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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS 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. II. NOVEMBER 21, 1900 No. 42.

THE CANADIAN CONTRACT RECORD,
PUBLISHED EVERY WEDNESDAY
As an Intermediate Edition of the "Canadian Architect and Builder."

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance

G. H. MORTIMER PUBLISHING COMPANY
of Toronto, Limited,
Publishers.

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2362.

Branch Office:
Imperial Building, Montreal.
Telephone Main 2257.

Advertising Rates on application.

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

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TENDERS

Sealed tenders will be received at my office until DECEMBER 1ST, for the construction of a Bishop's Palace for Mgr. A. A. Blais, St. Germain de Rimouski; also for the enlarging and restoration of the Convent des Dames de la Congregation de Sherbrooke, and for the finishing of a Church and construction of a Presbytery at St. Julien de Wolfeston. Plans and specifications may be seen at my office every day from 9 a.m. to 4 p.m.

The lowest or any tender not necessarily accepted.

JOS. J. B. VERRET, Architect.
Corner Peel and Market Streets,
Sherbrooke, Que.



SEALED TENDERS, addressed to the undersigned, and endorsed "Tender for Armoury, St. Thomas, Ont.," will be received at this office until MONDAY, 26TH NOVEMBER, 1900, inclusively, for the erection of a building for an Armoury at St. Thomas, Ont., according to plans and specification to be seen on application to Mr. J. Russell, Post Office, St. Thomas, and at the Department of Public Works, Ottawa.

Persons tendering are notified that tenders will not be considered unless made on the form supplied, and signed with their actual signatures.

Each tender must be accompanied by an accepted cheque on a chartered bank made payable to the order of the Honourable the Minister of Public Works, equal to ten per cent. (10 p.c.) of the amount of the tender, which will be forfeited if the party decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

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

By order,
JOS. R. ROY,
Acting Secretary.

Department of Public Works,
Ottawa, November 3rd, 1900.

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



TENDERS FOR

Annual Supplies

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, Toronto, up to noon on TUESDAY, DECEMBER 4TH, 1900, for the following supplies for the year ending December 31st, 1901:

- | | |
|--|---|
| Lumber.
Pit Gravel — Screened and Unscreened.
Hardwood Lumber.
Sand.
Sewer Pipe.
Brass and Bronze Castings.
Brass Work for House Services.
Coal and Wood.
Lead Pipe.
Special Castings.
Iron and Steel. | Paving Brick.
Hydrants.
General Supplies.
Wire Nails.
Cedar Paving Posts.
Horse Feed, Etc.
Cast Iron Pipe.
Lubricating Oils.
Lumber for W. W. Purposes.
Rubber Valves, Etc.
Boiler Purger.
Iron Valve and Stop Cock Boxes.
Lake Gravel. |
|--|---|

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

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after November 21st inst.

A marked cheque, payable to the order of the City Treasurer, Toronto, for two and one half per cent. of the amount tendered for, must accompany each and every tender, otherwise it will be ruled out as informal. The lowest or any tender not necessarily accepted.

E. A. MACDONALD (Mayor),
Chairman Board of Control.

Toronto, November 16th, 1900.

CONTRACTS OPEN.

FERGUSON, B.C.—A Methodist church will be built here next spring.

EXETER, ONT.—The village council will probably purchase a fire engine.

LION'S HEAD, ONT.—Chas. Pedwell will erect a saw mill here next spring.

BLUE MOUNTAIN, N. S.—The Baptists are preparing to build a church here.

GRAND FALLS, N. B.—Charles Curliss is building a large four story hotel at this place.

GORDON BAY, ONT.—Wm. Meyers is preparing to build a residence at Portage Lake.

AMHERST, N. S.—The Robb Engineering Co. purpose extending their factory and plant.

WHITNEY, ONT.—Mr. Bruce, C. E., is surveying a logging railway route to the Opengo limit.

LEAMINGTON, ONT.—Arthur Brown has two dwellings under way, and may build a third one.

DIGBY, N. S.—Hugh Cann & Sons, of Yarmouth, have purchased a site here for a wharf.

PICTOU, N. S.—The town will borrow \$80,000 for the introduction of a water-works system.

FENWICK, ONT.—L. Jones has offered to donate \$300 towards a free Methodist church to be built here.

PRESCOTT, ONT.—D. P. Horan, of the Bradley House, intends building a new hotel on Main street.

CHATHAM, ONT.—Harwich township council has decided to build a bridge, 30 feet long, to replace the Hogan bridge.

GUELPH, ONT.—The Bell Organ & Piano Co. are negotiating for property to permit of an extension of their factory.

QUEBEC, QUE.—Work has commenced on the new theatre building. Plans by Resther & Sons, architects, of Montreal.

FERNIE, B. C.—It is stated that a new tunnel 1,000 feet in length will be built by the C.P.R. on the line of the Crow's Nest Pass.

