

# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF

PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada

Vol. 12

NOVEMBER 6, 1901

No. 40

## THE CANADIAN CONTRACT RECORD.

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Advertising Rates on application.

### TO ARCHITECTURAL STUDENTS

The Studio Classes under the direction of the Ontario Association of Architects will be resumed at the O. A. A. Rooms, 4 King St. W., on TUESDAY, the 11th inst., at 8 o'clock p. m.

W. R. GREGG, Registrar

## PUMPS AND WATER WHEELS FOR SALE

1 right and 1 left hand 45 inch Eiffel Water Wheels.  
2 No. 6 Rotary Pumps with large air chamber shafting, gearing and boxes complete.  
1 large Escape Valve and connecting pipes, &c.  
The above are in good condition and will be sold cheap. For further particulars apply to

J. W. SANDERS,  
own Clerk.

Port Hope, 25th Sept., 1901.



SEALED TENDERS addressed to the undersigned, and endorsed "Tenders for Heating Apparatus, Dundas Ont." will be received at this office until Thursday, 7th November, inclusively, for the supplying and placing in position of a heating apparatus at the Armories, Dundas, Ont., according to plans and specification to be seen at the Department of Public Works, Ottawa, and at the office of W. A. Edwards, Architect, Hamilton, Ont.

Tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank payable to the order of the Minister of Public Works, equal to ten per cent. (10 p. c.) of the amount of tender, must accompany each tender. The cheque will be forfeited if the party decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

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

By order,  
FRED. GELINAS,  
Secretary.

Department of Public Works,  
Ottawa, Oct. 21st, 1901

Newspapers inserting this advertisement without authority from the Department will not be paid for.

### TO ARCHITECTS.

EXPERIENCED COMPETENT DRAUGHTSMAN is open for engagement. Apply Box 40, CONTRACT RECORD.

### TO CONTRACTORS.

Tenders will be received at the office of the undersigned until 5 p. m. MONDAY, NOVEMBER 12TH, for the

#### Central Heating, Power and Electric Plants

for the Queen's University and School of Mining Buildings, Kingston, Ont.

Plans and specifications can be seen at the offices of the Architects in Toronto and Kingston.

The best or any tender not necessarily accepted.

SYMONS & RAE,  
Architects, Toronto.

G. Y. CHOWM, Registrar,  
Queen's University, Kingston.

### CONTRACTS OPEN.

WINCHESTER, ONT.—B. C. Beech & Co. are rebuilding their foundry.

CANNING, N.S.—The ratepayers intend building a hospital here.

OMEMEE, ONT.—J. J. Nicholls, mill owner, is about to build a new residence.

ZEPHYR, ONT.—Jesse Cook, of this place, will build a saw mill at Orillia.

LISTOWEL, ONT.—The Canadian Bent Chair Co. are about to let contracts for new plant.

DOUGLAS, MAN.—The ratepayers are talking of having the village lighted by electricity.

ST. THOMAS, ONT.—Several concrete sidewalks will be commenced early next spring.

SYDNEY MINES, ONT.—The council are considering the installation of an electric light plant.

NAASAGAWEYA, ONT.—P. Sayers, of this place, will build a saw mill near Corwin, on the C.P.R.

OWEN SOUND, ONT.—Three bids over the Sydenham river will be required to be rebuilt at an early date.

KILLARNEY, MAN.—It is the intention of Joseph Prichard to erect a brick building next spring.

EDMONTON, N.W.T.—The Department of Public Works have purchased a site for proposed jail.

DAVISVILLE, ONT.—The ratepayers of Bithol street will petition the council for an asphalt pavement.

ORRILIA, ONT.—The World Furniture Co. are about to build a brick factory 120 x 45 feet and three storeys high.

GALT, ONT.—The by-law granting a bonus to the Royal Carpet Co., late of Guelph, was carried here last week.

GRANTON, ONT.—The congregation of the Presbyterian church have practically decided to build a new edifice.

CUMBERLAND, B.C.—George Clinton has submitted a proposition to the council to install an electric light plant.

RICHMOND, QUE.—The town council has decided to remodel the town hall and install a hot water furnace.

VICTORIA, B.C.—The British Columbia Pulp & Paper Co., Limited, capital \$500,000, has been incorporated.

STOUFFVILLE, ONT.—It is reported that Walter Scott, of this town, intends building a large hotel at Jackson's Point.

SACKVILLE, N.B.—The Standard Manufacturing Co. intend installing an electric plant for lighting their various buildings.

ST. JOHN, N.B.—Emerson & Fisher have purchased property on Prince William street on which to erect a large warehouse.

ATWOOD, ONT.—Thomas Fullerton will receive tenders up to 11th inst., for construction of a drain in the township of Elma.

SARNIA, ONT.—By-laws will be introduced in council to raise \$10,000 for granolithic sidewalks and \$10,000 for sewers.

TRURO, N.S.—Tenders close noon to-day (Wednesday), for purchase of \$30,000 30 year 4 per cent. bonds. W. D. McCallum, town clerk.

BARRIE, ONT.—Willis Chipman, C. E., of Toronto, has been engaged to prepare plans and superintend the construction of proposed sewers.

