 11 11 43	30 43
" venetian, per 100 lbs 1 60 1 75 1 00 " vermillion 90 1 00 90 " Indian Eng 10 22 10	1 75 1 00	Totonto, 614 per cent. discount. Montreal, 60 to 65 per cent. discount.	•
Yellow ochre 5 10 3	2	Lead Pipe:	•
Green, chrome	12 20	Waste pipe, per lb	off in
Black lamp	25 18	ton lots.  Galvanized Iron:	7
Oil, linseed, raw, & Imp. s.il. 14 59 58 11 boiled 57 63 62	59	Adam's—Mar's Best and Queen's Head:	
" refined, " 78 85 75 Putty 2½ 2½ 2½	275	26 guage, " 4% 5	
Paris white, Eng., dry 00 1 25 00	75 1 00	Gordon Crown-	
Sienna, burnt	5 00 15	26 guage, " 4½ 4¾	
Umber, " 8½ 12 12	×5	Note.—Cheaper grades about 1/2c. per lb. leso	
OEMENY, LIME, etc. Portland Cements.—	*	Steel Beams, per 100 lbs 2 75	.' 2 50
German, per bbl	2 65 2 05	" channels, " 2 85	2 6c
Belgian, Josson, artificial. 265 295 225	2 30	" tees, " 2 80	2 05 2 35
English, artifical, per bbl 260 290 255	2 65	Sheared steel bridge plate 2 25	2 35