ROSSLAND, B. C.—The hospital here controlled by the Roman Catholic Sisters will probably be enlarged, at a cost of \$10,000.

PERTH, ONT.—Wm. Kennedy, C. E., of Montreal, has been engaged to design a power system for the electric light plant.

NELSON, B. C.—Surveyors are now locating a proposed railway from Trout Lake to Arrowhead, to be built by the C. P. R.

HALIFAX, N. S.—A company, in which E. P. Allison is interested, purposes establishing a cold storage plant in this city.

NIAGARA FALLS, ONT.—The subject of encouraging the building of a gris mill in town will be considered at next council meeting.

WELLAND, ONT.—The township council of Humberstone will let a contract on Saturday, 24th inst., for construction of Lion's creek outlet.

CHAMBLY, QUE.—A portion of the dam of the Chamby Mfg. Co. was swept away on Saturday last by an increased pressure of water.

TEESWATER, ONT.—John Farquharson, village clerk, invites offers up to December 3rd for purchase of \$2,162 4 per cent. debentures.

EDMONTON, N. W. T.—The question of engaging an engineer to prepare plans for a waterworks system is under consideration by the council.

PETROLIA, ONT.—Bids are invited by J. McHattie, town clerk, up to 6 p. m. of November 26th for purchase of \$762.59 local improvement debentures.

STURGEON POINT, ONT.—The proposal to build a summer hotel here has again been revived, and a local joint stock company may be formed for the purpose.

KOSTOCK, ONT.—Justus Krueter, secretary School Board, asks bids up to Monday, December 10th, for erection of

two-roomed brick school at this place, the contractor to furnish all material, except sand, brick and stone. Plans by H. J. Powell, architect, Stratford.

LINDSAY, ONT.—It is probable that a central fire hall will be built.—The town solicitor has presented to council six by-laws authorizing the issue and sale of debentures.

STRATHALLEN, ONT.—The Methodist church congregation have selected a site for a new church, brick, to cost \$7,000. Plans for same will likely be prepared this winter.

SHELBURNE, ONT.—D. C. Dunbar, village clerk, invites offers on behalf of the corporation up to Thursday, 29th inst., for purchase of \$5,000 4 per cent. debentures.

GANANOQUE, ONT.—It is likely that a vote of the ratepayers will be taken on a by-law granting a bonus of \$10,000 to assist Wm. McKenzie in rebuilding his furniture factory.

VERNON, B. C.—The directors of the Vernon Jubilee Hospital desire tenders by 26th inst. for heating the hospital by hot water. Plans at office of R. J. Davies, secretary.

WINDSOR, ONT.—J. F. Webb, of Ypsanti, Mich., who is promoting the street railway from this place to Leamington, states that the company will be organized very shortly, and that building operations will commence next spring.

HINTONBURG, ONT.—Tenders for rock and earth excavation work for the pipe extension of the waterworks system will be received by F. J. Merrill, chairman waterworks committee, up to 4 p. m. of November 26th.

DESCHENES, QUE.—J. B. Fraser and John Bryson have purchased considerable property here, and it is understood that they have in view the erection of a large saw mill.

HAMILTON, ONT.—The Toronto, Hamilton & Buffalo Railway Company contemplate building an addition to their warehouse, corner Maria and Walnut streets, and to their round house on Garth street.—Dennis Kelly will build a brick cottage on King William street, to cost \$700.

SOREL, QUE.—The construction of a large wharf and some considerable dredging at this place is to be undertaken by the Dominion government.—The Rutland & Vermont Railway Co. which controls the Quebec Southern Railway, intends erecting a large elevator here.

SMITH'S FALLS, ONT.—J. H. Moore, C. E., of this town, invites tenders up to Saturday, 24th inst., for the removal of earth and other obstructions from the Wyllie creek, the Silver creek, and the south branch of the North Castor river, and for the construction of new channels in connection with the above.

SANDON, B. C.—Tenders were opened last week by the county council for the erection of a town hall. Three tenders were received, from Follitt & McMillan, Carr & Wilson and D. J. McLaughlin. It was found that the tenders exceeded the architect's estimate, and the letting of the contract was postponed.

GREENWOOD, B. C.—It has been announced that the St. Paul, Minneapolis & Manitoba Railway Company proposes to construct a railway from Wenatchee, on the Columbia river, north-easterly to the international boundary line.—The Presbyterian congregation purpose building a church here.

ST. CATHARINES, ONT.—Black, Kerr & Company have purchased property on Race street, and intend building a flour mill thereon.—The city council will submit to the ratepayers a by-law to provide funds for construction of proposed outlet for the sewerage system. The cost of the work will be about \$25,000.