HAMILTON, ONT.—E. B. Patterson, architect, has secured a permit for brick addition to factory of Hamilton Whip Co., to cost \$1,300.

ALEXANDRIA, ONT.—The Union Bank is about to erect a new building here, to be 40 x 55 feet, three-storeys, of grey stone and brick.

NEW WESTMINSTER, B.C.—It is reported that the Government has decided to change somewhat the plans for the Fraser river bridge.

CARMAN, MAN.—It is intended to erect a modern school building here, after the design of the new Somerset school, Winnipeg.

PARRY SOUND, ONT.—T. W. Quinn has purchased the Dowell property and intends remodeling the premises next spring.

LINDSAY, ONT.—The town council have appointed a committee to secure plans and advertise for tenders for a new fire hall, to cost about \$5,000.

PLANTAGANET, ONT.—Eli Gauthier, postmaster, will build a new residence next spring, the foundation for which will be put in this fall.

MALAKOFF, ONT.—Thomas Wiggan, township clerk, is asking for bids up to November 13th for purchase of \$12,000 drainage debentures issued by the township of Marlboro.

**OAK BANK, MAN.**—A grist mill of 200 barrels capacity will be built here.

**CHATHAM, ONT.**—The Wallaceburg Beet Sugar Co. have made a proposition to the council to erect a factory at this place.

**DESBARATS, ONT.**—Bids are asked by R. J. Blaney, municipal clerk, up to Saturday, 16th inst., for purchase of \$1,200 school debentures.

**PORT CARLING, ONT.**—The Ontario Government is taking tenders on timber required for extension of locks here. The cost will be about \$12,000.

**KINGSTON, ONT.**—The by-law submitted to the ratepayers of Frontenac county last week to erect a convocation hall for Queen's university was defeated.

**LUCAN, ONT.**—Tenders are invited by G. O. Stanley, village clerk, up to 7 p. m. of 11th inst., for purchase of \$4,312.75 local improvement debentures.

**TORONTO JUNCTION, ONT.**—Joseph Barrett, representing the Humber Light & Power Co., has made another proposition to the council to furnish street lighting.

**REVELSTOKE, B.C.**—Eastern capitalists are said to have purchased a saw mill across the lake from Arrowhead and intend removing it to another site and increasing the plant.

**HALLVILLE, ONT.**—Bids are invited by Hugh Martin, township clerk, up to Friday, 15th inst., for purchase of \$1,500 municipal debentures issued by the township of Moncton.

**THOROLD, ONT.**—It is expected that a by-law will soon be submitted to the ratepayers to grant a bonus of \$5,000 to the Thorold Pulp Co. towards the building of a paper mill.

**GUELPH, ONT.**—An offer has been received from Andrew Carnegie offering to give \$20,000 for a public library provided the city gave a site and \$20,000 annually for maintenance.

**GODERICH, ONT.**—Allan & Goldthorpe, of this town, are actively engaged in securing a franchise from the different municipalities for the proposed Huron, Bruce & Middlesex electric railway.

**SARNIA, ONT.**—Two important drainage schemes are about to be undertaken in this county. Mr. Pettypiece, M.P.P., is endeavoring to interest the Ontario Government in the matter.

**POINT EDWARD, ONT.**—It is said that the Botsford-Jenks Co., of Port Huron, Mich., have evolved a grain carrying scheme which includes the erection of a large steel elevator at this place.

**SYDNEY, N.S.**—The Eastern Telephone Co. has purchased a lot here on which to erect a building. The plans for the building are now in course of preparation.—Gordon & Keith have commenced the erection of a new building.

**VANCOUVER, B.C.**—John Fleming has taken out a building permit for a row of brick terraces, corner of Hornby and Pender streets, to cost \$18,000.—Tenders are being invited to build a new steamer to ply between Victoria and Skagway.

**WINNIPEG, MAN.**—S. F. Peters, architect, has been commissioned by Joseph Maw & Co. to prepare plans for a track warehouse, 110 x 66 feet, to be built at the corner of McFarlane and Point Douglas avenue.

**STAYNER, ONT.**—John Knox, of this place, is making good progress with his scheme of harnessing the Nottawasaga river. An electrical expert will look over the grounds within the next few days, with a view to preparing plans.

**CALGARY, N.W.T.**—Tenders have been invited for erection of new city hall and fire station.—It is probable a by-law

will again be submitted to the ratepayers to raise funds with which to purchase a steam roller and other road making machinery.

**SUSSEX, N.B.**—A public meeting will be held shortly when a vote will be taken on the question of engaging another engineer to report as to the expediency of installing a permanent pumping station and to further look into the possibility of a water supply from other available places in the vicinity.

**SAULT STE. MARIE, ONT.**—T. J. Kennedy, superintendent Manitoulin and North Shore Railway, has just taken tenders for clearing right of way for railway between Spanish River and White Fish Bay, a distance of 16 miles, and for furnishing 55,000 railway ties and 580 telegraph poles.

**FORT WILLIAM, ONT.**—It is announced that the C.P.R. proposes to erect here next year a new cleaning elevator, an annex to elevator B, a new flour and freight shed, and remove the coal dock to the land above the steel elevator. Plans in contemplation by the company include the expenditure at this place within the next two years of half a million dollars.