CARLETON PLACE, ONT.—At last council meeting a by-law was passed authorizing the issue of debentures to the amount of \$1,200.—It is the purpose of Findlay Bros. to enlarge their stove plant and to erect a new building to cost \$15,000. The council has been asked for a loan of \$10,000 for the purpose.

BURK'S FALLS, ONT.—A deputation from this place last week requested the Ontario government to make an additional grant of \$2,500 towards the building of a spur line of railway from Burk's Falls to the head of navigation on the Magnetawan river. The distance is one and one-half miles, and owing to the necessity of two steel bridges, the cost of the work will be about \$40,000.

KINGSTON, ONT.—C. L. Meyer has written to the city council that the plans for the proposed smelter are nearing completion.—The trustees of the First Baptist church purpose enlarging the church and building a parsonage. The present parsonage will likely be converted into a Sunday School building. Arthur Ellis, architect, has been commissioned to prepare the necessary plans.

EAST TORONTO, ONT.—G. M. Miller & Co., architects, of Toronto, are understood to be preparing plans for an addition, 35 x 40 feet, to the Alexandria Industrial School.—The village council has given notice of its intention to construct water mains on Kingston road, Beech avenue, Queen street and Howard avenue.

NEW WESTMINSTER, B. C.—The city council have adopted the plan submitted by Fred J. Bauer, architect, of this city, for the proposed city hall. The front on Columbia street is to be constructed of granite, sandstone and brick; the piers and lintels over second storey windows to be of rough faced granite, all other stone work of sandstone. The building throughout is to be lighted by electricity, and the heating will be by means of furnaces.

ST. JOHN, N. B.—A special meeting of the school trustees has been called to consider the erection of a new school building in Carleton.—Repairs will be made to Carleton Baptist church.—The new building project of the Y. M. C. A. is assuming an encouraging aspect. The plans, as adopted, show large reception hall, swimming bath, gymnasium, bowling alleys, auditorium, class rooms, etc., and the cost will be about \$30,000.

BRANTFORD, ONT.—New head gates in connection with the works of the Brantford Electric & Operating Co. will be built, at a cost of \$7,500.—The Board of Management of Zion church will engage an architect to prepare plans for proposed improvements to the edifice, to cost about \$9,000, and to be commenced next spring.—A by-law may be submitted to the ratepayers at the January election to provide funds for street improvements.

VANCOUVER, B. C.—Plans have been prepared for an additional storey to the Commercial hotel, owned by Haywood & Prescott. Work will be commenced in the spring.—Parr, & Fee have just taken tenders on erection of residence corner Robson and Gilford streets.—Work has commenced on a five-story warehouse on Water street for Kelly, Douglas & Co.—C. J. Allen, of the Portland Rice Mills, purposes establishing a rice mill at some point in British Columbia.—During the coming season the C. P. R. hotels at Sicamous, Banff, North Bend, Glacier and Mount Stephen will be remodelled.

PORT ARTHUR, ONT.—Messrs. George Hodder and J. D. King have reported to the town council in regard to the development of the Current river water power for electric light and street railway purposes. The total cost is estimated at \$30,000, and includes \$15,500 for building dam, excavations, flumes, water wheels, and addition to power house, \$6,000 for

electric light plant, and \$2,000 for a power generator. It is recommended that a by-law be submitted to the ratepayers to raise the necessary funds.

BROCKVILLE, ONT.—Cossitt Bros. will rebuild their agricultural implement works destroyed by fire a few months ago.—It is understood that the C. P. R. authorities have approved of plans for an expenditure of \$100,000 in improving the Brockville and Prescott yards. New buildings will be erected and the yards enlarged.—Mr. Blossom, gas expert of New York, has completed his examination of the plant here, and in a few days will present his report on the improvements required to bring the plant up-to-date.

LONDON, ONT.—John S. More, proprietor of the Dominion Gas Hater Works, proposes enlarging his premises.—Next spring the opera house will likely be turned into a ground floor theatre at a cost of \$25,000.—The McClary Mfg. Co. are about to build another addition to their works.—A. M. McEvoy, treasurer of Middlesex county, invites bids up to Wednesday, December 5th, for purchase of \$12,600 of debentures, bearing 3½ per cent. interest.—P. Walsh will build a one and one-half storey brick veneer cottage on Maitland street.—The Board of Works has decided to engage Willis Chipman, C. E., of Toronto, to prepare plans and specifications for new filter beds.

OTTAWA, ONT.—G. E. Kidd, promoter of the proposed electric railway between this city and Brockville, states that prospects are bright for the early construction of the road.—The site for the contagious diseases hospital has been definitely settled, and as soon as the council approve of the plans work will be commenced.—The city invites tenders up to 4 p. m. on Tuesday, December 4, for supply of a quick-firing piston fire engine, with pumping capacity of 750 imperial gallons per minute. Particulars from P. Provost, chief of fire department.—A. C. Larose has been authorized by the Separate School Board to prepare plans for some out-buildings in connection with St. Roch's school.—W. Temple, of Philadelphia, was in this city last week. It is rumored that his visit was in connection with the establishment at Deschenes of a factory for the manufacture of electrical apparatus.—Arthur Thompson will next spring commence the erection of a six-story building at north-east corner of Sparks and Metcalfe streets; 66x99 feet, built of steel, concrete and expanded metal, ground floor to be fitted up for a bank and upper flats for offices; approximate cost, \$100,000. Jas. B. Baker, a New York architect, is preparing the plans.—Building permits have been granted as follows: Thomas Kells, brick veneer tenement house, Concession street, cost \$4,000; Joseph Mayeux, brick veneer hotel, Broad street, cost \$1,500; J. H. Burbidge, double brick veneer dwelling, Hickey street, cost \$1,500; Archibald Richards, brick veneer dwelling, Rochester street, cost \$1,200; J. & P. Armstrong, two brick veneered dwellings, Duke street, cost \$2,200.

MONTREAL, QUE.—It is proposed that the citizens shall erect a monument in honor of Lord Strathcona, for which purpose the necessary committees have been appointed.—David Seath, Secretary Harbor Commissioners, invites tenders up to Monday, December 3rd, for supply of cut stone, rubble stone, broken stone, Portland cement and sand. Specifications from John Kennedy, chief engineer.—Mayor Ducharme, of St. Cunegonde, President of the Union des Abattoirs, has announced the intention of the company to erect a rendering house in St. Henri.—The city council has decided to submit to the ratepayers on February 1st a by-law to raise a loan of \$2,000,000 for improvements to Bonsecours market

erection of a civic hospital, street improvements and raising the G.T.R. tracks to high level.—At a meeting of the special committee of the city council held last week, some minor changes were made in the plans of the proposed elevation of the Grand Trunk Railway tracks. There was some talk of constructing subways over crossings in St. Gabriel ward. Plans of the freight sheds to be built on Albert street were submitted.—The authorities of the Western Hospital are considering a scheme for the building of an entirely new hospital on Western Square.—It is reported that Resther & Sons, architects, have prepared plans for a new theatre to be built on the Brunet Estate property on Craig street, opposite Little Craig. J. B. Carter, a mining man of New Mexico, is said to be the moving spirit.—Building permits have been issued as follows: Mrs. H. M. Rafter, two storey house, Sherbrooke street, cost \$3,500 (V. Roy, architect); Dr. L. A. Gagnier, three storey house, 1206 Demontigny street, cost \$1,500; H. Dubuc, repairs to three storey house, 352 Logan street, cost \$1,100, Sisters of Hotel Dieu, four storey building, 55-59 St. Sulpice street, cost \$15,000; and repairs to three storey house, 20 26 St. Dixier street, cost \$4,000; Robt. Neville, jr., repairs to three houses, 494-498 St. Urban street, cost \$9,000.

TORONTO, ONT.—The city council has given notice of its intention to construct a cedar block pavement on Metcalfe street, from Winchester to Carlton, cost \$1,135, and a number of cement concrete sidewalks, including south side Gerrard street, from Parliament to Sumach, cost \$1,462; north side Queen street, from Grant to DeGrassi, cost \$2,300; and north side Lowther avenue, from Walmer road to Brunswick avenue, cost \$910.—The city engineer will leave for England early in December to gather information regarding sewage disposal works.—The necessity of increased accommodation at St. Michael's hospital has been pointed out by Dr. Oldright.—The city invites tenders up to noon to-day, Wednesday, for fire-proof floors in tower of new municipal buildings, including steel beams, terra cotta archings, concreting, etc.—Aemelius Jarvis, the chief promoter of the proposed palace hotel on King street, states that the work of tearing down the buildings on the proposed site will be commenced as soon as the tenants vacate, which it is hoped will be early in December.—The Industrial Exhibition Board is about to invite Canadian architects to submit plans for new buildings and alterations estimated to cost \$197,000, and including the following: New main building, 100,000 square feet of floor space, cost \$106,000; new art gallery, 7,500 square feet, cost \$10,000; dairy building, cost \$14,000; remodelling main building, taking off tower and repairing roof, cost \$5,000; building for stoves and heating apparatus, 10,000 square feet floor space, cost \$10,000; changing music pavilion for women's building, cost \$3,000; enlargement of poultry building, cost \$1,000; new horticultural building, cost \$15,000; enlargement of fruit building, cost \$3,000; new agricultural building, cost \$8,000; new administration building, cost \$5,000; new natural history building, cost \$7,000. The prizes to be given are as follows: New main building, \$250; art gallery, \$50; dairy building, \$75; stove building, \$50; horticultural building, \$75; agricultural building, \$40; administration building, \$50; natural history building, \$50.—E. B. Clancy is seeking to acquire the property at south-west corner of Bay and King streets for hotel purposes.—J. W. Siddall, architect, has completed plans for an addition of fifty rooms to the Grand Union hotel, corner Front and Simcoe streets. The addition will be equipped with an electric elevator, marble lavatories, etc., and a marble stepped entrance, with dado, is also to be added.—At the annual meet-