**SHERBROOKE, QUE.**—Lord Strathcona has donated a site here to be used for a city hall and court house.—New tenders are invited up to 12th inst., for erection of riveted steel highway bridge, 295 feet long, over the Magog river at Wolfe street, the work to be completed by August 1st, 1902. Particulars from F. J. Griffith, secretary-treasurer.

**PORT COLBORNE, ONT.**—Last week a party of G.T.R. engineers and local canal officials went over the ground for the new docks at this place. It is said that they will be located on the east side of the canal, just north of the elevator. It is also reported that the Grand Trunk Railway will commence work immediately on large grain elevators to be erected in the harbor.

**BRANTFORD, ONT.**—Recent building permits granted include the following: Annie Weinaugh, brick addition and alterations to residence, Darling street, cost \$1,800; Ontario Government, brick addition to Institution for the Blind, cost \$1,800; Morgan Harris, brick residence on Chatham street, cost \$4,000; Arthur Ames, brick residence, Chatham street, cost \$2,000; A. N. Pequegnat, brick residence, Campbell street, cost \$2,100.

**COLLINGWOOD, ONT.**—Plans are being prepared for the new boiler and engine works.—Plans and specifications are being prepared for two pairs of semi-detached cottages to be built on Pine street for Capt. W. A. Clark, and five cottages on Hume street for Jno. Bunie. Q.C., all of brick, two storeys, basement, also for a stable on Maple street for Mr. Ford. Work to be commenced at once.—Ex Mayor Chamberlain has put in the foundation of a new house on Pitt street, and will erect four others on adjoining property.

**OTTAWA, ONT.**—Negotiations are under way looking to the erection of a large steam saw mill at Deschenes, a syndicate of Ottawa lumbermen being behind the project. The site in view is that occupied by the Conroy mill destroyed by fire two years ago.—The council will probably be asked to build a large addition to the police station next year.—The Young Men's Christian Association require increased accommodation, and it is probable that a new building will be erected. It is estimated that a building such as is desired would cost \$100,000.—The plans for the Royal Mint have been completed, but it is doubtful whether the building will be commenced this year.

**MONTREAL, QUE.**—Hutcheson & Wood, architects, are preparing plans for a new building to be erected at Point St. Charles for the Railway Young Men's Christian Association. The building will cost about \$24,000. The foundation will be put in this fall and the building completed next spring.—The members of the Olivet Baptist church have purchased property on the east side of Mountain street, just above St. Catharine, as a site for proposed new church, work on which will be commenced as soon as possible. It will be necessary to pile the property before building upon it. This will cost about \$7,000.—The council have reached an agreement with the Union Abattoir Co., by which the latter will rebuild their abattoir at Point St. Charles.—The Board of Trade will take steps to bring about the improvement of the fire protection system of the city, so as to secure a reduction in the rate of fire insurance.—The Fathers of the Holy Cross are negotiating for the erection of a large sanitarium for consumptives at Cote des Neiges. Lord Strathcona has offered to give \$100,000 towards the erection and maintenance.—The city surveyor has been instructed to prepare plans for an underground conduit system.—Colin McArthur & Co., whose wall paper factory was destroyed by fire last week, will rebuild immediately.—Arthur St. Louis, architect, has in hand the building of an additional wing to the Sacret Heart Academy, Rachel street, to be four storeys, 86 x 50 feet, cost \$15,000.—Robt. Findlay, architect, is making plans for alterations and additions to residence for Hugh A. Allan, Lakeside, and for alterations to residence for W. A. C. Hamilton, Dorval.—Building permits have been granted as follows: Mde. Barbe, four-storey house, 410 St. Antoine street, cost \$1,000; A. S. Hamelin, house and store, 222 Berri street, cost \$1,200; F. Schnauffer, two-storey factory, 107 Richardson street, cost \$2,000 (Isaac Collins, contractor); Albert Trudel, one house, 76 78 St. Dominique street, cost \$1,000 (Z. Trudel, architect, W. Mercier, contractor).

**TORONTO, ONT.**—Mr. Lorimer, the Yonge street stationer, intends building a summer cottage on the east side of Beach avenue.—The congregation of the Friends' church, Pembroke street, are about to build a new edifice on the north

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TORONTO MONTREAL ST. JOHN HALIFAX

side of Carlton street, between Yonge and Church streets.—The manager of the Toronto Industrial Exhibition has requested the city council to again submit to the ratepayers the by-law to raise funds for new buildings, with an addition of \$10,000 for improvements to the present main building.—The city engineer has reported that the cost of a foot bridge over the railway tracks connecting the upper and lower portions of Lansdowne avenue will be \$4,500.—The following local improvements have been recommended by the city engineer: Brick pavement,—Dorset street, Wellington to King, cost \$2,970. Macadam roadway—Dundas street, north of Bloor streets, cost \$12,800, with a brick track allowance pavement, to cost \$14,000. Concrete sidewalks—King street, north side, George to Princess, \$1,856; Phoebe street, north side, \$536; Lowther avenue, north side, Bedford to Admiral road, \$222; Peter street, east side, Adelaide to Richmond, \$309; Harbord street, north side, Bathurst to Markham, \$202; Sydenham street, north side, Berkeley to Parliament, \$509.—The city council will take up the question of sewage disposal at a special meeting within a fortnight.—Plans will be completed in a few days for the proposed new science building for Toronto University, and it is expected that work will commence this fall.—Building permits have been granted as follows: John E. Hoare, two storey and attic detached brick dwelling, 67 Howland ave., cost \$3,500; Austrian Hebrew Synagogue, one storey brick addition, 109 Chestnut street, cost \$2,000 (Chadwick & Beckett, architects; H. Griesman, builder); F. S. Duff, two storey and attic brick dwelling, 588 Shaw street, cost \$1,200; Charles Coutts, two storey and attic brick dwelling, 16 Lansdowne ave., cost \$1,800; H. Powell, two storey and attic brick dwelling, east side Davenport road, near Dewson street, cost \$2,500 (N. H. Bradley, architect, H. Lucas, builder); O. J. Fince, two storey brick dwelling, Dufferin street, near King, cost \$2,500 (Bond & Smith, architects, John E. Webb, builder); George Gooderham, two storey brick dwelling, corner Jones avenue and Queen street, cost \$1,500; Thomas A. Hastings, two storey brick dwelling, Rosedale ravine, cost \$1,500 (S. G. Curry, architect, Orr Bros., builders); Trustees Orthopedic Hospital, alterations and brick and stone additions, 104 Bloor street west, cost \$16,000 (F. H. Herbert, architect, Davidge & Lunn, builders); W. S. Burrows, two storey brick and stone dwelling, 628 Davenport road, cost \$2,000; Thomas Whiteside, three attached one storey dwellings, Taylor street, near Sumach, cost \$2,900; C. A. Dinnick, two and one-half storey brick and stone detached dwelling, 57 Glen Road, cost \$8,000, and similar dwelling, 59 Glen Road, cost \$9,000 (Chadwick & Beckett, architects); Charles Parker, store and dwelling, Roxborough avenue, cost \$3,600; W. F. Langlois, residence on Fowles avenue, near Bathurst street, cost \$4,500.

#### FIRES.

Hotel near St. Stephen, N.B., owned by C. B. Rounds and George M. Hanson, of Calais.—G. T. R. station at Glencoe, Ont.—Residence of Samuel Patterson, near Belleville, Ont.; loss \$2,000.—Stave mill of Jacob Lawrence & Son, at Watford, Ont.; loss \$2,500.—A large store building at North Sydney, N.S., owned by Voight Bros., was destroyed by fire last week. The loss on stock and building is estimated at \$100,000.—Flour mill of the Woodburn Milling Co., at Woodstock, Ont., totally destroyed. L. Suitter and R. Whitelaw are interested.

#### CONTRACTS AWARDED.

**ORILLIA, ONT.**—The contract for new electric light sub-station has been let to E. Webb, at \$1,710.

**VICTORIA, B.C.**—Fred Sherbourne, of this city, has been given the contract to build the Lenora smelter at Osborne Bay.

**VANCOUVER, B.C.**—The tender of Baynes & Horie has been accepted for building lighthouse at Brockton Point.

**DUTTON, ONT.**—Dowswell & Smith, of this place, have secured contract for erection of brick veneer manse at Duff church.

**NIAGARA FALLS, ONT.**—A. M. Rosa has awarded the contract for erection of residence on Queen street west to C. N. Clendenning.

**OTTAWA, ONT.**—Haney & Smith, of this city, have secured the contract for harbor improvements at Father Point. This is Government work.

**SYDNEY, N.S.**—It is reported that Leckie & Collins, railway contractors, of Pittsburg, have been awarded the contract to build a railway line 50 miles in length, in Cape Breton.

**MONTREAL, QUE.**—Geo. Roberts has been awarded the contract for rebuilding and making additions to factory for F. W. Molson which was destroyed by fire (Robt. Findlay, architect).

**KINGSTON, ONT.**—Power & Son, architects, have accepted the following tenders for residence to be built on Albert street for R. J. Hooper: Mason work, Douglas & McIlquham; carpenter work, Davidson & Hyland; hardwood finish, W. J. Millar; plumbing, heating and metal work, McKelvey & Birch; painting, T. McMahon.

#### BIDS.

**LISTOWEL, ONT.**—The Canadian Bent Chair Co. have received tenders from the following firms for supply of machinery for their new factory. Cowan & Co., Galt; Goldie & McCulloch Co., Galt; E. Leonard & Son, London; H. W. Petrie & Co., Toronto; A. R. Williams Machinery Co., Toronto; Jackson, Cochrane Co., Berlin; McGregor, Gourlay & Co., Galt; Ballantyne & Co., Preston; Waterous Engine Works Co., Brantford.