ing of the Women's Residence Association of Toronto University, held last week, the financial report showed that of the \$10,000 required for a residence \$6,000 has been subscribed.—The city engineer has recommended that the 13 inch water main on Lake street be extended 1,300 feet westerly, at a cost of \$2,980. He has also recommended 6-inch mains on Hepburn and Lucas streets.—A petition has been received against a brick pavement on Gerard street, between Parliament and Broadview.—In the report of the city engineer presented to council last week, he recommends that a by-law be submitted to the ratepayers to provide \$150,000 for a new 15,000,000 gallon pumping engine at main pumping station, \$40,000 for a 5,000,000 gallon engine at the high level station, \$200,000 for the extension of the 6-foot conduit, and \$13,500 for the new main for high level district. He also recommends the construction of the following works: Asphalt pavement on Huron street, from Cecil to College street, cost \$5,735; cement concrete sidewalk in Charles street, north side, from Yonge to Church street, cost \$1,840; Harbord street, north side, from Lippincott to Bathurst street, cost \$5,600; on north side Harbord street, from Robert to Borden street, cost \$1,630; on west side St. George street, from Lowther avenue to 116 feet south, cost \$151; Howard street, north side, from Glen road to Sherbourne street, cost \$387; Peter street, east side, from King to 144 feet south of Adelaide, cost \$226; McCaul street, east side, from Caer Howell to College street, cost \$1,353; on same street, from Grange road to St. Patrick street, cost \$768.—Building permits have been granted as follows: C. A. Dinnick, two story brick and stone dwelling on Lowther avenue, near Walmer road, cost \$4,000; Mrs. M. Jones, pair of semi-detached brick dwellings on Duchess street, near George street, cost \$3,500; George A. White, frame dwelling on Waverley road, near Queen street, cost \$2,000; S. S. Clark, two-story brick residence, 44 Harbord street, cost \$2,500.

FIRES.

Store of Sonier & Richards at Memramcook, N. B.—Tannery of Ald. McLeod on Catarqui street, Kingston, Ont.; loss on building and machinery, \$8,000.—Presbyterian church at Onslow Station, N. S.; loss \$8,000.—Cold storage building at Iroquois, Ont., owned by Wm. Meldrum & Co., of Montreal; loss \$8,000, insurance \$3,500.—Residence of J. Ramsay, 495 Argyle avenue, Westmount, Que.—Residence of C. H. Clements at Aylesford, N. S.; loss \$13,000, insurance \$8,000.—Furniture warehouse of R. H. Campbell at Portage la Prairie, Man., partially destroyed, loss \$3,000.—Fire at Renfrew, Ont., on 13th inst., partially destroyed Eady's boot store, Kearney's jewellery store and Dr. Connelly's residence.

CONTRACTS AWARDED.

WELLAND, ONT.—\$3,500 public school debentures have been sold to Miss Lee, at \$3,505.

ST. JOHN, N.B.—Keenan & Ratchford have secured the contract for putting copper roof on post office.

KAMLOOPS, B.C.—Robt. McKay has been awarded the contract by the Dominion government for building new post office here.

WESTVILLE, N.S.—I. C. R. depot: E. F. Munro, of Windsor, contractor. The building will be of brick and stone, cost \$16,000.

WALKERVILLE, ONT.—Granolithic sidewalk debentures: Donald Cameron, of Scotland, successful tenderer, at \$3,160 and accrued interest.

ST. THOMAS, ONT.—Dait & Hamilton have received the contract for grading the Detroit River and Lake Erie extension from Dutton to Middlemarch.

TORONTO, ONT.—The contract for repairs to the Queen's wharf has been let to Medler & Ainet, price, \$2,500.—The Bertram Engine Works Co., of this city, have secured the contract for building a new steamer for the Richelieu & Ontario Navigation Company.

ST. LOUIS, QUE.—The corporation has purchased an extension fire ladder from B. Ledoux, corner St. Antoine and Windsor streets, Montreal; price \$1,850.—The Harbor Commissioners have awarded to the W. H. Kelly Lumber Co. the contract for the timber required for next year; price, \$42,066 74.

KINGSTON, ONT. H. P. Smith, architect, has accepted the following tenders for remodelling residence on Wellington street for Mrs. McRossie: Masonry, Watts & Morley; carpentry, Hunter & Harold; painting, Robinson Bros. The contract for heating and plumbing has not yet been let.—Power & Son, architects, have accepted the following tenders for remodelling the premises of the Brame estate, corner Princess and Sydenham streets, for a laundry for R. D. Bakers: Carpentry, W. J. Chapman; masonry, Douglas & McIquham; plumbing and heating, McKelvey & Birch; painting, T. W. Milo.