#### REAL ESTATE TRANSFERS.

The following transfers of vacant property in Toronto are reported since last issue: Severn st., N. S.,—W. C. C. Smart to T. A. Hastings 42x87, being the east part of lot 13, plan 42 assessed at \$210; Severn st., N. S.,—W. C. C. Smart to Wm. J. Smart, 65x87, being lot 19, plan 42, assessed at \$168; Marguerette st.,—Allan Maclean to John G. Spears, 83.2x135, east side, being part lot 9C, plan 256, assessed at \$581; Marguerette st., John G. Spears to Mary A. Bloom, same as preceding parcel; Roxborough st. W., N. S.,—Confederation Life Association to Jennie F. Brown, 30x149, being parts lots 9 and 10, plan 166E, assessed at \$600; Danforth ave., S. S.,—City of Toronto to John A. Nesbitt, 87x132, being lots 4 and 5, plan 7E, assessed at \$348; also Hampton ave., E. S.,—87x132, being lot 17, plan 685, assessed at \$174, and 97x120, being lot 18, plan 685, assessed at \$194, total assessment of parcel \$716, Albany avenue, W. S.,—to Donald E. Henry, 50x135, being lot 61, plan 608, assessed at \$750; Shaw st., E. S.,—Wm. F. Cowan to Ellen J. Lindsey, 2x122, being part lot 21, plan D23, assessed at \$40; Givens st. W. S.,—Cassie McCrimmon to Wm. T. Addison, 70x133, being part lot 73, plan 302, assessed at \$700; Grace st.,—Ellen I. Tilt to Annie E. Chisholm, 1x107, east side, being part lot 15, plan 748, assessed at \$12.

#### PAINTING SHINGLED ROOFS.

More shingle roofs are painted now than ever before in the history of building in this country, says a writer in the Lumberman. It is mostly seen in cities and suburban towns, although in the country it is by no means rare. Considerable inquiry has led to the conclusion that many have their roofs painted to add to their appearance, which in many cases it certainly does, while others labor under the impression that the paint acts as a preservative to the shingles. The latter are probably right, provided the paint is renewed as often as it needs to be. If the roof is allowed to remain with the paint partly worn off, the shingles will retain more moisture, and consequently decay sooner than they would were they not painted at all. On the score of durability little can be gained in cost by painting. A good shingle roof unpainted will last a great many years, and the expense of painting:

## Good Roads Machinery Co. (Limited.)

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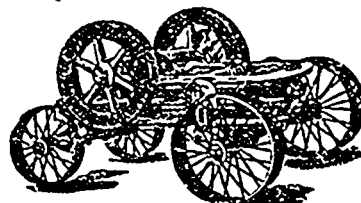
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few times would replace it. One painter who had painted the roof of his own house, when questioned, used good logic from his standpoint. He thought that painting a roof would add somewhat to its length of life. "You see," he said, "that I have painted mine. I do for myself what I desire to do for others. If I did not, the influence would be bad."

**SHIPPING AMERICAN GRANITE TO ENGLAND.**

It is announced that a shipment of Maine granite is to be made at once to England. This is like "taking coals to Newcastle," for Aberdeen, the "Granite City," has long been recognized as the granite centre of the world, and has completely dominated the entire English market. In recent years there has been some importations of Swedish and Russian granites into England, but this has been for monumental and decorative purposes, because of the rich colours of the northern granites.

The shipment of the American granite will be the joint venture of Mr. John L. Goss, owner of the extensive quarries on Crotch and Moose Islands, Stonington, and Mr. W. S. White, manager of Booth Bros. and Hurricane Island Granite Company. These gentlemen have given a careful study of the subject, and a man was sent to England and Scotland some months ago to look the field over and report upon the feasibility of the scheme. As everything looked propitious, the shipment will be made at once. This will be

the first cargo of building granite ever sent from the United States to a European port. It will consist of from two to three thousand tons, and will be equally divided between the Crotch Island and the Hurricane Island granites.

Did you ever make a water or eave trough of a stick of timber, say 4 x 4 or 6 x 6? If you did, have you thought of the probable effect of the weather on it in its exposed situations? If it is made right and of heart timber, it will outlast most of the metal gutters made of tin or of light galvanized iron. But if it is made so that the wrong side of the grain is left on the work, it would be better to leave the timber for some other purpose in which the grain of the timber would offer no objections. On an order of five pieces, in a New York mill, three of these sticks were

sawed with the grain on the heart corner in the stick, while the other two were sawed to take out the heart grain, leaving the long grain of the sap side to hold piece together and resist the action of weather. This was only an accident, the man that sawed the sticks did not pay any attention to the grain nor did he seem to think that it made any difference. There is not any difference in the amount of work required to get out the piece in either way, but it means just the difference between success and failure as far as results are concerned.

An English sawyer sued his employers for \$300 damages for the loss of a portion of the second finger of his right hand. His claim of being incapacitated was not sustained, as he could not prove that his earning capacity was affected, and his refusal to accept the position offered him pending the settlement of the case, released the employer of liability for his employment.

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We are prepared to equip municipal or other water works plants with Pumping Machinery of the latest and most approved designs. We manufacture Steam and Power Pumps of all types, for any duty. Our long experience is behind all our products. They are the standard in Canada for excellent service. Catalogues and specifications on request from The Northey Company, offices and workshops at Toronto, Ont.

We have several excellent second hand pumps in first-class condition for water works services at close prices. Send for Catalogues.

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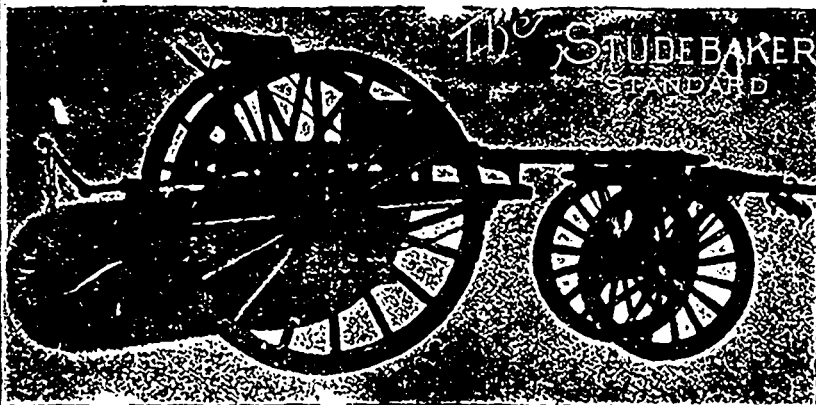
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Does not clog or get out of order. Greatest width of spray. Can be graded from driver's seat to any volume. We also make an . . .

**IMPROVED VERTICAL SPRAY**

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patent Improved **Street Sweeping Machine** is the Standard of Perfection. Because no sweeper so effectually does the work for which it is designed as "The Studebaker." It Sweeps Clean. No sweeper is constructed with the same degree of care and mechanical precision. It Wears Well. "The Studebaker" has the smallest possible number of working parts, and has less

**SUGGESTIONS FOR USING PORTLAND CEMENT.**

Keep the cement perfectly dry until to use it in mortar.  
 "dry, clean, sharp sand, and use the amount that will fill the voids. Increasing the percentage of sand reduces strength and slows the setting. Wet only so much mortar at one time as can used before setting commences.  
 Do not permit the finished work to dry quickly; after it has commenced to harden cover with wet sand or burlaps and keep wet for a fortnight. Concrete ditches, drains, and reservoirs should be washed over with a thin cement, grouting as fast as built. After the mortar has set a day or two, it is well to flood it and keep the water standing stagnant a fortnight.  
 If the finished work cannot be kept covered as above, keep wetting it by daily sprinkling. Water is the life of Portland cement mortar.  
 When concrete is laid in large bodies, it is allowable to imbed irregularly throughout its mass as many large stones as is consistent with their being well bonded together by the mortar.  
 In concrete it is desirable that the aggregates should be graduated in size; then they pack closer and require less cement to fill the voids. The stone should be angular, and free from dust.  
 Do not mix lime with cement; it tends to the mortar crack.  
 In masonry the stone or brick should be thoroughly wet before laying.  
 In sidewalks, as fast as the concrete is

tamped to a surface the top coat should be spread on, in order to bond the two layers together.

Ordinarily lampblack injures cement mortar, mineral colours do not; sienna, Prince's metallic, Venetian red, Prussian blue, ground coal, or oxide of manganese are good.

A correspondent sends to the "Builder" an interesting account of some remarkable deposits of petrified wood existing in one of the rivers in South Russia. The deposit consists of a quantity of calcined oak lying in the bed of the river in layers three or four feet deep, and extending over an area of some 150 miles. A main feature—which, indeed, constitutes the chief value of this specific hardwood—is a variety of colours. No fewer than twelve shades in pink, blue, yellow and that known as American walnut have been found. This

peculiar formation would seem to have been caused by the variegated character of the soil at the bottom of the river.

Veneered board made of tightly matched strips 1/4 x 3 inches, glue-laid to the size required and veneered with heavy straw-board, is now used for partitions, dry packages and other uses not requiring any exposure. It has a smooth surface and is capable of taking any ornamentation desired. For ceilings, partitions or work of that class it has been found to be a very serviceable article.

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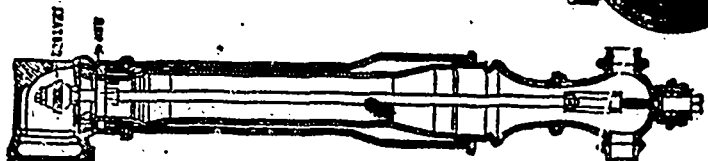
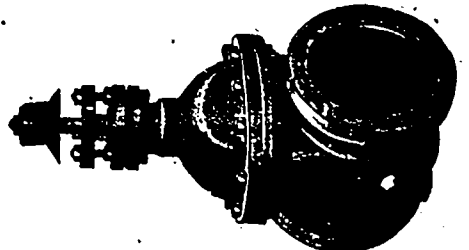
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**CEMENT CRUSHING MACHINE.**

Mr. Geo. E. Perley, C.E., of Ottawa, has been at Portage la Prairie, Man., recently, making a cement crushing machine to use for testing purposes at the Government works at St. Andrew's Rapids. The machine is the invention of Mr. Perley, and we understand has been found so satisfactory that it has been adopted by the Dominion Public Works Department for use in all their laboratories.