ASBESTOS.

This is derived from a Greek word signifying unconsumable, and is a variety of the horn blende family of minerals. The material consists of fine crystalline elastic fibres, with a silky lustre, varying in colour from white to gray and green and is indestructible by fire. A single fibre of it fuses to a white enamel, but in the mass it is capable of resisting ordinary flame, and has on this account been regarded from ancient times as a most interesting substance. Woven into cloth, it forms a fireproof texture, which, to be purified, requires only to be thrown in the fire, and it is said that the ancients used to wrap the bodies of their dead in asbestos cloth to keep their ashes separate from those of the surrounding funeral pile.

There are several varieties of asbestos. Amianthus is the rarest and most delicate kind, its fibres being beautifully white, flexible, long, and regularly laid. It is found in the Pyrenees, the Alps, on Mount St. Gothard, in North America, Sweden, the Ural Mountains, Silesia, and New South Wales; but the most beautiful specimens are said to come from Savoy and Corsica. Common asbestos is not so light either in colour or weight as amianthus, and is more splintery, inflexible and irregular in structure. It is found in serpentine rocks in Anglesea, Cornwall, and also in several parts of Scotland. Mountain leather and mountain cork are other varieties where the fibres are less flexible and regular than in either of the above. The former is in thin flexible sheets, and the latter is so named from being not unlike common cork, and so light as to swim on water. It is found in Lanarkshire. Mountain wood is a soft, tough, opaque, brownish-coloured variety of asbestos, much heavier than the last, and melting to a black slag before the blow-pipe. It is

found in Tyrol, in Dauphing, and in Scotland.

Asbestos has been employed with much success for fireproof roofing and flooring, for the packing of steam pipes and pistons of engines, and for the packing in fireproof safes.

GAUGING PORTLAND CEMENT.

A correspondent of the Builders' Journal writes that he is desirous of doing some cement dressing, and asks what he should mix with Portland cement to make it bold. He has tried mixing with water only, but the cement rubbed off in a powder as soon as it dried. The explanation given is as follows: Obviously the cement used was of inferior quality or improperly gauged. Water is the natural liquid for gauging Portland cement, but it should be clean and free from foreign matter. For casting cement dressings the cement should be mixed with an aggregate, in the proportion of three to five of the latter to one of the former. The aggregate may consist of broken stone, brick, granite, slag, gravel or coke breeze. The size of the aggregate is regulated (to some extent) by the size and purpose of the cast, and may range from $\frac{1}{4}$ inch to 2 inch. The aggregate should also be angular, and of mixed sizes, so as to bond better together. The addition of a small percentage of sand tends to form a closely grained surface.

SWEDISH BRICKWORK.

Sweden is a country of forests, says the Stone Trades Journal, and until recently the domestic buildings were constructed almost entirely of wood. Time after time, however, the towns have been laid waste by fire, and from the ashes there are now rising towns of brick and stucco. The bricks are usually larger than those employed in this country, measuring about 12 in. by 6 in. by 3 in., but the size varies in different districts. For exposed brickwork, header bond is generally adopted, the angles being formed with three-quarter bricks laid alternately along each return. At Upsala Cathedral, however—which, by the way, has been restored till it looks as if it were built yesterday instead of five hundred years ago—the bond is somewhat curious and varies in different parts of the building. Most of it is a modification of the so-called Flemish bond, and consists of two stretchers followed by a header. The effect is far from displeasing. A few modern buildings in Stockholm are faced with rock-faced wall stones, shading in color from yellowish-brown to purple. The courses vary in depth and in width of bed, so as to bond with the brickwork behind.

CUBING BUILDINGS.

A writer in the Builders' Journal says: "Referring to the cubing of a building for the purpose of roughly estimating its cost, it does not seem difficult to calculate the cube contents of, say a house; but I am told just enough to gather that there are

different modes of allowing a capacity to foundations, and perhaps roofs, &c. Kindly give me some information on this subject."

Answer. — Leaning's "Quantities," which is the standard work, says: "The most usual practice is to multiply the outside length of the building by the breadth, and the result by the height from the bottom of the footings to half-way up the roof. These measurements, to be of any value, must always be done in the same manner, and must comprise the whole contents, including the walls. Disregard chimney-stacks, buttresses, and dormers, unless in unusual number. A different price per foot may sometimes be adopted for the various parts, but not often. It is more convenient to adopt one uniform rate. For boundary walls and such works an approximate estimate should be made and added to the price arrived at by cubing." There are other methods, but this is the best. The rate for a private residence averages 7d per cubic foot.

NEW KIND OF CHIMNEY BRICK.