In explaining the testing process Mr. Perley said that the cement is sifted through three sieves, the first of 2,500 holes to the square inch, then through one of 10,000 and another of 40,000. The neat cement is made up into briquettes and after being allowed to remain one day in air and six days submerged in water must stand a tensile strain of 400 pounds to the square inch. The cement must also undergo the 27 day test of one day in air and 26 in submersion, when it is subjected to a tensile strain of 650 pounds to the square inch, otherwise it is rejected. In the crushing test the cement in the seven days test must stand a crushing strain of 3,500 pounds to the inch and 6,000 pounds after the 27 day test.

Briquettes are also made of three parts sand to one part cement, and these must stand a tensile strain of 115 pounds to the square inch after the seven day test and 125 pounds after 27 days. They must also undergo a crushing strain of 1,000 pounds after the seven day test and 2,500 pounds after one day in air and 27 of submersion. In addition to this the cement is judged by its sampling, color, fineness of grain, specific gravity and water used in gauging. The system is very elaborate and complicated and the tests extend to the sand and stone used in the concrete and the mixing and depositing of the concrete.

Mr. Perley's crushing machine and the Fairbanks tensile strain machine are both worked by a leverage system. To one end of a lever a tin receptacle is attached, and when the tests are made the shot runs automatically into this and automatically discontinues when the briquettes break under either the tensile or crushing strains. Each pound of shot, by the adjustment of the leverage, represents a strain of 100 pounds, and in this way the exact strength of the cement can be ascertained.

In not a few of the granite cutting yards in Aberdeen lady draughtmen (or draught-women) are employed. This opens up a new field for female skill, and demonstrates once more that ladies are filling with considerable success avocations which formerly belonged exclusively to men.

In an official report received from Germany it is announced that the Prussian Minister of Public Works has issued new regulations for the testing of cement. The railway authorities have therefore established a department for that purpose in their technical bureaux. No particular technical knowledge is necessary for the testing operation; only experience is wanted. In cases of dispute the last appeal is to be made to the Royal Mechanical Technical Experiment Institution (Department for Building Materials) at Charlottenburg. The judgment of experts at this institution is always called into requisition when large quantities of cement are delivered for important buildings.

**DATE OF PUBLICATION.**

Architects, engineers, municipal authorities and others are reminded that the **CONTRACT RECORD** is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to insure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

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# MUNICIPAL DEPARTMENT

## LEGAL DECISIONS AFFECTING MUNICIPALITIES.

A case of more than usual municipal interest has been decided in the Superior Court by Mr. Justice Langelier. A contractor named Pauze tendered for the construction of certain drainage works in the municipality of Maisonneuve, Que. He had in connection with the business to see one Mr. Martineau, a member of the municipal council and also a member of the committee which had immediately to do with the awarding of the contract. To secure his good-will, or to avert his opposition, the tenderer gave him a note for \$1,250. The matter came before the courts in the course of an effort by the holder of the note to enforce its payment. The makers of the note pleaded that it was given as an illegal consideration and set out what is stated above. They supported it also by such evidence that the court accepted it, and dismissed the suit. The civil side of the case is thus disposed of; but there is another that is of even greater public importance. The defendants' allegations, accepted by the court, were equivalent to a charge that a grave crime punishable under the law has been perpetrated. Section 136 of the Criminal Code defines among corrupt practices in municipal affairs the act of any person who, being a member or officer of a municipal council, accepts or consents to accept any offer, proposal, gift, loan, promise, agreement, compensation or consideration, or in consideration thereof votes or abstains from voting in favor of or against any measure, motion, resolution or question, or performs or abstains from performing any official act. There is some reason to fear, says a Montreal paper, that such acts as are here condemned are not uncommon in municipal administration. At least there is a strong public belief to that effect, which this Maisonneuve case will give justification for, and which will be increased if, after the exposure of the civil courts, there is not a prosecution in the criminal courts that will bring about the punishment of the presumed wrongdoer, or, if he is not a wrongdoer, will give him the opportunity of clearing himself. The case is the second of the nature to attract public attention.

## DEBENTURES

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

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tention in the district of Montreal within a brief time, and it is not well that it should remain to increase the belief that the law for punishing municipal wrongdoers is a dead letter.

## A GIGANTIC PUMP.

In the waterworks at Coulourenier, near Genoa, an enormous centrifugal pump has been installed. It lifts water 460 feet, and when running at full speed of 600 revolutions a minute absorbs 2,000 horse power. It is driven by two-phase induction motors operated by electric currents from Chevres. The pump is arranged to give the necessary pressure to overcome the great head against which it works by a simple tandem arrangement of two centrifugal vanes. Injectors are provided to fill the casing with water, the pump being started with closed valves. This gives the motors only the friction of the water in the wheel case to work against in starting. After they have attained full speed the valves are gradually opened. The pump delivers 5,000 gallons per minute.

When the streets are muddy in London, there is said to be a marked falling off in such diseases as are prevalent when dust is being blown about. But when by the addition of water the dust becomes mud, then the power for harm in the matter in the wrong place is gone, since mud is not an inhalable quantity, and the germs which abound in dry mud, however vicious

they may be, become inert in mud and too lazy to go away unless they are carried. In course of time also the mud is likely to be washed into the sewer gutters, in which case the germs are moved off to where they can do no harm. Copious street sprinkling, therefore, should be had recourse to in dry weather (and if with salt or salted water which kills many kinds of germs, so much the better) and streets be kept well wetted down, so as not to give the microbes a chance to be blown about into people's mouths or noses. Cold water is as big a bugbear to a germ as to a tramp.

Chicago is about to try an experiment, the result of which, it is hoped, will be that in a short time the whole of the city will be completely free from overhead wires as the down town districts. Five corporations doing business in the city, the Western Union and Postal Telegraph Companies, the Chicago Telephone Company, and the Chicago Edison company, have decided to build a combination conduit three feet square. The city will own it, but the other four corporations will have equal rights in its use, and the conduit will be built in Archer avenue, from Nineteenth street southwest for half a mile. The poles at present standing in that section carry 125 wires. As soon as the cost of the experiment is learned, an ordinance will be introduced to put all wires underground in every section of Chicago where there is any danger from overhead wires.

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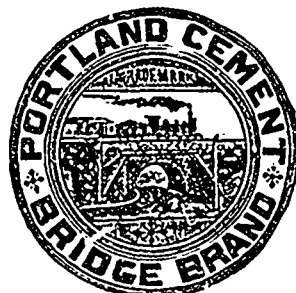
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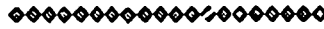
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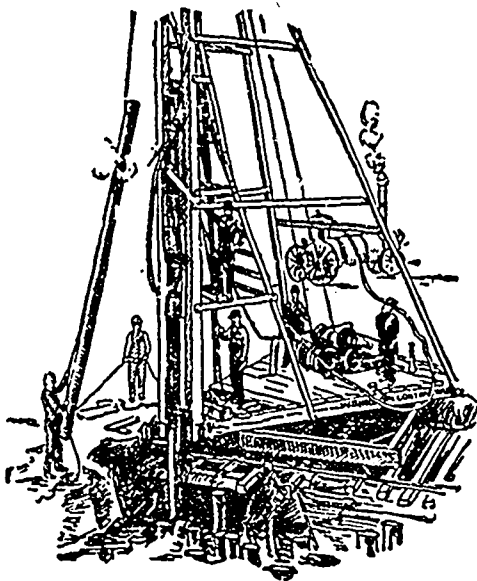


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Do., for polishing purposes, up to 2 tons weight, per cubic foot.....	1 00
Paving sets, per thousand block...	60 00

	F.O.B. Quarries.
Rubble, per ton.....	50
Brown Coarsing, up to 10 per sq. yard.....	2 00
Brown Dimension, per cub. ft.....	65
Grey Coarsing, per sq. yard.....	1 25
Grey Dimension, per cub. ft. ....	45

	Toronto.	Montreal.
Rocking (# square).....	17 50	20
" red.....		
" purple.....	8 50	10 00
" ding green.....	8 50	7 00 8 50
" black.....	7 50	6 50
Terra Cotta Tile, per sq.....	20 00	25 00
Ornamental Black Slate Roofing	8 80	6 50

	Toronto.	Montreal.
Portland Cements -		
" Joeson " Brand Portland.....	3 05	3 25 2 70 2 80
North's " Condor.....	2 95	3 10 2 50 2 60
Alsen's, (German).....	3 00	3 75 2 60 2 70
" Karstadt" (German).....	2 81	3 05 2 55 2 65
English, artificial, per bbl.....	2 85	3 00 2 25 2 35
Belgian natural, per bbl.....		2 00 2 10
Rathbun's Star, per bbl.....	3 5	2 5
Beaver.....	2 10	2 50
Faigun.....	1 90	2 30
Ontario.....		1 50
Roman.....		2 20 2 30
Porian.....	5 25	5 75 5 75 5 25
Keene Superfine "Whites".....	1 00	12 00 0 60 0 60
Keene's Coarse "Whites".....	1 90	8 50 0 80 0 80
Raevel's Belgian, 395 lb. bbl.		2 25 2 35
Levie Bros.....		2 45 2 55
Fire Bricks, Newcastle, per M.....	30 00	35 00 16 00 21 00
" Scotch.....	30 00	35 00 19 00 21 00
Lime, 100 lbs., Grey.....		30
" White.....		35
Plaster, Calcined, N. B.....		2 00 1
" N. S.....		2 00 1
Hair, Plasterers', per bag.....	30	1 00 0

	In 5 gal. cans.	In 10 gal. cans.	In 15 gal. cans.	In 20 gal. cans.	In 25 gal. cans.
Exterior wearing body.....	\$5 50	\$7 50	\$5 50	\$6 50	\$5 50
Exterior rubbing.....	3 50	3 75	3 25	4 20	4 40
Elasto ia.....	3 50	3 75	3 25	4 20	4 40
Ivory E. ame line.....	3 50	3 75	3 25	4 20	4 40
Cryz all e.....	4 50	4 75	4 25	5 20	5 40
Machine.....	2 00	2 25	2 25	3 20	3 40
Architectural Coac.....	5 00	5 75	5 25	6 20	6 40
Granite floor 6 lb.....	2 50	2 75	2 25	3 20	3 40
Architectural Galling.....	2 00	2 25	2 25	3 20	3 40