A German system of chimney building has been recently introduced into America. These chimneys are of round construction, being built of radially moulded bricks, perforated. The perforations serve as a dead air space, preventing radiation through the walls, resulting in better average draft, and causing same to be less affected by atmospheric changes. A sufficient number of sizes and shapes of these are carried in stock to enable the builder to produce a circle of any diameter, and thus to build a chimney of any size, and to conform to the diminishing radius as the height increases. These bricks are much larger than the common form, and the joints are correspondingly fewer. No attempt is made to make the perforations

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register. They serve simply to give the mortar a better hold and to furnish dead air space which retard the radiation. It is possible, too, that they serve a useful purpose in the uniform burning of the brick. At all events, brick so perforated crushed at 5,035 lbs. per square inch, against 4,987 lbs. for solid brick made out of the same material. The perforations, it is said, increase the adhesion of the joint about threefold.

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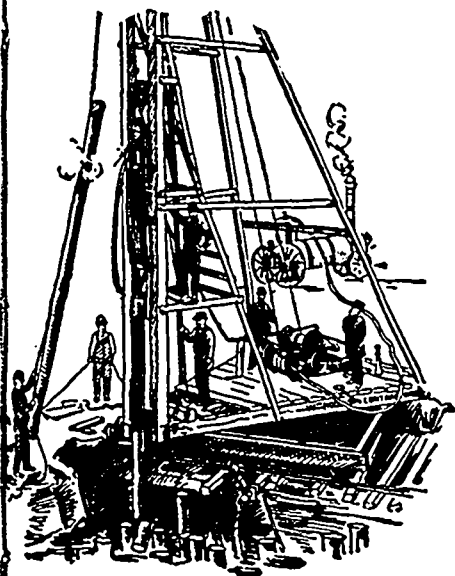
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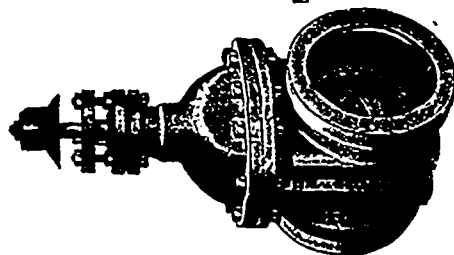
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LEGAL DECISIONS AFFECTING MUNICIPALITIES.

An important verdict was given at Owen Sound, Ont., recently, by Chancellor Boyd in the non-jury sittings of the High Court. The action was brought by Mr. Wesley Owens, implement agent, against the town of Owen Sound, for damages for injuries received in a fall on Poulett street, as the result of tripping over some iron grating which had been left loosely lying on the new granolithic pavement. The verdict was for \$750 and costs. The town endeavored to make the owners of the Paterson House, to which the grating belonged, parties to the action, but this was not allowed.

HOMWOOD VS. CITY OF HAMILTON.—Judgment in action tried at Hamilton brought to recover damages for injuries sustained by plaintiff, who, while walking along the south side of Market square, and stepping towards a doorway leading into the premises of the third party, Hughes, struck his toe against the step or door-sill, and stumbling, fell back into an area or opening in the sidewalk used by Hughes, by permission of defendants, for putting beer, etc., into his cellar. Held, that the third party had not been negligent, and so defendants had not, and that plaintiff by the exercise of such care as was incumbent upon him to use owing to his defective vision, could have avoided the accident. See *Davenport vs. Ruckman*, 3, N.Y., 568. Action dismissed with costs, and also the claim of defendants against the third party. Costs of third party to be paid by defendants.

For two years the city of Brantford has been taking gravel from a pit at the foot of Market street owned by Messrs. Thomas Elliott, R. Henry and H. McK. Wilson, Q.C. No pay was ever received, as the remuneration could not be decided upon. Finally the gentleman in question pressed for a settlement, and the

municipality expropriated the property and tendered \$1,700 in payment of all claims. The offer was rejected and the matter referred to arbitration. The city named Sheriff Watt, the three gentlemen selected A. H. Baird, of Paris, and these two chose Judge Snider, of the city of Hamilton, as third man. They met and heard expert and other evidence during two days. The arbitrators have just made their award, Sherriff Watt dissenting. The award was that the city should pay to Messrs. Elliott, Henry and Wilson \$6,100, being the sum of \$6,000 for 12 acres of gravel land, which includes two acres of river bed, and \$100 for two acres of old river bed and \$140 interest from June 4th last at 5 per cent., together with the costs of the arbitrators. The other costs will be borne by each side. It is a valuable gravel pit and has supplied the material for the construction of the dykes on Erie avenue, Eagle avenue and Port street. A portion of the property is replenished each year by the action of the river.

MUNICIPAL WATER COOLING EXPERIMENT.

The innovation of the city of Philadelphia in establishing a water cooling system in the basement of the City Hall will be watched with

interest by every other large city in the country. It seems strange that other cities have not taken up the idea, for it is cheaper than using ice, besides having additional advantage of being less bothersome. The estimates for the cost of establishing the plant have been furnished, and it remains for the city council to appropriate the money. These estimates are somewhat higher than expected, amounting to \$45,728.50. This system is designed to cool 50,000 gallons of water, of which about four-fifths is wasted. For this service the total weight of the plant will be about 120,000 pounds. The refrigerating plant will be in the basement and about 20,000 feet of distributing pipes will be necessary. The rising mains will consist of two 4-in. pipes, carried from the basement to the ceiling of the seventh floor. There 2-inch pipes will be run around the seventh floor, to which will be connected forty-two 1-inch distributing pipes. These will be run to 4-inch return mains in the basement to insure circulation. It is proposed to furnish the wash basins with this water and place porcelain wall fountains where necessary. In addition to this work of supplying sixty basins and one hundred and twenty-eight wall fountains, it is proposed to put fountains in the entrances and corridors, seven such fountains to be placed on each floor. Of the total cost, \$27,678.50 will be required for materials. The installation of the refrigerating plant will cost \$13,050.

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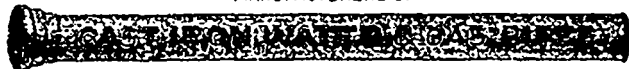
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 Lime, 100 lbs., Grey..... 30
 " White..... 35
 Plaster, Calcined, N. B..... 2 00 1 50
 " N. S..... 2 00 1 50
 Hair, Plasterers', per bag... 80 1 00 0 00

HARDWARE.
 The following are the quotations to builders for nails at Toronto and Montreal:
 Cut nails, 50d & 60d, per keg 2 85 2 85
 teal " " 2 95 2 99

CUT NAILS, FENCE AND CUT SPIKES.
 Toronto. Montreal:
 40d, hot cut, per 100 lbs.... 2 45 2 85
 50 to 12d, hot cut..... 2 55 2 95
 8d, 9d, " "..... 2 60 3 00
 6d, 7d, " "..... 2 75 3 15
 4d to 5d, " "..... 2 85 3 25
 3d, " "..... 3 10 3 50
 2d, " "..... 3 45 3 85
 Cut spikes, 10 cents per keg advance.
 Steel Nails, roc. per keg extr Wire nails, 2.85 base price.

Iron Pipe:
 ron pipe, 3/4 inch, per 100 feet.....\$3.25
 " " 3/4 " " "..... 3.35
 " " 3/4 " " "..... 3.60
 " " 1 1/4 " " "..... 5.00
 " " 1 1/2 " " "..... 7.00
 " " 2 " " "..... 7.60
 " " 2 " " "..... 11.00

Lead Pipe:
 Lead pipe, per lb..... 7c } 15 per
 Waste pipe, per lb..... 7 1/2 cent. dis.

Galvanized Iron:
 Adam's—Mar's Best and Queen's Head and Opello:
 16 to 24 gauge, per lb..... 4 1/2c 4 1/2c
 26 gauge, " "..... 4 1/2 5
 28 " "..... 5 5 1/2
 Gordon Crown—
 16 to 24 gauge, per lb..... 4 1/2 4 1/2
 26 gauge, " "..... 4 1/2 4 1/2
 28 " "..... 4 1/2 5
 Note.—Cheaper grades about 1/2c. per lb. less.

Structural Iron:
 Steel Beams, per 100 lbs..... 2 75 2 30
 " channels, "..... 2 85 2 37
 " angles, "..... 2 50 2 60
 " tees, "..... 2 80 2 60
 " plates, "..... 2 2 2 00
 Sheared steel bridge plate..... 3 31

ARCHITECTURAL VARNISHES.
 THE IMPERIAL VARNISH AND COLOR CO., LIMITED.
 (Highest grade)
 (Cans free.)
 1/2 gal. cans. 1/2 gal. cans. 1/2 gal. cans. 1/2 gal. cans. 1/2 gal. cans. 1/2 gal. cans.
 Per gal. Per gal. Per gal. Per gal. Per gal. Per gal.
 Exterior wearing body.....\$1.50 \$5.75 \$5.95 \$6.20 \$6.60
 Exterior rubbing..... 3.50 3.75 3.85 4.20 4.60
 El sto ia..... 3.50 3.75 3.85 4.20 4.60
 Ivory F. ame inc..... 5.00 5.25 5.35 5.70 6.10
 Cryst. li..... 4.50 4.75 4.85 5.20 5.60
 Yachine..... 3 0 3.25 3.35 3.70 4.10
 Archit ctural Ceach..... 2.50 2.75 2.85 3.20 3.60
 G anitn floor f ith..... 2.50 2.75 2.85 3.20 3.60
 Architectura. flating..... 2 00 2 25 2 35 2 70 3 00